Network Management Card 2 (NMC 2) Firmware v7.1.2 for Modular PDU/RPP Release Notes

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The Modular PDU/RPP application firmware v7.1.2 release notes apply to the following products:

- PDPM72F-5U, PDPM138H-5U, PDPM144F, PDPM138H-R, PDPM277H, PDPM288G6H

Affected Revision Levels

Component	File	Details
APC Operating System	apc_hw05_aos_712.bin	Network Management Card Operating System & TCP/IP Stack
Modular PDU/RPP	apc_hw05_xrdp2g_712.bin	Application for Modular PDU/RPP

For details on upgrading the UPS firmware, see the User Guide.

Schneider Electric Network Management Device IP Configuration Wizard

The Device IP Configuration Wizard is a Windows application designed specifically to remotely configure the basic TCP/IP settings of Network Management Cards. The Wizard runs on Windows® Server 2012, Windows Server 2016, Windows Server 2019, Windows 8.1, and Windows 10. This utility is for IPv4 only.

NOTES:

- In firmware version v1.4.x and higher, it is not supported to assign IP addresses to Network Management Cards using the Wizard.
- You cannot search for assigned devices already on the network using an IP range unless you enable SNMPv1 and set the **Community Name** to “public”. For more information on SNMPv1, see the User Guide.
- When the NMC IP address settings are configured, to access the NMC Web UI in a browser, you must update the URL from http to http**s**.

The Wizard is available as a free download from the APC website:

1. Go to Software & Firmware and click **Show More** from the list of checkboxes in **Filter by > Software / Firmware**.
2. Select **Wizards and Configurators** to view the list of utilities available for download.
3. Click the **Download** button to download the **Device IP Configuration Wizard**.

New Features

New Feature
Modular PDU/RPP has been updated with the latest aos version 7.1.2.

Fixed Issues

Fixed Issue
Security Vulnerabilities • **CWE-16**: Configuration – The vulnerabilites in this category during the configuration of the software are now resolved. • **Cipher Block Chaining (CBC)** – Support has been removed as it does not meet modern cryptographic needs, and contains cybersecurity vulnerabilities. • **CWE-834:** Excessive Iteration – The software performs an iteration or loop and now sufficiently limitis the number of times that the loop is executed. • **CWE-79:** Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting') – The software now correctly neutralizes the user-controllable input before it is placed in a web page output served to other users. • **CWE-425:** Direct Request ('Forced Browsing') – The web application now enforces appropriate authorization on all restricted URLs, scripts, or files. • **CWE-327:** Use of a Broken or Risky Cryptographic Algorithm: This software no longer uses a vulnerable cryptographic algorithm or protocol.
Cybersecurity Vulnerabilities The following third-part components have been updated to address cybersecurity vulnerabilities. • SSH Server provided by Cryptlib - CVE-2008-5161 • TCP/IP provided by Treck - CVE-2004-0230 • TCP/IP provided by Treck - CVE-2004-0790 • Treck stack - CVE-2012-5364 • CWE-200: Exposure of Sensitive Information to an Unauthorized Actor • JQuery - CVE-2019-11358

Known Issues

Known Issue
There are no known issues in this release.

Miscellaneous

Recovering from a Lost Password

See the User Guide on the APC website for instructions on how 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 device, first retrieve the config.ini file from the attached NMC. To use SCP to retrieve config.ini from a configured NMC:

1. Open a connection to the NMC, using its IP Address:
   scp <admin_username>@<ip_address>:config.ini <filename_to_be_stored>
2. Log on using the Administrator user name and password
3. Retrieve the `config.ini` file containing the settings of the NMC of the UPS:
   ftp > get config.ini

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

   In the `config.ini` file, find the section heading [EventActionConfig]. In the list of events under that sectionheading, substitute 0x for the initial E in the code for any event to obtain the hexadecimal event codeshown in the user interface and in the documentation. For example, the hexadecimal code for the codeE0033 in the `config.ini` file (for the event "System: Configuration change") is 0x0033.

PowerNet MIB Reference Guide

NOTE: The MIB Reference Guide on the APC website explains the structure of the MIB, types of OIDs, and the procedure for defining SNMP trap receivers. For information on specific OIDs, use a 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 powernet442.mib on the APC website).

Hash Signatures

Signatures	apc_hw05_xrdp2g_712.bin
MD5	c0202bbc5c19ead0dd603e9d0492add6
SHA-1	8537e30505d138df49fdfb5e66e181c3513d3e69
SHA-256	cd363ae0baabd848feaf59f640352984a653bd73c130255ffb88826afd159f5d

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