CCU Parameter List

For r4.11.8-0-g2ac692222

CTEK Sweden AB

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Contents

1 OCPP

AllowOfflineTxForUnknownId If this key reports a value of true, the station will accept any RFID tag when offline.
Default value: True
Type: boolean
Reset required after change: No

AuthorizationCacheEnabled summary
Default value: True
Type: boolean
Reset required after change: Yes

AuthorizationKey The HTTP Basic Authentication password for this station.
Default value:
Type: string
Reset required after change: No
Hexadecimal representation of the password that the Charging Station uses to authenticate itself if HTTP Basic authentication is used. Needs to be between 32 and 40 hexadecimal digits (ie password is 16-20 characters).

AuthorizeRemoteTxRequests Whether a remote request to start a transaction in the form of a RemoteStartTransaction.req message should be authorized beforehand like a local action to start a transaction.
Default value: False
Type: boolean
Reset required after change: No

AuthCacheLifeTime Indicates how long it takes (in s) until a token expires in the authorization cache since it is last used.
Default value: 2592000
Type: integer
Reset required after change: Yes
Defaults to 30 days.

LocalAuthListEnabled Enable / disable local authorization list (whitelist).
Default value: True
Type: boolean
Reset required after change: Yes

ChargeProfileMaxStackLevel Max StackLevel of a ChargingProfile. The number defined also indicates the max allowed number of installed charging schedules per Charging Profile Purposes.
Default value: 20
Type: integer
Readonly: Yes

ChargingScheduleAllowedChargingRateUnit A list of supported quantities for use in a ChargingSchedule. Allowed values: 'Current' and 'Power'.

Default value: Current
Type: CSL
Readonly: Yes

ChargingScheduleMaxPeriods Maximum number of periods that may be defined per ChargingSchedule.
Default value: 100
Type: integer
Readonly: Yes

ClockAlignedDataInterval Send metervalues at this time interval in seconds. Non-transaction related.
Default value: 0
Type: integer
Reset required after change: No

ConnectionTimeOut Timeout between tag detection and cable insertion, or vice versa (seconds). Also used for PIN code timeout
Default value: 180
Type: integer
Reset required after change: No

ConnectorPhaseRotation The phase rotation of the connectors compared to the grid. Calculated from other configuration keys. If you want to change this, please change the stations phase rotation by changing the key
`PhaseRotation`.
Default value:
Type: CSL
Reset required after change: Yes

HeartbeatInterval How often should heartbeat be sent. (seconds).
Default value: 240
Type: integer
Reset required after change: No
Not settable via local configuration tool. Set by backend in BootNotification.

GetConfigurationMaxKeys Maximum number of requested configuration keys in a GetConfiguration.req PDU.
Default value: number of parameters
Type: integer
Readonly: Yes

LightIntensity The intensity of the LED light in percent of maximum
Default value: 100
Value range: 0-100
Type: integer
Reset required after change: No

LocalAuthListMaxLength Maximum number of identifications that can be stored in the Local Authorization List.
Default value: 10000
Type: integer
Readonly: Yes

LocalAuthorizeOffline Whether the Charge Point, when offline, will start a transaction for locally-authorized identifiers.
Default value: True
Type: boolean
Reset required after change: No

LocalPreAuthorize Whether the Charge Point, when online, will start a transaction for locally-authorized identifiers without waiting for or requesting an Authorize.conf from the Central System
Default value: 1
Type: boolean
Reset required after change: No

MaxChargingProfilesInstalled Maximum number of Charging profiles installed at a time.
Default value: 80
Type: integer
Readonly: Yes

MaxEnergyOnInvalidId Maximum energy in Wh delivered when an identifier is invalidated by the Central System after start of a transaction.
Default value: 100000
Type: integer
Reset required after change: No
Previously, we allowed an unlimited amount of energy, thus, the default value mimics that behavior by allowing 100 kWh.

MeterValuesAlignedData Selection of which metervalues to send. See OCPP specification.
Default value: Energy.Active.Import.Register
Type: CSL
Reset required after change: No

MeterValuesSampledData Selection of which metervalues to send. See OCPP specification.
Default value: Energy.Active.Import.Register
Type: CSL
Reset required after change: No

MeterValueSampleInterval Meter value sample interval (seconds). Transaction related metering.
Default value: 240
Type: integer
Reset required after change: No
Use 0 to disable.

