



Alfen NG9xx series Release notes

Release notes version 6.4
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1 Introduction

Firmware 6.4 includes Solar Charging. This feature is not commercially released and not actively supported yet.

In addition this release includes improvements, stability improvements, bug fixes and some main features.

2 New features

- Added support for Icelandic, Hungarian and Czech display language.
 - Change in backoffice configuration key 'language'. Now the options 'cz_CZ, hu_HU, is_IS' are also available.

3 Bugfixes

- Fixed log message when clearing the charging profile database using the command line input.
- Fixed regression in the power switch-off time when going from state C2 to A2. Timing is now back to being below 85ms switch-off time where 100ms is the limit.
- Fixed a timing issue where a voltage dip would not be detected as such and the recovery procedure would not be triggered correctly.
- Fixed a timing issue where the charging station would incorrectly detect simplified mode-3 charging (with 10 or 16A limit), even on cars supporting normal charging..
- Fix potential crashes when reconfiguring the external smart meter.
- Bug fix: During reboot watchdog would sometimes trigger when modem was still busy.
- Fixed an issue in the performance counter that could lead to a crash. The crash would only happen once in a while.
- Fixed issue where charging would continue with 3 phases after a reboot even if the CS was configured to 1 phase charging only.
- Fixed issue related to ClearChargingProfile.req command for OCPP 1.6 and 2.0.1
- Fixed an issue where the periodic connection check was executed when the charging station was configured as a standalone charging station. This meant that the charging station was unnecessarily disconnecting the Ethernet connection, for example the modbus slave connection, even when that was not supposed to happen.
- Fixed an issue where tariff and costs not working anymore in OCPP 2.0.1 due to a null pointer.
- Fixed a issue where Stellantis EVs would not resume charging after the session was suspended by the charging station (e.g. due to load management or charging profiles).

4 Improvements

- We now allow a BO to set the maximum current to the number of sockets times the max powerboard current.
- We now wait a sensible amount of time (30s) when the P1 meter is disconnected or communication fails. In that case we go to safe current, instead of 0A.
- When the Linky meter is not connected or TIC communication fails, the Linky meter task retries after a backoff time to prevent the CPU from entering an infinite retry loop
- The display text while scanning RFID has now been changed to Scan Card.
- Automatically calculate the power sum of a Modbus TCP meter in case there is no sum value available but there are phase power values.
- In OCPP 2.0.1 the integer type is defined as an integer32. It does happen that a CSMS sends an integer with a bigger number than the maximum of integer32. The firmware wasn't handling this properly earlier, now this has changed to handle this and report an out of bounds reply.
- When changing the value of the variable EnablePhaseSwitching via OCPP you can enable and disable the possibility to change the number of phases.
- We now verify that the write protection has been disabled, if setting RDP goes wrong the charging station now handle errors appropriately.

- Added an autodetect mechanism for the Eve Single S-line: if no display is found by the controllerboard, the LED on the NFC reader will not be activated.
- Default TransactionMessageAttempts is changed to 10 for new stations. For existing stations, if this configuration item was still set to 0, it will also be changed to 10 upon firmware update. In practice this means that when the back office has not acknowledged a transaction-related message for 10 times, the charging station will give up and continue to the next transaction-related message.
- ACE Service Installer now also displays the status of the connection of the EMS.
- Charging profile no longer being written to local database when identical record has been found.
- Refactor sections of the code that cause a change in number of phases used. Added additional sources for this change solar charging and EV charging capabilities.
- If a charging session requires a switch from 1-phase to 3-phase charging, the session will be suspended before switching.

5 Back-end communication changes

Several configuration parameters were introduced in this firmware release.

Property	Description	Values	Access
Added			
No properties were added			
Modified			
Language	Display language (ISO 3166:1993 four-letter language code) Added: - Romanian = ro_RO - Czech = cz_CZ - Hungarian = hu_HU - Icelandic = is_IS	Default: Determined per order	Read / Write
Removed			
No properties were removed			