

PRODUCT UPDATE – CE AND MID VARIANT CHARGEPOINTS

Firmware v1.6.9 incremental release

Terra AC Wallbox

Dear customer,

The purpose of this communication is to inform you about the incremental release of a new firmware version for ABB Terra AC Wallbox (CE and MID charger variants). 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. The new firmware package will be made available in the ChargerSync portal, TerraConfig app and ChargerSync app. We thank you for your feedback and we continuously invite you to provide us with ideas and suggestions to improve our products.



This release is an incremental release and has known issues as mentioned in the section Known Issues. One important notice to be made is that for (online) chargers that use dynamic load management and have an unreliable network connection, it is recommended to set the fallback limit at a current of 6A at minimum (in case this capacity is always available). While releasing this firmware version to the market, ABB will continue to gather feedback from the market and continue to improve the firmware version 1.6.

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

J.L.R. Visser
Product Management Lead EMEA

Applicable products

This release is applicable to:

- Terra AC Wallbox CE and MID charger variants.

Changes between firmware version 1.6.6 and 1.6.9

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

Bugs
Reduce relay switching under load scenarios
Improve the relay stuck event detection logic
Improvement of the forced release of cable functionality
In some special cases, the charging session information was not saved in internal memory of charger
Handle http response is not "HTTP/1.1 200 OK" in http OTA process
After performing a remote hardware/software reset during charging, stop transaction message could be lost
Missing of Transaction.End information in SampledValue
Support a WLAN password with maximum 63 characters
Rounding error in displayed charging energy in ChargerSync application
Rounding off Energy Delivered is incorrect by APP
Multiple stoptransactions with same transactionID
Improvement of the dynamic load management behavior
Improvement of configuration process of WiFi connection to charger
MID variant charger: In some use cases, the current limitation set by charger is lower than expected from the different load management input channels
Forward/backward compatibility for external RFID card enable/disable functionality
FW alignment to support the different p-board variants
DHCP Renewal issue
Internal overcurrent protection optimization for socket variant chargers
Adjust the logic of detecting the gun version's seat plate

The table below describes the known issues of the new release.

Known issues
HTTP Basic Authorization will fail while trying to connect to ABB default's backend from a configured 3 rd party OCPP backend connection
The wake-up mechanism does not take into consideration a fault state event for a wake-up signal
When the PE between the charger and the EV is lost, the charger will incorrectly show a charging session still ongoing
When a fault is triggered (Overvoltage, Overcurrent, Undervoltage....) the charging session can be restored while S2 relay is still sending a PWM
When the PP signal is available, the PWM is incorrectly set to 53%
The value of power for L1 or L2 or L3 (3ph charger) in the "meterValue.begin" OCPP message is displayed incorrectly. This issue does not affect the energy readings

The value of power and/or current for L1 or L2 or L3 (3ph charger) in the “meterValue.end” OCPP message is displayed incorrectly. This issue does not affect the energy readings

The “statusNotification” messages sequence in the OCPP standard is incorrect when a transaction is stopped

The uploading of an offline transaction may be stuck if the “startTransaction” OCPP message response time is too long (in the order of minutes)

When start charging at 0A, the S2 from the EV side closes and then open, occasionally resulting in high temperature faults or CP error (-12V)

When starting a charging session with a “Randomized Delay” time active, the S2 from the EV side is closed

The value of voltage in the “meterValue.begin” OCPP message may result equal to zero if a reboot or power failure has happened

When cycling charging in a short period of time and under specific conditions, the “startTransaction” and “stopTransaction” OCPP batch messages will not be properly reported

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

Fallback time and fallback limit relationship with network connection should be removed

Bluetooth broadcast signal may sometimes disappear
