

Vertiv™ Liebert® IntelliSlot™ RDU120 Communications Card

Firmware Release Notes

VERSION 1.7.1_00001, SEPTEMBER 9, 2026

Release Notes Section Outline

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1. Version and Compatibility Information

This release contains firmware version RDU120-release-1.7.1_00001 and is compatible with the following products.

COMMUNICATIONS CARDS	POWER/THERMAL MANAGEMENT EQUIPMENT
• Vertiv™ Liebert® IntelliSlot™ RDU120 Communications Card	• Vertiv™ Liebert® GXT5 UPS • Vertiv™ Trinergy™ UPS • Vertiv™ PowerUPS 9000 • Vertiv™ Liebert® PSI5 UPS • Vertiv™ Edge UPS • Vertiv™ Liebert® APS UPS • Vertiv™ Liebert® GXE 1-3kVA, 6-10kVA UPS • Vertiv™ Liebert® GXE 3 UPS • Vertiv™ Liebert® APM2 UPS • Vertiv™ Liebert® PSI5 Lithium-Ion Short Depth UPS • Vertiv™ Liebert® Lithium-Ion Short Depth UPS • Vertiv™ PowerSwitch 7000 • Vertiv™ Liebert® ITA2 UPS • Vertiv™ Liebert® EXS UPS • Vertiv™ Liebert® Industry S UPS • Vertiv™ Liebert® PowerUPS 6000 Industrial 6-40kVa UPS

- Vertiv™ Liebert® EPM UPS
- Vertiv™ Liebert® EXL-P1 UPS
- Vertiv™ Liebert® EXL-S1 UPS
- Vertiv™ Liebert® EXM2 UPS
- Vertiv™ Liebert® CoolPhase Wall with the Vertiv™ Liebert® iCOM™ Edge Thermal Management System
- Vertiv™ Liebert® RXA Power Distribution System
- Vertiv™ Liebert® RXV Power Distribution System
- Vertiv™ Liebert® TFX Power Distribution System
- Vertiv™ Liebert® PPC Large Power Distribution System
- Vertiv™ Liebert® DME2 with the Vertiv™ Liebert® iCOM™ Edge Thermal Management System
- Vertiv™ Liebert® CRV with the Vertiv™ Liebert® iCOM™ Edge Thermal Management System
- Vertiv™ Liebert® CRD 25-35 with the Vertiv™ Liebert® iCOM™ Edge Thermal Management System
- Vertiv™ Liebert® CRC 300-600 with the Vertiv™ Liebert® iCOM™ Edge Thermal Management System
- Vertiv™ Liebert® CRV 4-12kW with the Vertiv™ Liebert® iCOM™ Edge Thermal Management System
- Vertiv™ Liebert® CAHU with the Vertiv™ Liebert® iCOM™ Edge Thermal Management System

This release is compatible with the following environmental sensors.

ENVIRONMENTAL SENSORS

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|---|---|
| <ul style="list-style-type: none"> • Vertiv™ GTHD; Temperature, Humidity, and Dew Point Sensors • Vertiv™ GT3HD; 3 Temperature, 1 Humidity, and 1 Dew Point Sensors • Vertiv™ SRT; Temperature Sensor • Vertiv™ Geist™ RTAFHD3; Temperature, Airflow, Humidity, and Dew Point Sensors • Dry contact using the Vertiv™ Geist™ Analog-to-Digital (A2D) Converter direct input • Vertiv™ Geist™ Flood Sensor (FS) using the Vertiv™ Geist™ A2D Converter • Vertiv™ Geist™ Remote Door Position Sensor (RDPS) using the Vertiv™ Geist™ A2D Converter • Vertiv™ Geist™ Power Failure Sensor (PFS) using the Vertiv™ Geist™ A2D Converter | <ul style="list-style-type: none"> • *Vertiv™ Liebert® SN-T; Modular Temperature Sensor • *Vertiv™ Liebert® SN-TH; Modular Temperature and Humidity Sensor • *Vertiv™ Liebert® SN-2D; Modular Door Sensor • *Vertiv™ Liebert® SN-3C; Modular Contact Closure Sensor • *Vertiv™ Liebert® SN-Z01; 1 Temperature Sensor • *Vertiv™ Liebert® SN-Z02; 3 Temperature Sensors • *Vertiv™ Liebert® SN-Z03; 3 Temperature Sensors, 1 Humidity Sensor • *Vertiv™ Liebert® SN-L; Modular Leak Detection Sensor |
|---|---|

ENVIRONMENTAL SENSORS

- Vertiv™ Geist™ Smoke Detector (SD2) using the Vertiv™ Geist™ A2D Convertor

NOTE: An asterisk (*) indicates that the 6-pin (P/N 18381) to Vertiv 8-pin adapter is required to use the specified sensor.

