

Panduit UPS

Network Management Card Release Notes v1.6.1
Rev1.0

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General

Tested Application Compatibility

<i>Application</i>	<i>Support</i>	<i>Known Limitations</i>
Security Handle	V4.1	
mPower	v1.0.1	

Released Production Files

Product Upgrade

Image Information

Filename: ups-nmc-app-1.6.1-release.bin

Version: 1.6.1

CRC32: 3bb881f4

SHA256: 1e5547c47e991fb449d0516e992e21a8d6ac8b77f123cf7a01355cdbc57e7d99

Filesize: 1761710 bytes

New Features

New Features added in version 1.6.1

- Support for Long Runtime Lithium Units

Resolved Issues

Issues resolved by version v1.6.0

<i>Issue ID</i>	<i>Title</i>
UNMC-244	Need to add some type of filtering to the environmental sensors.
UNMC-405	cfgOutputPower does not change from default 600
UNMC-510	Add Battery Runtime to WebUI
UNMC-685	Access Control: Implement PIN length restrictions in web UI
UNMC-698	Setting web session timeout does not affect current session
UNMC-750	No error on the WebUI when adding a 201st user
UNMC-764	Spot, Rope, Dry Contact, and Door Sensor Show Critical Upon Initially Adding
UNMC-767	Event and Alarm Severity Search is not working at all (text or number entry)
UNMC-769	No Options Displayed for Dry Contact and Door Sensor Alarm Level, Alarm State(door) on Thresholds Page
UNMC-792	Add Security handle door alarms to the NMC
UNMC-803	Setting the Beacon to "Locate" must override the alarm state
UNMC-866	When configured for DHCP, show the static IP address as inactive
UNMC-914	SPOT sensor generates critical(6) trap then a trap clear when water is added while the alarm is DISABLED
UNMC-955	Support Light Bar in MIB
UNMC-958	A battery remaining capacity threshold alarm to the system.
UNMC-962	Add ability to mute alarm from Dashboard

Outstanding Issues

New Issues

The following reported problems have been found since the previous release and are still outstanding in this release.

Issue ID	Title	Version	Status
UNMC-983	Smart load stuck "in process" when saving for the first time after reboot	v1.6.0	Deferred
UNMC-985	panduitAcUserLastAccessTimestamp reads four hours later than the UPS current time	v1.6.0	Deferred
UNMC-1002	False LOW Battery event followed by LOW Battery event clear during NMC restart	v1.6.0	Deferred
UNMC-1019	[5-10kVA Li] - Outlet Control via SNMP sometimes hangs or takes multiple commands to cycle	v1.6.0	Deferred

UNMC-983 Smart load stuck "in process" when saving for the first time after reboot

Using a shutdown method of customer can hang the first time the test functionality is ran.

Workaround: None

UNMC-985 panduitAcUserLastAccessTimestamp reads four hours later than the UPS current time

The panduitAcUserLastAccessTimestamp OID is returned in UTC and not the local time.

Workaround: None

UNMC-1002 False LOW Battery event followed by LOW Battery event clear during NMC restart

The network module is reset, you may get an erroneous message stating the battery is low.

Workaround: None, the message will clear by itself.

UNMC-1019 [5-10kVA Li] - Outlet Control via SNMP sometimes hangs or takes multiple commands to cycle

When turning on an outlet over SNMP, something it take multiple attempts to turn the outlet on.

Workaround: Run the SNMP command until the outlet turns on.

Existing Issues

The following reported problems were found prior to the previous release and are still outstanding.