MinimumStatusDuration Delay before sending (most) status notifications.
Default value: 2
Type: integer
Reset required after change: No
Used to avoid lots of notification when quickly moving through states.

NumberOfConnectors Number of outlets
Default value: 2
Type: integer
Readonly: Yes
0 is only for special cases (e.g GCU).

ReserveConnectorZeroSupported If this configuration key is present and set to true: Charge Point support reservations on connector 0.
Default value: False
Type: boolean
Readonly: Yes

ResetRetries Number of times to retry an unsuccessful reset of the Charge Point.
Default value: 0
Type: integer
Reset required after change: Yes
The station does no automatic retries.

SendLocalListMaxLength Maximum number of identifications that can be send in a single SendLocalList.req.
Default value: 500
Type: integer
Readonly: Yes

StopTransactionOnEVSideDisconnect Stop the transaction if the cable is detached from the EV.
Default value: True
Type: boolean
Reset required after change: No

StopTransactionOnInvalidId Stop an on-going session if the backend responds that the tag used was not acceptable.
Default value: False
Type: boolean
Reset required after change: No

StopTxnAlignedData Clock-aligned periodic measurand(s) to be included in the TransactionData element of StopTransaction.req MeterValues.req PDU for every ClockAlignedDataInterval of the Transaction
Default value:
Type: CSL
Reset required after change: Yes

StopTxnAlignedDataMaxLength Maximum number of items in a StopTxAlignedData Configuration Key. StopTxAlignedData is not supported.
Default value: 0
Type: integer
Readonly: Yes

StopTxnSampledData Sampled measurands to be included in the TransactionData element of StopTransaction.req PDU, every MeterValueSampleInterval seconds from the start of the charging session.
Default value:
Type: CSL
Reset required after change: Yes

StopTxnSampledDataMaxLength Maximum number of items in a StopTxSampledData Configuration Key. StopTxSampledData is not supported.
Default value: 0
Type: integer
Readonly: Yes

SupportedFeatureProfiles A list of supported Feature Profiles. Possible profile identifiers: Core, FirmwareManagement, LocalAuthListManagement, Reservation, SmartCharging and RemoteTrigger.
Default value: Core, FirmwareManagement, LocalAuthListManagement, Reservation, SmartCharging, RemoteTrigger
Type: CSL
Readonly: Yes

SupportedFileTransferProtocols List of supported file transfer protocols.
Default value: FTP, FTPS, SFTP
Type: CSL
Readonly: Yes

TransactionMessageAttempts Number of attempts to send transaction related messages.
Default value: 9999
Type: integer
Reset required after change: No
Not implemented

TransactionMessageRetryInterval Delay between attempts to resend transaction related messages.
Default value: 300
Type: integer
Reset required after change: No

UnlockConnectorOnEVSideDisconnect Unlock the connector when the cable is detached from the EV.
Default value: 1
Type: boolean

Reset required after change: No

WebSocketPingInterval Ping-pong interval in seconds for the websocket
Default value: 30
Type: integer
Reset required after change: Yes
0 to disable. A value of 1-4 will be treated as a 5. Any other value is interpreted as the interval.

2 CTEK's own

UtcOffset Local time delta in minutes relative to UTC, used for setting a local time on products that have displays.
Default value: 0
Type: integer
Reset required after change: No

AllowOfflineTxWithoutId When true, set the Charging Station in open mode, ie not requiring an RFID tag, when the Charging Station is offline.
Default value: False
Type: boolean
Reset required after change: No

chargeboxidentity System identity.
Default value: ccu
Type: string
Reset required after change: Yes
Must be matched with backend system.

endpoint URL to the backend endpoint.
Default value: wss://www.oamportal.com/Ocpp/websocket
Type: string
Reset required after change: Yes

CustomizationCtrlEnabled List of enabled customization
Default value:
Value range: se.chargestorm.extendedauth,com.ctek.ngclientstatus
Type: CSL
Reset required after change: Yes
Activate an OCPP customization by adding to this list.

CustomizationCtrlSupported List of supported customization
Default value: se.chargestorm.extendedauth,se.chargestorm.ng.fileops
Type: CSL
Readonly: Yes
Get a list of supported customization by reading the key.
`com.ctek.ngclientstatus` lets the NANOGRID™ controller send updates when clients goes offline/online.
`se.chargestorm.extendedauth` controls the EVSE specific authentication support.
`se.chargestorm.ng.fileops` states that the CS supports installation, removal, and retrieval of the NANOGRID™ configuration file (does not need to be enabled).
`com.ctek.ng.fw` states that the CS (NANOGRID™ controller) supports installation of FW updates on connected clients.

