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Nuvation Energy Multi-Stack Controller Software

Release Notes

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1. Revision History

Version	Details	Date
1.0	Initial amalgamation for Multi-Stack Controller Versions 22 and 21	2025-12-10
1.1	Updates for MSC version 22.5.1 & nPlatform 2.5.2A	2025-12-22
1.2	Updates for nPlatform 2.5.3	2026-01-27
1.3	Updates for MSC Version 22.9.0 & nPlatform 2.5.6	2026-08-17

2. Introduction

This document provides a summary of software changes for the Multi-Stack Controller Software releases. The Multi-Stack Controller has two upgradable systems outlined below:

- Multi-Stack Controller Bundle: contains all upgradable application software which changes high level behaviour of the Multi-Stack Controller. These have file extension `.fns` or `.fnz`. These upgrades do not always require a reboot. There have been two major releases of the software, version 21 and 22.
- Platform: contains all platform software at the low level which changes core system features and functionality. These upgrades have file extension `.nup` or `.nosp`. These upgrades always require a reboot.

Finding the currently installed version

To find the current version of software installed on your product:

- Platform versions can be found on the pages at `/platform/settings`
- Function versions can be found at the pages at `/platform/functions`

This document lists the changes of each Multi-Stack Controller Release in separate sections. Functionality defined in prior releases will apply to the subsequent releases unless explicitly mentioned otherwise. It is suggested to read all the release notes to capture the full capabilities of a specific release.

3. Multi-Stack Controller Bundles

There have been two major releases of the Multi-Stack Controller bundles.

Its always recommended to upgrade to the most current version available. Please contact support@nuvationenergy.com for guidance/assistance with the upgrade procedure .

3.1. Multi-Stack Controller Bundle Minimum Platforms

Every Multi-Stack Controller has a minimum platform that it supports. Attempting to install a bundle on a platform version less than the minimum will fail. The current minimum platform for Multi-Stack Controller bundles is as follows:

- Minimum platform is 2.5.3 for bundles from 22.7.0 to the current Multi-Stack Controller release
- Minimum platform is 2.3.0 for bundles from 21.3.0 to 22.5.1
- Minimum platform is 2.1.0 (factory) for bundles from 21.2.1 and earlier

There is no restriction using all MSC bundles on higher versions of the platform. Refer to Section 4, “Platforms” for a list of all current platform versions available.

3.2. Multi-Stack Controller Version 22

3.2.1. Bundle 22.9.0

Availability of this package starts on 2026-08

This Bundle is required to have the Platform 2.5.3 or later installed.

3.2.1.1. What's New

- Contains new bug fixes and performance improvements
- Automatically handles the BMS AFE MCU timer overflow issue by ressetting it before the overflow occurs

3.2.1.2. Resolved Issues

- #15805: OI Password Lock feature broken

3.2.2. Bundle 22.7.0

Availability of this package starts on 2026-03

This Bundle is required to have the Platform 2.5.3 or later installed.

3.2.2.1. What's New

- Contains new bug fixes and performance improvements
- Contains new constant voltage current limiting algorithm
- Contains new State of Charge (SOC)-based current limiting algorithm
- Adds new charge capacity-based fault and warning triggers

3.2.2.2. Resolved Issues

- #14845: MSC Logs preview is broken

3.2.2.3. Known Issues

- #15805: OI Password Lock feature broken

3.2.3. Bundle 22.5.1

Availability of this package starts on 2026-01

3.2.3.1. What's New

- SOC tracking algorithm has been replaced with capacity current limiting algorithm

3.2.3.2. Known Issues

- #14845: MSC Logs preview is broken

3.2.4. Bundle 22.5.0

Availability of this package starts on 2025-11

3.2.4.1. What's New

- Contains new SOC tracking algorithm
- Contains new SOC varying capacity algorithm
- Contains OI embedded documentation

3.2.4.2. Known Issues

- #14845: MSC Logs preview is broken

3.2.5. Bundle 22.4.0

Availability of this package starts on 2025-09

3.2.5.1. What's New

- Contains new bug fixes and performance improvements

3.2.5.2. Resolved Issues

- #14119: MSC stack status 'factory_lockdown' does not get updated
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.2.5.3. Known Issues

