



Release notes

Firmware release 1.9.0

2026 Q1

Introduction

Dear valued customer and partner of ChargeLine,

We are pleased to share this document containing essential information and instructions regarding the firmware update 1.9.0 for our chargers. This release includes new features and fixes to enhance functionality, usability, and performance. We encourage you to share this valuable information with relevant stakeholders in your organization.

New features in firmware update 1.9.0

The latest firmware update introduces several new features designed to enhance charger functionality and simplify user operations. Below are the highlights:

- **Support ISO15118-2 (Business Socket only)**
With update 1.9.0, the ChargeLine Business supports Plug & Charge according to ISO 15118-2 and enables advanced use cases for CPOs.
- **Support of Xemex Smart Connect:**
ChargeLine supports the Xemex Smart Connect dongle, so that the P1 or TIC meter can be read out hardwired ensuring robust measurements.
- **Manual fill-in IP address for P1 dongles:**
The installer can manually fill in the IP address of the P1 dongle if it cannot be found automatically.
- **Adjustable Charge Point ID:**
During commissioning, the Charge Point ID can be adjusted to successfully connect to the CPO backoffice if needed.
- **Support of P-Card using Calypso protocol:**
The charger now supports the P-Card using the Calypso protocol, ensuring more compatibility for charging passes.
- **Support of selected Eastron meters:**
The ChargeLine now supports more Eastron meters for more choice for the installer.
- **Authorization via local REST API:**
With this update, you do not need to scan your RFID card when starting a charging session using the local REST API.
- **Other minor improvements**

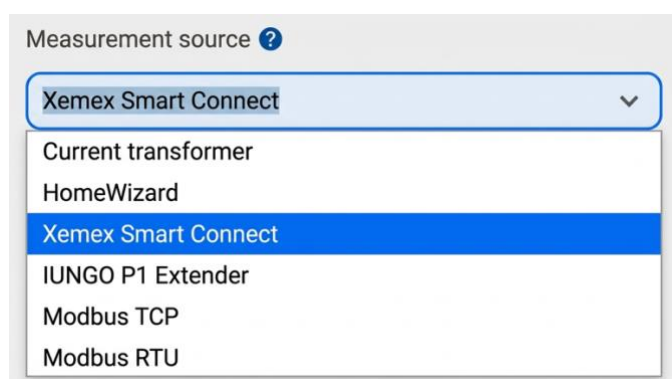
Support Xemex Smart Connect

The Xemex Smart Connect is a new product on the market that can read out the P1 port or TIC port and connect to either the local network via ethernet or WiFi or the ChargeLine directly using an ethernet cable. More information can be found on <https://www.xemex.eu/product/smart-connect-p1/>

Commissioning

Select the Xemex Smart Connect as measurement source in commissioning at the 'dynamic load balancing', 'solar charging'* or 'household limit'* step, and it will try to automatically connect to this source.

*Note that solar charging and household limit are only supported with P1 interface, not via TIC



OCPP parameters

- **BopSource/SolarChargingSource/UserDefinedHouseholdPowerLimitSource:** A new option is added to select the measurement source: "xemex-smart-connect"

Manual fill-in IP for P1 dongles

Sometimes, the ChargeLine cannot find the P1 dongle in the local network. To increase the success rate for installation and commissioning, we introduce the possibility to manually fill in the IP address of the dongle connected to the local network. In this way, there is a higher probability that the dongle will be found and can be used for smart charging purposes.

Commissioning

Select 'Manual' when selecting a dongle as measurement source (for example the HomeWizard). Here, you can fill in the IP address of the dongle. This IP address can either be found in the application of the dongle (if applicable) or by logging into the router and search for the IP address of the device.

Measurement source ?

HomeWizard

Auto select
Manual

IP address

192.168.178.124

Port

80

Measurement source configured, refer to live measurements section to verify the incoming data.

Active current per phase

L1: 0.82 A
L2: 0.00 A
L3: 0.00 A

Adjustable Charge Point ID

The Charge Point ID of the charger (which is the name of the charger at which it communicates to the CPO backoffice) can be adjusted in the commissioning interface. This is beneficial for installers that have been given instructions to install a ChargeLine charger with an ID given by the CPO.

Commissioning

Open the advanced settings after selecting a CPO backoffice from the dropdown menu. There, a new adjustable field has been added called 'Custom Charge Point ID'. You can fill in the preferred ID.

AUTHORISATION



This charger can be configured in either "Managed" or "Unmanaged" mode. In managed mode, a charge point operator validates the authorisation. In unmanaged mode, the charger handles authorisation itself.

Managed

Unmanaged

Backoffice

E-Flux

Preset

Default

Backoffice URL

wss://ocpp.e-flux.nl/1.6/e-flux

APN

m2m.services

Advanced settings

Hide advanced settings

Custom Charge Point ID

PBLR-0000428

Adjust the identifier to your liking and select "save". You can now continue to commission the charger. Once the commissioning has been completed, the charger will connect to the CPO backoffice using the newly given Charge Point ID.

Advanced settings

Hide advanced settings

Custom Charge Point ID

Other-ID-123

OCPP parameters

- **CustomCustomerId:** This key can be used to remotely adjust the Charge Point ID of the charger.

Notes:

- If an incorrect identifier has been given, the charger might not connect to the CPO backoffice. Please ensure that the newly given identifier is correct!

Support of P-Card using Calypso protocol

The chargers now support the P-Card using the Calypso protocol. This setting has been turned on for our ChargeLine off-the-shelf chargers. This functionality can be activated via the CPO backoffice, if desired.

Please reach out to your account team if you use the Calypso protocol for other charging passes than the P-Card, so that it can be integrated into our products as well.

OCPP parameters

- **RfidPCardsAllowed:** Use this parameter to enable or disable reading out the P-Card.

Support of selected Eastron meters

The charger now supports additional Eastron meter variants: SDM630MCT-MOD-MID, SDM220 and SDM230.

OCPP parameters

- **BopSourceParameters/SolarChargingSourceParameters/UserDefinedHouseholdPowerLimitSourceParameters:** When selecting "modbustcp" as source, the "sdm630mct" can be selected as well, representing the Eastron SDM630MCT-MOD-MID meter. When selecting "modbusrtu" as source, "sdm220", "sdm230" and "sdm630mct" can be selected, representing the Eastron SDM220, SDM230 and SDM630MCT-MOD-MID meters respectively.
- Please read the SPD with OCPP configuration parameters provided with the release notes for more information about the configuration of OCPP parameters for Modbus meters.

ISO 15118-2: (Business Socket only)

This enhancement establishes the foundation for cutting-edge charging features such as "Plug & Charge" (automatic authorization directly via the charging cable) and intelligent communication between the charging station and the vehicle.

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ChargeLine