

Release Notes

SW Version	5.19.5
Date	30.06.2023

	• Exclusive support of OCPP 1.6 (Open Charge Point Protocol), OCPP 1.5 is not supported anymore • For activating fan control the parameter citoDcFanControlEnabled=1 in <code>~/bin/omm.ini</code> has to be set or not present (default is =1) • This SW Update deletes the parameter citoDcFanControlEnabled from <code>omm.ini</code> • For already delivered Cito 240 chargers or present images the parameter must be checked before delivery or after a SW Update manually
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	To Update the SW via DUKT you have to use the scrambled dat file. For a manual update you might use the unscrambled file but you must call the <code>install_update.sh</code> script for installation. It is not allowed anymore to use tar files, which only contain binaries, directly.
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Supported chargers of version 5.19.5

- P4V6-Cito240: 3in1, 2in1 (CCS and Type 2) and 1in1 (CCS only)
- P4V6-AC: Advanced, Highline, Advanced Fixed, Highline classic
- P4V5-AC: Advanced, Highline, Advanced Fixed, Highline classic'

Changes from version 5.19.4 to version 5.19.5:

- Fix: wrong CDRs (Call Detail Records) at CCS charging sessions

Changes from version 5.19.3 to version 5.19.4:

- New **load management** with improved unbalanced load algorithm
- Fix: improved reconnection handling in case of TCP/IP connection failures

Changes from version 5.19.2 to version 5.19.3:

- Fix: Incorrect StatusNotification pairs of preparing/available are not sent anymore
- Fix: authorization of two charging processes at the same charging station via eOperate in connection with direct payment is now possible

Changes from version 5.19.1 to version 5.19.2:

- Fix Highline: Unlock sliding lids reliable after presenting card
- Fix: Show 'pull plug' on display only after plug has been unlocked.

Changes from version 5.19.0 to version 5.19.1:

- New OCPP parameter MinimumDCPowerWatt introduced
- Fix: Set power limit in CCU-Communicator
- Fix: GetDiagnostics functionality does not work correctly in special cases
- Fix: if an active ChargePointMaxProfile exists for Connector 0 and a TxDefault Profile for a normal connector the GetCompositeSchedule request returns a wrong value for the configured limit.

Changes from version 5.18.15 to version 5.19.0

- SmartCharging support for DC
- Fix: Do not crash when written to an unknown modbus holding register address

Changes from version 5.18.14 to version 5.18.15

- Fix: init of maximum charging current for type2 outlets
- Fix: Fixing problems with unlocking socket modules with OemV3 version
- Added a new parameter "IMaxN3" for each sink

Changes from version 5.18.13 to version 5.18.14

- Fix reset of non-communicating lpc for CITO 500 chargers (also for Cito240 and AC chargers)
- Fix lacking resolution of high meter energy values
- Fix: Station loses ocpp configuration

Changes from version 5.18.12 to version 5.18.13

- Fix for CITO 500: AC connector lock does not open (sporadically) after charging process
- Fix: Reduced maximum charging current of AC connector (16A) in a CITO 500
- Fix: problem with charging profile power limit: it was not processed directly after restart
- Fix: Read TagIds from cardreader are converted to upper case before processing them
- Changed handling of configured provider (fixed/preferred) in conjunction with SIM cards containing provider-list: configured entry is now always used and overrides the SIM card provider list.
- Fix: Suppress mail from periodically Linux task (cron job) which is logged in a mail file. The existing mail file is removed to free space on card. This Fix prevents that superfluous data is stored on SD card. The Fix has no impact to charging process.