Issue ID	Title	Version	Status
UNMC-249	Multiple SNMP v3 users can be created with the same user name	v1.0.5	Deferred
UNMC-297	Need to distinguish between "ECO Mode" and "ECO on Bypass"	v1.1.0	Deferred
UNMC-303	Startup state of outlets always defaults to ON no matter "outletGroupStateOnStartup"	v1.1.0	Deferred
UNMC-547	NMC for 1-3kVA: Incorrect Input Current through CLI/SNMP. Input Power is likely not measured in these units, so the CLI/SNMP reading is also static.	v1.1.3	Deferred
UNMC-561	'Battery Temperature' is in Celsius in the downloaded data log CSV file when web ui is set to Fahrenheit.	v1.2.1	Deferred
UNMC-568	5-10kVA - When unit is in Bypass and input voltage is abnormal (output disabled), WebUI shows Normal power flow diagram, no alarms.	v1.2.2	Deferred
UNMC-576	10-20kVA 3P Cannot Enable/Disable Alarm Buzzer through WebUI. Status changes on WebUI when Enabled/Disabled through LCD however.	v1.2.2	Deferred
UNMC-577	10-20kVA Input Power through CLI / SNMP not measured. (Always reads as "1800")	v1.2.2	Deferred
UNMC-581	NMC 5-10kVA -- Timed and Full Discharge Manual Battery Tests as set on NMC only lasted about 15 seconds.	v1.2.2	Deferred
UNMC-583	NMC 5-10kVA Enabling/Disabling audible alarm from the LCD did NOT update the status on the WebUI	v1.2.2	Deferred
UNMC-586	Event and Data log file cannot be downloaded using MacOS Safari browser	v1.2.2	Deferred
UNMC-601	Configuration upload does not show completion with WiFi network	v1.2.4	Deferred
UNMC-648	When DHCP or DHCPv6 goes from providing more than 0 NTP servers to providing zero NTP servers, the previous DHCP provided NTP servers are left in use	v1.3.0	Deferred
UNMC-650	Autoconfigured IPv6 address is not unlearned when configuration settings are changed to Static/Blank address - IPv6 must be disabled and then re-enabled to unlearn address	v1.3.0	Deferred

UNMC-656	3P Parallel Setup - Setting a unit in to Bypass through WebUI that is connected in Parallel disables output (May only affect : LCD v021B000, M v031B000, INV v021B000)	v1.3.0	Deferred
UNMC-657	Changing Output voltage from WebUI requires INV to be off (Bypass Mode) first.	v1.3.0	Deferred
UNMC-662	Power Flow: does not switch from None to Bypass when input power is restored	v1.3.0	Deferred
UNMC-697	Event "WebUI logged out due to inactivity" is not used when a WebUI user is logged out due to inactivity	v1.3.1	Deferred
UNMC-699	If a web user gets kicked out, there is no logout message in event log	v1.3.1	Deferred
UNMC-737	1-3 kVA Li-LI - Entering Shutdown mode shows Input/Output Bad alarms on WebUI. Powerflow not representative of Battery charging.	v1.3.1	Deferred
UNMC-738	Ethernet PHY not responding (registers all 0xFF) after 1 day 21 hrs.	v1.4.0	Deferred
UNMC-741	EM HID card triggers Unauthorized PIN Code event with an unknown number	v1.4.0	Deferred
UNMC-746	v1.4.0 Clicking Support > Download Mib command opens Mib in browser window - does not auto-download .mib file as in previous versions (1.3.1, etc)	v1.4.0	Deferred
UNMC-757	Changing Output Voltage from WebUI does not hold value on Li NA model.	v1.4.0	Deferred
UNMC-761	[10-20kVA] 3P UPS NMC Selecting Output Voltage on WebUI does not change the Output Voltage.	v1.4.0	Deferred
UNMC-763	WiFi IPv6 address not generated when Enabling IPv6 (autoconfigure)	v1.4.0	Deferred
UNMC-765	Setting Sensor Temperature Value Fails in MIB Browser for Fahrenheit Units	v1.4.0	Deferred
UNMC-778	Unauthorized pin code event & trap after valid pin code entry in Keypad only mode	v1.4.1	Deferred
UNMC-811	10-20kVA Selecting GEN mode from WebUI shows GEN mode as operating mode on WebUI - but 3Phase units do not have a GEN mode. (No state change from NOR mode.)	v1.4.1	Deferred
UNMC-816	Battery Test Status Field does not update after manual battery test	v1.4.2	Deferred
UNMC-821	If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0V	v1.4.2	Deferred

UNMC-876	CF and ECO output mode are shown for Line Interactive UPS.	v1.4.3	Deferred
UNMC-912	Power to outlets do not follow parameters of "Scheduled Shutdown"	v1.5.0	Deferred
UNMC-918	1K NA VRLA does not display bypass voltage limit alarm on Web UI	v1.5.0	Deferred
UNMC-924	[10-20kVA] 'Share battery' setting cannot be enabled from web UI.	v1.5.1	Deferred

UNMC-249 Multiple SNMP v3 users can be created with the same user name

If there are more than one SNMPv3 entry with the same username, the user may not be able to perform SNMP requests.

Workaround: Use unique SNMPv3 usernames.