DelayedChargingRandomRange Disable charging for a random time after a reset/restart. This key determines the range for the randomized timeout.
Default value: 30

Value range: 0 disables the delay. Otherwise, delay in seconds.
Type: integer
Reset required after change: Yes

UnavailableOnInvalidTime Prevent charging when system time is invalid.
Default value: False
Type: boolean
Reset required after change: Yes

UnavailableWhenTxnStartNotPossible When set to true, an EVSE will go to state Unavailable when it is detected that no conditions for being able to start a new charging session are met. NOTE: This parameter is overruled by FaultedWhenTxnStartNotPossible.
Default value: False
Type: boolean
Reset required after change: Yes
Conflicting parameters: Authmode=0, FaultedWhenTxnStartNotPossible=True, LocalAuthListEnabled=True, AuthorizationCacheEnabled=True, LocalAuthorizeOffline=True, AllowOfflineTxForUnknownId=True

FaultedWhenTxnStartNotPossible When set to true, an EVSE will go to state Faulted when it is detected that no conditions for being able to start a new charging session are met. NOTE: This parameter overrules UnavailableWhenTxnStartNotPossible.
Default value: False
Type: boolean
Reset required after change: Yes
Conflicting parameters: Authmode=0, UnavailableWhenTxnStartNotPossible=True, LocalAuthListEnabled=True, AuthorizationCacheEnabled=True, LocalAuthorizeOffline=True, AllowOfflineTxForUnknownId=True

KeepGreenPlugLitWhenUnavailable If this parameter is true, the green plug symbol for a connector is lit when the connector is in state Unavailable. If the parameter is false, all LED symbols for a connector is turned off when it is in state Unavailable.
Default value: False
Type: boolean
Reset required after change: Yes

fuse Maximum fuse current rating for the whole system.
Default value: 16
Value range: Typical values 16/20/25
Type: integer
Reset required after change: Yes

PhaseRotation Specifies how the station is electrically connected to the grid
Default value: RST
Type: enumeration
Reset required after change: Yes
A combination of one or more of R, S, T. R denotes L1, S L2, and T L3. x denotes a phase that is

not connected.

localcontroller Enable NanoGrid; Load Balancing.
Default value: 0
Value range: 0/1/2
Type: integer
Reset required after change: Yes
0=No NanoGrid, 1=Full NanoGrid, 2=Home NanoGrid

IsLocalController System is acting as a local controller
Default value: False
Type: boolean
Readonly: Yes
Indicates if the system is a local controller, either as a master unit or a dedicated grid controller (read-only).

LicenseList List of licensed options.
Default value:
Type: CSL
Readonly: Yes
Deprecated: licenses are no longer used

localproxy Local Proxy. This station will act as a proxy for other stations.
Default value: False
Type: boolean
Reset required after change: Yes

modemtemperature Send modem temperature over OCPP.
Default value: False
Type: boolean
Reset required after change: Yes

adhoc/WebPaymentsEnabled Enable the QR code.
Default value: False
Type: boolean
Reset required after change: No

adhoc/WebPaymentsURLTemplate Template for QR code, can include variables which are expanded during runtime
Default value:
Type: string
Reset required after change: No
Available variables: {chargingstationid}: see parameter WebPaymentsChargingStationId, {roamingevseid}: see parameters WebPaymentsRoamingEvseId(1/2), {totp}: Time-based one-time password, {evse}: unique per outlet, expands to 1/2

adhoc/WebPaymentsRoamingEvseId1 Roaming EVSE Id to be used when URL is pointing to an external party.
Default value:
Type: string
Reset required after change: No
Used to replace the {roamingevseid} part in the WebPaymentsURLTemplate

adhoc/WebPaymentsRoamingEvseId2 Roaming EVSE Id to be used when URL is pointing to an external party.
Default value:
Type: string
Reset required after change: No
Used to replace the {roamingevseid} part in the WebPaymentsURLTemplate

adhoc/WebPaymentsChargingStationId If absent, ChargeboxId will be used instead.
Default value:
Type: string
Reset required after change: No
Used to replace the {chargingstationid} part in the WebPaymentsURLTemplate

adhoc/WebPaymentsValidityTime How often TOTP calculation is performed
Default value: 30
Type: integer
Reset required after change: No
Time in seconds to show QR, e.g. 30

adhoc/WebPaymentsSharedSecret Pre-shared key for TOTP calculation
Default value:
Type: string
Reset required after change: No
16-128 bytes long hexadecimal PSK(pre-shared key).