Changes from version 5.18.11 to version 5.18.12

- Fix: Support for new GiroE cards added

Changes from version 5.18.9 to version 5.18.11

- Fix: shutdown handling for ac corrected
- Fix: prevent authorization when authorized to unlock with ChargeForFree and UseDefaultIdForCard and UnlockConnectorOnEVSideDisconnect=false
- Fix: Update from 5.16.10 to 5.18.11 to have a working pwm powered background lighting (Correction for update from 5.16.10 to 5.18.11 for display backlighting)
- Add process_check.dat, modem_ctrl.log and modem_supervision.log (Scope of diagnostic data extended)
- Fix: missing correction of time-stamps for StopTransactionReq in Backlog
- Add ocpp config values "MaxPowerOutConnector[.*]"
- Fix problem in Event.h which leads to double-free
- Fix: retry handling of UpdateHandler and DiagnosticsHandler
- Fix exception when trying to connect to localhost
- Clear service tunnel config key after granted time has elapsed
- Add: case insensitive ocpp configuration keys
- Send energy in MeterValues with 3 decimal places
- Support of Advanced chargers with P4V5 and 6mA RCS

Changes from version 5.18.8 to version 5.18.9

- Fix shutdown handling for ac corrected
- Add samCompensationType Cito240_2in1_long
- Change UserFinishingTimeout to UserInterfaceTimeout in StartPlugFirst
- New setting of the language for SAM in CCS
- New languages for SAM (DE, EN, FR, ES, IT, NL, SV)
- DCConnectorAdapter: handle new ies charger states, removed log entries with warning level
- Added new ies charger states
- fix chademo charging problem in ccu_communicator with new ccu firmware
- add new EVChargingStateFrame to CCU_Communicator
- Fixed start of modem reset if connection to backend is lost
- Do not show "pull plug" if dead plug in state "Plugged" and only one connector
- Fix do not start charging with dead plug for outlet when we have more than one connector
- Fix dimming blue LEDs when suspended EV state
- Fix leave plug locked if UnlockConnectorOnEVSideDisconnect==false and user does not authorize after disconnecting the car
- StatusNotifications with ErrorType: GroundFailure now use the InfoField to distinguish between real FI and 6mA (SAM-Errors are taken into account)

Changes from version 5.18.7 to version 5.18.8

- Send SoC (State of charge) information at DC charging sessions in MeterValues in OCPP 1.6
- Accept changes of authentication methods on the fly without restart
- Send StopTransaction for invalid charging data with meterStop=meterStart
- Fix: Charging power at DC-Stations for DC-charging sessions limited to 20kW
- Fix. Presenting Giro card permanently: card has to be removed from RFID field for new validation
- Cleanup of wrongly notated configuration parameters HeartbeatInterval and ConnectorIdCHA
- Activate stop button during offline time

- Fix: Set Amount of power at charging sessions with SAM to invalid and starttime=endtime in case of power loss
- Close OCPP connection in case of JsonConfirmationTimeout
- Fix: AC-charger with socket-outlet with activated ChargeForFree shows "Bitte Karten vorhalten" in the 4th row in idle state
- Use temperature of CCU-board for temperature derating at CitoS and AC charging sessions
- Configuration of display in idle state with different texts
- New cito500 firmware 13350-010 (of ccu) with ID3 fix
- Service tunnel for direct access via a not directly accessible server: the SSH access is enabled by the help of the OCPP configuration parameter GrantServiceTime
- Removed superfluous StatusNotification for AC connectors which had error value GroundFailure, fixed checks for GoundFailure and PowerSwitchFailure
- Added Languages Italian, Polish, Schwedish and Hungarian
- Fix: decline of GiroE cards if parameter cpHasGiroCardReader is not activated
- Fix: Set preparing state of connectors to closed in error case ‚ErrorPullPlug‘
- Request of maximum power of connectors or charger via OCPP 1.6:
AC:
`,GetConfiguration MaxPowerConnectorId0', ..., MaxPowerConnectorId1', ..., MaxPowerConnectorId2'`
DC:
`,GetConfiguration MaxPowerConnectorId0', ..., MaxPowerConnectorId1', ..., MaxPowerConnectorId2', ..., MaxPowerConnectorId3'`

