Enlogic

Advantage & Secure

Release Notes | Document Version – 1.7
Date : 16/04/2025

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SECTION 1 – GENERAL

1.1 Scope

The Release Notes for Advantage & Secure firmware version 3.2.5 are contained in this document.

1.2 Abbreviations and Acronyms

To help better comprehend this document, attached is a list of the key acronyms and abbreviations.

Acronym	Abbreviation
PDU	Power Distribution Unit
GUI	Graphical User Interface
SSH	Secure Shell Protocol
SNMP	Simple Network Management Protocol
SMTP	Simple Mail Transfer Protocol
LDAP	Lightweight Directory Access Protocol
CLI	Command Line Interface
FTPS	File Transfer Protocol Secure
MAC	Media Access Control
IP	Internet Protocol
SKU	Stock Keeping Unit
EMEA	Europe Middle East Asia Pacific
NA	North America

SECTION 2 – RELEASED FILES

2.1 Packaged File

Firmware	enlogic.fw
Checksum/ SHA256	146a46021219aa110f0a84967b62e836f99e8345f3f1cb0ca8fa0f2278ecfe4b

2.2 Software Version

FIRMWARE VERSION – 3.2.5

SECTION 3 – PRODUCT FAMILY

Product Type	Description
Input Metered PDU (MI)	PDU with metering capability at the input of the PDU.
Monitored Switched (MS)	PDU with metering capability at the input of the PDU plus the ability to control outlets on and off.
Outlet Metered PDUs (MO)	PDU with metering capability per outlet.
Monitored and Switched per Outlet PDUs (MSPO)	PDU with metering capability per outlet plus the ability to control outlets on and off.
Inline Energy Meter (IEM)	Inline meter that provides metering capability at the input of the attached IT equipment.

SECTION 4 – SKUS SUPPORTED

Type	SKU Numbers
Input Metered PDUs (MI)	EN1315, EN1325, EN1326, EN1327, EN1330, EN1334, EN1337, EN1339, EN1341, EN1343, EN1345, EN1346, EN1350, EN1351, EN1354, EN1355, EN1356, EN1357, EN1381, EN1450, EN1451, EN1805, EN1805S, EN1806, EN1811, EN1814, EN1815, EN1821, EN1822, EN1823, EN1826, EN1827, EN1829, EN1850, EN1851, EN1853, EN1854, EN1855, EN1856, EN1880, EN1902, EN1906, EN1907, EN1908, EN1915, EN1917, EN1919, EN1926, EN1927, EN1932, EN1939, EN1940, EN1942, EN1950, EN1951, EN1952, EN1953, EN1955, EN1956, EN1980, EN1982, EN1983
Monitored Switched PDUs (MS)	EN2315, EN2316E, EN2317, EN2319, EN2324, EN2325, EN2326, EN2329, EN2333, EN2337, EN2339, EN2350, EN2351, EN2354, EN2380, EN2402, EN2403, EN2404, EN2450, EN2804, EN2804S, EN2808, EN2810, EN2812, EN2823, EN2850, EN2851, EN2852, EN2880, EN2881, EN2902, EN2907, EN2950, EN2951, EN2952, EN2953, EN2980, EN2982
Outlet Metered PDUs (MO)	EN5325, EN5329, EN5337, EN5380, EN5402, EN5808, EN5810, EN5850, EN5886, EN5952, EN5956
Monitored and Switched per Outlet PDUs (MSPO)	EN6324, EN6325, EN6326, EN6329, EN6333, EN6337, EN6338, EN6341, EN6350, EN6351, EN6353, EN6380, EN6381, EN6385, EN6386, EN6387, EN6399, EN6402, EN6404, EN6450, EN6602, EN6804, EN6804S, EN6808, EN6810, EN6812, EN6827, EN6829, EN6833, EN6834, EN6835, EN6850, EN6851, EN6852, EN6880, EN6881, EN6883,EN6885, EN6902, EN6905, EN6908, EN6909, EN6910, EN6911, EN6950, EN6951, EN6952, EN6954, EN6956, EN6957, EN6958, EN6959, EN6961, EN6962, EN6980, EN6982
Inline Energy Meter PDUs (IEM)	EZ1430, EZ1530, EZ1550, EZ1560, EZ1616, EZ1632, EZ1663, EZ1716, EZ1732, EZ1763
UPDUs (Universal Power Distribution Units)	EN13UA_20A3WYE, EN13UA_16A3WYE, EN13UA_20A1L-L, EN13UA_16A1L-N
1U/2U Horizontal PDUs	EN1862, EN1960, EN1962, EN1963, EN1964, EN1965, EN1966, EN2355, EN2854, EN2954, EN6354, EN6383, EN6957, EN6963
100 Ampere PDUs	EN19HA, EN19HB, EN19HC, EN19HD, EN19HE, EN19HF EN19JA, EN2990, EN29HB, EN6990, EN69HB, EN69HD, EN69HE, EN69HF, EN69HG, EN69HH
Residual Current Monitoring PDUs (RCM)	EN1470, EN6871, EN6872