- #14845: MSC Logs preview is broken

3.2.6. Bundle 22.3.0

Availability of this package starts on 2025-08

3.2.6.1. What's New

- Contains new bug fixes and performance improvements

3.2.6.2. Resolved Issues

- #13935: OI configuration bug during BMS configuration uploads

3.2.6.3. Known Issues

- #14119: MSC stack status 'factory_lockdown' does not get updated
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost
- #11732: Add MSC maximum breaking current to preserve contactor life tracking
- #14845: MSC Logs preview is broken

3.2.7. Bundle 22.2.0

Availability of this package starts on 2025-05

3.2.7.1. What's New

- Adds support for writing to Configurable Modbus points

3.2.7.2. Resolved Issues

- #13846: Configurable Modbus returns list of bytes instead of words

3.2.7.3. Known Issues

- #13935: OI configuration bug during BMS configuration uploads
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.2.8. Bundle 22.1.0

Availability of this package starts on 2025-04

3.2.8.1. What's New

- Supports Authentication using Basic Auth on the nPlatform

3.2.8.2. Resolved Issues

- #12080: Faraday MSC loggers have incorrect bitfield maps
- #13456: Galileo MSC logger has incorrect bitfield map
- #13613: SunSpec Modbus point `StrSt` is inaccurately reporting the contactor position for the group `string` in model 803 and point `St` model 804.
- #13629: MSC aggregation may report battery level invalid data during a brief period of time while transitioning from electrically disconnected to electrically connected

3.2.8.3. Known Issues

- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.2.9. Bundle 22.0.0

Availability of this package starts on 2025-03

This Bundle is required to have the Platform 2.3.7 or later installed.

3.2.9.1. What's New

- Adds support for the latest version of firmware for the G5 High-Voltage BMS with Faraday version 5.9.3
- Adds configurable modbus function
- Supports CI 36 feature on BMS
- SunSpec map generation includes device maps
- Adds nameplate SOC information to SunSpec
- Adds additional SOC/SOH/Short-Shunt logging
- Updates exposed SoC value to comply with SunSpec units (%WHRtg)

3.2.9.2. Resolved Issues

- #12846: MSC upgrade from 21.4.0 to 21.8.0 causes the MSC application to crash
- #13072: MSC full flag showing incorrect value
- #13102: MSC watchdog fault and warning should be configured to disabled (enable: false) since the MSC watchdog fault/warning is not working and will cause a fault/warning unexpectedly
- #13135: Incorrect units used for SoC value exposed in SunSpec
- #13258: BMS version warning trigger showing error with accepted latest version

3.2.9.3. Known Issues

- #12080: Faraday MSC loggers have incorrect bitfield maps
- #13408: VPN function stuck in boot loop caused by openssl dropped support
- #13456: Galileo MSC logger has incorrect bitfield map
- #13846: Configurable Modbus returns list of bytes instead of words
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3. Multi-Stack Controller Version 21

3.3.1. Bundle 21.8.1

Availability of this package starts on 2025-01

3.3.1.1. What's New

- Adds support for G5 High-Voltage BMS with firmware versions 5.9.0 and 5.9.1

3.3.1.2. Resolved Issues

- #11888: MSC not getting all G4 BMS stack faults
- #12485: Temperature values are incorrectly displayed for battery cells that don't have thermistors connected (SunSpec Model 805, group name: lithium-ion-module-cell, point name: CellTmp)
- #12543: Multi-Stack Controller incorrectly calculates the count of operational cell voltage channels
- Resolved in hotfix in 21.8.1: #13072: MSC full flag showing incorrect value

3.3.1.3. Known Issues

- #12846: MSC upgrade from 21.4.0 to 21.8.0 causes the MSC application to crash
- #13072: MSC full flag showing incorrect value
- #13102: MSC watchdog fault and warning should be configured to disabled (enable: false) since the MSC watchdog fault/warning is not working and will cause a fault/warning unexpectedly
- #13135: Incorrect units used for SoC value exposed in SunSpec
- #13258: BMS version warning trigger showing error with accepted latest version
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3.2. Bundle 21.5.0

Availability of this package starts on 2024-08

3.3.2.1. What's New

- Implements SunSpec `string.StrDisRsn` in model 803 `lithium_ion_bank` for stack disable reason
- Implements SunSpec `string.StrConFail` in model 803 `lithium_ion_bank` for stack connection failure reason
- Adds retry configurations for communication failures to stacks
- Adds optional synchronized data sampling with `sync_key` configurations

3.3.2.2. Resolved Issues

- #12049: Multi-Stack Controller SOE does not follow 0% and 100% logic of SOC
- #12046: Cell Interface statistics have incorrect indices
- #11652: Stack communication timeouts can cause momentary invalid data

3.3.2.3. Known Issues

- #12485: Temperature values are incorrectly displayed for battery cells that don't have thermistors connected (SunSpec Model 805, group name: lithium-ion-module-cell, point name: CellTmp)
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3.3. Bundle 21.4.0

Availability of this package starts on 2024-07

This release adds support for the latest version of firmware for the G5 High-Voltage BMS with Faraday version 5.8.1.

