Network Management Card 3 (NMC 3) Firmware v3.6.0.10 for Smart-UPS Ultra 5-20 kW Release Notes

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Affected Revision Levels

Component	Details
Smart-UPS Ultra 5-20 kW Application	UPS Application for Smart-UPS Ultra 5-20 kW

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.se.com/secure-nmc or by searching for SFNMC3SNST. To access the firmware in the software, a valid Secure NMC subscription is required. For more information, see the SNS Tool User Guide.

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:

1. Go to the **SE website**.
2. In the search bar, type **Wizards and Configurators.**
3. Navigate to the **Products** page to view the list of utilities available for download.
4. Select your preferred **Device IP Configuration Wizard** version you wish to download.
5. Click the Download button to download your selected **Device IP Configuration Wizard**.

New Features

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New Feature	UPS Family	
	SRTL Devices	SRYL Devices
Support added for PowerChute Network Advanced that enables unattended, graceful shutdown of the Virtualization & HCI infrastructure during power disturbances.	♦	♦
Support added for USB to Dry Contact Accessory for NMC (AP9811) and USB to UIO Accessory for NMC (AP9814) **Note:** AP9814 is planned to be released in late Q4, 2026.	♦	♦
Multi-factor authentication (MFA) localization improvements; One-Time Passwords (OTP) emails now use the user's preferred language or the language override selected during web login.	♦	♦
Security Update		
Support added to limit the number of concurrent sessions per interface for any given user (human, software process or device).	♦	♦

Fixed Issues

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Fixed Issue	UPS Family	
	SRTL Devices	SRYL Devices
Modbus TCP response time has been improved.	♦	♦
PowerChute Network Shutdown successfully registers with the NMC in PowerChute Clients.	♦	♦
Incorrect high temperature readings have been corrected.	♦	♦
On the UPS firmware update upload page in the web UI, the 'Update from NMC - No updates found' dropdown option now displays correctly for all supported languages.	♦	♦
For the LCD display, strings now display correctly in Japanese.		♦
Security Update		
The following security vulnerability has been addressed in this release: • CWE-770: Allocation of Resources Without Limits or Throttling Security hardening to handle malformed IPv6 requests.	♦	♦

Fixed Issue	UPS Family	
	SRTL Devices	SRYL Devices
Security Update		
The following security vulnerability has been addressed in this release: • CWE-770: Allocation of Resources Without Limits or Throttling Added limits to the number of connections to prevent HTTP/S slow read response attack.	♦	♦
The following security vulnerabilities have been addressed in this release: • CVE-2019-8331 • CVE-2018-20676 • CVE-2018-20677 • CVE-2018-14042 • CVE-2018-14040 • CVE-2016-10735	♦	♦
The following security vulnerability has been addressed in this release: • CWE-125: Out-of-bounds Read Security hardening to prevent the use of an invalid user type during user creation.	♦	♦
The following security vulnerabilities have been addressed in this release: • CWE-1286: Improper Validation of Syntactic Correctness of Input • CWE-787: Out-of-bounds Write • CWE-120: Buffer Copy without Checking Size of Input Additional hardening to address HTTP Server Fuzzing issues.	♦	♦

Known Issues

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Known Issue	UPS Family	
	SRTL Devices	SRYL Devices
Control policy issues with USB to UIO Accessory for NMC (AP9814) • To allow proper selection of the probes on the web UI, when using different probe types, plug all spot fluid sensors (NBES0301) in the last ports of the connected USB accessories / UIO ports so that temperature or temperature/humidity probes are always before the spot fluid sensors • When multiple probe types are in use, the web UI may not allow the user to select the probe properly. • When having a policy which acts on more than one output relay, all output relays may not work as expected and the event logging is inaccurate. • When using a USB to Dry Contact Accessory for NMC (AP9811), the input contact selection incorrectly shows a Zone B option on the web UI.	♦	♦
When using spot fluid sensors on the USB to UIO Accessory for NMC (AP9814), the event log will show invalid UIO port numbers.	♦	♦
Incorrect events are recorded when the USB to Dry Contact Accessory for NMC (AP9811) relay's normal state is changed.	♦	♦
An informational alarm is generated when the USB to Dry Contact Accessory for NMC (AP9811) relay transitions to an abnormal state.	♦	♦
The clearing trap for the spot fluid sensor (NBES0301) is not generated when the sensor is connected to the USB to UIO Accessory for NMC (AP9814).	♦	♦
Using probe name strings longer than 16 characters can result in string being truncated to 16 characters after an NMC reboot.	♦	♦
After updating the NMC's firmware via a USB flash drive, the USB is not recognized in the display or NMC Web UI.	♦	♦
Some pages in the Web UI help are not updated.	♦	♦
It can take up to 30 minutes to complete a UPS firmware upgrade when using HTTPS. To workaround this, use SCP as an alternative.	♦	♦
When a UPS firmware upgrade is in progress, the `upsAdvcontrolFirmwareUpdate` SNMP OID incorrectly reports the value as "noFirmwareUpdate" instead of "UpdateinProgress".	♦	♦
Filtering by time does not work for the Power Event Log.	♦	♦
Entering unsupported commands in the Command Line Interface (CLI) does not return an E102 Parameter error.	♦	♦

Known Issue	UPS Family	
	SRTL Devices	SRYL Devices
You cannot unzip the debug file completely from a USB drive. This issue is seen intermittently.	♦	
You are unable to configure `upsAdvConfigAlarmRedundancy` OID from SNMP interface.		♦
When an internal or external Battery Module is connected or disconnected from its slot, the Event Log entry does not report its serial number.		♦
You cannot make configuration changes via the display when RADIUS is enabled, and the **User Mode** is set to “Authentication Needed”.		♦
The option to cancel or mute a UPS audible alarm is not present in the Web UI.		♦
The `ups -s start` `CLI` command is unsuccessful even when the self-test is started correctly.		♦
There is no option to set the language of the display in the NMC Web UI.		♦
You cannot modify the output voltage setting from the SNMP interface if the output is in **Manual Bypass**.		♦

Miscellaneous

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Recovering from a Lost Password

See the **User Guide** on the Schneider Electric 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 Schneider Electric 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 Schneider Electric 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 **Schneider Electric website**).

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