2. Client Browser Support Information

BROWSER	SUPPORTED VERSION	OPERATING SYSTEM
Microsoft Edge	150. 0.4129.86 (official build)	64-bit
Mozilla Firefox	154.0	64-bit
Google Chrome	150.0.7922.140 (official build)	64-bit

NOTE: To support UL2900-1 and IEC 62443-4-2 cybersecurity certifications, the default web server mode is HTTPS only (no HTTP redirect).

3. Vertiv™ Liebert® IntelliSlot™ RDU120 Card and Sensors Feature Support Information

SUPPORTED FEATURES	COMMUNICATIONS CARD	SENSORS
Vertiv™ LIFE™ Services Support	Supported	Not Supported
COMMUNICATION PROTOCOLS		
HTTP/HTTPS	Supported	Supported
Velocity Protocol	Supported	Supported
Email	Supported	Supported
THIRD-PARTY PROTOCOLS		
SNMP v1, v2c, v3	Supported	Supported
BACnet IP/MSTP	Supported	Not Supported
Modbus TCP/RTU	Supported	Not Supported

4. Features and Enhancements

The following features, enhancements, and corrections are available with this release of the Vertiv™ Liebert® IntelliSlot™ RDU120 Communications Card:

- Added device support for the Vertiv™ Liebert® DME2 with the Vertiv™ Liebert® iCOM™ Edge
- Added device support for the Vertiv™ Liebert® CRV with the Vertiv™ Liebert® iCOM™ Edge
- Added device support for the Vertiv™ Liebert® CRD 25-35 with the Vertiv™ Liebert® iCOM™ Edge
- Added device support for the Vertiv™ Liebert® CRC 300-600 with the Vertiv™ Liebert® iCOM™ Edge
- Added device support for the Vertiv™ Liebert® CRV 4-12kW with the Vertiv™ Liebert® iCOM™ Edge
- Added device support for the Vertiv™ Liebert® CAHU with the Vertiv™ Liebert® iCOM™ Edge
- Added TACACS+ lcp authorization protocol option for backward compatibility with legacy cards
- Added support for POSIX, UNIX, and LDAP standard character sets in local usernames
- Corrected webserver unauthorized error when the page refreshes with an expired token

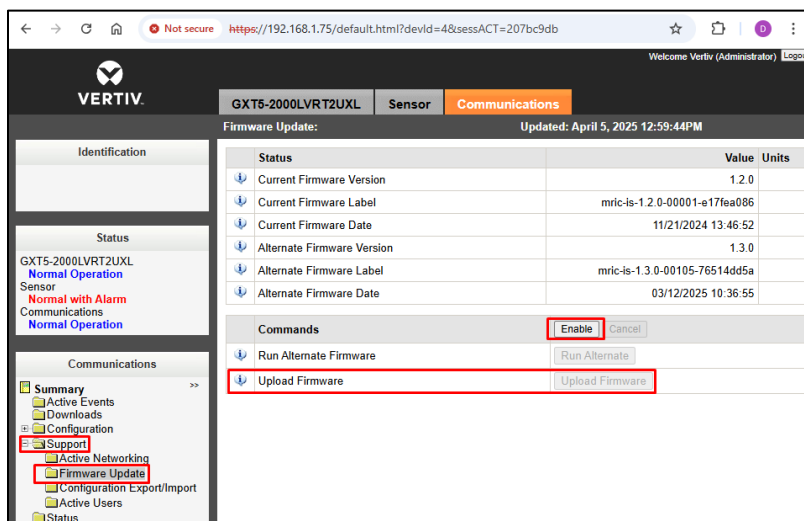
- Corrected Reset to Factory Defaults not presenting the initial admin account setup dialogue

5. Update Instructions

The Vertiv™ Liebert® IntelliSlot RDU120 Communications Card may be updated to this firmware version using the web-based Firmware Upload feature. Please refer to the Firmware Update Folder section of the [Liebert® IntelliSlot RDU120 Communications Card User Guide \(AV-50006\)](#). The firmware update may take up to 10 minutes, depending on network conditions. During this time, you may experience a loss of communications. However, the operation of the monitored equipment will not be affected.

