# Port Usage Information for the IM and Presence Service


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## IM and Presence Service Port Usage Overview

This document provides a list of the TCP and UDP ports that the IM and Presence Service uses for intracluster connections and for communications with external applications or devices. It provides important information for the configuration of firewalls, Access Control Lists (ACLs), and quality of service (QoS) on a network when an IP Communications solution is implemented.

**Note** Cisco has not verified all possible configuration scenarios for these ports. If you are having configuration problems using this list, contact Cisco technical support for assistance.

While virtually all protocols are bidirectional, this document gives directionality from the session originator perspective. In some cases, the administrator can manually change the default port numbers, though Cisco does not recommend this as a best practice. Be aware that the IM and Presence Service opens several ports strictly for internal use.

Ports in this document apply specifically to the IM and Presence Service. Some ports change from one release to another, and future releases may introduce new ports. Therefore, make sure that you are using the correct version of this document for the version of IM and Presence Service that is installed.

Configuration of firewalls, ACLs, or QoS will vary depending on topology, placement of devices and services relative to the placement of network security devices, and which applications and telephony extensions are in use. Also, bear in mind that ACLs vary in format with different devices and versions.

## Information Collated in Table

This table defines the information collated in each of the tables in this document.

*Table 1: Definition of Table Information*

| Table Heading | Description |
|---|---|
| From | The client sending requests to this port |
| To | The client receiving requests on this port |
| Role | A client or server application or process |
| Protocol | Either a Session-layer protocol used for establishing and ending communications, or an Application-layer protocol used for request and response transactions |
| Transport Protocol | A Transport-layer protocol that is connection-oriented (TCP) or connectionless (UDP) |
| Destination / Listener | The port used for receiving requests |
| Source / Sender | The port used for sending requests |

# IM and Presence Service Port List

The following tables show the ports that the IM and Presence Service uses for intracluster and intercluster traffic.

*Table 2: IM and Presence Service Ports - SIP Proxy Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| SIP Gateway<br>---<br>IM and Presence | IM and Presence<br>---<br>SIP Gateway | SIP | TCP/UDP | 5060 | Ephemeral | Default SIP Proxy UDP and TCP Listener |
| SIP Gateway | IM and Presence | SIP | TLS | 5061 | Ephemeral | TLS Server Authentication listener port |
| IM and Presence | IM and Presence | SIP | TLS | 5062 | Ephemeral | TLS Mutual Authentication listener port |
| IM and Presence | IM and Presence | SIP | UDP / TCP | 5049 | Ephemeral | Internal port. Localhost traffic only. |
| IM and Presence | IM and Presence | HTTP | TCP | 8081 | Ephemeral | Used for HTTP requests from the Config Agent to indicate a change in configuration. |

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| Third-party Client | IM and Presence | HTTP | TCP | 8082 | Ephemeral | Default IM and Presence HTTP Listener. Used for Third-Party Clients to connect |
| Third-party Client | IM and Presence | HTTPS | TLS / TCP | 8083 | Ephemeral | Default IM and Presence HTTPS Listener. Used for Third-Party Clients to connect |

*Table 3: IM and Presence Service Ports - Presence Engine Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | IM and Presence (Presence Engine) | SIP | UDP / TCP | 5080 | Ephemeral | Default SIP UDP/TCP Listener port |
| IM and Presence (Presence Engine) | IM and Presence (Presence Engine) | Livebus | UDP | 50000 | Ephemeral | Internal port. Localhost traffic only. LiveBus messaging port. The IM and Presence Service uses this port for cluster communication. |

*Table 4: IM and Presence Service Ports - Cisco Tomcat WebRequests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| Browser | IM and Presence | HTTPS | TCP | 8080 | Ephemeral | Used for web access |
| Browser | IM and Presence | AXL / HTTPS | TLS / TCP | 8443 | Ephemeral | Provides database and serviceability access via SOAP |
| Browser | IM and Presence | HTTPS | TLS / TCP | 8443 | Ephemeral | Provides access to Web administration |
| Browser | IM and Presence | HTTPS | TLS / TCP | 8443 | Ephemeral | Provides access to User option pages |

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| Browser | IM and Presence | SOAP | TLS / TCP | 8443 | Ephemeral | Provides access to Cisco Unified Personal Communicator, Cisco Unified Mobility Advantage, and third-party API clients via SOAP |
| Browser | IM and Presence | HTTPS | TCP | 9463 | Ephemeral | Hypertext Transport Protocol over SSL(HTTPS) allows only TLS1.3 with v6. |

