Release Notes 2.0

ABL.R&D.Software.SBC

Exported on 04/25/2024

Table of Contents

1 Variants 4
1.1 Hardware 4
1.2 Software 4
2 Releases 5
2.1 Patch Release 2.0p10 5
2.2 Patch Release 2.0p9 5
2.3 Patch Release 2.0p8 6
2.4 Patch Release 2.0p7 6
2.5 Patch Release 2.0p6 7
2.6 Patch Release 2.0p5 (not externally released but part of 2.0p6) 7
2.7 Patch Release 2.0p4 7
2.8 Patch Release 2.0p3 7
2.9 Patch Release 2.0p2 (not externally released but part of 2.0p3) 8
2.10 Patch Release 2.0p1 8
2.11 Version 2.0 8

Document Description

Scope	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. Product names, brands, and other trademarks mentioned in this document are the property of their respective trademark holders.
Purpose	
References	
Distribution	

Document Change History

Date	Revision	Description of change	Author

1 Variants

1.1 Hardware

So far, the current version 2.0 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

1.2 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: 2.0p1

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_2.0.yar

2 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.

2.1 Patch Release 2.0p10

Date: 2024-04-24

ESP firmware version: 1.10.0

Resolved Issues:

- Allows setting system time via app

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 provider.
- 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.

2.2 Patch Release 2.0p9

Date: 2024-03-15

ESP firmware version: 1.10.0

App version: 1.209

New Features:

- Re-boarding for load management
- Re-boarding for AR4100 input
- Onboarding of extenders directly via LAN
- Experimental feature: Operation in standalone LAN without DHCP (use at your own risk)
- Support scanning QR codes for onboarding

Resolves Issues:

- Improved stability of forced update during onboarding and software update
- Repaired multi group configuration
- Avoid ambiguities for energy meter readings: Also intermediate unsigned readings have two digits precision after decimal point.
- Improved reliability to discover extenders
- Supply limit can be set by installer on Web-Admin
- Fix unintended Available state in OCPP when authentication fails as it could cause problems with RemoteStart.
- Fix sticky faulted state after switching on RCCB
- Fix infinite waiting screen due to load management reconfiuration.
- Improve stability over IP address changes (triggered by DHCP)

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.
- 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.
- Configuration of local operation mode with RFID is currently not available via app

2.3 Patch Release 2.0p8

Date: 2023-12-18

New Features:

- The app is now available in Italian and French
- Patches and improvements to configuration via app
- Patches and improvements to the SBC Charge Point software

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.
- 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.
- Configuration of local operation mode with RFID is currently not available via app

2.4 Patch Release 2.0p7

Date: 2023-11-23

New Features:

- Patches and improvements to configuration via app
- Patches and improvements to the SBC Charge Point software

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 provider.
- 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.
- Configuration of local operation mode with RFID is currently not available via app

2.5 Patch Release 2.0p6

Date: 2023-10-30

New Features:

- Patches and improvements to configuration via app
- Patches and improvements to the SBC Charge Point software

Known Issues:

- Configuration of local operation mode with RFID is currently not available via app

2.6 Patch Release 2.0p5 (not externally released but part of 2.0p6)

Date: 2023-09-22

New Features:

- Support for eM4 Single
- The app is now available in Dutch
- Patches and improvements to configuration via app
- Patches and improvements to the SBC Charge Point software

Known Issues:

- Configuration of local operation mode with RFID is currently not available via app

2.7 Patch Release 2.0p4

Date: 2023-08-25

New Features:

- Patches and improvements to configuration via app
- Patches and improvements to the SBC Charge Point software

Known Issues:

- Configuration of local operation mode with RFID is currently not available via app

2.8 Patch Release 2.0p3

Date: 2023-07-21

New Features:

- Cable locking
- Patches and improvements to configuration via app
- Patches and improvements to the SBC Charge Point software

Known Issues:

- Configuration of local operation mode with RFID is currently not available via app
- Under rare circumstances the Control Board does not show Extender boxes after grouping. Only the Controller box is visible. The problem only occurs if more that one group is configured one right after the other. To omit the problem, we recommend closing the app after every group configuration. If this issue

occurs, please reset the Controller as well as all Extender boxes by pressing the hardware button for >10 seconds, close the app and start a new configuration.

2.9 Patch Release 2.0p2 (not externally released but part of 2.0p3)

Date: 2023-06-22

New Features:

- Patches and improvements to network connectivity

2.10 Patch Release 2.0p1

Date: 2023-05-17

New Features:

- Fixed production issue of 2.0

2.11 Version 2.0

Date: 2023-05-12

New Features:

- Support for easy configuration and commissioning via app for iOS and Android
- Backend/OCPP connection via LAN, WLAN or LTE
- Wired & wireless group installation, each group up to 30 charge points, multi group with up to 100 charge points
- Extended load management functions for multi group
- Secure IP based group and cluster communication
- Energy meter for dynamic load management via Modbus TCP
- Standardized application programming interfaces for integration into external systems (OCPP Smart Charging, Modbus TCP)
- Context based control for including signatures into OCPP meter values
- Improved on charge point meter: provided energy, connector ID, and status
- Support for remote controlled load-reduction conforming to AR 4100
- Improved overview of charging installation in web admin
- Improved logging

Known Issues:

- Under rare circumstances the system can be reset unintentionally. To solve the problem, the group must be set up again via the app.
- Under rare circumstances the box can erroneously show that the charging process is still running, although already unplugged. If the web admin does not show the correct state after approx. 10 minutes, we recommend a soft reset.
- Configuration of local operation mode with RFID is currently not available via app
- Cable locking is currently not available