SECTION 5 – PRODUCT DESCRIPTION

FEATURES	Input Metered (MI)	Outlet Switched (MS)	Outlet Metered (MO)	Metered and Switched per Outlet (MSPO)
Design • Low profile, space saving design. • Ultra-low-profile circuit breakers on most models • Adjustable tool-less mounting system	YES	YES	YES	YES
PDU Power Monitoring • PDU level watt hour power metering (kWh) • PDU level power measurements (W) • Input phase level power measurements (V, A, VA, kWh, pf) • Circuit Breaker level current measurements • High accuracy, metering capabilities • Persistent Data Log to record/view/report historical data. • User customizable alarm thresholds & notifications	YES	YES	YES	YES
Outlet Level Switching • Remote ON/OFF Power control by individual outlet • User defined power-on time delay to sequence IT equipment • Automatic sequencing to avoid inrush current overload. • Controlled with assignable roles and user access		YES		YES
Outlet Level Power Monitoring • Outlet level watt-hour energy metering(kWh) • Outlet level power measurements (V, A, VA, W, pf)			YES	YES
Environmental Management • Optional Plug and Play environmental sensors including temperature, humidity, and water leak.	YES	YES	YES	YES
Physical Security Management • Rack access monitoring with door contact switch • Customizable alarm thresholds and notifications	YES	YES	YES	YES
Network Management And Local Display Interface • Active LED display for power measurements • OLED display with high contrast ratio, easy to navigate menu and visual graphic bars for phase load balancing. • Full featured network management and alerting capabilities supporting HTTP, HTTPS, SSH, SNMP, FTP and SMTP. • Strong encryption, passwords and advanced authorization options including local permissions, LDAP, and Active Directory. • Daisy Chain up to 64 Rack PDUs, each up to ten sensors.	YES	YES	YES	YES
Branch Circuit Load Monitoring	YES	YES	YES	YES
Circuit Breaker Status		YES	YES	YES

SECTION 6 – UPDATED FEATURES

6.1 3.2.5 Firmware Upgrade

1. The new firmware version 3.2.5 is available at the nVent website for download. It is mandatory for all users to download this file before initiating the firmware upgrade process.

2. For the existing customer the firmware upgrades should be performed in the following order for Advantage Series NMCs:
   - Verify if the existing firmware versions are 2.0.6.7/ 2.0.7.6 or below these versions.
   - Upgrade to the Firmware version is 2.0.6.7/ 2.0.7.6 , use the following process and upgrade to the latest firmware version 3.2.5 .
   - Upgrade Bridge firmware 3.0.0.2 using the update folder in the USB, or **enlogic.tar** using the WEBUI & FTPS.
   - From 3.0.0.2, [bridge firmware] flash new firmware 3.2.5 use **enlogic.fw** using USB, WEBUI & FTPS.
   - USB firmware upgrade option is recommended.
   - USB should be in FAT32 file system, no other files to be present during firmware upgrade.
   - It is recommended to upgrade the firmware always on standalone PDU.
   - If PDUs are daisy chained detach the daisy chain cable and then upgrade the firmware.