*Table 5: IM and Presence Service Ports - External Corporate Directory Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence<br>---<br>External Corporate Directory | External Corporate Directory<br>---<br>IM and Presence | LDAP | TCP | 389<br>/ 3268 | Ephemeral | Allows the Directory protocol to integrate with the external Corporate Directory. The LDAP port depends on the Corporate Directory (389 is the default). In case of Netscape Directory, customer can configure different port to accept LDAP traffic.<br>Allows LDAP to communicate between IM&P and the LDAP server for authentication. |
| IM and Presence | External Corporate Directory | LDAPS | TCP | 636 | Ephemeral | Allows the Directory protocol to integrate with the external Corporate Directory. LDAP port depends on the Corporate Directory (636 is the default). |

*Table 6: IM and Presence Service Ports - Configuration Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (Config Agent) | IM and Presence (Config Agent) | TCP | TCP | 8600 | Ephemeral | Config Agent heartbeat port |

*Table 7: IM and Presence Service Ports - Certificate Manager Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | Certificate Manager | TCP | TCP | 7070 | Ephemeral | Internal port - Localhost traffic only |

*Table 8: IM and Presence Service Ports - IDS Database Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (Database) | IM and Presence (Database) | TCP | TCP | 1500 | Ephemeral | Internal IDS port for Database clients. Localhost traffic only. |
| IM and Presence (Database) | IM and Presence (Database) | TCP | TCP | 1501 | Ephemeral | Internal port - this is an alternate port to bring up a second instance of IDS during upgrade. Localhost traffic only. |
| IM and Presence (Database) | IM and Presence (Database) | XML | TCP | 1515 | Ephemeral | Internal port. Localhost traffic only. DB replication port |

*Table 9: IM and Presence Service Ports - IPSec Manager Request*

| From Sender | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (IPSec) | IM and Presence (IPSec) | Proprietary | UDP/TCP | 8500 | 8500 | Internal port - cluster manager port used by the ipsec_mgr daemon for cluster replication of platform data (hosts) certs |

*Table 10: IM and Presence Service Ports - DRF Master Agent Server Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (DRF) | IM and Presence (DRF) | TCP | TCP | 4040 | Ephemeral | DRF Master Agent server port, which accepts connections from Local Agent, GUI, and CLI |

*Table 11: IM and Presence Service Ports - RISDC Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (RIS) | IM and Presence (RIS) | TCP | TCP | 2555 | Ephemeral | Real-time Information Services (RIS) database server. Connects to other RISDC services in the cluster to provide clusterwide real-time information |
| IM and Presence (RTMT/AMC/ SOAP) | IM and Presence (RIS) | TCP | TCP | 2556 | Ephemeral | Real-time Information Services (RIS) database client for Cisco RIS. Allows RIS client connection to retrieve real-time information |
| IM and Presence (RIS) | IM and Presence (RIS) | TCP | TCP | 8889 | 8888 | Internal port. Localhost traffic only. Used by RISDC (System Access) to link to servM via TCP for service status request and reply |

*Table 12: IM and Presence Service Ports - SNMP Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| SNMP Server | IM and Presence | SNMP | UDP | 161, 8161 | Ephemeral | Provides services for SNMP-based management applications |
| IM and Presence | IM and Presence | SNMP | UDP | 6162 | Ephemeral | Native SNMP agent that listens for requests forwarded by SNMP master agents |

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | IM and Presence | SNMP | UDP | 6161 | Ephemeral | SNMP Master agent that listens for traps from the native SNMP agent, and forwards to management applications |
| SNMP Server | IM and Presence | TCP | TCP | 7999 | Ephemeral | Used as a socket for the cdp agent to communicate with the cdp binary |
| IM and Presence | IM and Presence | TCP | TCP | 7161 | Ephemeral | Used for communication between the SNMP Master agent and subagents |
| IM and Presence | SNMP Trap Monitor | SNMP | UDP | 162 | Ephemeral | Sends SNMP traps to management applications |
| IM and Presence | IM and Presence | SNMP | UDP | Configurable | 61441 | Internal SNMP trap receiver |

*Table 13: IM and Presence Service Ports - Racoon Server Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| Gateway<br>----------<br>IM and Presence | IM and Presence<br>----------<br>Gateway | Ipsec | UDP | 500 | Ephemeral | Enables Internet Security Association and the KeyManagement Protocol |

