

Firmware release notes

P5 controller

NOTES

We recommend updating all chargers with payment terminals with the new firmware because a critical bug is solved with FW Version 6.13.

Before updating to version 6.14.0 make sure that no older version than 6.10.1 is installed! If the update path is not followed, the update process can lead to problems.

Wir empfehlen, alle Ladestationen mit Zahlungsterminals mit der neuen Firmware zu aktualisieren, da mit der FW-Version 6.13 ein kritischer Fehler behoben wird.

Bevor Sie auf die Version 6.14.0 aktualisieren, stellen Sie sicher, dass keine ältere Version als 6.10.1 installiert ist! Wenn der Aktualisierungspfad nicht befolgt wird, kann der Updatevorgang zu Problemen führen.

About this document / Über das Dokument

This document is intended to provide detailed information about firmware updates for the supported products listed below. Our goal is to equip you with the necessary knowledge to prepare tests and make informed decisions regarding updating your charging stations to a newer firmware version.

Dieses Dokument enthält detaillierte Informationen über Firmware-Updates für die unten aufgeführten unterstützten Produkte. Unser Ziel ist es, Sie mit dem notwendigen Wissen auszustatten, um Tests vorzubereiten und fundierte Entscheidungen bezüglich der Aktualisierung Ihrer Ladestationen auf eine neuere Firmware-Version zu treffen.

Supported products / Unterstützte Produkte

- Compleo eTower
- Compleo DUO series (prod. date ≥2022)
- Compleo SOLO series (prod. date ≥2021)

Important Links / Wichtige Links:

[OCPP 1.6J Integration Handbook SOLO, DUO, CITO 500, eTower 200](#)

[OCPP 1.6J Integration Handbook eBox](#)

[SOLO/ DUO/ CITO 500/ eTower 200 Modbus Registers](#)

[eBOX: Modbus registers](#)

Document change log

Month	Change	Document version
07/2025	Release notes for firmware version 6.14.3	2.7
04/2025	Release notes for firmware version 6.14.1	2.6
04/2025	Release notes for firmware version 6.14.0	2.5
12/2024	Release notes for firmware version 6.13.1	2.4
12/2024	Release notes for firmware version 6.13	2.3
10/2024	Release notes for firmware version 6.12.1 added	2.2
09/2024	Update for eTower 200	2.1
08/2024	Final Release notes for 6.12.0	2.0
06/2024	Added eTower to supported products Changed release month for firmware version 6.11 Preliminary release notes for firmware version 6.12 added	1.9
03/2024	Changed release month for firmware version 6.11 New front page structure	1.8
02/2024	Preliminary release notes for firmware version 6.11 added	1.7
12/2023	Release notes for firmware version 6.10.1 added	1.6
09/2023	Release notes for firmware version 6.10 added	1.5
08/2023	New imprint	1.4
05/2023	Release notes for firmware version 6.9 added	1.3
05/2023	Fixed hyperlinks to Ducto guide	1.2
03/2023	Release notes for firmware version 6.8 added	1.1
12/2022	Initial release notes of firmware version 6.0 – 6.7	1.0

July 2025 (version 6.14.3)

Changes since April 2025 (6.14.1) / Änderungen seit April 2025 (6.14.1)

Highlights

English	Deutsch
DUO	
<ul style="list-style-type: none">○ Detection of whether temperature sensor is present○ New derating behaviour using the new temperature sensor	<ul style="list-style-type: none">○ Erkennung, ob Temperatursensor vorhanden ist○ Neues Derating-Verhalten unter Verwendung des neuen Temperatursensors

Bugfixes

English	Deutsch
SOLO/DUO/eTower 200	
<ul style="list-style-type: none">○ Correction of the comparator error in certain hardware revisions of the P52○ Optimisation of payment handling○ Support of V-Pay payment cards for receipt retrieval<ul style="list-style-type: none">○ Improved view of loading data in Ducto	<ul style="list-style-type: none">○ Behebung des Komparatorfehlers bestimmter Hardwarerevisionen der P52○ Optimierung Payment-Handling○ Unterstützung V-Pay-Bezahlkarten für Belegabruf<ul style="list-style-type: none">○ Verbesserte Ansicht der Ladedaten in Ducto
eTower 200	
<ul style="list-style-type: none">○ Several stability improvements	<ul style="list-style-type: none">○ Verschiedene Stabilitätsverbesserungen

Note / Hinweis

English	Deutsch
Firmware Updates of the eTower can take up to 30 minutes.	Firmware Updates des eTowers können bis zu 30 Minuten dauern.