adhoc/WebPaymentsLength Length of the TOTP
Default value: 8
Type: integer
Reset required after change: No

adhoc/WebPaymentsQRCodeQuality Quality of QR codes
Default value: High
Type: enumeration
Readonly: Yes

adhoc/CustomDisplayCostAndPrice Enables features from the OCPP & California Pricing Requirements whitepaper.
Default value: True
Type: boolean
Reset required after change: Yes

adhoc/DefaultPrice A stringified JSON structure. An empty string, or an empty DefaultPrice.priceText will result in no tariff being shown in idle mode.
Default value:
Type: string
Reset required after change: No

adhoc/Currency Currency used for tariff and cost information.
Default value:
Type: string
Reset required after change: Yes
CTEK custom configuration, a similar variable is in the TariffCostCtrlr in OCPP 2.0.1.

signedMeterData/MeterPublicKey1 Configuration key that can be used to retrieve the public key for a meter connected to a specific connector
Default value:
Type: string
Readonly: Yes

signedMeterData/MeterPublicKey2 Configuration key that can be used to retrieve the public key for a meter connected to a specific connector
Default value:
Type: string
Readonly: Yes

signedMeterData/PublicKeyWithSignedMeterValue Controls if/when the public key should be sent together with meter values
Default value: Never
Type: enumeration
Reset required after change: Yes
Never: i.e., would not be sent automatically with signed meter values - would require either manual reading of public key visible physically on EVSE, or requested from the configuration key, OncePerTransaction: sent as part of ending a transaction

signedMeterData/SampledDataSignReadings If set to true, the Charging Station SHALL include signed meter values in the StopTransaction.req to the CSMS for those measurands configured in StopTxnSampledData which can be signed by the certified meter, and optionally in additional messages, as configured by the configuration settings SampledDataSignStartedReadings (see 3.3.5) and SampledDataSignUpdatedReadings (see 3.3.6).
Default value: False
Type: boolean
Reset required after change: Yes

platform/signedMeterData/SignedMeterCapable Charger support handling signed meter data
Default value: False
Type: boolean
Reset required after change: Yes

display/CustomMultiLanguageMessages True when charging station supports multiple languages from the OCPP & California Pricing Requirements whitepaper.
Default value: True
Type: integer
Readonly: Yes

display/SupportedLanguages Comma separated list of supported language codes, per RFC5646.
Default value: sv, en, de
Type: CSL
Readonly: Yes

display/Language Default language for display
Default value: en
Value range: en/sv/de
Type: enumeration
Reset required after change: Yes

display/SupportSite Website for contacting support, shown when outlet is faulted, leave empty to omit
Default value:
Type: string
Reset required after change: No

display/SupportText Freeform text shown when outlet is faulted, leave empty to omit
Default value:
Type: string
Reset required after change: No

display/ScreenSaverSlideDuration how often to cycle to the next screensaver image in Seconds
Default value: 30
Type: integer
Reset required after change: No

pin/StationPinCodeEnable If pin code needs to be provided before authentication of charging
Default value: False
Type: boolean
Reset required after change: No

pin/StationPinCodeAllowRemoteStart Allow remoteStart without first authenticating using pinCode if pinCode is enabled
Default value: True
Type: boolean
Reset required after change: No

pin/StationPinCode 4 number Pincode
Default value:

Type: string
Reset required after change: No

ConnectedNGCIdentity Connected NanoGrid controller identity.
Default value: N/A
Type: string
Readonly: Yes

ngcidentity Charging station identity of the NanoGrid controller.
Default value:
Type: string
Reset required after change: Yes
Leave empty for autodetection. Other values should rarely be used.

NanoGridControllerSecurity Setting for NanoGrid security.
Default value: none
Value range: none/PSK
Type: CSL
Reset required after change: Yes
Use PSK for pre-shared key or none for no security.

