

1 Introduction

This document summarizes purpose, new features of the new Software Version: 90 for the Projects Bordline® M130/M260 auxiliary converter. It also includes the features of the latest firmware: d-004440-046972 for the Duagon module.

2 Release Notification

2.1 Major bug in former SW and FW

- DC link overvoltage during loco operation on line
- Output not available when the OHE recovers from input voltage dip in a short duration
- Life sign missing with Duagon firmware version d-004440-035251

2.2 New features and extensions in the converter SW

- Protection feature has been enabled for monitoring the DC link voltage at different levels. This enables the converter to not trip unnecessarily when it encounters the spikes in DC link voltage which can occur due to input voltage variation.

2.3 New features in Duagon FW

- Debug messages which earlier were causing the disturbance in CAN processing and ultimately the life sign value are now only available in diagnostics mode, thus addressing the issue of life sign missing.

3 Release Approval

- By the verification of modification, this software and firmware release is valid for installation or downloading on the target system.

3.1 Verification of Modification

All the modifications of the new SW and FW release will be verified by testing the new functionality on the converter on the vehicle and made valid to install in other locomotive.


4 Required tools / systems and versions for installing this SW

Tool Name	Version	Manufacturer	Function
PEC Tool	2.5.2.1	ABB	Download tool

5 Field Action

The new software and firmware version will be downloaded in one of the locomotive to confirm the implemented feature and to complete the required filed trial to validate the software.

Electric Loco Shed	Locomotive Type	Locomotive No.	S/w Installation Date
ELS - TKD	WAG-9	32225	25-May-2019

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