

Vertiv™ Geist™ Upgradeable Rack Power Distribution Unit (PDU) and Rack Transfer Switch (RTS)

Firmware Release Notes

VERSION 6.2.1, JULY 25, 2024

Release Notes Section Outline

1. Overview
2. Features and Enhancements
3. Fixes
4. Known Limitations and Notes
5. Additional Notes

1. Overview

The Vertiv™ Geist™ Upgradeable Rack PDU and RTS version 6.2.1 firmware release is compatible with Vertiv™ Geist™ Upgradeable Rack PDUs and RTS units equipped with Vertiv™ Geist™ 3E, 3E-G, 3E-S, 03E, 03E-G and 03E-S models of Upgradeable Interchangeable Monitoring Devices (IMDs) which are currently running firmware versions 5.0 and later.

IMPORTANT NOTE: Immediately following system startup, this firmware may update the internal rack PDU and/or RTS components, which can take up to 30 minutes to complete, depending on the device model and prior firmware version. During this time, a *Component Update in Progress* message displays. Please ensure the rack PDU or RTS is not reset or powered off during this process. If the PDU or RTS is powered off during the process, the firmware update must be reinstalled to re-run the component update.

2. Features and Enhancements

This release includes the following features and enhancements.

- Security features and enhancements:
 - UL2900-1 cybersecurity certified.
 - Updated OpenSSL library version.
 - Added ability to fully disable HTTP access.
 - Added ability to configure the session inactivity timeout duration. The default is 10 minutes.
 - Added password aging option to force periodic user password changes.
 - Removed non-admin user access to system configuration, utility and Provisioner functions.
 - Removed non-admin user Command Line Interface (CLI) and Application Programming Interface (API) access to all api/conf branches, except for oneview, auth, http and network.
 - Added API session token invalidation upon inactivity timeout.
- Provisioner features and enhancements:
 - Added ability to assign unique IPv4 static addresses during mass configuration.
 - Added ability to scan IPv4 addresses to discover rack PDU devices on remote networks.

3. Fixes

This release addresses the following issues:

- Fixed an issue where an 'undefined [menu.blank]' page displayed after updating from 5.x firmware.
- Fixed an issue where accounts showed as locked after the lock period expired.
- Fixed an issue where rack PDUs with a disabled guest user were not discovered by Provisioner.
- Fixed an issue where the Service Set Identifiers (SSIDs) were not displaying when configuring a Wi-Fi connection.
- Fixed an issue where an authentication error occurred when downloading logs when the guest user was disabled.
- Fixed an issue which prevented remotely authenticated users from being logged out with the logout command.
- Fixed an issue with web browser caching which caused HTTP redirection to persist when HTTP was enabled.
- Fixed an issue related to an OpenSSH server vulnerability CVE-2024-6387 (RegreSSHion vulnerability).

4. Known Limitations and Notes

NOTE: An asterisk (*) indicates a known limitation or note first identified in a previous firmware version.

- Password expiry notes and limitations:
 - Changing the system date does not change the password aging expiry date.
 - Password aging expiry is not flagged when the rack PDU is accessed through the API.
 - Updating the rack PDU firmware may cause password aging expiry timers to reset to default values.
- Provisioner notes and limitations:
 - Discovery progress is indicated for IP address scan discovery only.
 - IP address scan discovery does not discover the rack PDU performing the discovery.
 - IP address scan discovery does not discover array devices; however, array managers are discovered.
 - * For Provisioner to operate correctly, HTTPS must be enabled, and the default port number must be used.
 - * Target devices must use firmware version 6.1.0 or later to perform initial admin user configurations.
- Vertiv Intelligence Director notes and limitations:
 - * Alarm-controlled switched rack PDU outlets that are part of an outlet group do not change state when the group outlet state is changed.
 - * When an array device HTTP protocol is enabled, the array manager web browser cache must be refreshed for the Devices page redirection link to work.
 - * When the array controller uses firmware version 6.1.0 or later, existing array devices that use IMD-02x controllers must be updated to version 3.4.0.
 - * To manage IMD-5M array devices, Vertiv Intelligence Director (aggregation) IMD-3x array controllers must be updated to firmware version 6.1.0 or later.
 - * Due to enhanced system security requirements, Vertiv Intelligence Director (Aggregation) no longer supports IMD models 02XV, 02XH, 02EH, and 02EV array devices when using an array controller with firmware version 6.1.0 or later. Attempting to onboard an IMD-02x rack PDU will result in an Unknown Device error. However, existing previously onboarded IMD-02x rack PDU array devices will continue to operate normally. To remove this limitation, upgrade these rack PDUs to an IMD-03x or IMD-5M IMD.
- Network notes and limitations:
 - * When DHCP is enabled but a DHCP server is not available, a 169.254.0.0/16 network IPv4 link local address is assigned to the port.
 - * DHCP address assignments and reservations may change when updating from firmware versions 5.10.4 or 5.10.8 to 6.1.0 or later. This is due to a correction to an erroneous DHCP client-id setting present in 5.10.4 and 5.10.8 firmware.
 - * Some IMD-3x network configuration changes, such as DNS, can take 20 or more seconds and may result in a *Network Connectivity Has Been Disrupted* error message followed by the display of a partially populated web page. However, the requested configuration change then completes normally, and the user must re-authenticate after refreshing the web page.
- Miscellaneous notes and limitations:
 - * Selecting *Reboot I/O Boards* logs the user out of the web interface after performing the action.
 - * Power readings may not be available for up to 30 seconds after device power on.

- * The RTAFHD3 sensor temperature, airflow, humidity, and dewpoint sensor will display an airflow value of ‘-’ while calibrating for the first 30 seconds following sensor connection or device power on.

5. Additional Notes

- It is not possible to upload and install an older version of firmware once version 6.2.1 firmware is installed.