

Vertiv™ Avocent® ACS8xxx Advanced Console System

Release Notes

VERSION 2.20.1, APRIL 4, 2022

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1. Update Instructions

These release notes refer to both the Vertiv™ Avocent® ACS800 and ACS8000 advanced console systems. Please refer to your installer/user guide for detailed instructions on updating either version of your system.

IMPORTANT NOTE: This version must be upgraded from version 2.4.2 or later. Appliances with version 2.0.3 or earlier must upgrade to version 2.12.4 before upgrading 2.20.1.

2. Appliance Firmware Version Information

APPLIANCE/PRODUCT	VERSION	FILENAME
Vertiv™ Avocent® ACS800 advanced console system	2.20.1	firmware-acs8-2.20.1.fl
Vertiv™ Avocent® ACS8000 advanced console system	2.20.1	firmware-acs8-2.20.1.fl

3. Local Client Requirements

SOFTWARE	VERSION
Edge	99
Firefox	98
Chrome	99
Safari	14

To access the console port with factory default settings, you need terminal emulation software running 9600 bits per second, 8 bits, 1 stop bit, no parity and no flow control.

4. Features and Enhancements

- Added web UI support for discovery of Vertiv™ Avocent® ACS800 and/or ACS8000 advanced console systems within the Vertiv™ Avocent® ADX MP1000 Management Platform. This capability allows users to perform the following operations within a Vertiv™ Avocent® ACS800 and/or ACS8000 advanced console system:
 - Launch serial or SSH sessions to targets connected to serial consoles within the advanced console system.
 - Manage serial console configuration settings.
 - Upgrade serial console firmware.
- Added the ability to use port 443 (in addition to port 48048) to access the RestAPI.
- Updated the HTML5 serial viewer to v2.2.1.
- Added SNMP traps indicating when the analog modem is enabled or disabled, which provides an extra level of security for keeping the analog modem disabled [CAS-48009-F1G1Y9].
- Added support for allowing identical names to be used for SNMPv1/v2 and SNMPv3.
- Added serial support for daisy-chained Vertiv™ Geist™ Power Distribution Units (PDUs). This includes support for upgrading a chain of these PDUs using HTTPs over the network.
- Added the “Export File” system tool which can export various log files or a user-specified filename to the user’s client computer.
- Added support for bonding on Eth0/1 and Cellular failover at the same time.
- Added an IP change notification for Vertiv™ Avocent® ADX Ecosystem support.
- Added support for TACACS+ authentication to send the client IP address to the remote TACACS server as part of the TACACS packet body.
- Added monitoring of PDU polling health and enhancements to PDU debug reporting.

5. Issues Resolved

Descriptions for the issues resolved with this release are listed below:

- Verified all data sent by the Vertiv™ Avocent® ACS advanced console system websocket server and resolved an issue where the server sent non-UTF-8 encoded text to the HTML5 serial viewer.
- Updated glibc to fix CVE-2022-23218 and CVE-2022-23219.
- Fixed an issue which prevented the RestAPI from modifying protected groups under /groups/user [CAS-48568-Y6J7Y3].
- Fixed an issue which prevented the Vertiv™ Avocent® DSView™ management software event logging from identifying Vertiv™ Avocent® ACS advanced console system events [CAS-30085-L7H4M3].
- Modified the monitoring page to show a valid value when the modem is down.
- Fixed an issue in order to now show the serial port status on the Access, Ports/Serial Ports, and Monitoring/Serial Ports pages.
- Stopped sending PPPD output to the console when the modem is enabled at bootup.
- Fixed an issue to now allow special characters when renaming Vertiv™ Geist™ PDUs.