April 2025 (version 6.14.1)

Changes since April 2025 (6.14.0) / Änderungen seit April 2025 (6.14.0)

Bugfixes

English	Deutsch
SOLO/DUO/eTower 200	
<ul style="list-style-type: none">o o Update process with skipping of previous versions possible (no update path needs to be followed from 6.10.1)o o Correction of power values transferred to the backend	<ul style="list-style-type: none">o Updatevorgang mit Überspringen von Vorgängerverionen möglich (Es muss kein Updatepfad ab 6.10.1 mehr eingehalten werden)o Korrektur der ans Backend übertragenen Leistungswerte

Note / Hinweis

English	Deutsch
Firmware Updates of the eTower can take up to 30 minutes.	Firmware Updates des eTowers können bis zu 30 Minuten dauern.

April 2025 (version 6.14.0)

Changes since December 2024 (6.13.1) / Änderungen seit Dezember 2024 (6.13.1)

Highlights

English	Deutsch
SOLO/DUO/eTower 200	
○ red LED-Indication when charge point is disabled by backend	○ rote LED-Anzeige, wenn die Ladestation vom Backend deaktiviert wird
DUO	
○ temperature sensor configurable in Ducto	○ Temperatursensor in Ducto konfigurierbar
eTower 200	
○ UI-Improvements (out of order picture can be changed, minor corrections) ○ support of additional display languages ○ support of dynamic QR-codes ○ no OCMF values are send for chargers without German calibration law ○ Ducto: Display of voltage, current, power, battery status and charging time	○ UI-Verbesserungen (außer Betrieb Bild kann geändert werden, kleinere Korrekturen) ○ Unterstützung weiterer Anzeigesprachen ○ Unterstützung von dynamischen QR-Codes ○ bei Stationen ohne deutsches Eichrecht werden keine OCMF-Werte gesendet ○ Ducto: Anzeige von Spannung, Strom, Leistung, Batteriestatus und Ladezeit

Bugfixes

English	Deutsch
SOLO/DUO/eTower 200	
○ stability improvement for sending payment receipts ○ logs now downloadable via Ducto with electrician level	○ Stabilitätsverbesserung beim Versand von Zahlungsbelegen ○ Protokolle jetzt über Ducto mit Elektrikerlevel herunterladbar
eTower 200	
○ Correction of fan speed measurement ○ Several stability improvements	○ Korrektur der Lüfterdrehzahlmessung ○ Verschiedene Stabilitätsverbesserungen

Note / Hinweis

English	Deutsch
Firmware Updates of the eTower can take up to 30 minutes.	Firmware Updates des eTowers können bis zu 30 Minuten dauern.

December 2024 (version 6.13)

Changes since December 2024 (6.13.1)

Highlights

- SOLO/DUO: Feature for permanently locked cables for chargers with socket (Description: [Ducto Quick Guide](#))

Bugfixes

- eTower 200: fix for downloadable logs
- AC: load management fallback bug fix

Note

- Firmware Updates of the eTower can take up to 30 minutes.

December 2024 (version 6.13 for eTower 200)

Changes since October 2024 (6.12.1)

Highlights

- Local load management with static current limit
- Load management via modbus or smart charging schedules
- Support of flexible payment
- Charging data view improvement for Ducto
- Improvement of update process UI

Bugfixes

- eTower 200: fix of power good error
- Modbus values override bug

Note

- Firmware Updates of the eTower can took up to 30 minutes.

October 2024 (version 6.12.1)

Changes since September 2024 (6.12)

Highlights

- eTower 200: configurable min Power limit reduced to 55 A
- UI-optimizations (eTower screens and Ducto)
- Event Handling view improvement for Ducto

Bugfixes

- Fixed Cable (Solo/Duo): Bug-Fix 6mA-Sensor RCD-Test
- Payment: did not migrate old tariffs if the station has only local ones



The power to move

August 2024 (version 6.12)

Changes since June 2024 (6.11)

Highlights

- The eTower 200 is now supported
- Payment parameters are now available as OCPP keys¹
- The DUO and SOLO now supports dynamic QR codes for ad hoc payment²
- Trigger cash register cut via DUCTO
- Send OCMF file and public key in the receipt
- Support of SAM 2.0
- Event Handling view for DUCTO

Bugfixes

- Routing problems between LAN and GSM solved
- More robust vehicle detection to avoid LPC self-tests

Note

- 1) Find the OCPP keys for payment [here](#).
 - 2) Find a description of QR in display codes [here](#).
- If you are using load management, make sure to update all involved charging stations in order to maintain load management functionality.
 - eTower 200: **The internal maximum current must be higher than 150 A**

