



# Port Utilization in MediaSense

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## 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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# MediaSense Port Utilization

Table 1: MediaSense Port Utilization

Listener (Process or Application Protocol)	Listener Protocol and Port	Remote Device (Process or Application Protocol)	Remote Protocol and Port	Traffic Direction	Note
HTTPS	TCP 443, 8443	Web browser	Any		Used by Administration, serviceability
HTTPS	TCP 8440	Client application	Any		Used by API access
HTTPS	TCP 9443	Client application	Any		Used by media service to redirect authenticated requests.
HTTPS	TCP 8446	Web browser, API client	Any		Used by Call control service.
HTTPS	TCP 9081	Client application	Any		Used by media service to redirect authenticated requests.
HTTP	TCP 80, 8080	Web browser	Any		Used by Administration, serviceability
HTTP	TCP 8081	Web browser, API client	Any		Used by Call control service
HTTP	TCP 8085	Another CMS node	Any		Used by Call control service
HTTP	TCP 8087	CMS cluster nodes only	Any		Used by System service
HTTP	TCP 8088	CMS cluster nodes only	Any		Used by Configuration service
RTSP	TCP 554, 8554	RTSP media player	Any		Used by SM agent
RTSP	TCP 9554	Client application or media player	Any		Used by media service to redirect authenticated requests.
SIP	TCP 5060 UDP 5060	Unified Communications Manager or Unified Border Element	TCP 5060 UDP 5060		Call control service.
TCP/IP	TCP 1543	CMS cluster nodes only	Any		Used by Informix ER to make connections between primary server and secondary servers.  Used by API service or configuration service to make JDBC connections with Informix.

Listener (Process or Application Protocol)	Listener Protocol and Port	Remote Device (Process or Application Protocol)	Remote Protocol and Port	Traffic Direction	Note
Keep-alive heartbeats	UDP 8091	CMS cluster nodes only	UDP 8091		Used by a call control service to detect availability of other call control services.
JMS	TCP 61610	CMS cluster nodes only	Any		Used by API service
JMS	TCP 61612	CMS cluster nodes only	Any		Used by Call control service
JMS	TCP 61616	CMS cluster nodes only	Any		Used by SM agent
Ephemeral port range	UDP 32768 - 61000	Phone or gateway that sends RTP media streams.	Any		Range of ports used by media service to receive RTP media streams.

