

NetShelter™ Rack Power Distribution Units and In-Line Current Meters with NMC3



For APDU9***, and for AP8***, AP7***B, and AP71**B Devices with NMC3

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Affected Revision Levels

Component	Version	Details
Network Management Card 3 (NMC3) Operating System and NetShelter RPDU Application	AOS: 2.5.3.2 APP: 2.5.2.5	apc_hw21_rpdu2g_2-5-2-5.nmc3
Secure NMC System (SNS) Tool for RPDU	Not applicable	Not applicable
PowerNet® SNMP Management Information Base (MIB)	4.5.6	powernet456.mib

Note: The device's firmware can be upgraded from version 2.5.x.x to 3.x with a subscription to the SNS tool.

New Features

APC Operating System

None

APDU9***, AP8***, AP7***B, and AP71**B Applications

- The LCD displays the **Alarm Status** to show the details of all the alarms present in the device.

Fixed Issues

APC Operating System

- The wording on the web UI has been updated to enhance the clarity of the product purchase process.
- Security fixes:
 - a) Sensitive information will no longer be exposed in the URL.
 - b) **KENOBI PEN TEST**: Resolved broken access control issues.
 - c) **Pen Test Issue** - Resolved the issue caused by a crafted BACnet packet that resulted in a Denial of Service.
 - d) Removed support for CBC ciphers to mitigate security vulnerabilities.
 - e) Resolved issues related to verb tampering to enhance system integrity and security.
 - f) Addressed missing security header issues to improve overall application security and protect against security vulnerabilities.
- Support has been added for board ID 7 and 10.
- Added support for the NMC device AP9614 to enhance monitoring and management capabilities for Rack PDUs.
- Upgraded the bootloader version to v1.5.4.1 to enhance the device sustainability.
- Addressed the improper input validation issues.
- Fixed issues to mitigate probable HTML injection vulnerabilities
- Addressed the issues related to display changes.
- Increased the default number of allowed bad login attempts from 5 to 10.
- The invalid login web page has been updated.

APDU9*, AP8***, AP7***B, and AP71**B Applications**

- If the slave ID is unavailable, Modbus will display the error message **Slave Device Failure** for the register addresses.
- Modbus will display a value of -1 for the **Peak Temperature Capture Time** if the **T/TH sensor** is not connected to the device.
- Modbus can read values for the **Outlet Layout Description** even if the **T/TH sensor** is not connected the device.
- No **Invalid Value** error message appears for the **TH/T sensor** when the config.ini file is uploaded.
- If a sensor is not connected to the device, none of the interfaces will display any parameter values.
- Invalid threshold values for the **Temperature** and **Humidity** parameters are not permitted.
- If an invalid value is set for the **wait** parameter in the **cold start delay**, the **Immediate** and **Never** options in the device configuration will remain inactive.
- The Bank and Phase current thresholds now support decimals values to the tenths place. This feature is available in the web UI, CLI, SNMP, and the config.ini file. New OIDs have been added to accommodate this change in the SNMP interfaces.
- The Range value (1-99) for **Network-LED blink** duration is specified on the NMC web page.

Known Issues

None.

Miscellaneous

Additional Software and Documentation

You can download additional software and documentation from the Schneider Electric download center, www.se.com/ww/en/download.

- 1 Go to www.se.com/ww/en/download.
- 2 Click **Select Location**, then select your location from the provided list. You cannot download software or documentation until you specify your location.
- 3 Use the Search bar and the filter fields to find the needed file.

To find a document, enter the name or part number for your equipment in the Search bar. Then select **Installation & User Guides** under **Document Category**.

To find a firmware file, enter the name or part number for the firmware in the Search bar. Then select **Software & Firmware** under **Document Category**.

Software

The PowerNet MIB allows your SNMP manager to process messages from your RPDU or In-Line Current Meter.

Documentation

- The *MIB Reference Guide* explains the structure of the MIB, types of OIDs, and the procedure to define SNMP trap receivers. You can download the *PowerNet MIB Reference Guide* from www.se.com.
- For information on specific OIDs, use an MIB browser to view their definitions and available values directly from the MIB itself. You can view the definitions of traps at the end of the MIB itself (the file `powernet456.mib`).
- The User Guide for your RPDU or In-Line Current Meter provides comprehensive user instructions, including instructions to recover from a lost password.

Event Support List

To obtain the event names and event codes for all events supported by a currently connected APC by Schneider Electric device, first retrieve the config.ini file from the Network Management Card:

1. Open a connection to the NMC, using its IP Address:

```
ftp > open <ip_address>
```

2. Log on using the Administrator user name and password.

3. Retrieve the config.ini file containing the settings of the Network Management Card:

```
ftp > get config.ini
```

The file is written to the folder from which you launched FTP.

In the config.ini file, find the section heading [EventActionConfig]. In the list of events under that section heading, substitute 0x for the initial E in the code for any event to obtain the hexadecimal event code shown in the user interface and in the documentation. For example, the hexadecimal code for the code E0033 in the config.ini file (for the event “System: Configuration change”) is 0x0033.

Hash Signatures

apc_hw21_rpdu2g_2-5-2-5.nmc3

MD5 Hash	ab15bc39c0fetc5e32d60d1b202ec55e
SHA-1 Hash	7f0d9f556adcda8fc857069a05164e9ec92520b0
SHA-256 Hash	aea4d0d7face6d39f2168916bb0508e5ba9dcfcf3a912ebcbc19c73ecb12c78c