3.3.3.1. What's New

- Adds support to the stack connection configurations introduced in G5 High-Voltage BMS with Faraday version 5.8.1
- Updates the estimation of the State of Energy to use the BMS reported charge capacity
- Adds charge level full/empty flags to the pack and stacks statistics and updated pack State of Charge limits
- Updates SunSpec `EvtVnd1` and `EvtVnd1` in model 802 `battery` for alarms and warnings respectively:
  - bit 6 `logger_persistence_fault`

3.3.3.2. Resolved Issues

- #11414: Multi-Stack Controller Stack Status page does not load when missing a stack from configuration file
- #11736: Display fails to start when controller is not connected to the internet
- #11150: Expose Multi-Stack Controller Fault and Warning in SunSpec 800 model vendor bitfields

3.3.3.3. Known Issues

- #11888: MSC not getting all G4 BMS stack faults
- #12080: Faraday MSC loggers have incorrect bitfield maps
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3.4. Bundle 21.3.0

Availability of this package starts on 2024-05

This package is part of the Platform 2.3.0 public release. Significant configuration changes have been made as part of this bundle.

This Bundle is required to have the Platform 2.3.0 or later installed.

3.3.4.1. What's New

- Adds configurability to BMS register logging
- Adds read-only SunSpec Map as part of implementing point `LocRemCtl` in SunSpec 802 model
- Implements SunSpec `EvtVnd1` and `EvtVnd2` vendor specific event bitfields in model 802 `battery` for alarms and warnings respectively:
  - bit 0 `control_watchdog`
  - bit 1 `config_fault`
  - bit 2 `stack_config_fault`
  - bit 3 `current_imbalance`
  - bit 4 `stacks_ready`
  - bit 5 `invalid_configurable_registers`
- Updates SunSpec `string.StrEvt1` in models 803 `lithium_ion_bank` and 804 `lithium_ion_string` to pass through all `Evt1` flags from stack
- Adds configurable SunSpec Modbus scale factors

3.3.4.2. Resolved Issues

- #11049: Multi-Stack Controller UI Data Explorer tab occasionally freezes
- #11098: SunSpec 802 "SetOp" point has incorrect enumerated values
- #10026: Overflowing Modbus points due to large scale factors

3.3.4.3. Known Issues

- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3.5. Bundle 21.2.1

Availability of this package starts on 2024-04

This is a small hotfix release to resolve small bugs in the application and user interface. No new features or major changes are included aside from the small fixes.

This Bundle is required to have have the Platform 2.2.6 or later installed.

3.3.5.1. Resolved Issues

- #10806: Multi-Stack Controller current limits can briefly drop to 0A when a stack disconnects
- #10807: Stack enable flag can be reset when stack communication is interrupted
- #11022: Operator Interface radial gauges offset in some web browsers
- #11058: Some connect/disconnect and clear faults requests are ignored
- #11077: Multi-Stack Controller watchdog warning prevents Multi-Stack Controller operation while enabled

3.3.5.2. Known Issues

- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3.6. Bundle 21.2.0

Availability of this package starts on 2024-02

This release adds support for the latest version of firmware for the G5 High-Voltage BMS BMS with Faraday version 5.8.0.

This Bundle is required to have have the Platform 2.2.6 or later installed.

3.3.6.1. What's New

- Add support for BMS firmware 5.8.x versions

3.3.6.2. Resolved Issues

- #10184: Multi-Stack Controller SunSpec server reports the wrong stack enabled status in the 803 model, point "string.StrSt" and bit 0

3.3.6.3. Known Issues

- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3.7. Bundle 21.1.0

Availability of this package starts on 2023-12

This is the second release after Bundle 21.0.0 (made available in 2023-10) which adds support for the G5 High-Voltage BMS BMS with Faraday firmware version. This new support includes a new version of the user interfaces and a major update to the data models and configuration for the product. Support for older versions of BMS firmware are still maintained and the majority of features for these older versions remain unaltered.

