

Release Notes 2.4

ABL.R&D.Software.SBC

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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	

Document information

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Document change history

Date	Document Version	Author	Description of change
18.11.2025	1.0	Andreu Garcia	inital version for Software 2.4p1
xx.xx.xxxx	1.1	Andreu Garcia	upgrade release date

2 Variants

2.1 Hardware

The current version 2.4 SBC Charge Point Software is compatible with the boxes of the product series eM4. The following SBCs are supported:

- SBC4

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: 2.4p1

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_2.4.yar

3 Releases

The feature set of the version 2.4 includes the complete scope of the features available with the version 2.3 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 2.4

Not released to production or App

3.2 Version 2.4p1

Date: xx.11.2025

This software contains:

- SBC software version: 2.4p1
- ESP firmware version: 1.16.0

This software is compatible with:

- App version: 1.*.240
- Eichrecht version: 1.5

Update Requirements

- Updating to version 2.4p1 is only supported from version 2.3.
- If your current version is lower than 2.3, please first update to 2.3 before proceeding to version 2.4p1.
- This requirement is due to RED (Radio Equipment Directive) compliance with more secure encryption standards
- The 2.4p1 is only compatible with iOS devices

Changes:

- Support of RED conformity
- Update Components (Linux kernel 4.19.325-cip120, Java 8u442, OpenSSL 1.1.1w)
- Bruteforce Protection: Limit number of failed logins
- SSH hardening / option to disable it (ASD-8249/ASD-8343)
- Introduce SSL support (ASD-8345)
- Encryption of diagnostic files (ASD-8495)
- Remove Prometheus support (ASD-8250)
- New WebManager for Commissioning
- Added password management: creation and change options for improved security.
- Integrated configuration of OCPP, connectivity and load management settings.
- Enabled fast device grouping, optimized for wired topologies.
- Option to enable legacy WebAdmin
- Improved HMI behaviour including new states for update of ESP firmware

- Deprecation of OCPP version 1.5

Improvements and Resolves Issues:

- Fix of OCPP parameters changed to default after reboot
- Resiliency in NTS in case of ERK
- Improvements in update process of Extenders
- Introduction of new backend templates

Known issues:

- The new WebManager currently has limited functionality for specific features, including:
- Creation of wireless groups
- Enabling local RFID mode
- Performing certain minor setting changes