Changes from version 5.18.6 to version 5.18.7

- Handle ccu / psu reset when connection to ccu board is lost
- Rework callback mechanism for lpc reset
- Handle ccu / psu reset when requested by backend
- Adding missing languages: polish,italian and swedish
- Insert existing languages and change setenv for environment variables
- Change firmware for cito240 to version 17879-005 - fixing hangup of ccu
- Add event to signal a reset from the HMI to the OMM

Changes from version 5.18.5 to version 5.18.6

- Add charging abort using an user push button
- Fixed state change from charging to finishing on plug pulled from ev
- Add additional timeout in STMStartPlugFirst
- Add timeouts as discussed CCS-Start
- Initialize connector-name with "Typ2" on ONE_OM
- Fix: ID of left connector and position of connector name for only one connector (ONE_OM)
- Fix: display „offen Ladepunkt" for the AC-connector if charging session is started out of DeadPlug state
- Fix: suppress ocpp StatusNotification "Available" in idle state in case of fixed cable with ChargeForFree
- Fix: suppress ocpp StatusNotification " GroundFailure " for daily 6mA sensor test in case of fixed cable with ChargeForFree
- Fix: Prevent 6mA-sensor error at start of charging session by sending charging end command to outlet module after aborted charging start to bring it back to idle state

- Fix: connector remains ,unavailable', when UserTimeout has happened after taking plug from charger, and afterwards user authorizes with card and vehicle is not connected within authorization timeout
- Fix behavior in HMI when ocpp connection is lost while charging
- Error handling of IS board extended ('connection to psu lost'-error)
- Fix-DC: End charging session accordingly in any case when pulling the plug out of vehicle or putting plug back to charge points parking position
- SD-Card: Kernel patches for handling of commands on block interface of sd-cards
- SD-Card: Improved filesystem checks during system boot
- SD-Card: Decreased write access on root filesystem

Changes from version 5.18.4 to version 5.18.5

- Fix SendLocalListReq.localAuthorizationList to be optional
- Make Scons-files run with python3
- Disable persistent logging of systemd

Changes from version 5.18.3 to version 5.18.4

- DC CCS: Move initialisation for "pull plug from ev"
- Correct install-516.sh
- Fix leftover ,.' in 10-fixdpkg.sh

Changes from version 5.18.2 to version 5.18.3

- Use ./sys/bus/usb/devices' instead of lsusb functionality for Telit modem check
- Add fix for corrupted dpkg-database into main distribution
- Fix delay processing of EV plug state in state preparing for chademo
- Fix unlock sliding lid in state B
- Fix text in case of a sam error while charging start
- Delete backup file after successful update
- Fix: stopping of CCS process by increasing timeouts
- Fix: check for EMAdapterState when vehicle is connected too late
- Call sync() after writing the status-file (and add more output when loading)
- Fix: CCS connector adapter now leaves state finishing if plug is removed from EV.
- Fix missing user timeout beep in WaitForCar
- Fix close unused connectors when switching to an rfid card which stops a transaction
- Fix clearing of used SAM-interfaces before checking for currently used SAM- interfaces
- Modemscript correction for 4G-Modem: modem_ctrl.py
- Add compensation parameters for Cito500_2in1_long
- Disable Autossh for master
- new ccu firmware with fix for VW ID.3 in DIN70121-protocol (was overflow)
- length of PsuStateFrame for new protocol version did not fit
- vscode-settings
- Add state STMAuthFirst::WaitAuthorized to fix the "offen Ladepunkt" problem
- Fix calling-order of StateMachine handlers for MWTools::Events
- Fix missing transtion when waiting for unlock connector if already closed.