This Bundle must have the Platform 2.2.0 or later installed.

3.3.7.1. What's New

- Access to stack BMS Operator Interface available for all installed stacks through the `/stack/<stack_index>` URL
- Removes HTTP JSONP API at `/bms/gbc`
- Removes SunSpec Modbus TCP draft 3 800 series models
- Replaces components and registers in data model with YAML based data model
- Adds YAML based configuration file aligned with YAML data model
- Adds support for maintaining configurations across software upgrades
- Adds support for latest SunSpec Modbus TCP 800 series models (801, 802, 803, 804, 805)
- Adds configurability for the SunSpec Modbus model base offset and instance counts
- Moves the base offset for the SunSpec Modbus map from 40000 to 0
- Replaces Multi-Stack Controller Operator Interface registers page with read-only data explorer
- Replaces Multi-Stack Controller Operator Interface log download page with simplified page
- Removes Multi-Stack Controller Operator Interface stack details pages
- Historical logging of per cell and per temperature data
- Historical logging of all stack faults and warnings

- Reduces stack limit from 36 to 16

3.3.7.2. Resolved Issues

- #3291: Data measurement downloads for large historical periods greater than 14 days can fail

3.3.7.3. Known Issues

- #10184: Multi-Stack Controller SunSpec server reports the wrong stack enabled status in the 803 model, point "string.StrSt" and bit 0
- #10806: Multi-Stack Controller current limits can briefly drop to 0A when a stack disconnects
- #10807: Stack enable flag can be reset when stack communication is interrupted
- #11058: Some connect/disconnect and clear faults requests are ignored
- #11077: Multi-Stack Controller watchdog warning prevents Multi-Stack Controller operation while enabled
- #12046: Cell Interface statistics have incorrect indices
- #11652: Stack communication timeouts can cause momentary invalid data
- #12206: SunSpec Modbus points `CellVMaxMod`, `CellVMinMod`, `ModTmpMinMod`, and `ModTmpMaxMod` in model 803 `lithium_ion_string` do not index modules correctly on cell voltage and temperature statistics respectively
- #14273: MSC connection status is incorrect when ready stacks are unable to connect
- #14358: MSC Stack Status page shows wrong status when communication is lost

3.3.8. Bundle 17.0.0

Availability of this package starts on 2023-06

This is the first release which adds support for later versions of BMS firmware. It also provides a number of additional features for display and UPS support. Lastly it provides a number of critical bug fixes.

This Bundle must have the Platform 2.2.0 or later installed.

3.3.8.1. What's New

- Adds support for BMS firmware version 'descartes' from factory
- Adds display support through VGA port for BMS Operator Interface with touchscreen support via USB
- Adds support for multiple uninterruptible power supply (UPS) with USB connection for communication
- Ensures contactors are opened before entering service lockout on stacks

- Adds NECS remote access for remote support

3.3.8.2. Resolved Issues

- #5032: Data measurement logging can stop for a few minutes if too many users are viewing historical data
- #6290: Multi-Stack Controller can lose the persisted stack BMS supported version after an upgrade
- #5698: Open wire ratio display does not work properly in some cases in the Operator Interface
- #6006: Unable to import configuration on unlocked Multi-Stack Controller Operator Interface
- #8024: Data measurement logging can stop data collection permanently in rare cases

3.3.9. Bundle 11.0.0

Availability of this package starts on 2022-05

This is the first broadly distributed public release of platform for the nController products. The following sections will outline the major differences between the Grid Battery Controller application features.

This Bundle must have the Platform 2.1.0 or later installed.

3.3.9.1. What's New

- Updates core HTTP JSONRPC API from previous URL `/gbc` to `/bms/gbc`
- Removes functionality for network configuration from previous `gbc_int_ethernet` and `gbc_ext_ethernet` components
- Removes functionality for real time clock configuration from `gbc_rtc` component
- Removes functionality for Modbus RTU serial interface from `gbc_modbus_rtu` component
- Removes functionality for PCS link from `pack_pcs` component
- Moves functionality for manufacturing information from `gbc_mfg_info` component to `/platform/settings` page
- Changes measurement logging page in 'Log' panel Operator Interface to `/logs` page and unified download file with date/time range selection

3.3.9.2. Known Issues

- #11022: Operator Interface radial gauges offset in some web browsers

4. Platforms

4.1. Platform 2.5.6

4.1.1. What's New

- This release contains bug fixes and improvements to the product platform

4.1.2. Resolved Issues

- #14791: Internal database remote code execution possible through device dashboards

