Network Management Card 3 (NMC 3) for Smart-UPS Firmware v3.0.0.12 Release Notes

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The Smart-UPS application firmware v3.0.0.0.12 release notes apply to the following NMC cards:

- **AP9640 UPS Network Management Card 3**
- **AP9641 UPS Network Management Card 3**
- **AP9643 UPS Network Management Card 3**

Affected Revision Levels

Component	File	Details
Smart-UPS Application	apc_hw21_su_3-0-0-12.nmc3	UPS Application for Smart-UPS, Smart-UPS RT, Smart-UPS VT, MGE Galaxy 3500

To upgrade to firmware version 3.0 or later, the only supported method is the Secure NMC System (SNS) Tool which can be downloaded from www.apc.com/secure-nmc or by searching for SFNMC3FMTSU. To access the firmware in the software, a valid Secure NMC subscription is required. For more information, see the SNS Tool User Guide.

NOTE: If you upgrade to firmware version 2.0 or later, you cannot downgrade to a firmware version lower than 2.0.

⚠️ If you downgrade from firmware version 2.4+ to a firmware version lower than 2.4, this will cause the card to be formatted, erasing all security certificates, encryption keys, configuration settings, and the event and data logs.

Schneider Electric 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 at www.apc.com/secure-nmc:

1. Go to **Software and Firmware** tab.
2. Search "Device IP Configuration Utility" and click **Files for Download**.
3. Click **All files** to download all the files.

New Features

New Feature
The NMC3 platform and Smart-UPS application are now IEC 62443-4-2 certified.
Support added for audit logging to ensure control actions and configuration changes are recorded in the Event Log.
Support added for remote authentication via the TACACS+ protocol.
Security Update
Password security has been updated to align with the requirements for IEC 62443-4-2. By default, passwords now need to be a minimum of 8 characters in length (strong password setting enabled).

Fixed Issues

Fixed Issue
SNMP OID `upshighprecbatterypackonly` now correctly displays all information about **Battery Packs**.
The NMC3 Web UI now allows passwords with up to 64 characters, as expected.
For encrypted email settings, install CA certificate to the certificate store and set "Require CA Root Certificate" correctly.
Improved TLS certificate for email.
Security Update
The following security vulnerabilities has been addressed in this release: • CWE-74: Improper neutralization of special elements in output used by a downstream component (Injection) • CWE-79: Improper neutralization of input during web page generation (Cross-site Scripting).

Known Issues

Known Issue
The audit log of the Web UI is currently only available in English.

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 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.

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 powernet441.mib on the APC website, www.apc.com).

Secure NMC System (SNS) Tool for Smart-UPS Hash Signatures

Signatures	snst_nmc3_su_3-0-0-12-v3.exe
CRC32	AD07FCB7
CRC64	151A54EDD65B555D
SHA-256	7CC49EA4BE1C31CCA2C3503C4EBBCBA7814B156B8F83ABAE22C43710515A876D
SHA-1	180E51D417445A6575952741359CD8BD92FE273A
BLAKE2SP	1F4EFF3FDC7C7AD5D6428ADFD559C768491F8E34717BFF9FA012E07C1256ECB3

https://www.apc.com

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