Änderungen von Version 5.18.1 zu Version 5.18.2

- Fix: only test the 6mA-Sensor if it is necessary
- New outlet modules TYP2_FIX_V01.05.13_001/2.hex due to State B error indication and adaptations install-516.sh
- Use last valid meter values for StopTransaction instead of 0 without SAM
- Use fixed voltage of 230V in Modbus-Adapter
- Do not set RCSensorTestRunning as error (No StatusNotification)
- Add AC CompensationParameters
- Improved reviving the connector if set dead while in init.
- Fix missing forwarding of CommIMax-Message to Load-Manager
- Set LEDs green in State_Preparing and blue in State_Starting in ACConnectorAdapter
- Send cable resistance as $\mu\text{Ohm} * 10$ for SAM with SW Version $\geq 1.3.0$
- Fix unlock connector in EVDisconnected even if it is unlocked in status vector
- In case of a SAM error due to a powercycle of the station keep the energy count at stop time for normal ac type 2 outlets. Set the end time to the value of the start time of the charging.
- Fix open lock in Finishing for sliding lid
- Fix 6mA sensor test after charging
- Fix one om support (Charger with only one outlet)
- New Feature „OfflineMode“ without backend connection with new Configuration-Value in ocppConfiguration.ini: "OfflineMode true"
- Use highest current for base ACSink-request.

Änderungen von Version 5.17.3 zu Version 5.18.1

- Unterstützung von AC Ladesäulen
- Neues Feature: ChargeForFree (Stecken/Laden)
- Neues Feature für DC: Giro E Unterstützung
- Fix: Stromüberlastung zurücksetzen
- Fix: Korrektur für seltsame Chademo-Ladezustandsanzeige
- Änderung in der Update-Behandlung für CCU-Board
- Wechsel vom Aktiv in den Vollzustand nach einer Minute niedriger Leistung
- Entfernen von Anfragen aus Senke, die 30 Sekunden lang keine Nachrichten erhalten haben
- Fix: Probleme mit der korrekten Ausführung von Imconfig behoben
- Entfernt das alte "Prozess-Präfix" bei der Aktualisierung auf das neue (ssh-basierte) Load-Manager-Messaging
- RequestedPowerOnStartup zu DCSinkConfig hinzugefügt
- Fix: keine Autorisierung zum Beenden des Ladevorgangs erforderlich, wenn mit ChargeForFree gestartet wurde
- Fix: RemoteStart nicht möglich, wenn Stecker bereits gesteckt/gezogen
- Neue Leistungsgrenze nur dann an CCU senden, wenn die Grenze geändert wurde
- Fix: der Ladevorgang wird beim Abschalten wegen Zeitumstellung nicht gestoppt
- Fix: der Stecker wird nicht auf DeadPlug gesetzt, wenn er beim Start 'Nicht verfügbar' ist
- Fix: Korrigiert den Wechsel von "Plugged" zu "Unlocked" in ACConnectorAdapter, wenn Close() aufgerufen wird
- Konfigurationsparameter IMinReq für DC-Sink hinzufügen
- Begrenzung auf gewünschte Leistung
- Fix: Behandlung der Parkposition während des Init-Status

