

Release Notes 2.1

ABL.R&D.Software.SBC

Revision: 1.3

Date: 29.08.2024

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1 Document Description

Scope	<p>This document describes the releases of the new generation of the Charge Point Software delivered with the ABL Single Board Computer SBC. This software implements a smart controller for the ABL charging stations consisting of wall-boxes and charging poles. The following sections give an overview of the integrations and releases of the software.</p> <p>Product names, brands, and other trademarks mentioned in this document are the property of their respective trademark holders.</p>
Purpose	
References	

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Date	Document Version	Author	Description of change
02.05.2024	1.0	Iris Merkus	inital version for Software 2.1

Date	Document Version	Author	Description of change
15.07.2024	1.1	Iris Merkus	final version for Software 2.1
13.08.2024	1.2	Andreas Mull	final version for Software 2.1p1
29.08.2024	1.3	Iris Wintergerst	Software 2.1p2

2 Variants

2.1 Hardware

So far, the current version 2.1 SBC Charge Point Software is only compatible with the boxes of the product series eM4. Compatibility with the series eMH2 and eMH3 will be released with one of the following software versions. The following SBCs are supported:

- SBC4
- SBC5

2.2 Software

Each version of the SBC Charge Point Software is identified by a release label. This label is represented by the running software as well as in the update file names, as follows:

Release label: <major>.<minor>[p<patch-level>]

- Major: The major software version. Only stepped when minor numbering is maxed out or when major feature sets have been added to the software.
- Minor: The minor software version. Stepped on each new release.
- Patch level: A sub-version used for fixes to the current release. The first patch/bug-fix for a release is numbered starting at one.

Example: 2.1p1

In update file names the release label is embedded as follows:

File Name: <update-type>_<release-label>.yar

- Update type:
 - “update”: A full software update.
 - “incremental”: An incremental update, may rely on some base software version that has to be installed on the target, already. If this pre-requisite is not met, the updater routine rejects the incremental update.

Example: update_2.1.yar

3 Releases

The feature set of the version 2.0 includes the complete scope of the features available with the version 1.8p3 and introduces new features listed below.

For information on the complete feature set refer to the integration manual.

The version of the relevant software for Eichrecht is independent from the SBC Charge Point software. Therefore, Eichrecht software has a separate release notes document.

An update of the SBC Charge Point software will not influence the version of the Eichrecht software version.

3.1 Version 2.1p2

Date: 28.08.2024

This software contains:

- SBC software version: 2.1p2
- ESP firmware version: 1.13.16

This software is compatible with:

- App versions: 1.*.212
- Eichrecht version: 1.5

Resolved issues:

- fix issue while grouping with Android Phones

Known issues:

- Sporadically, single products are not connecting to the controller's SBC after grouping or re-boarding. To get those products to connect, a manual reset is necessary.

3.2 Version 2.1p1

Date: 13.08.2024

This software contains:

- SBC software version: 2.1p1
- ESP firmware version: 1.13.16

This software is compatible with:

- App versions: 1.*.211
- Eichrecht version: 1.5

New features:

- Added various backend templates:
 - eRound Mobile
 - eRound Public
 - ChargePilot (The mobility house)
 - Connectned LAN
 - Connectned Mobile

- Swarco LAN
- Swarco Mobile
- Polarstern LAN/WLAN
- LMS (LAN)
- LMS (LTE)
- Road (LAN)
- Road (LTE)
- Greenflux (LAN)
- Greenflux (LTE)
- Freshmile (LTE)
- Mobiflow (LTE)
- Ezcharge (LTE)
- ChargePoint EU (LAN/WLAN)
- ChargePoint EU (LTE/Mobile)
- Provided configuring AR4100 vs. BK6-22-300 (§14a EnWG) via OCPP.

Resolved issues:

- Fix acquisition of energy meter's public keys.
- Improve stability of products connecting to controller.
- Workaround against losing time of hardware RTC during normal operation
- Minor stability improvements

Known issues:

- Sporadically, single products are not connecting to the controller's SBC after grouping or re-boarding. To get those products to connect, a manual reset is necessary.

3.3 Version 2.1

Date: 10.07.2024

This software contains:

- SBC software version: 2.1
- ESP firmware version: 1.12.0

This software is compatible with:

- App version: 1.*.210
- Eichrecht version: 1.5

New Features:

- Reboarding of an already configured group over the Configuration App
 - adding or removing Extenders
 - changing order of Extenders
 - changing backend parameters
- Option to reduce power according to BK6-22-300 (§14a EnWG)
- Added possibility to swipe RFID before plugging in the car
- Added possibility to swipe RFID to stop charging
- Added new backends to the provider list

Known Issues:

- In case of administrated networks or M2M Sim Cards access to the PTB time server is not allowed. This can cause meter values showing -1. To provide access contact your local IT administrator or network provide.

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- Under rare circumstances the configuration of the energy meter can fail. To solve the problem, we recommend a factory reset and a reconfiguration of the group.
 - In certain cases a software update to software 2.1 needs to be triggered via Configuration App or Web-Admin.
 - Sporadically, the public keys for the energy meters are not correctly acquired. This leads to inoperable charge points of products.