To update your card:

1. Connect to the card:
 - a. After installing the card, allow time for the card to boot.
 - b. Connect an Ethernet cable from the card to a PC or laptop. A link-local connection can be established; this is a direct PC-to-card Ethernet connection. The PC acquires a local address, and the card is accessed at 169.254.24.7. Please consult the Quick Start Guide and User Guide for further details.
2. Open a web browser (such as Chrome) and enter **169.254.24.7** in the address bar. The card's webpage opens.
3. Navigate to the Firmware Update page.
 - a. From the left-hand sidebar, select the *Communications* tab.
 - b. Select *Support- Firmware Update*.
4. Upload the new firmware:
 - a. From the Commands section on the Firmware Update page, select *Enable*.
 - b. Select the *Upload Firmware* button to update the firmware.



5. When the Web (HTTP) Firmware Update page opens, select Choose File to select the firmware file via Windows File Explorer.

Web (HTTP) Firmware Update

1. Choose a valid firmware update file to upload.
2. Click the **Update Firmware** button to initiate the firmware upload import them into the system.
3. You will be notified when the firmware file has been uploaded

Note: The maximum length of a file specification is 250 characters including spaces and punctuation.

File: mric-is-relea...01.firmware

Upload Status: Uploading Firmware Update file.

6. Click *FirmwareUpdate*.
7. After the firmware updates, you are prompted to log in.

6. Resolved Issues

RELEASE	COMPONENT	DESCRIPTION
v.1.3.0	Firmware Update	Corrected DNS configuration after upgrading from firmware version v1.1.1.
v.1.4.0	Firmware Update	Resolved firmware update issues discovered in the v1.2.0 and v1.3.0 releases.
v.1.4.1	N/A	No issues were addressed with this release; only feature enhancements were implemented.
The following issues were addressed:		
v.1.5.0	Firmware Update	• HTTP and HTTPS redirect settings are not saved after admin account setup. • Reset to Factory Defaults does not fully reset the card and displays the initial admin account setup dialogue. • Send test emails not functioning properly.

This table has been deprecated. All updates are now included in Table 8.

7. Known Issues

RELEASE	COMPONENT	DESCRIPTION
v.1.2.0	Firmware Update	A 502 Bad Gateway error may appear during a firmware update. The firmware should be successful. A retry may be required.
v.1.3.0	Firmware Update	A new browser session may be required to navigate back to the web interface following a firmware update.
v.1.4.0	N/A	No issues were addressed with this release; only feature enhancements were implemented.
v.1.4.1	N/A	No issues were addressed with this release; only feature enhancements were implemented.
v.1.5.0	Firmware Update	Missing firmware update progress bar.

8. Previous Release Updates and Enhancements

RELEASE	DESCRIPTION
v1.0.0	Added support for the Vertiv™ Liebert® GXT5 UPS
v1.1.0	- Added support for the Vertiv™ Liebert® PSI5 UPS - Added Secure Boot - Implemented the 802.1x protocol - Obtained UL2900-1 certification - Implemented status LED operations per the following list: - Green On: Full network connectivity, DHCP. - Green Off: No network connectivity. - Green Blinking: Link local address only. - Red On: Web pages for the monitored device are unavailable (Vertiv™ Liebert® GXT5, for example). - Red Off: Web pages for the monitored device are available. - Red Blink Fast: Web pages for the monitored device are initializing. Blink rate is 0.25 sec. - Red Blink Slow: The device is not available. Blink rate is 1.50 sec.
	- Added support for the factory API. - Updated the UL2900-1 certification.
v1.2.0	- Added support for the Vertiv™ PowerUPS 9000 - Added support for the Vertiv™ Edge UPS
	- Added support for the Vertiv™ Liebert® APS UPS - Added support for the Vertiv™ Liebert® GXE 1-3kVA, 6-10kVA UPS - Added a 1-millisecond timestamp for the Vertiv™ Trinergy™ UPS

