



Change Notes MINT

24/03/2026

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Table of Revisions

Date	Version	Description of Changes	Status	Author
19/03/2024	1.0	Release March 2024	Released	Frederik Leempoels
03/03/2025	2.0	Release March 2025	Released	Frederik Leempoels
13/03/2025	2.0.1	Release March 2025	Released	Frederik Leempoels
24/03/2026	3.0.0	Release March 2026	Released	Frederik Leempoels

1 MINT Core PLC Library

1.1 Version 3.0.0

Dependencies

- AXC F 2152 Hardware
- PLCnext Firmware 2024.0.16 LTS (AXC F 2152)
- PLCnext Engineer 2025.0.3 LTS
- PLCnextBase V1.7.1
- IIoT Library V5.0.1

New Features

- AC chargers
 - Improved control function,
 - Fast control: maximum increase PWM signal: 3A, each minute.
 - Local and remote control target.
 - Group limitation for all AC chargepoints
- DC Chargers
 - Fast control: maximum increase 25kW, each 5 seconds.
 - Configurable active power start value (5kW, 7,5kW, 10kW).
 - Local and remote control target.
 - Group limitation for all DC chargepoints
- PV Control
 - PV system: active power control command. Local and remote control target.
 - Group limitation for all PV systems
- Collectors Control
 - Set variable import and export limitation for collectors (= active power)
 - local and remote import and export limitation
 - Improved collector calculation for other voltage levels.
(3N400V is not mandatory anymore)
- General
 - For all assets (AC, DC, PV): priority-based control during increase or decrease active power. 5 levels can be configured.

Bug Fixes

- *

Known Limitations

- *

1.2 Version 2.0.1

Dependencies

- PLCnextBase V1.7.0 – (PLCn V2024)
- IOT Library V5.0.1
- DNS Basic V2.0
- IP Com V12.0
- PLCnEngineer 2024.0.4 LTS
- PLC next Firmware 2024.0.8 LTS

New Features

- *

Bug Fixes

- Bugfixing When multiple AC chargers are switched off, the reactivation (6A) is too fast.

Known Limitations

- Startup of more than 15 slaves can be unstable (Fix planned for V2.1.0)
- DC chargers are regulated down to 5 kW, but are never switched off. Even if the setpoint of a collector is exceeded, the value of 5 kW is maintained. This is to avoid having to release the charging session again.

1.3 Version 2.0.0

Dependencies

- PLCnextBase V1.7.0 – (PLCn V2024)
- IOT Library V5.0.1
- DNS Basic V2.0
- IP Com V12.0
- PLCnEngineer 2024.0.4 LTS
- PLC next Firmware 2024.0.8 LTS

New Features

- Full Master Slave functionality
- Integration DataHub communication in MINT Core library

Bug Fixes

- Bugfixing Power control
- High values on solar power

Known Limitations

- Startup of more than 15 slaves can be unstable (Fix planned for V2.1.0)
- DC chargers are regulated down to 5 kW, but are never switched off. Even if the setpoint of a collector is exceeded, the value of 5 kW is maintained. This is to avoid having to release the charging session again.
- When multiple AC chargers are switched off, the reactivation (6A) is too fast. This can lead to unstable behavior on the collector when switching on and off repeatedly. (Fix planned for V2.0.1)

1.4 Version 1.21

Dependencies

- PLCnextBase 1.3.1 – (PLCn V2022)
- PLCnextBase 1.6.4 – (PLCn V2023)

New Features

- *

Bug Fixes

- Improved power control for DC chargepoints to avoid oscillation

Known Limitations

- DC chargepoint: the control process should be faster for large setups (more than 15 charge-points)

1.5 Version 1.20

Dependencies

- PLCnextBase 1.3.1 – (PLCn V2022)
- PLCnextBase 1.6.4 – (PLCn V2023)

New Features

- New configuration sheet, asset name configuration
- Dual AC chargepoint with shared fuse
- Default user profile: min or max power. This profile is used when an unknown user is using an optimized charging session.
- AC and DC chargepoints can be mixed in one setup.
- Energy report configuration is not needed anymore. Automatic configuration is done based on the available measurements.

Bug Fixes

- Improved power control

Known Limitations



DC chargepoint: the control process should be faster for large setups (more than 15 charge-points)

DC chargepoint: possible oscillation on the control process, depending on the reaction speed of the asset

2 MQTT Broker

2.1 Version 3.0.0

Dependencies

- IOT Library V5.0.1
- PLCnextBase 1.7.1

New Features

- Use of Eventgrid broker & necessary changes included
- Configurable settings (reconnect, consume request,...)
- Diagnostic to MINT logic

Bug Fixes

- Improvements for memory leak when not able to connect to broker

Known Limitations

- *

2.2 Version 2.0.1

Dependencies

- IOT Library V5.0.1
- DNS Library V2.0 (PLCn V2024).
- IP Com Library V12.0 (PLCn V2024).