Software components

ACDC*	Application	DCDC*	Ducto	LARS*	LPC	LSG	OS image	Target SDK	TEMA*	SAM
0.2.4	6.12.0	0.4.2	2.3.0	1.4.5	2.3.5	0.22.0	6.12.5	6.107	1.0.3	Not affected

*eTower only

March 2024 (version 6.11)

Changes since December 2023 (6.10.1)

Highlights

- Upgrade to Yocto kirkstone
- Added new Modbus registers¹
- Added support for new SAM type
- Added minor improvements for payment
- New version of Ducto (2.2.0):
 - Port of the payment service provider's server is now configurable

Bugfixes

- June 2024 (version 6.11.2): Fixed an issue with certain SIM cards which did not connect to their network

Note

- 1) Find the Modbus register specification [here](#). The additional registers do not affect compatibilities with energy management systems.

September 2023 (version 6.10)

Changes since June 2023 (6.9)

Highlights

- New version of Ducto (2.0.3):
 - Added Payment to simplified settings
 - Minor adjustments and bug fixes
- Added support for new SAM type "SAM EU (without calibration law)"

Bugfixes

- Fixed an issue with the conversion of chargingRateUnit "W"
- Fixed an issue with cables not unlocking without backend connection
- December 2023 (version 6.10.1):
 - Fixed an issue with RFID processing that caused the reader to stop working in certain situations.
 - Fixed an issue with DUOs with attached cables where an RFID would start two charging sessions simultaneously when two EVs were plugged in, resulting in one session not being billed correctly.

June 2023 (version 6.9)

Changes since March 2023 (6.8)

Highlights

- Improved algorithm for handling unbalanced load in clusters
- TCP/IP reconnection is more reliable now

Note

- Onboard load management in this firmware version is compatible again with old DUOs and CITOes with firmware version 5.19.4 or higher. Ensure that you update the controllers in mixed clusters to the latest version each. It might be necessary to reconfigure the cluster.

March 2023 (version 6.8)

Changes since December 2022 (6.7)

Highlights

- Ducto UI now matches the new Corporate Identity
- Ducto settings are now greatly simplified

Note

- In onboard load management, a Responder (formerly Slave) now communicates more parameters to the Controller (formerly Master) automatically. This accelerates the configuration of Controllers immensely and makes it less prone to errors. It is no problem to update DUOs produced since February 2022 and SOLOs (firmware version 6.X) which run in clusters without old DUOs or CITOs (firmware version 5.X). However, firmware version 5.X is not compatible with onboard load management in firmware version 6.8. Therefore, do not perform an update to firmware version 6.8, if you are operating a cluster with firmware version 5.X and 6.X.
- You can find a guide to Ducto [here](#).

December 2022 (version 6.7)

Changes since July 2022 (6.6)

Highlights

- Payment terminal is now supported
- Customer specific Modbus registers introduced

July 2022 (version 6.6)

Changes since May 2022 (6.5)

Highlights

- New Ducto feature: Show and export charging data
- New Ducto feature: Generate encrypted log files for diagnostics by Compleo service

Note

- For more detailed information click [here](#).

May 2022 (version 6.5)

Changes since March 2022 (6.4)

Highlights

- Gateway functionality introduced

Note

- The gateway functionality allows a charging station with a SIM card to be the gateway to any backend for charging stations without a SIM card within the same local network. For more detailed information click [here](#).

March 2022 (version 6.4)

Changes since January 2022 (6.3)

Highlights

- Contacts for power reduction are now supported

Note

- For more detailed information, refer to the operating instructions of your charging station. You can find the document [here](#).

January 2022 (version 6.3)

Changes since July 2021 (6.2)

Highlights

- DUO is now supported
- New Ducto feature: Save & Restore

Note

- Save & Restore allows you to save a configuration and restore it on the same or another charging station. When restoring, there is an opportunity to accept, reject or modify changes. For more detailed information click [here](#).

October 2021 (version 6.2)

Changes since July 2021 (6.1)

Highlights

- New Ducto feature: Manage RFID list
- New Ducto feature: Update firmware

Note

- For more detailed information click [here](#).

July 2021 (version 6.1)

Changes since April 2021 (6.0)

Highlights

- Ducto introduced

Note

- Ducto is a web interface for diagnostics and configuration which is accessible through every common internet browser via the IP address of each supported charging station. For more detailed information click [here](#).

April 2021 (version 6.0)

First full version

Highlights

- SOLO is now supported

Note

- Version 6.0 is the first Compleo firmware to support the SOLO. It inherits known features from version 5.X such as OCPP 1.6, Giro-e and load management, onboard or via Modbus
- Release notes for versions lower than 6.0 are documented separately, because version 5.X and 6.X are developed largely independently for two different charging station controllers.
- DUO not supported yet