RELEASE	DESCRIPTION
	Added support for TLS v1.3
v1.3.0	- IEC 62443-4-2 Cybersecurity certification - Added support for the Vertiv™ Liebert® APM2 UPS - Communication card API - Extensible Authentication Protocol-Transport Layer Security (EAP-TLS) - Event log preview - SNMP test trap
v1.4.0	- Added support for the Vertiv™ PowerSwitch 7000 - Added support for the Vertiv™ Liebert® PSI5 500VA Short Depth. Firmware - 05527.0036 (MCU), 05528.0030 (Comm) - Added support for the Vertiv™ Liebert® PSI5 800VA Short Depth. Firmware - 05527.0049 (MCU), 05528.0036 (Comm) - Implemented incremental update for the Vertiv™ Trinergy™ UPS - Updated the API to include Managed Equipment information
v1.4.1	- Added support for the Vertiv™ Liebert® PSI5 1100VA Short Depth (FDM v22) - Added Japanese language support
v1.5.0	- Added device support for the Vertiv™ Liebert® PSI5 Lithium-Ion 1500VA Short Depth UPS [FDM v22] (06848.0103, 06849.0101, 05529.0103) - Added device support for the Vertiv™ Liebert® Industry S UPS - Added device support for the Vertiv™ Liebert® ITA2 UPS - Added device support for the Vertiv™ Liebert® EXS UPS - Added device support for the Vertiv™ Liebert® SN-L - Added configurable password change intervals for users - Added firmware update progress bar
v1.6.0	- Added device support for the Vertiv™ Liebert® EMP UPS - Added device support for the Vertiv™ Liebert® EXL P1 UPS - Added device support for the Vertiv™ Liebert® EXL-S1 UPS - Added device support for the Vertiv™ Liebert® EXM2 UPS - Added device support for the Vertiv™ Liebert® CoolPhase Wall with the Vertiv™ Liebert® Edge Thermal Management System - Added device support for the Vertiv™ Geist™ Remote Door Position Sensor (RDPS) - Added parametric Data Logging for 1-Phase UPS Systems - Added Email Event Consolidation - Added Email SMTP Authentication Enable/Disable Control

RELEASE	DESCRIPTION
v1.7.0	- Added Device Communications Lost Event - Added incremental update for GXT5 Event Configuration and Control - Added incremental update for the Vertiv™ PowerSwitch 7000 - Changed all instances of “MRIC-IS” to “RDU120” in the webserver interface - Corrected SNMP, Modbus, and BACnet Trusted IP prefix default (/32) to support a single IP address - Corrected managed device System Date and Time change via Modbus - Corrected DNS configuration after upgrading from firmware version v1.1.1 - Corrected inconsistent SNMP Heartbeat Trap interval - Corrected addition of SNMPv3 users immediately after card restart - Corrected HTTPS Redirect when non-default ports are configured - Corrected SNMP Trap Source IP address
	Added YDN23 support for Vertiv™ Liebert® EXL-S1 UPS and Vertiv™ Liebert® PEX
	Added PLD package post-compile device support
	Added Vertiv™ Liebert® TFX/DPM/PM5 RXV Four Quadrant Metering
	Added device support for the Vertiv™ Liebert® EDGE-Short Depth 500VA, 230V model
	Added device support for the Vertiv™ Liebert® EDGE-Short Depth 800VA and 1100VA, 230V models
	Added device support for the Vertiv™ Liebert® EDGE-Short Depth 1500VA, 230V model
	Added device support for the Vertiv™ Trinerger™ Cube UPS (Magneto)
	Added sensor support for the Vertiv™ Geist™ Power Failure Sensor (PFS)
	Added sensor support for the Vertiv™ Geist™ Flood Sensor (FS)
	Added sensor support for the Vertiv™ Smoke Detector (SD2)
	Added Vertiv™ PowerUPS 9000 (1250k) Condition Based Maintenance data
	Added Vertiv™ PowerUPS 6000 Industrial 6-40kVA UPS support
	Added Vertiv™ Liebert® APM2 UPS Condition-Based Maintenance data
	Added Vertiv™ Trinerger™ UPS AI Load Management
	Added BACnet PRESENT VALUE for write-only objects
	Corrected sensor add and remove events repeating continuously; acknowledge had no effect
	Corrected ParametricData.log downloaded file showing timestamp in Epoch format instead of UTC date-time
	Corrected password expiry policy allowing reuse of the same password
	Corrected Never Lock Administrators feature not working when enabled
	Corrected SNMP Include SysName and SysLocation in Traps parameter requiring restart to take effect
	Corrected TACACS+ not connecting to remote server unless a local account was configured

RELEASE**DESCRIPTION**

- Corrected email targets added via API with invalid ID values not displaying in the UI
- Corrected card entering a reboot loop when HTTP and HTTPS were both disabled
- Corrected the inability to change webserver configuration to only HTTP or only HTTPS after enabling HTTPS redirect
- Corrected diagnostic file missing from downloadable logs.enc file
- Corrected SNMP v1/v2c trap community strings swapping between targets after restart