New Features

- IOT Library update V4.0.2 to V5.0.1 (better performance)

Bug Fixes

- Fixed receiving message bug
- Fixed reconnection bug

Known Limitations

- *

2.3 Version 1.3.0

Dependencies

- IOT Library V4.0.2
- DNS Library V2.0 (PLCn V2024)

- IP Com Library V12.0 (PLCn V2024)

New Features

- Updated internal library versions.
- Added diagnose structure.
- Added logging functionality made possible by diagnose.
- Added the possibility to write the data as string input.
- Added the possibility to read out the data as string.
- Added the possibility to read out the same data multiple times.
- Improved cycle time speed when sending and receiving data.
- Improved connection status stability.
- Improved re-connection when working with unstable brokers.

Bug Fixes

- Fixed issue connection sequence getting stuck.
- Fixed issue receive sequence getting stuck.
- Fixed issue with connection credential string lengths to long.
- Fixed issue where data could not be send when the broker was status connected but was actually disconnected .

Known Limitations

- *

3 MINT Platform

3.1 Portal

3.1.1 Version 2.0.501

Dependencies

- MINT Core V3.0.0 and higher

New Features

- Add templates for new asset types supported by MINT (AC Double charger, DC charger, Wind System and Combined Heat-Power system)
- Improved user management (automatic invitation email)
- Extend “Realtime power consumption and production” graph with all types of producers and consumers
- Improve search for customers with multiple sites
- Improve validation on “Drivers” dashboard by showing errors from MyCapacity
- (*MINT Core V3.0.0 required*) Live “Charger overview” with active status of the chargers

- Support FTP for SynaptiQ integration (SFTP still recommended)
- License generation for PLC's
- Allowing more characters in asset names

Bug Fixes

- *

Known Limitations

- *

3.1.2 Version 2.0.268

Dependencies

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New Features

- Custom dashboards
 - Site map
 - Asset map
- Asset information (Max power, Tag name, Name change,...)
- Adding 'Reseller' layer
- Integrate site config in menu structure
- Add SynaptiQ integration

Bug Fixes

- *

Known Limitations

- *

3.1.3 Version 20240318.1

Dependencies

- *

New Features

- User login through Auth0.
- Creating of customers and sites for a selected customer.
- Adding PLCs to a site and generating of connection strings.
- Connection with external dashboarding.
- Integration of Site Config tool into portal.

Bug Fixes

- *

Known Limitations

- Site Config tool not fully integrated in Portal screens.
- 'Third Party' integration for site not functional.

3.2 Site Config Tool

3.2.1 Version 1.7.0

Dependencies

- MINT Core V3.0.0 and higher

New Features

- Assign new asset types to a PLC (BESS, Wind System and Combined Heat-Power System)
- Publish the config from within the config tool
- New properties for MINT Core V3.0.0
 - Add line voltage and phase voltage to all collectors
 - Add export/import limits to main (top) collector
 - Add apparent power to WT system and CHP system
 - Add start charging threshold to DC charger (5, 7.5 or 10kW)
 - Add yes/no to allow zero active power on DC charger
 - Add max active and reactive power to PV system
 - Add yes/no to mark PV system as controllable
- Site config export "MINT Site Config" now contains site ID
- Improved error handling with invalid configs
- Add export option for Code Generator V3 (to use with MINT Core V3.0.0)
 - Including validation of required properties
- Allow for sub-menus in asset configurations to group related settings

Bug Fixes

- Revised change detection to stop showing "Unsaved changes" when no changes were made
- Fix PV System in PLEEVII export
- Fix PLC naming saying "undefined" instead of the Site ID
- Fix PLC assignment not imported correctly on config import

Known Limitations

- *

3.2.2 Version 1.5.0

Dependencies

- *

New Features

- Configure layer 2 of the site layout (PLC Assignment)
- Add asset type Battery
- Export JSON for Test Protocol
- Export Code Generator
- Add versioning, restoring and publishing
- Improve warnings and alerts
- Multiple other improvements

Bug Fixes

- *

Known Limitations

- *

3.2.3 Version 1.1.0

Dependencies

- *

New Features

- Configure layer 1 of the site layout.
- Asset types supported: AC Charger, AC Double Charger, DC Charger, PV Solar, Building and uncontrorollable load.
- Export to JSON for PLEEVl.
- Extensive editing of the config (duplication, deletion, moving ...).

Bug Fixes

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Known Limitations

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