Network Management Card 3 (NMC 3) for Firmware v3.4.0.8 for Smart-UPS & 1-Phase Symmetra Release Notes

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The v3.4.0.8 Smart-UPS application/ 1-Phase Symmetra application firmware 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	**Windows:** snst_nmc3_su_3-4-0-8.exe **Linux & macOS:** snst_nmc3_su_3-4-0-8.tar.gz	UPS Application for Smart-UPS, Smart-UPS RT, Smart-UPS VT, and MGE Galaxy 3500
Symmetra Application	**Windows:** snst_nmc3_sy_3-4-0-8.exe **Linux & macOS:** snst_nmc3_sy_3-4-0-8.tar.gz	UPS Application for 1-Phase Symmetra and Symmetra LX

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 SFNMC3FMTSU and SFNMC3FMTSY. 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 Schneider Electric website:

1. Go to Downloads for Software & Firmware | Schneider Electric
2. Select your preferred **Device IP Configuration Wizard** version you wish to 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	1-Phase Symmetra
Support added for viewing the ARP cache in the Command Line Interface (CLI).	♦	♦
Support added for EtherNet/IP for selected UPS devices. For more information, refer to Knowledge Base article **FAQ000275863**.	♦	
NMC now displays the UPS Installation date when supported by the UPS.	♦	
Added support for configuring outlet groups from the Command Line Interface.	♦	
Security Update		
Support added for Multi-Factor Authentication (MFA). MFA adds an additional layer of security to user logins by requiring a one-time password (OTP) sent via email after successful username and password authentication.	♦	♦

Fixed Issues

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Fixed Issue	UPS Family	
	Smart-UPS	1-Phase Symmetra
Unsuccessful e-mail tests are now displayed as expected in the Web UI.	♦	♦
Styling for the "Password Change Required" web page now displays as expected in the latest update of Chrome.	♦	♦
You can now cancel an initiated firewall test as expected in the Web UI.	♦	♦
CIDR (Classless Inter-Domain Routing) notation is now allowed in SNMP NMS fields and firewall fields (when in subnet mode).	♦	♦
The CIDR notation is now functional in the DNS field and NMP access is now allowed or blocked based on the ranges associated with the network.	♦	♦

Fixed Issue	UPS Family	
	Smart-UPS	1-Phase Symmetra
DNS lookups previously returned unusable IPv6 addresses in certain scenarios when both IPv4 and IPv6 were enabled (default settings). IPv4 is now prioritized if the NMC has an IPv4 address and only a link-local IPv6 address.	♦	
The NMC now shows the correct RBC SKU string for battery replacement.	♦	
The NMC now properly supports a USB flash drive for UPS-related functions.	♦	
Security Update		
The following security vulnerability has been addressed in this release: • CWE-120: Buffer Copy without Checking Size of Input vulnerability exists that could cause the device to become unresponsive when malformed SNMP requests are received over the network.	♦	♦
The following security vulnerability has been addressed in this release: • CWE-476: NULL Pointer Dereference vulnerability exists that could cause the device to become temporarily inaccessible when receiving malformed IPv4 packets.	♦	♦
The following security vulnerability has been addressed in this release: • CWE-613: Insufficient Session Expiration vulnerability exists that could cause a user to maintain access to an existing session when their password has been changed.	♦	♦

Known Issues

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Known Issue
There is no known issue in this release.

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, www.se.com).

Secure NMC System (SNS) Tool for Smart-UPS and 1-Phase Symmetra Hash Signatures

Windows

Signatures	**snst_nmc3_su_3-4-0-8.exe**	**snst_nmc3_sy_3-4-0-8.exe**
CRC32	45B34E48	F3BF4CCF
CRC64	D073654FF833808B	907C7F8101C41264
SHA-256	35B2DE418E22D5241CB36A94C15FEBAF49E6AA46E90FA84BE685CBC4218EC70C	4A84BB6DBE87313FBF9F751118EE0BE3036749713E87A61AFCEED92FCDCDB802
SHA-1	BAF4343761DB6D3DA916ECA5836A1F0131653F81	7D2451F2CC1B2E4FA5E34DB3EF342204268FADB4
BLAKE2sp	E53287ED5744059A72F1BC59A911082E09B8548E2F4EA01F9A34FB796F362FEE	DBE7CDEF8B615F592E8E5E3EB531DC7ED166C5A78B8B01164C6016838BDE21EA

Linux

Signatures	**snst_nmc3_su_3-4-0-8.tar.gz**	**snst_nmc3_sy_3-4-0-8.tar.gz**
CRC32	F4C123A8	316540EB
CRC64	002F814120317B02	AE3E7B930CA360D9
SHA-256	66CE945D8D13811760DF1E249C51B492415F62DDBD8A329E4FFF3F8F14AD14C8	272EF5CE98C18C3AA9E8D822799C77B4194F36808F4FAF5F0075BF15A9092B00
SHA-1	242548A1D794AB86D8B31527FFB1C9025A2DF5A9	88A7B68E9791FFFC8ABA11F1ADF90AE192B01293

Signatures	snst_nmc3_su_3-4-0-8.tar.gz	snst_nmc3_sy_3-4-0-8.tar.gz
BLAKE2sp	4E9F592B433E6E467B964231D70E19829B6B1 9955DED67B185F33AFBE7926A62	A903D65FE11A55F38F62D50A9C42742B42436 407EF9B87A63037D958181F72E6

macOS

Signatures	snst_nmc3_su_3-4-0-8.tar.gz	snst_nmc3_sy_3-4-0-8.tar.gz
CRC32	DC9E7DE1	64EAFB15
CRC64	D24D77554F730E68	2B47491CD052BDCA
SHA-256	0B5562C2A883AA31EA105F90FB2E7AEBDFA DA314418051ABC6F8DBA737F62111	0634E006909A90B4EA1A6F2B7656324E63295 AD2D3F9247D67C9E23ED548BBA4
SHA-1	6DCF6023F9A70FFF7710F91B425F5908C1D5 D2A3	DC266F489C01758913375596211CFEE295520 6F0
BLAKE2sp	93731344D22790B9080573089A7F8F41A3071 BB5F3A30D09C028068A6A9E8D6B	62CB4EAE53E5B6390E5EB56FF857536D7EC9 1D2AAE169437F0D044B06FC03BE9

https://www.se.com

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