NanoGridClientPresharedKey Pre-shared key for NanoGrid security.
Default value:
Type: string
Reset required after change: Yes
16-128 bytes long hexadecimal PSK(pre-shared key).

nghome/meter_current Nanogrid Home modbus energy meter current on phases L1, L2 and L3.
Default value: N/A
Type: string
Readonly: Yes

nghome/meter_serialno Nanogrid Home modbus energy meter serial
Default value: N/A
Type: string
Readonly: Yes
Serial number of the nanogrid home energy meter

nghome/meter_totalenergy Nanogrid Home modbus energy meter total energy
Default value: N/A
Type: string
Readonly: Yes
Total energy value of the nanogrid home energy meter

NGHomeMeterType Type of energy meter used for NANOGRID Home.
Default value: modbus

Type: string
Reset required after change: Yes
Modbus energy meter or NANOGRID AIR.

NtpServerUri Uri to the selected ntp server.
Default value: 0.chargestorm.pool.ntp.org
Type: string
Reset required after change: Yes

onlinetimeout Online Timeout (Minutes). How long to wait before rebooting due to no connectivity.
Default value: 1440
Type: integer
Reset required after change: Yes
Set to 0 to disable.

availability Charging enabled
Default value: 0.Operative, 1.Operative, 2.Operative
Type: CSL
Readonly: Yes
Should be changed through the ChangeAvailability.req.

outlet/1/authmode Authentication Mode for Charging.
Default value: 0
Type: integer
Reset required after change: No
Defines whether the charging outlet requires authentication. 0=No authentication required, 1=Authentications is required, for example an RFID tag or a remote start via OCPP

outlet/1/contactor_cycle_count Contactor Cycle Count for the first outlet
Default value:
Type: CSL
Readonly: Yes
Comma separated list containing two values, the first is the number of contactor cycles (shut->open) that has happened with no load (< 0.2A), the second value is with load.

outlet/1/connections Connections, phase connections
Default value:
Type: CSL
Readonly: Yes
Comma separated list describing the phase connections. 1,0,0 means phase 1 is connected on inlet 1. 1,2,3 means phase 1 is connected on inlet 1 etc. 3,0,0 means phase 3 is connected on inlet 1.
Deprecated: This parameter is deprecated. Use PhaseRotation to specify how the station is connected to the grid.

outlet/1/opentag Open Tag; what tag to report when authmode is open.
Default value: 0

Type: string
Reset required after change: Yes

outlet/1/fallback_current In NanoGrid installations, allowed charging current when the connection to the controller is lost.
Default value: 0
Type: integer

outlet/1/fallback_output In NanoGrid installations, which phase to use when the connection to the controller is lost.
Default value: 1
Type: integer
Reset required after change: Yes
Only valid for phase switching stations. 0 - disabled, 1 - 3 phase, 2 - only L1, 3 - only L2, 4 - only L3.

outlet/1/session_energy_limit Upper limit for charging session, will stop charging once reached, first outlet
Default value: 0
Type: integer
Reset required after change: Yes
Energy Limit (kWh), set to 0 to disable

outlet/1/meter_serialno First modbus energy meter serial
Default value: N/A
Type: string
Readonly: Yes
Serial number of the first outlet modbus energy meter

outlet/1/meter_totalenergy First outlet modbus energy meter total energy
Default value: N/A
Type: number
Readonly: Yes
Total energy value of the first outlet modbus energy meter

outlet/1/allow_charging_on_lock_error Allow/prohibit charging on lock errors, first outlet, only valid for CC2 chargers
Default value: False
Type: boolean
Reset required after change: Yes

outlet/1/keep_cable_locked Keep the cable locked between sessions.
Default value: False
Type: boolean
Reset required after change: Yes
Only valid for stations without fixed cable.

outlet/1/UserMinAssignment Minimum current assignment for outlet 1 set by user
Default value:
Type: string
Reset required after change: Yes

outlet/1/UserMaxAssignment Maximum current assignment for outlet 1 set by user
Default value:
Type: string
Reset required after change: Yes

outlet/2/authmode Authentication Mode for Charging.
Default value: 0
Type: integer
Reset required after change: No
Defines whether the charging outlet requires authentication. 0=No authentication required, 1=Authentications is required, for example an RFID tag or a remote start via OCPP

outlet/2/contactor_cycle_count Contactor Cycle Count for the second outlet
Default value:
Type: CSL
Readonly: Yes
Comma separated list containing two values, the first is the number of contactor cycles (shut->open) that has happened with no load (< 0.2A), the second value is with load.

