

# Network Management Card 3 (NMC 3)

## Firmware v2.4 for Smart-UPS & 1-Phase Symmetra Release Notes

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The Smart-UPS and 1-Phase Symmetra application firmware v2.4 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_2-4-0-11.nmc3	UPS Application for Smart-UPS, Smart-UPS RT, Smart-UPS VT, MGE Galaxy 3500
Symmetra Application	apc_hw21_sy_2-4-0-8.nmc3	UPS Application for 1-Phase Symmetra, Symmetra LX.

For details on upgrading the UPS Network Management Card 3 (NMC 3) firmware, see the [User Guide](#) on the APC website. **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 https.

The Wizard is available as a free download from the APC website at [www.apc.com](http://www.apc.com):

1. Go to <https://www.apc.com/jp/ja/download/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 Features	UPS Family	
	Smart-UPS	1-Phase Symmetra
Syslog has been updated to conform to <a href="#">RFC5424</a> and can now be used securely over TLS as defined in <a href="#">RFC5425</a> .	◆	◆
The internal storage of passwords has been improved to align with current best practices, as described by <a href="#">NIST Special Publication 800-63B</a> .	◆	◆
The console port now requires you to press the ENTER button twice to interrupt autoboot and reach the Boot Monitor prompt.  <b>Note:</b> The ENTER button must be pressed twice in succession within one second. After entering the Boot Monitor, if there is no user activity for one minute, the application will run.	◆	◆
Support added for the Customer Experience Improvement Program (CEIP) which allows Schneider Electric to collect anonymous data on how the NMC is used in various customer environments.	◆	

## Fixed Issues

Fixed Issue	UPS Family	
	Smart-UPS	1-Phase Symmetra
You can now login to the NMC Web UI via HTTPS using Google Chrome as the browser.	◆	◆
The timestamp on the header of Outlook email notifications now correctly displays EST (GMT-5).	◆	◆
Importing signed SSL certificates now works as designed.	◆	◆
The SSH CLI user session now begins in the default directory upon login.	◆	◆
The Event Log now details the specific reason for a reboot during a firmware upgrade.	◆	◆
All user type permissions are now corrected to align with what is described in the NMC user documentation.	◆	◆
The <code>modbus</code> CLI command will now allow configuration on the AP9640 NMC model.	◆	◆

Fixed Issue	UPS Family	
	Smart-UPS	1-Phase Symmetra
The NMC will only report <code>upsBypassCurrent</code> in the generic UPS MIB (RFC 1628) when the UPS is in any bypass state.	◆	◆
Support has been added for <code>upsOutputPower</code> in the generic UPS MIB (RFC 1628). <b>Note:</b> Output power is only supported on certain UPS models.	◆	
The NMC will no longer show the UPS firmware update configuration option on the Web UI and the CLI if the UPS is configured to prevent UPS firmware update from the NMC.	◆	
The <code>debat -id</code> CLI command now works as designed.	◆	

## Previous Fixed Issues

Previous Fixed Issue	Version
The NMC's NAND driver has been updated, fixing an issue where the NMC could restart every 10 minutes.	2.3.1.1
The NMC IP is now accessible if the network connection is lost.	2.3.1.1
An email test is no longer reported as successful if invalid user credentials are provided. The email test will be unsuccessful as expected.	2.3.1.1
The reboot prompt is now displayed as expected in the CLI when WiFi is enabled or disabled.	2.3.1.1
You can no longer log into the NMC using backdoor access credentials (-c option).	2.3.1.1
Ethernet ports no longer go down every minute.	2.3.1.1
After the upgrade, the NMC no longer logs false bypass-related events in the event log.	2.2.1.1
BACnet vulnerability has been addressed.	2.2.0.1
The date and time now display correctly on the Date/Time Mode screen in the Web UI if configured using Network Time Protocol (NTP).	2.2.0.1
The <code>config.ini</code> file date now displays correctly when viewed using the <code>dir</code> command in the CLI.	2.2.0.1
SSH/SSL keys are now correctly deleted via the Web UI if they were generated via the CLI.	2.2.0.1
Control policies configured for the UPS for respond to an input alarm now work as expected. For example, the UPS correctly turns off when the policy is configured to "Turn UPS Off".	2.2.0.1
The <code>upsAdvBatteryReplaceIndicator</code> SNMP OID now correctly updates when there is a faulty battery pack detected for some SRT UPS devices.	2.2.0.1
Clicking the Apply button on the UPS screen in the Web UI (Configuration > UPS) no longer sets a random value for "Battery Replace Date" for some SURT UPS devices.	2.2.0.1
Outlet group-related commands in the CLI now work as expected for UPS devices with 2 and 3 switched outlet groups.	2.2.0.1

## Known Issues

Known Issue	UPS Family	
	Smart-UPS	1-Phase Symmetra
When two NMCs are inserted in a compatible UPS and the firmware version of the NMC in slot 1 is upgraded/downgraded via FTP/SCP, the NMC in slot 2 will lose communications with the UPS. The “UPS: Lost the local network management interface-to-UPS communication” event is logged to the Event Log for the NMC in slot 2.		◆

## 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, <https://www.apc.com/jp/>).

### Hash Signatures

Signatures	apc_hw21_su_2-4-0-11.exe	apc_hw21_sy_2-4-0-8.exe
CRC32	FF0D6AD1	B4FC20E8
CRC64	0E5FA26F	B5DDC6805BA7125C
SHA-256	0D0A99F8ACD99A2296AE3C357F13CE29873 0666C4105C712ADFCFAA3C4B0AC44B	0C41CEF7986CDE83D55B43D7C1E0EBDCF CF75597618572AC9DC1E408C7DFD697
SHA-1	AEB0B615361B32C26EC7EF421D403A11C13 D3665	802E57BDC60EB533321C2010BF5A5CE7567 18CBD
BLAKE2SP	0E15fE1AFE8EF1AC120849D79DAE1E66400A 8B8B7F90E83FC4D494A649C774E8	20003BD243B143A752F042E9CADA785D020 CE71C9FE1F4149B589AA603BBD384

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