

Network Management Card 4 (NMC 4)

Firmware 6.31.3 / 6.33.3

Release Notes

New Features

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For a list of features available in the NMC 4, refer to the [Network Management Card 4 Feature List](#).

Feature
You can update the firmware of the Network Management Card via the Web UI (Configuration > NMC Firmware Update).
Modular battery support is now available via SNMP, along with via the Web UI.
Support added for optional NMC - AP9644 Network Management Card 4.
Support added for temperature (AP9335T) and temperature/humidity (AP9335TH) sensors.
You can now locally access the Web UI and CLI via the micro-USB cable (part number 990-0603).
New Command Line Interface (CLI) commands: <code>date</code> , <code>email</code> , <code>session</code> , <code>smtp</code> , <code>snmptrap</code> , and <code>uio</code> .
Strong passwords are now enabled by default for user accounts. Provided passwords must be between 8 and 64 characters in length, and cannot contain the user name or a commonly-used sequence like <code>qwerty1234</code> or <code>passw0rd</code> . NOTE: This change will not affect existing customers upgrading to v6.30.3, unless the NMC is reset to use its default values.
When the optional NMC (AP9644) is inserted in a UPS device, it will automatically upgrade or downgrade its firmware to match the firmware version of the internal NMC.

Fixed Issues

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Issue
The NMC no longer reboots every 10 days. NOTE: This issue is fixed in firmware version 6.33.3.
The name of an uploaded certificate via the Email Certificate Upload page now displays correctly.
The date/time correctly immediately synchronizes with your NTP server in the Date/Time Mode page in the Web UI.
When the NMC Web UI is accessed in a localized language, the language no longer reverts to English when the back button (←) is pressed in the browser.
The Parallel page no longer displays as an option in the Web UI (Status > Measurements) when you change your UPS device from a parallel to a unitary UPS.
The CLI session over port 22 no longer disconnects if the ` ` or ` ` characters are used in commands.
The ? command in the CLI now works as expected.
Event notifications related to instances are now displayed as expected in email notifications, SNMP traps, and Syslog.

Known Issues

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Issue
There are discrepancies between the current time displayed in the Web UI and the CLI. The <code>date</code> command in the CLI will report the current time in real-time, whereas the Web UI will display the browser's current time with respect to the UTC value set. NOTE: The UPS HMI will also display the current time in real-time.
When the AP9644 Network Management Card is rebooted, temperature and temperature/humidity-related events are logged to the Event Log when no environmental sensor is connected.
Temperature and temperature/humidity-related events may take up to 7 minutes to be logged to the Event Log.

Issue
When critical temperature and temperature/humidity-related events are resolved, the events do not clear as expected in the Web UI.
The NMC will not accept a valid user password if it contains "\$&".
The Configure Events screen in PowerChute Network Shutdown v4.3 displays the "Communication Established with EMC" and "Communication Lost with EMC" events. These events can be ignored as they are not supported.
When the optional NMC (AP9644) is inserted, some alarms and events are not logged on all the configured interfaces (traps, emails, Syslog, Event Log). For example, the "Lost Communication" alarm is not logged as an active alarm or sent as a trap/email.
The value for the <code>upsBatteryCabinetEntry</code> SNMP Object Identifiers (OIDs) are returned twice, and they two entries do not display the same value.
When the Web UI is locally accessed via an internal IP address (172.16.1.1 / 172.16.2.1) and HTTP/HTTPS is disabled, you can no longer access the UI using the disabled protocol. For example, if HTTP is disabled, you cannot access the Web UI at http://172.16.1.1
When a firewall rule is created, FTP access may get disabled. If FTP is inaccessible after creating a firewall rule, it must be manually re-enabled.
When the optional NMC (AP9644) is inserted in a UPS device, the optional NMC will upgrade or downgrade its firmware to match the firmware version of the internal NMC. The optional NMC will reboot during the downgrade/upgrade process. This reboot is not logged to the Event Log.
When adding a rule via the Firewall Configuration page in the Web UI, the table incorrectly includes the IP/Range/Subnet column, which is not currently supported.
The Notification Delay and Repeat Interval features for event actions do not behave as expected. For example, you may receive multiple notifications for an active event.
If an e-mail recipient is deleted in the Web UI (Configuration > Notification > E-Mail > Recipients) when an event it is configured to receive email notifications for is active and "Notify Until Condition Is Cleared" is enabled, the recipient will continue to receive email notifications for the event, despite being deleted.
When the mode is set to "DHCP Only" in the IPv4 Settings page in the Web UI, the DHCP IP settings are incorrectly populated in the "Manual" mode section.
When the boot mode is changed from DHCP to manual in the CLI (using the <code>boot</code> command), the previously used static IP address is incorrectly assigned.
You cannot connect to SNMPv1 using an IPv6 address. Use SNMPv3 as an alternative.
There is a delay sending SNMPv1 traps configured for Unicode-based languages (Japanese, Chinese, Russian, Korean), and the NMC Web UI incorrectly logs "Test SNMP trap failed to send."

Issue

The CLI session will close if the `-n` option is not provided in `snmpv3` commands to edit user access. For example, `snmpv3 -i 2 -U profile_1` should be `snmpv3 -i 2 -U profile_1 -n 0.0.0.0`
NOTE: 0.0.0.0 is the only IP address accepted by the `-n` option as host filtering is not supported.

SFTP and FTP sessions do not terminate when the session times out. You must manually terminate the session.

When the DHCP server is unavailable, the NMC IP address appears as an incorrect IP address, instead of "0.0.0.0".

When you enter a **Primary DNS Server** address in the DNS Configuration page in the Web UI, the details entered will populate the **Active Primary DNS Server** and **Active Secondary DNS Server** sections. When you enter a **Secondary DNS Server** address and switch to this network, the **Primary DNS Server** address will now be populated in the **Active Tertiary DNS Server** section.

Modular battery support has been added, but the SNMP Object Identifiers (OIDs) for this are not supported yet.

When you log out from the NMC serial console interface, the Current Sessions page in the Web UI still shows the session as active.

The Web UI can take 25-30 seconds to load using Microsoft Edge. This is a common issue with Microsoft Edge.

File Transfer Protocol (FTP) is not available over IPv6.

When credentials are provided in StruxureWare Data Center Expert after adding the NMC via SNMP, the NMC still requires login credentials when attempting to access the Web UI.

When using IPv6 with Internet Explorer 11, you can only use the fully qualified domain name (FQDN) to access the Web UI. This is a known issue with Internet Explorer 11.

Enabling IPv6 via the serial console port interface may cause the console connection to unexpectedly disconnect.

The Event Log in the Web UI displays incomplete IPv6 addresses.

When Auto Configuration is disabled in the IPv6 Settings page in the Web UI, the NMC still displays the card's IPv6 address and the card is accessible using a DHCP IPv6 address.

No browser warning message is displayed in the Web UI when navigating without saving your changes.

Issue
SNMPv3 Access Control filtering is not supported. Use the Firewall to control access to SNMPv3.
When viewing the Event Details page in the Web UI for an event, you cannot disable the logging of an event to the Event Log. However, the option is still present for mass configuration of events.
When accessing the Web UI using a smartphone, the Rule Configuration table on the Firewall Configuration page is not responsive.
When an SNMPv3 profile is enabled with a valid NMS IP/Host Name, you can connect to a MIB browser of another system and not the configured SNMP profile. NOTE: The only supported value for NMS IP/Host Name for SNMPv3 is "0.0.0.0".

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