3. The firmware upgrades should be performed in the following order for Advantage Secure NMCs:
   - Firmware version 3.0.4.
   - From 3.0.4, to flash new firmware 3.2.5 use **enlogic.fw** using USB, WEBUI & FTPS.
   - USB firmware upgrade is recommended.
   - USB should be in FAT32 file system, no other files to be present during firmware upgrade.
   - It is recommended to upgrade the firmware always on standalone PDU.
   - If PDUs are daisy chained detach the daisy chain cable and then upgrade the firmware.

6.2 Firmware Assets from Firmware 3.1.3 Version Onwards

1. As opposed to previous firmware releases that used compressed or zipped files [.tar/.zip], firmware version from 3.1.3 and later will use the **enlogic.fw** format.

2. Improved ability for Advantage Series NMCs to work with Advantage Secure NMCs. This includes a change to the firmware upgrade file format which is now a '.fw' file rather than a '.tar' file.

3. Note that there will be two restarts during the upgrade procedure as opposed to the typical one when the bridge firmware is updated to the version 3.1.3 .

4. Previously stored configuration files cannot be used after updating to the new version 3.2.5 .

5. Due to underlying file system improvements made from firmware version 3.1.3, downgrades to a previous firmware version are not supported.

6. From firmware version 3.1.3 upgrade activity via USB, ensure that the USB does not contain the **update** folder.

7. If updating PDUs in a daisy chain configuration and one or more Node PDUs do not upgrade successfully, those Node PDUs will need to be individually updated. This can be done using the USB method.

8. PDUs cannot be Daisy chained from an NMC with an older firmware version to a newer firmware version 3.2.5.

9. From the 3.1.3 firmware version, hot swapping of NMCs is allowed only if both the PDUs are upgraded with the latest firmware version.

10. From firmware version 3.2.5, web pages now have a queuing system in place with the OpenSSL updates, so users will experience improved responsiveness of web pages.

11. From the firmware version 3.1.3 onwards, the MAC address appended to the DNS hostname was removed.

6.3 Firmware Enhancements

This section lists the firmware enhancements with version 3.2.5.

Power Share Functionality

With the 3.2.5 firmware release the Power share functionality is only enabled when establishing Daisy chain connections between PDUs. This function will be disabled when connecting to other external devices.

Users can also explicitly disable Power share from the WEBUI and command line interface.

Improvements

The optimization in the Power Share feature is designed to activate only when the corresponding component is identified as a PDU. It will occur exclusively between PDUs when it is been explicitly identified.

- When Power Share is disabled, there is no voltage flow. When Power Share is enabled and connected to a PDU in a daisy chain, the power share function is activated only if the PDU is daisy chained.
- Voltage will only be shared if the PDU is daisy chained. For devices other than PDUs, the voltage will not be shared even if the Power Share feature is enabled.

These changes aim to improve the reliability and functionality of the Power share feature while ensuring compliance with safety standards.

Note - The above changes apply to EN256 PDUs only.

SECTION 7 – KNOWN ISSUES

This section lists the known issues in the firmware version 3.2.5.

1. While uploading a Configuration File, choosing Syslog facilities – audit, alert, NTP, clock may cause the PDU to behave differently.

SECTION 8 – ADDITIONAL INFORMATION

This section lists some information about the firmware version 3.2.5.

1. In a daisy chain setup, bulk configuration could sometimes result in some latency.
2. Ensure that configuration files downloaded with firmware version 3.2.1 or earlier are not utilized on firmware version 3.2.5.
3. Once a task is completed, there is a delay in the event triggering time.
4. There could be latency in WEBUI performance when bulk set action is performed from Redfish.
5. In the event that any of the Node PDUs data becomes blank during a reboot scenario, it is recommended to perform an additional reboot on the specific PDU/NMC to restore it to its proper state.
6. If any PDUs contain more than 19 circuit breakers, the data will not appear on the seven-segment screen but will remain accessible through all other interfaces.
7. During role creation, if any outlets or outlet groups are assigned to the user, this information is not being stored in the configuration file.
8. During a firmware upgrade to version 3.2.5, the LED edge color may turn dark. To fix this, use the Systems Management page, CLI commands, or reset the PDU to default settings. This issue arises if the LED edge color was not changed at least once after installing and commissioning the new PDU.

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