Vertiv™ ACS8xxx Advanced Console System

Release Notes

VERSION 2.14.4 UPDATE, MAY 3, 2020

Release Notes Section Outline

1. Update Instructions

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

UPDATE! 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 2.14.4.

2. Appliance Firmware Version Information

APPLIANCE/PRODUCT	VERSION	FILENAME
Avocent® ACS800 advanced console system	2.14.4	firmware-acs8-2.14.4.fl
Avocent® ACS8000 advanced console system	2.14.4	firmware-acs8-2.12.4.fl

3. Local Client Requirements

SOFTWARE	VERSION
Edge	88
Firefox	85
Chrome	88
Safari	12

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. Issues Resolved

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

- Extended support for TCP Keep Alive in raw mode protocol to match Telnet protocol. SSH has its own Keep Alive method.
  NOTE: TCP Keep Alive uses the Linux defaults for tcp_keepalive_time, tcp_keepalive_intvl and tcp_keepalive_probes.
- Implemented Multi-Factor Authentication (MFA) for the web user interface (UI), CLI, SSH and Rest API access. If MFA is enabled, the user must enter the username, password and MFA Token to log in to the Avocent® ACS advanced console system. Authentication servers are supported if the server requests (challenges) the MFA Token.
- Corrected problem with SNMP EngineBoots and EngineTime values not incrementing.
- Added the ability to recognize HP Aruba USB consoles. Devices can now be accessed as standard CAS ports within the Avocent® ACS advanced console system.
- Renamed the “Auxiliary Ports” page in the web UI to “Internal Modem” to better reflect that the port is an internal analog modem.
- Removed Set Dial-In and Set Dial-Out buttons from the Internal Modem web UI page for units with built-in cellular modems.
- Updated the version of Python available in the Avocent® ACS advanced console system Linux OS to Python 3.5.3.
- Added 4096-bit certificate support for communications between the browser and the Avocent® ACS advanced console system web UI (https) server.
- Improved support for salt-ssh running from a salt-master (updated to Python 3.5.3). Salt can use the same CLI templates used for Ansible.
- Changed the focus on the web UI “change password” dialog box to now point to the “New Password” input field. This allows the user to start typing the new password without the need to click on the input field.
- Removed weak dh-group14-sha1 kex algorithm from OpenSSH.
- Added support for Python script bootfiles to Zero-Touch Provisioning.
- Implemented the following cellular improvements:
  - Improved the cellular/cellular modem web UI.
  - Added new cell modem events (120-124) for cell modem registration and connection status.
  - Fixed cell failover bootup issue that made CCID/IMSI numbers unreadable.
  - Removed unneeded configuration alert upon cell failover.
  - Fixed UI configuration where cell APN cannot be changed while in session.
  - Fixed APN setting issue on Verizon/NA2 modem.
  - Added new error message if SIM is plugged in backwards.
  - Fixed cell modem issue with failover routing table not getting updated.
- Implemented the following IPsec improvements:
  - Added new IPsec events (25-27) for IPsec connection status.
  - Enabled strongSwan logging to a file.
- Implemented the following power (PDU/UPS) improvements:
  - Added support for the ServerTech PRO3X Power Distribution Units (PDUs).
  - Added support for displaying serial/model/part numbers and added a refresh button on the PDU page for Geist™, Vertiv™ and Liebert® PDUs, as well as for the ServerTechPRO2.
  - Added support for changing the password for default admin accounts on PDUs.
  - Read outlet names for Raritan serial PDU in old and new formats.
  - Added refresh button support for APC, Raritan and Eaton serial PDUs.
  - Fixed Net-Geist issue reading last circuit for Geist firmware 5.7.

- Fixed model type assignment for serial Geist™ IMD PDUs so that switched models are presented correctly in the Vertiv™ Avocent® DSView™ management software.
- Added support for Geist™ aggregated network PDUs.
- Fixed serial support for older Geist™ RCX models with no switched or monitored outlets.
- Fixed Net-PDU refresh so that it clears flags on the downstream PDUs.
- Added improved stability and additional validation for Geist™ serial PDUs.

- Patched OpenSSL 1.0.2u to correct CVE-2020-1971. [CAS-35988-Q2K5W1]
- Fixed a problem with list_configuration failing to complete. [CAS-34769-V0B6Q2]
- Corrected issue with the Avocent® ACS advanced console system dropping off the network (improvements in the Ethernet device driver). [CAS-14621-N6Q5K0]

5. Known Issues

- 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 are advised to update their passwords in order to benefit from security improvements contained within this release.
- SNMPv3 traps are sent in the clear (unencrypted) regardless of configuration settings.
- 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 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 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.

6. Compatibility Matrix

AVOCENT® ACS ADVANCED CONSOLE SYSTEM VERSION	AVOCENT® DSVIEW™ MANAGEMENT SOFTWARE PLUG-IN VERSION	AVOCENT® DSVIEW™ MANAGEMENT SOFTWARE VERSION
2.14.4	2.6.0.35	4.5 SP7, 4.5 SP8, 4.5 SP9, 4.5 SP10, 4.5 SP11, 4.5 SP12 and 4.5 SP13