

Network Management Card 3 (NMC 3) Firmware v1.4.0.19 for Smart-UPS & v1.4.0.10 for Single-Phase Symmetra Release Notes

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The Smart-UPS and Single-Phase Symmetra application firmware v1.4.0.19 / v1.4.0.10 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

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Component	File	Details
Smart-UPS Application	apc_hw21_su_1-4-0-19.nmc3	UPS Application for Smart-UPS, Smart-UPS RT, Smart-UPS VT, MGE Galaxy 3500
Symmetra Application	apc_hw21_sy_1-4-0-10.nmc3	UPS Application for Single 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.

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:

1. Go to <https://www.apc.com/shop/us/en/tools/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

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New Feature	UPS Family	
	Smart-UPS	Single-Phase Symmetra
<p>APC USB Wi-Fi Device (AP9834)</p> <p>Support added for the optional APC USB Wi-Fi Device which allows you to connect the Network Management Card to a wi-fi connection and eliminates the need for a wired LAN connection. For more information, see the Quick Start Guide and User Guide.</p>	◆	◆
<p>New Command Line Interface Commands</p> <p>New <code>ssh</code> and <code>ssl</code> commands in the Command Line Interface (CLI) provide support for configuring SSH server keys, the NMC's public key, and Web UI certificate, and creating a Certificate Signing Request (CSR). For more information, see the CLI Guide.</p>	◆	◆
<p>Cisco HyperFlex</p> <p>Support added for running a HyperFlex witness VM on the local network using the NMC instead of the cloud based Intersight witness component. This addition means that the witness functionality will work even if there is a disruption to the network connection.</p>	◆	◆
<p>RADIUS</p> <p>It is now supported to configure RADIUS to use port 1645.</p>	◆	◆
<p>Ripple20 Vulnerabilities Addressed</p> <p>This release includes remediations for the following Ripple20 CVEs: CVE-2020-11896, CVE-2020-11898, CVE-2020-11899, CVE-2020-11898, CVE-2020-11901, CVE-2020-11902, CVE-2020-11904, CVE-2020-11905, CVE-2020-11906, CVE-2020-11907, CVE-2020-11909, CVE-2020-11910, CVE-2020-11911, CVE-2020-11912, CVE-2020-11913, CVE-2020-11914.</p> <p>For more information, see Schneider Electric/APC security bulletin: https://www.se.com/ww/en/download/document/SEVD-2020-174-01/</p>	◆	◆
<p>Other Security Vulnerabilities Addressed</p> <p>This release includes remediations in the network stack for multiple Improper Input Validation vulnerabilities.</p>	◆	◆

Fixed Issues

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Fixed Issue	UPS Family	
	Smart-UPS	Single-Phase Symmetra
The <code>upsAlarmTable</code> within the RFC1628 (standard UPS) MIB now properly lists the active alarms.	◆	◆

Known Issues

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Known Issue	UPS Family	
	Smart-UPS	Single-Phase Symmetra
When an SSH/SSL key is generated via the CLI and deleted via the Web UI, the SSH/SSL key is not deleted after the NMC states the key is removed.	◆	◆
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.		◆

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 powernet436.mib on the APC website, www.apc.com).

Hash Signatures

Signatures	apc_hw21_su_1-4-0-19.exe	apc_hw21_sy_1-4-0-10.exe
CRC32	A04776C6	1A1DDB4A
CRC64	77DDE3674CD2A35D	95B82A0A407B4013
SHA-256	E3FE0F75E2DA25F82B23318887E81A49F784 6DAB22CA45DC8B94B54D3F480A56	C9E56475B4522DD34B05CF16C6C4489383D5 C2F14D852FB87443F288820D9862
SHA-1	1285F797EE9F9EBE054558F6AA14E009E2A3 9802	E86A993E042A2073C60E839E08B840179AA1 73EE
BLAKE2sp	C1F05132F6F54523041DE3A50B103135A8801 590DFC44E91602F8CB82241D1EA	6CD5BA2B377F343FB5EC2ED2064D525AC55 D4628AD522C1D21ED69430424ED54

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