*Table 14: IM and Presence Service Ports - System Service Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (RIS) | IM and Presence (RIS) | XML | TCP | 8888 and 8889 | Ephemeral | Internal port. Localhost traffic only. Used to listen to clients communicating with the RIS Service Manager (servM). |

*Table 15: IM and Presence Service Ports - DNS Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | DNS Server | DNS | UDP | 53 | Ephemeral | The port that DNS server listen on for IM and Presence DNS queries.<br>To: DNS Server \| From: IM and Presence |

*Table 16: IM and Presence Service Ports - SSH/SFTP Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | Endpoint | SSH / SFTP | TCP | 22 | Ephemeral | Used by many applications to get command line access to the server. Also used between nodes for certificate and other file exchanges (sftp) |

*Table 17: IM and Presence Service Ports - ICMP Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence<br>----------<br>Cisco Unified Communications Manager | Cisco Unified Communications Manager<br>----------<br>IM and Presence | ICMP | IP | Not Applicable | Ephemeral | Internet Control Message Protocol (ICMP). Used to communicate with the Cisco Unified Communications Manager server |

*Table 18: IM and Presence Service Ports - NTP Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | NTP Server | NTP | UDP | 123 | Ephemeral | Cisco Unified Communications Manager is the acting NTP server. Used by subscriber nodes to synchronize time with the publisher node. |

*Table 19: IM and Presence Service Ports - Microsoft Exchange Notify Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| Microsoft Exchange | IM and Presence | HTTP (HTTPu) | ) WebDAV - HTTP /UDP/IP notifications<br>2) EWS - HTTP/TCP /IP SOAP notifications | IM and Presence server port (default 50020) | Ephemeral | Microsoft Exchange uses this port to send notifications (using NOTIFY message) to indicate a change to a particular subscription identifier for calendar events. Used to integrate with any Exchange server in the network configuration. Both ports are created. The kind of messages that are sent depend on the type of Calendar Presence Backend gateway(s) that are configured. |

*Table 20: IM and Presence Service Ports - SOAP Services Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (Tomcat) | IM and Presence (SOAP) | TCP | TCP | 5007 | Ephemeral | SOAP monitor port |

*Table 21: IM and Presence Service Ports - AMC RMI Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | RTMT | TCP | TCP | 1090 | Ephemeral | AMC RMI Object port. Cisco AMC Service for RTMT performance monitors, data collection, logging, and alerting. |
| IM and Presence | RTMT | TCP | TCP | 1099 | Ephemeral | AMC RMI Registry port. Cisco AMC Service for RTMT performance monitors, data collection, logging, and alerting. |

*Table 22: IM and Presence Service Ports - XCP Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| XMPP Client | IM and Presence | TCP | TCP | 5222 | Ephemeral | Client access port |
| IM and Presence | IM and Presence | TCP | TCP | 5269 | Ephemeral | Server to Server connection (S2S) port |
| Third-party BOSH client | IM and Presence | TCP | TCP | 5280 | Ephemeral | HTTP listening port used by the XCP Web Connection Manager for BOSH third-party API connections |
| IM and Presence (XCP Services) | IM and Presence (XCP Router | TCP | TCP | 7400 | Ephemeral | XCP Router Master Accept Port. XCP services that connect to the router from an Open Port Configuration (for example XCP Authentication Component Service) typically connect on this port. |
| IM and Presence (XCP Router | IM and Presence (XCP Router | UDP | UDP | 5353 | Ephemeral | MDNS port. XCP routers in a cluster use this port to discover each other. |
| IM and Presence (XCP Router | IM and Presence (XCP Router | TCP | TCP | 7336 | HTTPS | MFT File transfer (On-Premises only). |

*Table 23: IM and Presence Service Ports - External Database Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | PostgreSQL database | TCP | TCP | 5432[1] | Ephemeral | PostgreSQL database listening port |
| IM and Presence | Oracle database | TCP | TCP | 1521 | Ephemeral | Oracle database listening port |
| IM and Presenc | MSSQL database | TCP | TCP | 1433 | Ephemeral | MSSQL database listening port |

[1] This is the default port, however you can configure the PostgreSQL database to listen on any port.