4.1.3. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging

4.2. Platform 2.5.5

4.2.1. What's New

- This release contains bug fixes and improvements to the product platform

4.2.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #14791: Internal database remote code execution possible through device dashboards

4.3. Platform 2.5.4

4.3.1. What's New

- This release contains bug fixes and improvements to the product platform

4.3.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #14791: Internal database remote code execution possible through device dashboards

4.4. Platform 2.5.3

4.4.1. What's New

- This release contains bug fixes and improvements to the product platform
- Hides bundled functions in an accordion menu on the platform functions page

4.4.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #14791: Internal database remote code execution possible through device dashboards

4.5. Platform 2.5.2A

4.5.1. What's New

- This release contains bug fixes and improvements to the product platform

4.5.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #14791: Internal database remote code execution possible through device dashboards

4.6. Platform 2.5.2

4.6.1. What's New

- This release contains bug fixes and improvements to the product platform

4.6.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #14791: Internal database remote code execution possible through device dashboards

4.7. Platform 2.5.1

4.7.1. What's New

- This release contains major bug fixes and improvements to the product platform

> Updating to Platform version 2.5.1 is a one-way, non-downgradable update.

> Attempting to restore backups created on previous versions will only restore functions/bundles but not previous Platform versions.

4.7.2. Resolved Issues

- #14455: Bug where authentication feature could be bypassed using exposed ports
- #14457: Bug where commands can be injected through the platform API

4.7.3. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #14791: Internal database remote code execution possible through device dashboards

4.8. Platform 2.5.0: Service Pack 4

4.8.1. What's New

- This release contains major bug fixes and improvements to the product platform

Updating to Platform version 2.5.0 is a one-way, non-downgradable update.

Attempting to restore backups created on previous versions will only restore functions/bundles but not previous Platform versions.

4.8.2. Resolved Issues

- #13125: Unit becomes unrecoverable when the coin cell dies
- #14549: nPlatform logs sometimes fail to download when requested

4.8.3. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #14455: Bug where authentication feature could be bypassed using exposed ports
- #14457: Bug where commands can be injected through the platform API
- #14791: Internal database remote code execution possible through device dashboards

4.9. Platform 2.3.9

Availability of this package starts on 2025-05

This accompanies the MSC Version 22.2.0 release and includes the basic authentication security feature.

4.9.1. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies
- #14549: nPlatform logs sometimes fail to download when requested
- #14455: Bug where authentication feature could be bypassed using exposed ports

- #14457: Bug where commands can be injected through the platform API
- #14791: Internal database remote code execution possible through device dashboards

4.10. Platform 2.3.8

4.10.1. What's New

- Authentication using Basic Auth is now supported on the nPlatform

4.10.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies
- #14549: nPlatform logs sometimes fail to download when requested
- #14455: Bug where authentication feature could be bypassed using exposed ports
- #14457: Bug where commands can be injected through the platform API
- #14791: Internal database remote code execution possible through device dashboards

4.11. Platform 2.3.7

Availability of this package starts on 2025-03

It contains a number of stability improvements.

4.11.1. Resolved Issues

- #11519: Incompatibility with pre 2.3.0 Service Pack restores causing the UPS Manager function to fail

4.11.2. Known Issues

- #5545: Failed updates requiring system rollback
- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies
- #14549: nPlatform logs sometimes fail to download when requested
- #14791: Internal database remote code execution possible through device dashboards

4.12. Platform 2.3.5

Availability of this package starts on 2025-01

No customer-facing changes were made in this release.

4.12.1. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies
- #14549: nPlatform logs sometimes fail to download when requested
- #14791: Internal database remote code execution possible through device dashboards

4.13. Platform 2.3.2

Availability of this package starts on 2024-08

Fixed mDNS being unresponsive after factory restore from Platform v2.3.0 or v2.3.1

4.13.1. Resolved Issues

- #11991: Factory restore after 2.3.0 breaks mDNS

4.13.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies
- #14549: nPlatform logs sometimes fail to download when requested
- #14791: Internal database remote code execution possible through device dashboards

4.14. Platform 2.3.1

Availability of this package starts on 2024-05

It contains a number of stability improvements.