outlet/2/connections Connections, phase connections
Default value:
Type: CSL
Readonly: Yes
Comma separated list describing the phase connections. 1,0,0 means phase 1 is connected on inlet 2. 1,2,3 means phase 1 is connected on inlet 1 etc. 3,0,0 means phase 3 is connected on inlet 2.
Deprecated: This parameter is deprecated. Use PhaseRotation to specify how the station is connected to the grid.

outlet/2/opentag Open Tag; what tag to report when authmode is open.
Default value: 0
Type: string
Reset required after change: Yes

outlet/2/fallback_current In NanoGrid installations, allowed charging current when the connection to the controller is lost.
Default value: 0
Type: integer
Reset required after change: Yes

outlet/2/fallback_output In NanoGrid installations, which phase to use when the connection to the controller is lost.

Default value: 1
Type: integer
Reset required after change: Yes
Only valid for phase switching stations. 0 - disabled, 1 - 3 phase, 2 - only L1, 3 - only L2, 4 - only L3.

outlet/2/session_energy_limit Upper limit for charging session, will stop charging once reached, second outlet
Default value: 0
Type: integer
Reset required after change: Yes
Energy Limit (kWh), set to 0 to disable

outlet/2/meter_serialno Second modbus energy meter serial
Default value: N/A
Type: string
Readonly: Yes
Serial number of the second outlet modbus energy meter

outlet/2/meter_totalenergy Second outlet modbus energy meter total energy
Default value: N/A
Type: number
Readonly: Yes
Total energy value of the second outlet modbus energy meter

outlet/2/allow_charging_on_lock_error Allow/prohibit charging on lock errors, second outlet, only valid for CC2 chargers
Default value: False
Type: boolean
Reset required after change: Yes

outlet/2/keep_cable_locked Keep the cable locked between sessions.
Default value: False
Type: boolean
Reset required after change: Yes
Only valid for stations without fixed cable.

outlet/2/UserMinAssignment Minimum current assignment for outlet 2 set by user
Default value:
Type: string
Reset required after change: Yes

outlet/2/UserMaxAssignment Maximum current assignment for outlet 2 set by user
Default value:
Type: string
Reset required after change: Yes

phasesequence Report phase sequence. (Clockwise L1-L2-L3, counterclockwise L1-L3-L2)
Default value: N/A
Type: CSL
Readonly: Yes
This is only supported with a few energy meters.

pingreboot/retries Retries before lost connectivity is signaled.
Default value: 3
Type: integer
Reset required after change: Yes
Primarily of use for modem connected stations.

pingreboot/server Ping server. Used to verify connectivity.
Default value: 8.8.8.8
Type: string
Reset required after change: Yes
Primarily of use for modem connected stations.

pingreboot/timeout Number of minutes between ping attempts.
Default value: 15
Type: integer
Reset required after change: Yes
Primarily of use for modem connected stations.

progtags Programming tag
Default value:
Type: CSL
Reset required after change: Yes
Tag that can be used to put the station in programming mode, in order to add more local tags manually.

protocol Backend communication Protocol
Default value: NONE
Value range: NONE, OCPP16J, OCPP16
Type: CSL
Reset required after change: No
OCPP16 is an alias to OCPP16J, but please use OCPP16J.

relayscheduler Enable relay scheduler.
Default value: False
Type: boolean
Reset required after change: Yes
Do not enable unless requested.

relay/1/starttime Start time for relay 1
Default value: 0
Value range: hh:mm

Type: string
Reset required after change: Yes
Not used on most chargers.

relay/1/stoptime Stop time for relay 1
Default value: 0
Value range: hh:mm
Type: string
Reset required after change: Yes
Not used on most chargers.

relay/2/starttime Start time for relay 2
Default value: 0
Value range: hh:mm
Type: string
Reset required after change: Yes
Not used on most chargers.

relay/2/stoptime Stop time for relay 2
Default value: 0
Value range: hh:mm
Type: string
Reset required after change: Yes
Not used on most chargers.

resetresume Resume on Reset. When rebooted, allow charging for a short period.
Default value: True
Type: boolean
Reset required after change: Yes
Ignored if zeready is enabled, will then always be used.

resetresumetransactiontimeout Resume transaction on reset timeout (s). When rebooted, start a new transaction with the previous credential, if the last saved update is within this timeout.
Default value: 360
Type: integer
Reset required after change: Yes
Requires either resetresume or zeready to be enabled.