6. Known Issues

- In the default Security Profile, TLS 1.1 is enabled; users may disable it on the Security Profile page. In a future release, TLS 1.1 will be removed from the default Security Profile.
- Do not use /mnt/hdCnf for storing files; filling this location may cause issues with the appliance. Files should be stored in the /mnt/hdUser partition instead.
- When using IE11 or Firefox, if users leave a page without saving changes, they are presented with a dialog box allowing them to check a box to prevent future dialog boxes. If users check that box, they will no longer receive informative dialog boxes.
- Users must toggle IPsec on/off for changes made to the established IPsec tunnel to take effect.
- The NTP client will not accept an update from an NTP server using its local clock as the clock source if reported timing parameters are outside the allowed range.
- The Vertiv™ Avocent® ACS console system uses reverse path filtering configured in STRICT mode, which means the console system will drop packets when the receiving packet source address is not routable through that interface.
- If sensors are used in conjunction with a PDU, it is recommended to connect the sensors to the PDU before the PDU is discovered by the Vertiv™ Avocent® ACS console system.
- When restoring a configuration that was saved as a CLI script, the restoration may take longer if PDUs are a part of the configuration.
- The Ethernet interfaces are set to Auto-Negotiation. This supports copper for 10 Mbps, 100 Mbps or 1000 Mbps based on the speed of the connection to the other end. This supports 1000 Mbps for a fiber connection.
- EAP authentication only works with Windows XP.
- If a user is removed from all groups, that user will automatically inherit the access rights of the built-in USER group. For strict security, make sure the built-in "user" group has no permissions set. Then, create custom groups for any user-group permissions needed. This ensures that when a user is removed from all groups, the user does not get any added permissions from belonging to the default "user" group.
- HTTPS sometimes has issues with Firefox where a certificate will not load, or loading takes a long time. This can be corrected in the Firefox Help menu by selecting *Troubleshooting Information*, then *Refresh Firefox* (top-right of the page). This should clean up the Firefox certificates.

7. External Network Port Usage

PORT RANGE	DESCRIPTION	SERVICE
0	ICMP	Open to allow network connectivity verification over icmp.
20	FTP	Open to allow appliance firmware upgrade (data).
21	FTP	Open to allow appliance firmware upgrade (command).
22	SSH	Open to allow SSH sessions to appliance.
23	TELNET	Open to allow Telnet sessions to appliance.
25	SMTTP	Open to allow email notifications.
49	TACACS+	Open to allow connection with Remote TACACS+ Server.
80	HTTP	Open to allow web UI operation.
123	NTP	Open to allow appliance time to be set.
161	SNMP	Open to allow connectivity to SNMP based targets and clients.

PORT RANGE	DESCRIPTION	SERVICE
162	SNMP	Open to send and receive SNMP traps.
389	LDAP	Open to allow connectivity to LDAP Remote Server.
443	HTTPS	Open to allow web UI operation and HTML5 serial sessions.
500	VPN / IPSEC	Open to allow ISAKMP to negotiate the IKE phase 1.
514	Syslog	Open to allow Syslog server functionality.
636	LDAPS	Open to allow connectivity to LDAPS Remote Server.
1812	RADIUS	Open to allow connectivity to Radius Remote Server.
3211 (UDP)	AIDP	Open to allow the Vertiv™ Avocent® DSView™ software to discover the appliance.
3211 (TCP)	ASMP	Open to allow the Vertiv™ Avocent® DSView™ software to read/write appliance parameters.
3502	HTTPS	Open to allow Vertiv™ Avocent® DSView™ software connectivity.
3871	ADSAP2	Open to allow Vertiv™ Avocent® DSView™ software-launched sessions and appliance authentication using the Vertiv™ Avocent® DSView™ software.
4122	SSH	Open to allow SSH connectivity between the Vertiv™ Avocent® DSView™ software and the appliance.
4500	VPN/ IPsec	Open to allow NAT Traversal.
4514	Syslog	Open to allow Vertiv™ Avocent® DSView™ software Syslog functionality.
6701	SMS	Open to allow SMS event notification.
7001-7049	TELNET	Open to allow Telnet access to serial port connections.
8080	REST API (HTTP)	Open to allow the REST API to access the appliance.
48048	REST API (HTTPS)	Open to allow the REST API to access the appliance.

8. Compatibility Matrix

VERTIV™ AVOCENT® ACS ADVANCED CONSOLE SYSTEM VERSION	VERTIV™ AVOCENT® DSVIEW™ MANAGEMENT SOFTWARE PLUG-IN VERSION	VERTIV™ AVOCENT® DSVIEW™ MANAGEMENT SOFTWARE VERSION
2.20.1	2.20.0.1	4.5 SP12, 4.5 SP13 and 4.5 SP14.1

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