

c-BMS release notes



New in this release:

- ✓ New BMS error handling
- ✓ CANopen support
- ✓ Bugfix for the BMS calculated value:
DYN_LIM_I2T_REMAIN ID 31

BMS Creator:

- ✓ Match the new BMS error handling
- ✓ Converting function for older configuration files
- ✓ Sub-minor firmware version number added

c-BMS version 2.5.0

ABOUT THIS RELEASE

The c-BMS v2.5.0 release includes changes for the MCU firmware and associated Creator PC support tool.

FIRMWARE FEATURES

The new BMS error handling has changed from the previous method with error escalation of severity levels into individual timing of error reactions that is configurable for each BMS state. Furthermore, the error reporting for selected errors can be filtered and changed to alternative behaviour like e.g. sticky errors that require BMS reset before a reported error is cleared.

CANopen support via the BMS i-CAN connection:

- ✓ SDO access to all BMS data
- ✓ 40 TPDO's and 10 RPDO's, all dynamical programmable
- ✓ TIME support for setting of BMS time and date.
- ✓ EMCY support for error reporting
- ✓ CANopen node ID is configurable and also possible to set via GPIO inputs

The BMS time and data is set-able to match real time and date via CANopen TIME function. The BMS use e.g. time and date stamps for error logging.

Fix of calculation overflow bug for the i2t value in previous versions where the DYN_LIM_I2T_REMAIN (ID 31) sometimes shows wrong values.

The PC Creator includes new configuration parameters for setting up the new error handling in the BMS.

The BMS firmware version number includes a major version number, a minor version number and a sub-minor version number, all separated by a dot. In this version is also the sub-minor version number of the connected BMS displayed in the Creator.

Known issues:

Custom data dropdown lists are empty in the Creator. Work around is to upload the configuration that makes a following dropdown list available

On behalf of the Lithium Balance Support and R&D team

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