

# Vertiv™ Avocent® DSView™ 4.5 Management Software

## TCP and UDP Port Usage Technical Note

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### Technical Note Section Outline

1. Overview
2. Port Usage Descriptions

### 1. Overview

The Vertiv™ Avocent® DSView™ 4.5 management software utilizes Transmission Control Protocol (TCP) and User Datagram Protocol (UDP) to create device connections over TCP/IP networks. For the data to successfully transmit across the connection, the appropriate device port must be open, depending on the specific service that is being performed. This technical note provides a list of the TCP and UDP ports used by the management software and clarifies the relevant usage information for each port.

### 2. Port Usage Descriptions

This section contains tables for specific appliances that list the various ports used by the Vertiv™ Avocent® DSView™ 4.5 management software, associated protocols and general descriptions.

**NOTE: Asterisks (\*) in the following tables indicate the port is configurable in the Vertiv™ Avocent® DSView™ 4.5 management software.**

Table 2.1 Ports Used by Vertiv™ Avocent® DSView™ 4.5 Management Servers

**NOTE: The ports must not be in use by any other services on the server.**

PORT	PROTOCOL	DESCRIPTION
161/udp	<b>snmp</b>	SNMP
162/udp	<b>snmp-trap</b>	SNMP trap events from appliances
443*/tcp	<b>https</b>	Vertiv™ Avocent® DSView™ 4.5 software web User Interface (UI) and Spoke communication
1078*/tcp	<b>avocent-proxy</b>	Proxy for serial, KVM and SP connections
9000-9050*/tcp	<b>avocent-HTML5-proxy range</b>	Proxy range for HTML5, serial, and KVM sessions (standard and VMWare Viewers)
3211/udp	<b>avsecuremgmt</b>	Auto discover of appliances
3871/tcp	<b>avocent-adsap</b>	Vertiv™ Avocent® DSView™ 4.5 management software device authentication
4122*/tcp	<b>dsview-ssh</b>	SSH passthrough and for tunneling dsview-syslog
4514*/tcp	<b>dsview-syslog</b>	Data logging and receiving events from appliances
10000-11000*/tcp	<b>paccess-proxy</b>	Vertiv™ Avocent® DSView™ 4.5 software proxy for service processor access

**Table 2.2 Ports for External Authentication Servers**

PORT	PROTOCOL	DESCRIPTION
389/tcp	<b>ldap</b>	LDAP/AD non-SSL
636/tcp	<b>ldaps</b>	LDAP/AD SSL
49/tcp	<b>tacacs</b>	TACACS+
1812/tcp	<b>radius</b>	Radius
139/tcp	<b>netbios-ssn</b>	NT domain
88/tcp	<b>kerberos</b>	Kerberos/AD

**Table 2.3 Protocol Sender: Vertiv™ Avocent® DSView™ 4.5 Management Server**

The protocols for all ports listed in the following table are sent by the Vertiv™ Avocent® DSView™ 4.5 server.

PORT	PROTOCOL	RECEIVER
3502/tcp	<b>avinstalldisc</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® ACS800/8000 advanced console system</li> <li>• Vertiv™ Avocent® ACS6000 advanced console server</li> </ul>
3871/tcp	<b>avocent-adsap</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® ACS800/8000 console system</li> <li>• Vertiv™ Avocent® ACS6000 console server</li> <li>• Vertiv™ Avocent® MergePoint Unity™ KVM over IP and serial console switch</li> <li>• Rack Power Distribution Unit (rPDU)</li> </ul>
3211/udp	<b>avsecuremgmt</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® ACS800/8000 console system</li> <li>• Vertiv™ Avocent® ACS6000 console server</li> <li>• Vertiv™ Avocent® Universal Management Gateway appliance</li> <li>• Vertiv™ Avocent® MergePoint Unity™ switch</li> <li>• rPDU</li> </ul>
22/tcp	<b>ssh</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® ACS800/8000 console system</li> <li>• Vertiv™ Avocent® ACS6000 console server</li> <li>• Vertiv™ Avocent® Universal Management Gateway appliance</li> </ul>
4122*/tcp	<b>dsview-ssh</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® DSView™ 4.5 server</li> </ul>
443*/tcp	<b>https</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® DSView™ 4.5 server</li> <li>• rPDU</li> </ul>
1078*/tcp	<b>avocent-proxy</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® DSView™ 4.5 server</li> </ul>
2068/tcp	<b>dsr-kbd+mouse</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® MergePoint Unity™ switch</li> </ul>
8192/tcp	<b>dsr-video</b>	<ul style="list-style-type: none"> <li>• Vertiv™ Avocent® MergePoint Unity™ switch</li> </ul>
80*/tcp	<b>http</b>	<ul style="list-style-type: none"> <li>• rPDU</li> </ul>

**Table 2.4 Protocol Receiver: Vertiv™ Avocent® DSView™ 4.5 Management Server**

The protocols for all ports listed in the following table are sent by the devices in the Sender column to the Vertiv™ Avocent® DSView™ 4.5 server.

PORT	PROTOCOL	SENDER
3871/tcp	<b>avocent-adsap</b>	<ul style="list-style-type: none"> <li>Vertiv™ Avocent® MergePoint Unity™ switch</li> </ul>
3871/tcp	<b>avocent-adsap</b>	<ul style="list-style-type: none"> <li>Vertiv™ Avocent® ACS800/8000 console system</li> <li>Vertiv™ Avocent® ACS6000 console server</li> </ul>
162/udp	<b>snmp-trap</b>	<ul style="list-style-type: none"> <li>Vertiv™ Avocent® ACS800/8000 console system</li> <li>Vertiv™ Avocent® Universal Management Gateway appliance</li> </ul>
4122*/tcp	<b>dsview-ssh</b>	<ul style="list-style-type: none"> <li>Vertiv™ Avocent® ACS800/8000 console system</li> <li>Vertiv™ Avocent® Universal Management Gateway appliance</li> </ul>
162/udp	<b>snmp-trap</b>	<ul style="list-style-type: none"> <li>Vertiv™ Avocent® MergePoint Unity™ switch</li> </ul>
3871/tcp	<b>avocent-adsap</b>	<ul style="list-style-type: none"> <li>rPDU</li> </ul>

**Table 2.5 Protocol Sender: Vertiv™ Avocent® DSView™ 4.5 Management Client**

The protocols for all ports listed in the following table are sent by the Vertiv™ Avocent® DSView™ 4.5 client.

PORT	PROTOCOL	RECEIVER
80*/tcp	<b>http</b>	Generic appliance
443*/tcp	<b>https</b>	Generic appliance
22*/tcp	<b>ssh</b>	Target device
22/tcp	<b>ssh</b>	rPDU
23/tcp	<b>telnet</b>	Target device
23*/tcp	<b>telnet</b>	Generic appliance
3389*/tcp	<b>ms-wbt-server</b>	Target device
5900*/tcp	<b>vnc-server</b>	Target device
901/tcp	<b>vmware-viewer</b>	VMware ESXi host
902/tcp	<b>vmware-viewer</b>	VMware ESXi host
903/tcp	<b>vmware-viewer</b>	VMware ESXi host
3389*/tcp	<b>ms-wbt-server</b>	Target device
5900/tcp	<b>vnc-server</b>	Target device
5901/tcp	<b>vnc-server</b>	Target device