4.14.1. Resolved Issues

- #11544: Broken platform upgrades after factory restore
- #11519: Incompatibility with pre 2.3.0 Service Pack restores causing the UPS Manager function to fail

4.14.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies

- #14549: nPlatform logs sometimes fail to download when requested
- #14791: Internal database remote code execution possible through device dashboards

4.15. Platform 2.3.0: Service Pack 2

Availability of this package starts on 2024-05

This is a major public release of the platform for the nController products. It contains a number of new features, stability improvements and security updates.

Updating to Platform version 2.3.0 is a one-way, non-downgradable update.

Attempting to restore backups created on previous versions will only restore functions/bundles but not previous Platform versions.

4.15.1. What's New

- Added backup restore and log download to emergency web service
- Fixed restore partition status being possibly incorrect after restoring a backup
- Corrupted boot entries no longer initiate a factory restore
- Improved robustness of factory restore after a previous factory restore failure
- Mitigated Terrapin attack vulnerability
- Minor security updates

4.15.2. Resolved Issues

- #10793: Multi-Stack Controller power loss without proper shutdown can prevent device from starting up in rare cases
- #10975: Internal network bridge not forwarding packets between other devices
- #9770: Function installation fails after an uninstall following a previous upgrade

4.15.3. Known Issues

- #5545: Failed updates requiring system rollback
- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #11519: Incompatibility with pre 2.3.0 Service Pack restores causing the UPS Manager function to fail
- #13125: Unit becomes unrecoverable when the coin cell dies
- #14549: nPlatform logs sometimes fail to download when requested
- #14791: Internal database remote code execution possible through device dashboards

4.16. Platform 2.2.6

Availability of this package starts on 2024-02

This is a minor public release of the platform for the nController products. It contains small stability improvements and security updates.

4.16.1. What's New

- Robustness improvements to function restart
- Robustness improvements to configuration import
- Updates operating system packages

4.16.2. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies

4.17. Platform 2.2.0: Service Pack 1

Availability of this package starts on 2023-06

This is the next major public release of the platform for the nController products. It contains new features as well as improvements and fixes to a number of existing features. The following sections will outline the major differences between this version and the previous 2.1.0.

4.17.1. What's New

- Adds HTTPS support
- Adds configurable STP (Spanning Tree Protocol) on network interfaces
- Adds unified YAML based configuration file import/export
- Increase backup restore process speed by 2x
- Adds compressed Bundle support `.fnz`
- Adds data key-space clear on Function install/uninstall
- Adds debug log downloads from the user interface
- Adds function versions and status to `/platform/functions`

4.17.2. Resolved Issues

- #5105: Size in backups page does not properly calculate available space
- #7399: USB hotplug requires reboot

- #6047: Platform downgrades may not revert all platform data
- #6132: Backups filling available space causes a crash loop
- #5074: Erroneous error message displayed during restore of backup
- #6722: Some corner cases can cause platform upgrade failure
- #4603: Logs do not persist after a fatal platform error
- #4810: Uninstalling Functions can cause bad state requiring reboot

4.17.3. Known Issues

- #5681: Socket sometimes fails to open to G4 BMS, causing delay in HTTP logging
- #13125: Unit becomes unrecoverable when the coin cell dies

4.18. Platform 2.1.0: Factory

Availability of this package starts on 2022-05

This is the first public release of platform for the nController products. It introduced support for a new hardware platform and an array of new software features. The following sections will outline the major differences between the Grid Battery Controller platform features.

4.18.1. What's New

- New separate platform user interface available at `/platform`
- Addition of mDNS local URLs in the format `ncontroller-<serial_number>.local`
- Removes `/upgrade` URL from product for platform upgrades
- Separation of platform upgrades from application upgrades using Bundles and Functions
- Ability to change network settings through the user interface at `/platform/networks`
- Ability to create, restore, download, and upload system backups at `/platform/backups`
- Ability to upgrade the platform at `platform/settings`
- Ability to reset the system to a factory state using the "Factory Reset" feature at `platform/settings`
- Ability to reboot and power off the product at `platform/settings`
- Ability to update the date, time, and timezone of the product at `platform/settings`

4.18.2. Known Issues

- #10793: Multi-Stack Controller power loss without proper shutdown can prevent device from starting up in rare cases
- #13125: Unit becomes unrecoverable when the coin cell dies

From time to time Nuvation Energy will make updates to products in response to changes in available technologies, client requests, emerging energy storage standards, and other industry requirements. The product specifications in this document, therefore, are subject to change without notice.

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