# Port Utilization in Cisco VVB

## 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.

# Cisco VVB Port Utilization

*Table 1: Cisco VVB Port Utilization*

| Listener (Process or Application Protocol) | Listener Protocol and Port | Remote Device (Process or Application Protocol) | Remote Protocol and Port | Traffic Direction | Notes |
|---|---|---|---|---|---|
| VBONINIT | TCP 1504 | External process like HRC, WallBoard Client, External DB clients (like Squirrel or others for custom reporting) can connect | — | Bidirectional | Cisco VVB database port |
| VVB_ Engine | TCP, UDP 5060 | SIP gateway | — | Bidirectional | Communicates with SIP gateway |
| VVB_CVD | TCP 5900 | CVD of other node in cluster | — | Bidirectional | Heartbeats between CVDs in the cluster |
| VVB_CVD | TCP 6161 | Internal | 6161 | Bidirectional | Publishes JMS events across JMS network connectors in the cluster |
| CVD | TCP 6295 | CVD of other node in cluster | — | Bidirectional | Bootstrap HTTPD service port |
| VVB_CVD | TCP 6999 | Engine, Tomcat, CVD, and Editor | — | Bidirectional | RMI Port |
| VVB_Engine | TCP 9080 | — | — | Bidirectional | - Clients trying to access HTTP triggers, documents, prompts, or grammars<br><br>- Tomcat instance used by Cisco VVB engine |
| Cisco IP Voice Media Streaming application | UDP 24576 ~ 32767 | — | — | Bidirectional | - Audio media streaming.<br><br>- Kernel streaming device driver |
| Generic Ports | TCP, UDP 32768 ~ 61000 | — | — | Bidirectional | Generic ephemeral TCP and UDP ports |