*Table 24: IM and Presence Service Ports - High Availability Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (Server Recovery Manager) | IM and Presence (Server Recovery Manager) | TCP | TCP | 20075 | Ephemeral | The port that Cisco Server Recovery Manager uses to provide admin rpc requests. |
| IM and Presence (Server Recovery Manager) | IM and Presence (Server Recovery Manager) | UDP | UDP | 21999 | Ephemeral | The port that Cisco Server Recovery Manager uses to communicate with its peer. |

*Table 25: IM and Presence Service Ports - In Memory Database Replication Messages*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | IM and Presence | Proprietary | TCP | 6603* | Ephemeral | Cisco Presence Datastore |
| IM and Presence | IM and Presence | Proprietary | TCP | 6604* | Ephemeral | Cisco Login Datastore |
| IM and Presence | IM and Presence | Proprietary | TCP | 6605* | Ephemeral | Cisco SIP Registration Datastore |
| IM and Presence | IM and Presence | Proprietary | TCP | 9003 | Ephemeral | Cisco Presence Datastore dual node presence redundancy group replication. |
| IM and Presence | IM and Presence | Proprietary | TCP | 9004 | Ephemeral | Cisco Login Datastore dual node presence redundancy group replication. |
| IM and Presence | IM and Presence | Proprietary | TCP | 9005 | Ephemeral | Cisco SIP Registration Datastore dual node presence redundancy group replication. |

* If you want to run the Administration CLI Diagnostic Utility, using the `utils imdb_replication status` command, these ports must be open on all firewalls that are configured between IM and Presence Service nodes in the cluster. This setup is not required for normal operation.

*Table 26: IM and Presence Service Ports - In Memory Database SQL Messages*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | IM and Presence | Proprietary | TCP | 6603 | Ephemeral | Cisco Presence Datastore SQL Queries. |
| IM and Presence | IM and Presence | Proprietary | TCP | 6604 | Ephemeral | Cisco Login Datastore SQL Queries. |
| IM and Presence | IM and Presence | Proprietary | TCP | 6605 | Ephemeral | Cisco SIP Registration Datastore SQL Queries. |
| IM and Presence | IM and Presence | Proprietary | TCP | 6606 | Ephemeral | Cisco Route Datastore SQL Queries. |

*Table 27: IM and Presence Service Ports - In Memory Database Notification Messages*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence | IM and Presence | Proprietary | TCP | 6607 | Ephemeral | Cisco Presence Datastore XML-based change notification. |
| IM and Presence | IM and Presence | Proprietary | TCP | 6608 | Ephemeral | Cisco Login Datastore XML-based change notification. |
| IM and Presence | IM and Presence | Proprietary | TCP | 6609 | Ephemeral | Cisco SIP Registration Datastore XML-based change notification. |
| IM and Presence | IM and Presence | Proprietary | TCP | 6610 | Ephemeral | Cisco Route Datastore XML-based change notification. |

*Table 28: IM and Presence Service Ports - Force Manual Sync/X.509 Certificate Update Requests*

| From (Sender) | To (Listener) | Protocol | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|---|
| IM and Presence (Intercluster Sync Agent) | IM and Presence (Intercluster Sync Agent) | TCP | TCP | 37239 | Ephemeral | Cisco Intercluster Sync Agent service uses this port to establish a socket connection for handling commands. |

*Table 29: IM and Presence Service Ports - ICMP Requests*

| From (Sender) | To (Listener) | Destination Port | Purpose |
|---|---|---|---|
| Endpoint/IM and Presence | IM and Presence | 7 | Internet Control M Protocol (ICMP) number carries ec traffic. It does not port as indicated i heading. |
| IM and Presence | Endpoint/IM and Presence | | |

*Table 30: Ports used for IM and Presence - Cisco Unified CM communication and IM and Presence Publisher - Subscriber communication*

| From (Sender) | To (Listener) | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|
| Cisco Unified Communications Manager | IM and Presence Publisher | TCP | 1500 | Bi-directional | Internal ID port for Database clients. Localhost traffic only. |
| Cisco Unified Communications Manager | IM and Presence Publisher | TCP | 8443 | Bi-directional | Provides access to Web administration. |
| Cisco Unified Communications Manager | IM and Presence Publisher | TCP | 1090 | Bi-directional | AMC RMI Object port. Cisco AMC Service for RTMT performance monitors, data collection, logging, and alerting. |
| Cisco Unified Communications Manager | IM and Presence Publisher | TCP | 2555 | Bi-directional | Bi-directional Real-time Information Services (RIS) database server. Connects to other RISDC services in the cluster to provide clusterwide real-time information. |
| Cisco Unified Communications Manager | IM and Presence Publisher | TCP | 8500 | Bi-directional | Internal port - cluster manager port used by the ipsec_mgr daemon for cluster replication of platform data (hosts) certificates. |
| Cisco Unified Communications Manager | IM and Presence Publisher | TCP | 8600 | Bi-directional | Config Agent heartbeat port |
| Cisco Unified Communications Manager | IM and Presence Publisher | UDP | 123 | Bi-directional | Network Time Protocol(NTP) used for time synchronization. |