RfidEnabled Should the RFID reader be enabled.
Default value: True
Type: boolean
Reset required after change: No
false - disable RFID reader, true - enable the reader. If enabled, the reader(s) will anyway be disabled if all EVSE's are in open state.

Iso15118AutoChargeEnabled Should autoCharge be enabled.
Default value: False

Type: boolean
Reset required after change: No
false - disable AutoCharge, true - enable AutoCharge. If enabled, the functionality will anyway be disabled if all EVSE's are in open state.

sshPort Port for the SSH service interface.
Default value: 22
Value range: 1 - 65535. 0 disables SSH access.
Type: integer
Reset required after change: Yes

systemnotifiertimeout System Notification Timeout (seconds)
Default value: 0
Type: integer
Reset required after change: Yes

TimeSource List of selected time sources.
Default value: heartbeat, ntp
Value range: heartbeat, ntp
Type: CSL
Reset required after change: No
Only the first source is used continuously. There are only three supported configurations: 'heartbeat', 'heartbeat, ntp', and 'ntp'.

TransmitSecurityEvents Filter what security events are sent to the backend.
Default value: none
Value range: none/important/all
Type: enumeration
Reset required after change: Yes
none: No security events are sent to backend. important: The most critical events are sent to the backend. all: All security events are sent to the backend.

ups Do not charge when UPS xxxx
Default value: False
Type: boolean
Reset required after change: Yes

meter_connection_timeout External energy meter connection timeout.
Default value: 0
Type: integer
Reset required after change: Yes
If an external energy meter has not responded to requests for MeterConnectionTimeout seconds, it is assumed to be faulty. For NANOGRID(TM) controllers, all outlets downstream of the meter are disabled. Setting this value to 0 disables the function, meaning loss of meter connection is ignored.

pause_on_faulty_energy_meter Disable charging if internal energy meter is faulty
Default value: False

Type: boolean
Readonly: Yes
An energy meter is considered faulty when it has not responded to requests for 20 seconds.

zeready Make the station ZE Ready compliant.
Default value: False
Type: boolean
Reset required after change: Yes
Check with ChargeStorm for implications.

tampering_enabled Enable tampering detection.
Default value: False
Type: boolean
Reset required after change: Yes
Tampering events will be stored in the secure log and sent via OCPP SecurityEventNotification.

max_display_brightness Maximum display brightness. 0 - 7 (0 = off, 7 = max). Only for CC3 with display
Default value: 4
Value range: 0 - 7
Type: integer
Reset required after change: Yes

3 Automation

Automation/MqttEnabled Enable the automation interface (MQTT).
Default value: False
Type: boolean
Reset required after change: Yes
This will enable the automation interface. Currently, this will send energy meter readings, info, and EVSE status info to the MQTT broker

Automation/MqttServer The address / IP address of the MQTT broker.
Default value:
Type: string
Reset required after change: Yes
An empty string will use the internal MQTT broker on the Charging Station itself.

Automation/MqttPort The port number that the MQTT broker listens on.
Default value: 1883
Value range: 1 - 65535.
Type: integer
Reset required after change: Yes
Defaults to 1883.

Automation/MqttLogin A username / login for the MQTT broker.
Default value:
Type: string
Reset required after change: Yes
Leave empty if no username / login is required.

Automation/MqttPassword MQTT broker password
Default value:
Type: string
Reset required after change: Yes
Leave empty if no password is required.

Automation/MqttBaseTopic The base topic (prefix) that should be used.
Default value:
Type: string
Reset required after change: Yes
If left empty, CTEK, will be used as the base topic (prefix).

Automation/ModbusTCPEnable Enable Modbus TCP, which exposes internal energy meter data via the modbus protocol
Default value: False
Type: boolean
Reset required after change: Yes
Uses port 502. The Unit Identifier in the modbus request is used to select energy meter: 1: EVSE1 2: EVSE2

Automation/modbus_tcp_automation_api_version Set the API version of the ModbusTCP server that exposes internal energy meter data.
Default value: 1
Type: integer
Reset required after change: Yes
API version 1 uses modbus addresses 0x1000 -> 0x1008, 0x1100 -> 0x1108. Version 2 uses 0x2000 -> 0x2008, 0x2100 -> 0x2108. Version 2 can be enabled to not clash addresses with the NANOGRID limit control that also uses Modbus TCP.

