



Port Utilization for System Services

- [Port Utilization Table Columns, on page 1](#)
- [System Services Port Utilization, on page 2](#)

Port Utilization Table Columns

The columns in the port utilization tables in this document describe the following:

Listener (Process or Application Protocol)

A value representing the server or application and where applicable, the open or proprietary application protocol.

Listener Protocol and Port

An identifier for the TCP or UDP port that the server or application is listening on, along with the IP address for incoming connection requests when acting as a server.

Remote Device (Process or Application Protocol)

The remote application or device making a connection to the server or service specified by the protocol; or listening on the remote protocol and port.

Remote Protocol and Port

The identifier for the TCP or UDP port that the remote service or application is listening on, along with the IP address for incoming connection requests when acting as the server.

Traffic Direction

The direction that traffic flows through the port: Inbound, Bidirectional, Outbound.



Note

- The operating system dynamically assigns the source port that the local application or service uses to connect to the destination port of a remote device. In most cases, this port is assigned randomly above TCP/UDP 1024.
 - For security reasons, keep open only the ports mentioned in this guide and those required by your application. Keep the rest of the ports blocked.
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System Services Port Utilization

Table 1: System Services Port Utilization

Listener (Process or Application Protocol)	Listener Protocol and Port	Remote Device (Process or Application Protocol)	Remote Protocol and Port	Traffic direction	Purpose
System Service	TCP 7	Editor	—	Bidirectional	- Echo for Editor - ICM Controller
System Service	TCP 22	—	—	Bidirectional	SFTP and SSH access
Tomcat (HTTP)	TCP 80	—	—	Bidirectional	- Web access - Call recording server - Unified CCMP Web server and AXL provisioning - CRM Connector server - Default port for voice browsers to fetch media and "external VXML" files from media server
System Service	UDP 123	—	—	Bidirectional	NTP, network time sync
SNMP Agent	UDP 161	—	—	Inbound	Provide services for SNMP-based management applications
Tomcat	TCP 443	Client Browser	—	Bidirectional	Web access for CCE Web Administration and Internet Script Editor - Unified CCMP clients - Default port for voice browsers to fetch media and "external VXML" files from media server
AON Management Console (AMC) Service	TCP 1090	Intracluster communication	—	Bidirectional	Provide RTMT data collecting, logging and alerting functionalities (AMC RMI Object Port)
AON Management Console (AMC) Service	TCP 1099	Intracluster communication	—	Bidirectional	Provide RTMT data collecting, logging and alerting functionalities (AMC RMI Registry Port)

Listener (Process or Application Protocol)	Listener Protocol and Port	Remote Device (Process or Application Protocol)	Remote Protocol and Port	Traffic direction	Purpose
DBMON	TCP 1500	—	—	Bidirectional	This is the port where the IDS engine listens for DB clients
DBMON	TCP 1501	—	—	Bidirectional	- This is an alternate port to bring up a second instance of IDS during upgrade. - Localhost traffic only
DBL RPC	TCP 1515	Intracluster communication	—	Bidirectional	DBL RPC, this is used during installation to set up IDS replication between nodes
Real-Time Information Server (RIS) Data Collector service (RISDC)	TCP 2555	Intracluster communication	—	Bidirectional	Used by the RISDC platform service. The Real-time Information Server (RIS) maintains real-time Cisco Unified CM information such as device registration status, performance counter statistics, critical alarms generated, and so on. The Cisco RISDC service provides an interface for applications, such as RTMT, SOAP applications, Cisco Unified CM Administration and AMC to retrieve the information that is stored in all RIS nodes in the cluster.
RISDC	TCP 2556	Intracluster communication	—	Bidirectional	Allowed RIS client connection to retrieve real-time information
Disaster Recovery System (DRS)	TCP 4040	—	—	Bidirectional	Real-time service
Real-time service	TCP 5001	—	—	Bidirectional	SOAP Monitor
Perfmon service	TCP 5002	—	—	Bidirectional	SOAP Monitor
Control center service	TCP 5003	—	—	Bidirectional	SOAP Monitor
Log Collection Service	TCP 5004	—	—	Bidirectional	SOAP Monitor

Listener (Process or Application Protocol)	Listener Protocol and Port	Remote Device (Process or Application Protocol)	Remote Protocol and Port	Traffic direction	Purpose
System Service	TCP 5007	—	—	Bidirectional	SOAP Monitor - a troubleshooting tool for SOAP infrastructure
DBMON (CN)	TCP 8001	Intracluster communication	—	Bidirectional	DB change notification port.
Tomcat (HTTP)	TCP 8080	Client Browser	—	Bidirectional	<ul style="list-style-type: none"> - Client browser trying to access any of the Administration interfaces or User Options interface. - Web services client using RTMT, configuration APIs, and mobile supervisor applications. - Data replication for call recording server - OAMP for Live Data - CRM Connector for SAP (adjustable through registry)
HTTP	UDP 8080	Browser	—	Bidirectional	Unsecure port used for access to platform administration, platform serviceability, and Disaster Recovery System.
Tomcat	TCP 8443	—	—	Bidirectional	DB access via SOAP; Tomcat forwards the SOAP request to AXL
Tomcat (HTTPS)	TCP 8443	Client Browser	—	Bidirectional	<ul style="list-style-type: none"> - Client browser trying to access any of the Administration interfaces or User Options interface - Web services client using RTMT, configuration APIs, and mobile supervisor applications
HTTPS	UDP 8443	Browser	—	Bidirectional	- Secure port used for access to platform administration, platform serviceability, and Disaster Recovery System.
IPSec Manager daemon	TCP 8500	—	—	Bidirectional	Connectivity testing. Uses a proprietary protocol.

Listener (Process or Application Protocol)	Listener Protocol and Port	Remote Device (Process or Application Protocol)	Remote Protocol and Port	Traffic direction	Purpose
IPSec Manager daemon	UDP 8500	—	—	Bidirectional	Cluster replication of platform data (hosts) certificates etc. Uses a proprietary protocol.
Cisco IdS	TCP 8553				HTTPS for Cisco IdS

