PRODUCT UPDATE – MID VARIANT CHARGEPOINTS

Firmware v1.8.0 release Terra AC Wallbox

Dear customer,

The purpose of this communication is to inform you about the release of a new firmware version for ABB Terra AC Wallbox (MID charger variant). This release improves the performance and reliability of the chargers and provides enhancements to the embedded firmware. This document provides an overview of main improvements and issues solved. We thank you for your feedback and we continuously invite you to provide us with ideas and suggestions to improve our products.

This release has known issues as mentioned in the section Known Issues.

Best regards,
On behalf of the ABB E-mobility team,

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Product Management Lead EMEA

Applicable products

This release is applicable to:

- Terra AC Wallbox MID charger variant.

Changes between firmware version 1.6.9 and 1.8.0

The table below describes the changes between the previous firmware version and the new release.

Features
Static IP support
Basic FTP GetDiagnostics and FirmwareUpgrade (LAN & 4G) support. Please note that there are different variants of FTP upgrade methodologies and not all are supported. In our OCPP implementation document, more information can be found on the supported use cases. In case of any compatibility issues, please reach out to us.
[OCPP] Add Charger SN to chargePointSerialNumber of BootNotification
Ability to lock external charging cable in socket variant charger (Feature requires compatible ChargerSync or TerraConfig application)
UK Smart Charging: Send randomized delay value to mobile applications
FeliCa RFID card support
[OCPP] Customized command to change NFC power
Change of charging session idTag for Free Vending Scheduled charging sessions

Bugs
Force release of cable is not been implemented correctly in Bluetooth SDK
Charger reboot caused by P board crash
Improved LAN connectivity stability
[OCPP] Improve charging status reporting behavior after overcurrent events
[OCPP] Occasionally, charging sessions are missing metervalue.end
[OCPP] The value of power and/or current for L1 or L2 or L3 (3ph charger) in the “meterValue.begin” and “meterValue.end” OCPP message is displayed incorrectly. This issue does not affect the energy readings
HTTP Basic Authorization will fail while trying to connect to ABB default’s backend from a configured 3rd party OCPP backend connection
The wake-up mechanism does not take into consideration a fault state event
When the PE between the charger and the EV is lost, the charger will incorrectly show a charging session is still ongoing
When PP is available, PWM is incorrectly set to 53%
Improved 4G network connection stability and recovery methodology after disconnection
When start charging at 0A, the S2 from the EV side closes and open, occasionally resulting in an error state of charging station
When starting a charging session with a “Randomized Delay” time active, the S2 from the EV side is closed
[OCPP] The total current value in the “meterValue” OCPP message is not equal to the sum of the current value of the three phases. This issue does not affect the energy readings

Changing current limits in TerraConfig application could influence current limitations set in ChargerSync application
Fallback time and fallback limit relationship with network connection should be removed
When a fault is triggered (Overvoltage, Overcurrent, Undervoltage….) the charging session can be restored while S2 relay is still sending a PWM
Modbus connection error not properly reported in OCPP and LED
Charging stations with fixed cable can go into E-lock failure

Known issues
[OCPP] In case you start charging session with 0 A and have dynamic load management enabled, the charger will send a double suspendedEV status notification
[OCPP] In case of a -12V fault, charger sends a wrong fault description/stop reason
Bluetooth connection success rate improvement
Delay of updating LED light in case of Wi-Fi connection problem
[OCPP] vendorid is not consistent in OCPP messaging
The value of voltage in the “meterValue.begin” OCPP message may result equal to zero in case of reboot or power failure