- Fix: korrigierte Behandlung des Abschaltens bei aktiver Session
- Fix messaging.conf.default für left_em
- Fix: Chademo-Start -> erst Stecker einstecken, dann die Karte vorhalten
- Fix: Transaktionsdaten bereinigen, nachdem die Transaktion während des Herunterfahrens gestoppt wurde
- Fix: Kein 6mA-Sensortest, wenn der Stecker nicht in idle ist
- Änderungen am CCU-Kommunikator, um das neue Firmware-Update wirklich nutzen zu können
- Art und Weise geändert, wie Firmware-Updates für ccu-board durchgeführt werden
- Setzen MaximumChargeCurrentAcConnector x Werte in ocppConfiguration.ini (install-516.sh)
- Synchronisation für Transaktionszustände hinzugefügt
- Verschönern des HMI-State-File, um Verwirrung durch uninformierte Leser zu verringern
- Verbesserte "Dead-Plug"-Behandlung
- Änderung der Bedingung, unter der beim Stecker auf dem "Warten auf Fahrzeug" angezeigt wird
- Fix: Behandlung des DC Steckers Beim Ladestart
- Anzeige der Konnektoren in der ersten Zeile bei "wait for car"
- behebt Aktualisierungsprobleme aufgrund unterschiedlicher Versionen der ccs-lib
- Fix: DC-Chademo Ladebeginn wegen mechanisch veränderter Parkposition
- ändern "establish_tunnel.py" so, dass auch der AUTOSSH_GATETIME-Parameter zum systemd-Skript hinzugefügt wird. Dies ist erforderlich, damit der Tunnel beim parallelen Neustart von Master- und Slave-Stationen nicht verlassen wird
- Fix: Absturz bei Überstrom-Fehler behoben
- Fix: DC-Chademo „charging stop“
- Fix: Einstellung der Farbe der LEDs in DC
- Verweise auf Links/Rechts Konnektor aus Fehlercodes entfernen
- Abhilfe für den Empfang von Daten von der seriellen Schnittstelle des electric meter process
- Fix: Behebt Probleme mit Transaktionsdaten, die beim Start nicht weiter geladen werden können
- Fix: Es wird nicht gewartet, dass die Senke im Zustand Starting aktiv wird, wechseln sofort zu Suspended_EVSE in ACConnectorAdapter
- Erhöhung des Timeout für TLS von 5s auf 30s
- Fix: Fehler im Update-Skript behoben
- Erzwingen eines Neustarts, wenn die Kommunikation zum System ausfällt
- Fix: Stromwert, wenn die Senke nicht durch Temperaturabsenkung begrenzt ist
- Verbessern der Sortierung der Konfigurationswerte in ocppConfiguration.ini
- Update curl
- Unterstützung von TLS 1.2 für Websocket-Connections
- Verschlüsselte Ladepark-Kommunikation über SSH
- Verbessertes Startverhalten bei AC mit Lastmanagement
- Automatischer Kernel Update bei vorhandenem 4G-Modem
- Fix: Entriegelung Stecker bei SAM Fehler
- Fortsetzen eines Ladevorgangs bei Neustart nach Stromausfall
- Electric-Meter-Adapter für nicht-SAM anpassen

Änderungen von Version 5.17.0 zu Version 5.17.1

- install-516.sh für das Brennen unterschiedlicher SM geändert
- Parameter für Lüftersteuerung angepasst, zur automatischen Aktivierung wird der Parameter citoDcFanControlEnabled aus der omm.ini gelöscht
- SAM Unterstützung (selbstverständlich)
- Load-Manager-Logs zu OCPPDiagnosticsLog hinzugefügt

Änderungen von Version 5.16.x zu Version 5.17.0

- Neues Feature: Linux gettext() Unterstützung für verschiedene Sprachen zur besseren Erweiterbarkeit auf neue Sprachen:
Um Anzeigesprache zu ändern (festzulegen), muss man in ~/bin/ocppConfiguration.ini Schalter „**DisplayLanguage**“ auf entsprechende Sprache setzen (en, de, nl, fr, hu).
- Die Belegung der Konnektoren in der omm.ini wird wie folgt festgelegt:
Order-Id: 1,2,3 from left to right
dcConnectorLayout=TYP2, CHA, CCS
- Neue Bedienoberfläche mit geänderten Texten und Anzeigen
- Neue Art der Fehlcodierung mit Buchstaben und Zahlencodes (z.B. Status: 9B für FI-Schalter ausgelöst)
- **KEINE** Unterstützung des OCPP1.5 Protokolls
- **KEINE** Unterstützung von AC Ladesäulen und der CITO BM2 500
- **NICHT** enthaltene Features: Giro E, Stromticket, nur einige Fehleranzeigen im Display unterstützt (z.B. nicht Isolationswarnung)