| From (Sender) | To (Listener) | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|
| IM and Presence Publisher | IM and Presence Subscriber | UDP | 50000 | Bi-directional | Internal port. Localhost traffic only. LiveBus messaging port. TheIM and PresenceService uses this port for cluster communication. |
| IM and Presence Publisher | IM and Presence Subscriber | UDP | 21999 | Bi-directional | The port that Cisco Server Recovery Manager uses to communicate with its peer. |
| IM and Presence Publisher | Cisco Unified Communications Manager | TCP | 4040 | Bi-directional | DRF Master Agent server port that accepts connections from Local Agent, GUI, and CLI. |
| IM and Presence Publisher | Cisco Unified Communications Manager | TCP | 8001 | Bi-directional | Used while configuring persistent chat. |
| IM and Presence Publisher | Cisco Unified Communications Manager | TCP | 6379 | Bi-directional | Used while configuring managed file transfer (MFT). |
| IM and Presence Publisher | IM and Presence Subscriber | TCP | 7 | Bi-directional | Used while configuring external database (MSSQL). |
| IM and Presence Publisher | IM and Presence Subscriber | TCP | 20075 | Bi-directional | The port that Cisco Server Recovery Manager uses to provide admin RPC requests. |
| IM and Presence Publisher | IM and Presence Subscriber | TCP | 8600 | Bi-directional | Config Agent heartbeat port |
| IM and Presence Subscriber | IM and Presence Publisher | TCP | 9005 | Bi-directional | Cisco SIP Registration Datastore dual node presence redundancy group replication. |
| IM and Presence Subscriber | IM and Presence Publisher | TCP | 9003 | Bi-directional | Cisco Presence Datastore dual node presence redundancy group replication. |
| IM and Presence Subscriber | IM and Presence Publisher | TCP | 20075 | Bi-directional | The port that Cisco Server Recovery Manager uses to provide admin RPC requests. |

| From (Sender) | To (Listener) | Transport Protocol | Destination / Listener | Source / Sender | Remarks |
|---|---|---|---|---|---|
| IM and Presence Subscriber | IM and Presence Publisher | TCP | 9004 | Bi-directional | Cisco Login Datastore dual node presence redundancy group replication. |
| Cisco Unified Communications Manager | IM and Presence Publisher | TCP | 5070 | Bi-directional | Used on a call configuration |
| IM and Presence Publisher | IM and Presence Subscriber | TCP | 44000 | Bi-directional | Used on a call configuration |

*Table 31: On-a-call_Presence*

| From (Sender) | To (Listener) | Source Port | Destination Port | Protocol | Remarks |
|---|---|---|---|---|---|
| Cisco Unified Communications Manager | IM and Presence Publisher | [37240 – 61000] | 5070 | TCP | |
| IM and Presence Publisher | XMPP client (Jabber) | 5222 | 64846 | TCP | Client Access Port |
| IM and Presence Publisher | XMPP client (Jabber) | 5222 | 56361 | TCP | Client Access Port |

*Table 32: MS-SQL DB Configuration*

| From (Sender) | To (Listener) | Source Port | Destination Port | Protocol |
|---|---|---|---|---|
| IM and Presence Publisher | Database | [37240 – 61000] | 7 | TCP |

*Table 33: MS-SQL Persistent Chat Configuration*

| From (Sender) | To (Listener) | Source Port | Destination Port | Protocol |
|---|---|---|---|---|
| IM and Presence Publisher | Database | 37240 – 61000 | 1433 | TCP |

*Table 34: Managed File Transfer (MFT) Configuration*

| From (Sender) | To (Listener) | Source Port | Destination Port | Protocol |
|---|---|---|---|---|
| IM and Presence Publisher | External File Server | 37240 – 61000 | 7 | TCP |

| From (Sender) | To (Listener) | Source Port | Destination Port | Protocol |
|---|---|---|---|---|
| IM and Presence Publisher | External File Server | 37240 – 61000 | 22 | TCP |
| IM and Presence Publisher | External File Server | 37240 – 61000 | 5432 | TCP |
| IM and Presence Publisher | Database | 54288 - 54292 | 5432 | TCP |

See the *Cisco Unified Serviceability Administration Guide* for information about SNMP.