



Release Note

EVlink Pro AC firmware version 1.3.0

Date : 16-06-2023

What's new? (summarized)

Improvement:

- **Compliance with UK regulation**
- **New feature OCPP Security profile 1 & 2 integration**
- **No unexpected illegal data address with Modbus (see more details below)**
- **Cable insertion user experience improved**

- **Document scope**

This release note presents the new features and modifications added to EVlink Pro AC charging station. The firmware release does not apply to current EVlink Smart Wallbox and Parking.

This release for the EVlink firmware is a mandatory update to benefit from the full functionalities of EVlink Pro AC range with a manufacturing date < April 21, 2022.

Download the update file from the [Schneider website](#)



- **Firmware upgrade :**

There are 3 possibilities to upgrade the firmware of EVlink Pro AC

- A. With eSetup
- B. Through OCPP
- C. With EV Charging Expert

Here under the description for each use-case:

A. Firmware upgrade procedure with eSetup

The procedure described here allows the firmware to be updated when the charging station is installed:

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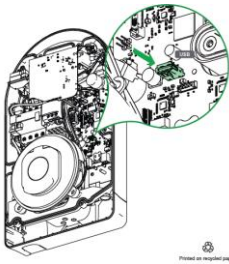
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- Proceed to the firmware update according to the Installation Guide NNZ19403 chapter 26



Download and unzip on the root of your USB key the folder named: “firmware update from eSetup (USB)”

In case of update from version 1.0.3 and above:

On eSetup you can install file named “update since FW 1.1.X (1.3.0 official)”

In case of update from version 1.0.2 and under:

On eSetup you can install file named “update from FW 1.0.X (minibundle)”

NOTE:

- For more details for the upgrade process with eSetup, please refer to document “How to update EVlink Pro AC to FW 1-3-0 through eSetup”
- When updating your charging station with an USB key, we advise you to select a well-known brand as for example: Sandisk, Kingston, Philips and not use giveaways keys. Also, they key must:
 - Be slow formatted in FAT 32 or exFAT only (no NTFS)
 - Have a minimum required capacity of 100 MB
 - Be USB 2.0 or 3.0

When updating charging stations, we recommend you to bring 2 USB keys on site for more security or test it before traveling.

B. Firmware upgrade procedure (OCPP)

If the charging station is already in service and connected to a supervision system, the update is then possible remotely from the supervision, which avoids a physical intervention on the charger.
The firmware update can be done from an OCPP supervision and requires a charging station reboot, led by OCPP.

NOTE: to connect to a supervision in **wss** and **https**, the charging station must be at the current date and time.
Firmware update can fail. If it happens, please retry.

C. Firmware upgrade procedure with EV Charging Expert

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If the charging station is already in service and connected to EV Charging Expert, the update is then possible remotely from EV Charging Expert, which avoids a physical intervention on the charger.

Charging station updates can be done through EV Charging Expert user interface: see EcoStruxure EV Charging Expert user guide: [DOCA0163](#)

NOTE: please don't forget to unzip the rauch file. For more details, please see document "How to install pro AC firmware thru EVCE"

3) What's new since 1.2.1?

Corrections & Improvements:

- **Compliance with UK regulation**
- **New feature OCPP Security profile 1 & 2 integration with OCPP, not configurable yet with eSetup but only thru OCPP standard request for certificates signed by certification authority**
- **No unexpected illegal data address with Modbus:**
Registers between 2999 and 3222 are reserved.
Registers between 4000 and 4079 are also reserved.
If you read these registers, value 0xFFFF is automatically sent back.
- **Cable insertion user experience improved:**
 - **Occurrence of cable error decreased**
 - **Time needed to raise an insertion error decreased to obtain information quickly (compliance with latest hardware motherboard reference MFR67543 revision 10 or above)**
- ReserveNow requests with an expiryDate in the past are now Rejected

Known limitations and issues

- **Firmware Update:**
 - **We highly recommend to not update a charging station if a vehicle is charging on it. If it happened and the charging station is no longer able to charge, reboot the charging station**
 - Charging station may have occasional update failures; please retry the firmware update if it failed
 - From firmware update from version below 1.1.6, if the charging station is unavailable but we upgrade the firmware, after the update the state is available. It will not happen for the next time.
 - When state of the charging station is unavailable, the charger pass to Available after the Firmware update
 - In case of update from version 1.0.1 or 1.0.2, the charger may untimely switch to status unavailable. Please use OCPP command changeAvailability to fix this if it occurs
- **RFID authentication:**
 - ISO/IEC 14443A/B and ISO/IEC 15693 technology used in this product have known security limitations that may allow a malicious user to clone a badge.
Badges should ideally be emitted for individual users: the usage of a shared badge between several users should be avoided whenever possible to limit risks related to badge duplication.
 - After a back to factory or with a product from factory in firmware version 1.3.0 on the first start, it's often impossible to add badge. User or Admin badge should so be added manually with eSetup.

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- **Embedded 4G modem only:**
 - Commissioning on eSetup for iOS: do not click on Restart Later button when configuring Modem and DHCP because it will just cancel the settings done. Also signal strength is not working properly. It will be fixed for new iOS version superior of 10.2.1
 - To activate DHCP server you need (in network settings tab) to switch DHCP OFF, save and restart then go back to network settings and activate your DHCP server (bottom of the list). See video https://youtu.be/xoO-q_HU-h8?t=89
 - Possibility of download failure if downloads of several charging station are set at the same time → don't update all the charging station at the same time for the moment
- Ring topology IT network is not supported yet
- For pro AC with embedded MID meter, Meter Stop in the Stop transaction request is equal to "-1" instead of the real value, in case of power outage longer than 10 min. It is possible to modify this parameter (10 min) in OCPP with the parameter RestoreTimeout.
- For charging station supervised, when Pro AC is offline, the cable is sometimes still locked after the transaction. OCPP request can unlock the cable when connection with supervision is restored
- First transaction in Offline mode is rejected

Other resources

- Availability of EVlink Pro AC firmware packages on se.com with [following link](https://www.se.com/ww/en/product-range/23107242-evlink-pro-ac/?parent-subcategory-id=80408).
<https://www.se.com/ww/en/product-range/23107242-evlink-pro-ac/?parent-subcategory-id=80408>
- FAQ Pro AC on [se.com](https://www.se.com)
- EVlink Pro AC installation guide [NNZ1940301](#)
- [EcoStruxure EV Charging Expert release note](#) for firmware version SP10 4.1.0
- EcoStruxure EV Charging Expert User Guide [DOCA0163](#)
- OCPP connectivity guide is reference [GEX1969200](#)
- Modbus connectivity guide is reference [GEX1969300](#)

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