EVlink Pro DC 180

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Release Note

EVlink Pro DC 180 firmware version 2.5.10
Date: 15-06-2024

What's new? (summarized)

Improvement:
- **Added new language support on HMI: Bulgarian, Magyar, Italiano, Finnish, Czech, Ukrainian.**
- **Optimized OCPP stack for interoperation.**

- ## Document scope

This release note presents the new features and modifications added to EVlink Pro DC 180 charging station.
The firmware release does not direct apply to EVlink Pro 180 DC with M4 firmware version lower than 132. See "Known limitations and issues" of this note for detail.

This release for the EVlink firmware is a mandatory update to benefit from the full functionalities of EVlink Pro DC 180 range.

- ## Firmware upgrade :

There are 3 possibilities to upgrade the firmware of EVlink Pro DC 180
- A.   With webpage from the charger.
- B.   Through OCPP
- C.   Upgrade through EV Charging Expert

Here under the description for each use-case:

A.   Firmware upgrade procedure with firmware webpage

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

- **Firmware(CCS2+CCS2) (Used for EVD1S180TBB_EVD1S150TBB_EVD1S120TBB)**
  firmware_(A7_2.5.10)_(M4_133)_(SECC_1.6.1)_(CCS2+CCS2)_signed.zip
  SHA256 checksum:
  42e1a63a80a81045d92668688b876006af474e3b68324b8156d3c823fbde682c
- **Firmware (CCS2+CHAdeMO) (Used for EVD1S180THB_EVD1S150THB_EVD1S120THB)**
  firmware_(A7_2.5.10)_(M4_133)_(SECC_1.6.1)_(CCS2+CHAdeMO)_signed.zip
  SHA256 checksum:
  be1d49ef4179fb0185d41999e6af3ed2202d02f771b7578a385311aeb04d31a1

Access charger webpage, login and go to maintenance page to upload the firmware package and start upgrade. For more details, please refer to commissioning guide.

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** or download FW package via **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

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

• What's new since 2.5.02?

Corrections & Improvements:

- Added 6 new languages support in HMI.
- Added multiple language support for payment terminal related HMI.
- Optimized OCPP messages to enhance the compatibility of interoperation.
- Optimized HMI language selection logic after upgrade.
- Optimized the performance of charge profile processing.
- Optimized input check rule of webserver.
- Optimized the speed of online/ offline detection.

Known limitations and issues.

- **Offline Charge**
    - In case multiple transactions had been started and stopped during OCPP offline period, only one transaction data will be uploaded after online. This issue will be fixed in next release. Disable offline charging (*AllowOfflineTxForUnknownId = false, LocalAuthorizeOffline = false*) is one workaround for avoid miss transaction record during offline.

- **Firmware Update:**
    - In case the existing firmware version of M4 board is lower than 132, it should be manually upgraded by JLINK before doing remote upgrade.
      To check FW version, please login the webpage of charger and check M4 version in System status/Common page/Firmware Version section.
      For M4 board manually upgrade, please contact Schneider Electric support.
    - In case the existing firmware version of A7 is 2.2.14, it should be upgraded to 2.3.16 first then continue upgrade to 2.5.02.
    - In case the charger FW upgrade from 2.3.16 and earlier version, the candidate language of HMI will restore to default four. It can be added via web server if needed.

Other resources

- EcoStruxure EV Charging Expert User Guide DOCA0163
- EVlink Pro DC 180 installation guide GEX4300800
- OCPP connectivity guide is reference DOCA0311EN

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