Vertiv™ Avocent® ACS8xxx Advanced Console System

Release Notes

VERSION 2.30.0, MARCH 31, 2025

Release Notes Section Outline

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 2.14.4 or later. Appliances with version 2.0.3 or earlier must upgrade to version 2.12.4, then to 2.14.4, then to version 2.30.0. Appliances with versions from 2.4.2 to 2.12.4 must first upgrade to version 2.14.4, then to 2.30.0.**

2. Appliance Firmware Version Information

APPLIANCE/PRODUCT	VERSION	FILENAME
Vertiv™ Avocent® ACS800 advanced console system	2.30.0	firmware-acs8-2.30.0.fl
Vertiv™ Avocent® ACS8000 advanced console system	2.30.0	firmware-acs8-2.30.0.fl

3. Local Client Requirements

SOFTWARE	VERSION
Edge	133
Firefox	135
Chrome	133
Safari	15.6.1

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

Descriptions for the features and enhancements included with this release are listed below:

- Upgraded the following software programs:
    - OpenSSL v3.0.15
    - Apache v2.4.62
    - cURL v8.7.1
    - Sudo v1.9.13p3
    - Linux Kernel v5.4.284
- Added support for the certificate management feature to the RestAPI.
- Added support for GRE tunnels with failover.
- Added support for downloading firmware updates via HTTPS to the RestAPI.
- Added support for configuring the cipher level and custom cipherlist parameters in FIPS mode.
- Added support for customizing the supported HTTPS TLS1.3 cipher list (CA-0000910288).

5. Issues Resolved

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

- Fixed an issue with sudo no longer working for admin users (CA-0000981064, CA-0000988997).
- Fixed an issue with events failing to be generated if the email destination failed (CA-0000960571).
- Fixed an issue with SNMP incorrectly reporting the value for PL Block RAM Supply (CA-0000951309).
- Fixed issues with setting the RestAPI /events/syslog server and port parameters.
- Fixed issues with setting the RestAPI Radius serviceTypeGroups login parameter.
- Removed a recently introduced artificial limit on the number of concurrent port-aliased SSH/telnet connections.
- Fixed an issue with the RestAPI not handling CIDR format in the /network/snmp URL (CA-0000973943).
- Fixed issues with setting the RestAPI custom time zone parameters.
- Fixed an issue with the HTML5 serial viewer not launching when the advanced console system's browser URL contains a literal IPv6 address enclosed in square brackets (CA-0000963660).
- Fixed issues with the RestAPI setting certain appliance rights and group settings (CA-0000954176).
- Fixed issues in the import_acs5000 script that is used for importing configurations of the Vertiv™ Avocent® ACS5000 serial consoles.
- Fixed an issue with restoring XML files with bonding and bootp both enabled (CA-0000884300).
- Fixed an issue with restoring serial access rights for named ports.
- Fixed an issue with restoring CLI configurations with dhcp_server settings when bonding is enabled.
- Fixed an issue with some LTE interfaces not correctly setting their gateway (CA-0000928384).
- Fixed an issue with ping not working for admin users.
- Fixed issues with restoring DNS entries after failover (CA-0000905603).
- Fixed issues with restoring USB console ports from a CLI configuration file.

- Fixed an issue with hostname discovery and speed detection running during configuration restoration.

6. Known Issues

- SSH passthrough with the Vertiv™ Avocent® DSView™ 4.5 management software does not work in FIPS 140-2 mode.
- 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 Power Distribution Unit (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 by default. 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 loads slowly or does not load at all. To resolve this issue, select the Firefox application menu (the three horizontal lines) in the top right corner of the screen. Select *Help*, then *More troubleshooting information*. On the Troubleshooting Information screen, select *Refresh Firefox*. This should clean up the Firefox certificates.
- The older, Java-based JNLP Viewer is no longer supported when FIPS 140-2 mode is enabled. Only the HTML5 Viewer is supported in this mode.

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	SMTP	Open to allow email notifications.
49	TACACS+	Open to allow connection with Remote TACACS+ Server.
67 (UDP)	DHCP Server	Open for DHCP Server.
68 (UDP)	DHCP Client	Open for DHCP Client.
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.
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.
546 (UDP)	DHCPv6	Open to allow DHCPv6 client to request IP address.
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.

PORT RANGE	DESCRIPTION	SERVICE
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
2.30.0	2.30.0.1	4.5 SP12, 4.5 SP13, 4.5 SP14.1, 4.5 SP15, 4.5 SP16, 4.5 SP17, and 4.5 SP18.