UNMC-297 Need to distinguish between "ECO Mode" and "ECO on Bypass"

When exiting bypass mode, the UPS may not go back to the previous state.

Workaround: None

UNMC-303 Startup state of outlets always defaults to ON no matter "outletGroupStateOnStartup"

When outletGroupStateOnStartup is set to 'off' from SNMP and the UPS is restarted, the outlet will be turned on.

Workaround: None

UNMC-547 NMC for 1-3kVA: Incorrect Input Current through CLI/SNMP. Input Power is likely not measured in these units, so the CLI/SNMP reading is also static.

The input current for 1-3kVA UPS is not correctly reported over SNMP and CLI.

Workaround: None

UNMC-561 'Battery Temperature' is in Celsius in the downloaded data log CSV file when web ui is set to Fahrenheit.

The downloaded data log displays the battery temperature in Celsius even though the system is set to display the temperature in Fahrenheit.

Workaround: None

UNMC-568 5-10kVA - When unit is in Bypass and input voltage is abnormal (output disabled), WebUI shows Normal power flow diagram, no alarms.

When the UPS is set to bypass mode and the voltage goes below the normal range, the NMC web UI shows the normal power flow diagram.

Workaround: None

UNMC-576 10-20kVA 3P Cannot Enable/Disable Alarm Buzzer through WebUI. Status changes on WebUI when Enabled/Disabled through LCD however.

10-20kVA 3P Cannot Enable/Disable Alarm Buzzer through Web UI.

Workaround: None, the UPS core does not support this mode.

UNMC-577 10-20kVA Input Power through CLI / SNMP not measured. (Always reads as "1800")

The input active power and apparent power is not reported correctly on 10-20kVA UPS over SNMP and CLI.

Workaround: None

UNMC-581 NMC 5-10kVA -- Timed and Full Discharge Manual Battery Tests as set on NMC only lasted about 15 seconds.

Timed and full discharge manual battery does not test given timed amount or fully.

Workaround: None

UNMC-583 NMC 5-10kVA Enabling/Disabling audible alarm from the LCD did NOT update the status on the WebUI

When the audible alarm setting is changed on the display, it does not get reflected to the NMC Web UI.

Workaround: None

UNMC-586 Event and Data log file cannot be downloaded using MacOS Safari browser

Clicking Event and Data log download button does not respond when MacOS Safari browser is used.

Workaround: Use other browser such as Chrome, Firefox or Microsoft Edge.

UNMC-601 Configuration upload does not show completion with WiFi network

When the NMC web UI is connected via Wi-Fi network, uploading the configuration does not show it is uploaded even though the configuration upload is complete.

Workaround: None

UNMC-648 When DHCP or DHCPv6 goes from providing more than 0 NTP servers to providing zero NTP servers, the previous DHCP provided NTP servers are left in use

When DHCP stops providing NTP server after providing 1 or more, the UPS NMC continuously uses previously given NTP server.

Workaround: None

UNMC-650 Autoconfigured IPv6 address is not unlearned when configuration settings are changed to Static/Blank address - IPv6 must be disabled and then re-enabled to unlearn address

When the UPS NMC is connected to a stateless IPv6 network, then deleting the static IPv6 address by setting it to blank does not clear its IPv6 address.

Workaround: Disable and reenable IPv6

UNMC-656 3P Parallel Setup - Setting a unit in to Bypass through WebUI that is connected in Parallel disables output (May only affect : LCD v021B000, M v031B000, INV v021B000)

When the UPS is running in parallel mode and set to bypass mode, the output is disabled. This only affects 10-20k UPS version M031IR001I021 and prior versions.

Workaround: None

UNMC-657 Changing Output voltage from WebUI requires INV to be off (Bypass Mode) first.

Changing output voltage requires the inverter to be turned off. The NMC does not alert this message and the output voltage does not change.

Workaround: Turn the inverter off by setting the UPS in bypass mode before changing the output voltage

UNMC-662 Power Flow: does not switch from None to Bypass when input power is restored

When the UPS is in battery mode and set to bypass from the UPS display, the output power is disabled. Applying the input power switches the UPS to the normal mode instead of previously running bypass mode.

Workaround: None

UNMC-697 Event "WebUI logged out due to inactivity" is not used when a WebUI user is logged out due to inactivity

When a user logged out from Web UI due to inactivity, this log out event is not logged.

