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PRODUCT UPDATE – EICHRECHT VARIANT CHARGEPOINTS
Firmware v1.8.33 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 (Eichrecht 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. We will keep on monitoring the performance of this firmware version and will use your feedback to further improve our products and services.

Best regards,
On behalf of the ABB team,

J.L.R. Visser
Global Product Marketing Manager

Applicable products

This release is applicable to:
- Terra AC Wallbox PTB charger variant.

Changes between firmware version 1.8.21 and 1.8.33

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

Features	
	[OCPP] Support **ChargingLimitBy** key: Ability to read the limiting load management channel.
	[OCPP] Support **ChargingLimitedChannels** key: Ability to read all the load management channel settings.
	[OCPP] Support **StopChargingOnlyWithSameCard** configuration key: Configuration option to limit the ability to stop charging to the RFID that was used for initiating the charging session.
	[OCPP] Support **MeterValueReportOnSuspendedEV** configuration key: Configuration option to keep sending meter values in case of SuspendedEV
	[OCPP] Support **UserSetMaxCurrent** configuration key: Configuration key to set the maximal current of the charging station. This key may only be used by certified installers that obey the local rules and regulations.
	[OCPP] Support **ABBIdTag** configuration key: Ability to change ABB RFID card identification methodology
	[OCPP] Support Authorization Cache: **AuthorizationCacheEnabled** **ClearCache**
	[OCPP] Support **MaxEnergyOnInvalidId** configuration key
	[OCPP] Support **ExternalMeterSampleInterval** configuration key: Configuration option to set the interval in which the charger sends the external energy meter information in case of cloud load management
	[OCPP] Optimized TLS link certificate verification logic
	Addition of an inoperative status LED indicator
	FW ready: Ability to reverse the dry IO Input/Output functions
	FW ready: Ability to set a 'reduced' current using the I/O dry contacts
	FW ready: Ability to inquire fallback limit by mobile applications
	Change the minimum value of the interval of MeterValuesSampleInterval to 1 second

Bugs	
	Improved the MeterStart value after hard/soft reset
	Fixed FTP log URL parse error
	Fixed FTP URL for GetDiagnostics
	[OCPP] Improved the charger response to MeterValueSampleInterval
	[OCPP] Improved the charger response to ClearChargingProfile
	When StopTransactionOnEVSideDisconnect is configured to false, the final payment page will not be displayed when swiping the RFID card
	Adopted an improved logic for severe overcurrent, metering chip and phase loss faults

Adopted an improved temperature derating strategy
[OCPP] Improved StatusNotification sequence for charging sessions that are started in Pause mode (0A)
Improved solar charging measured data after hard reset
Add channel info to StatusNotification during SuspendEVSE status to know which channel limits the charging
UK Smart Charging Station legislation: Ability to skip random delay during peak hours
Fixed the -12V reporting issue
Implemented a reconnection methodology for long periods of 4G/WiFi connection loss
Fixed the Modbus register 400Ah issue
Save more logs/error info for network connection issues to easily know what happened in the field for diagnostics
Datatransfer interval of zero should result in no datatransfer messages to be sent
When using TCP/IP to establish a Modbus connection in the slave mode, and two or more devices are connected to the same server, the Modbus function cannot be used normally.
WiFi can also be connected without a password.
Improved stability of 4G connectivity
Improved BLE communication to reduce errors while configuring external backend
Metervalue reported twice after remotestart transaction
Improved bluetooth connection logic
Occasional timestamp issue in order information
OCPP input message validation implementation
Bluetooth data overflow issue
4G connection process improvement
Increase certificate length reading capabilities
Unavailable status reason reporting to mobile application
[OCPP] Occasional negative electricity consumption
Cumulative meter value error on display
Increase domain name length limit to 55 characters
Fixed a certificate loading failure that occurred with larger certificates by increasing the dedicated buffer size from 6200 to 6250 bytes
Addressed a brief suspendedEVSE issue that occurred when the total current hit the alarm level in DLM system
Fixed C-board reboots during remote start charging by optimizing solar data reads (using a queue), reducing redundant file writes, adding file access mutexes, and correcting a TLS double-free memory error
Fixed multiple memory corruption vulnerabilities
Fixed a issue: If the certificate is too large, that may cause the memory is not enough and cause the charger can not response some command.

Known issues	
	Bluetooth broadcasts with encryption sometimes disappear
	Occasionally wrong timestamp in diagnostic log file
	Intermittent charger reboots occur under stress testing at a rate of approximately 0.1% of sessions