Network Management Card 3 (NMC 3) Firmware v3.0.1.4 for Smart-UPS Ultra 5-20 kW Release Notes

Table of Contents

Affected Revision Levels

Component	File	Details
Smart-UPS Ultra 5-20 kW Application	apc_hw21_sucan_3-0-1-4.nmc3	UPS Application for Smart-UPS Ultra 5-20 kW

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 http**s**.

The Wizard is available as a free download:

1. Go to the **APC 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

New Feature	UPS Family	
	SRTL Devices	SRYL Devices
The NMC3 platform and Smart-UPS Ultra 5-20kW 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	UPS Family	
	SRTL Devices	SRYL Devices
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.	♦	♦
The NMC3 Web UI now allows the Battery Install date setting and other general UPS settings.	♦	♦
The correct **On Battery** status message will now appear on the Web UI Home page for Japanese.	♦	♦
The NMC now supports the latest set of UPS alarms with the correct severity and improved alarm messages.	♦	♦
Partially written files can now be recovered after a system reset event.	♦	♦
The **Power Module Fault** now appears correctly on the SNMP interface.		♦
Improved Japanese translations for the display.		♦

Fixed Issue	UPS Family	
	SRTL Devices	SRYL Devices
Able to set the OIDs `upsAdvConfigHighBypassLLTransferVolt` `upsAdvConfigLowBypassLLTransferVolt` from SNMP interface.		♦
Security Update		
The following security vulnerabilities have 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	UPS Family	
	SRTL Devices	SRYL Devices
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.	♦	♦
The alarm description is shown incorrectly in DCE for outlet group-related alarms.	♦	
You cannot unzip the debug file completely from a USB drive. This issue is seen intermittently.	♦	
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 a E102 Parameter error.	♦	
You are unable to configure `upsAdvConfigAlarmRedundancy` OID from SNMP interface.		♦
Only alphanumeric passwords are supported for new users created in the NMC for access to the display.		♦
When an internal or external Battery Module is connected or disconnected from its slot, the Event Log entry does not report its serial number.		♦

	UPS Family	
Known Issue	**SRTL Devices**	**SRYL Devices**
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.		♦
There is no option in the Web UI or the display to cancel a UPS audible alarm test. It is not recommended to initiate a continuous alarm as the only way to stop the UPS beeping is to turn off the UPS.		♦
You cannot modify the output voltage setting from the SNMP interface if the output is in **Manual Bypass**.		♦
The "Minimum Redundancy lost" event is not displayed in PowerChute Network Shutdown although it is supported by the NMC. If this event occurs, the server will not shutdown.		♦

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**).

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

Signatures	snst_nmc3_sucan_3-0-1-4-v2.exe
CRC32	B912E432
CRC64	80C0307FA16E865B
SHA-256	DC256451913BE8FA1DCD63E3205DBEA012D83C4FA82E5610BEE2864F3CBD4C61
SHA-1	B03DB85215D2500EE3C71FB48714259557AD3173
BLAKE2sp	A49568C6AA16E7BFDBD9E99F6FF9123AE5532FFB8D4304B2223631801ABA2C79

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