Workaround: None

UNMC-699 If a web user gets kicked out, there is no logout message in event log

The event log does not contain log out message when a user is logged out due to maximum concurrent user logged in.

Workaround: None

UNMC-737 1-3 kVA Li-Li - Entering Shutdown mode shows Input/Output Bad alarms on WebUI. Powerflow not representative of Battery charging.

When 1-3k Li NA models are set to shutdown mode, the NMC Web UI will show an input source error and battery not charging even though the input is good, and the battery is charging.

Workaround: None

UNMC-738 Ethernet PHY not responding (registers all 0xFF) after 1 day 21 hrs.

The UPS NMC may become unresponsive over Ethernet. When this occurs the status LED on the Ethernet port remains not lit. Reboot the NMC to recover Ethernet functionality.

Workaround: None

UNMC-741 EM HID card triggers Unauthorized PIN Code event with an unknown number

When the security handle authentication mode is set to 'RFID only' mode, there may be an unauthorized PIN event logged.

Workaround: None

UNMC-746 v1.4.0 Clicking Support > Download Mib command opens Mib in browser window - does not auto-download .mib file as in previous versions (1.3.1, etc)

Clicking Download SNMP MIB from the support page does not open a browser download dialog, and it displays the MIB file content on the browser.

Workaround: Right mouse button click on the browser, then click save as to save the MIB file.

UNMC-757 Changing Output Voltage from WebUI does not hold value on Li NA model.

Output voltage settings cannot be changed on 1-3k Li NA models.

Workaround: Use the UPS display to change output voltage.

UNMC-761 [10-20kVA] 3P UPS NMC Selecting Output Voltage on WebUI does not change the Output Voltage.

Output voltage settings cannot be changed on 3 phase UPS models.

Workaround: Use the UPS display to change output voltage.

UNMC-763 WiFi IPv6 address not generated when Enabling IPv6 (autoconfigure)

The NMC Wi-Fi does not acquire IPv6 address.

Workaround: None

UNMC-765 Setting Sensor Temperature Value Fails in MIB Browser for Fahrenheit Units

Setting temperature threshold values via SNMP may set correct values when the unit is in Fahrenheit.

Workaround: Use Web UI to set threshold values.

UNMC-778 Unauthorized pin code event & trap after valid pin code entry in Keypad only mode

The NMC may log that the handle was accessed by a non-authorized PIN after the correct PIN entry and auto-lock event.

Workaround: None

UNMC-811 10-20kVA Selecting GEN mode from WebUI shows GEN mode as operating mode on WebUI - but 3Phase units do not have a GEN mode. (No state change from NOR mode.)

If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0V

Workaround: None

UNMC-816 Battery Test Status Field does not update after manual battery test

When a manual battery test is run from the UPS display or web UI, the last test status may not show updated message.

Workaround: None

UNMC-821 If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0V

If the UPS is in CF mode, and then the INV is disabled, the outputs are disabled as expected - however there is no indication of this state on the WebUI except Voltage 0Vv

Workaround: None

UNMC-876 CF and ECO output mode are shown for Line Interactive UPS.

CF and ECO output mode are shown for Line Interactive UPS.

Workaround: None. The UPS does not support these modes.

UNMC-912 Power to outlets do not follow parameters of "Scheduled Shutdown"

Power to outlets do not follow parameters of "Scheduled Shutdown"

Workaround: None

UNMC-918 1K NA VRLA does not display bypass voltage limit alarm on Web UI

Then U01N11V does not display bypass voltage limit alarm on Web UI.

Workaround: None

UNMC-924 [10-20kVA] 'Share battery' setting cannot be enabled from web UI.

The "Share battery" setting can be disabled from the Web UI, but it cannot be enabled from the Web UI.

Workaround: Enabled the setting from the LCD screen.

Release History

Revision	Date	Reason for Change
1.1.2	March 24, 2022	Initial Release
1.1.3	May 18, 2022	Shutdown/Bypass action menu fix
1.2.2	October 14, 2022	Bug fixes and Wi-Fi Network feature
1.2.4	October 14, 2022	Limited release for 1-3k early build. SN workaround fix
1.3.1	March 31, 2023	Maintenance release
1.4.2	January 11, 2023	Security handle support. 5-10kVA Li UPS support
1.5.2	October 3, 2024	Maintenance release
1.6.1	August 28, 2025	1-3kVA Long Run Time Li support.