Automation/modbus_tcp_nanogrid_control_api_version Set the API version of the ModbusTCP server that allows external control of NANOGRID limit.
Default value: 1
Type: integer
Reset required after change: Yes
API version 1 uses modbus addresses 0x1000 -> 0x1003. Version 2 uses 0x3000 -> 0x3000. Version 2 can be enabled to not clash addresses with the 'Automation' ModbusTCP server.

Automation/UpdateInterval The update interval, in seconds, currently only used with MQTT.
Default value: 10
Type: integer
Reset required after change: Yes
Depending on the type of energy meter, you might either get identical meter data or the update frequency might be lower.

4 Network

gateway Gateway
Default value:
Type: string
Reset required after change: Yes

nameserver Nameserver 1
Default value: 8.8.8.8
Type: string
Reset required after change: Yes

nameserver2 Nameserver 2
Default value: 8.8.4.4
Type: string
Reset required after change: Yes

wan Upstream network interface.
Default value: eth0
Value range: eth0/wlan0/modem
Type: enumeration
Reset required after change: Yes
Note: wwan0 is only supported from r2.7.7.6. Note2: ppp0 and wwan0 were replaced with modem starting from r4.5.0

interface/config/firewall/ssh Enable ssh on configuration interface
Default value: False
Type: boolean
Reset required after change: Yes

interface/eth/firewall/ssh Enable ssh on ethernet interface(s)
Default value: False
Type: boolean
Reset required after change: Yes
Only available for CC2 and CGC

interface/eth/firewall/webui Enable web UI on ethernet interface(s)
Default value: False
Type: boolean
Reset required after change: Yes

interface/eth0/autoneg Autonegotiation
Default value: True
Type: boolean
Reset required after change: Yes
Leave disabled unless requested.

interface/eth0/duplex Force duplex.
Default value: full
Type: enumeration
Reset required after change: Yes
Ignored if autoneg is enabled.

interface/eth0/ip Static IP Address used if DHCP is disabled
Default value:
Type: string
Reset required after change: Yes

interface/eth0/method eth0
Default value: dhcp
Value range: none/dhcp/manual
Type: enumeration
Reset required after change: Yes

interface/eth0/netmask Netmask
Default value:
Type: string
Reset required after change: Yes

interface/eth0/speed Force speed.
Default value: 100
Value range: 10/100
Type: integer
Reset required after change: Yes
Ignored if autoneg is enabled.

interface/eth0/dhcpServer Enable DHCP server on eth0.
Default value: False
Type: boolean
Reset required after change: Yes
The DHCP server will only be enabled if localproxy is enabled, WAN is set to modem, and eth0 has a static IP configuration.

interface/eth0/dhcpServerRangeBegin Start of the DHCP IP address range.
Default value:
Type: string
Reset required after change: Yes
The DHCP server will only be enabled if localproxy is enabled, WAN is set to modem, and eth0 has a static IP configuration.

interface/eth0/dhcpServerRangeEnd End of the DHCP IP address range.
Default value:
Type: string
Reset required after change: Yes

The DHCP server will only be enabled if localproxy is enabled, WAN is set to modem, and eth0 has a static IP configuration.

HostName This parameter allows the user to assign a custom name to their unit for easier identification and management.
Default value:
Type: string
Reset required after change: Yes

interface/eth1/autoneg Autonegotiation
Default value: True
Type: boolean
Reset required after change: Yes
Leave disabled unless requested.

interface/eth1/duplex Force duplex.
Default value: full
Value range: half/full
Type: enumeration
Reset required after change: Yes
Ignored if autoneg is enabled.

interface/eth1/ip Static IP Address used if DHCP is disabled
Default value:
Type: string
Reset required after change: Yes

interface/eth1/method Configuration method
Default value: dhcp
Value range: none/dhcp/manual
Type: enumeration
Reset required after change: Yes

interface/eth1/netmask Netmask
Default value:
Type: string
Reset required after change: Yes

interface/eth1/speed Force speed.
Default value: 100
Value range: 10/100
Type: integer
Reset required after change: Yes
Ignored if autoneg is enabled.

interface/ppp0/firewall/ssh Enable ssh on PPP interface
Default value: False

Type: boolean
Reset required after change: Yes
Only available for CC2 and CGC
Deprecated: Replaced by interface/modem/firewall/ssh

interface/ppp0/pin PIN for the modem SIM card.
Default value:
Type: string
Reset required after change: Yes
Deprecated: Replaced by interface/modem/pin

interface/ppp0/apn APN for the modem, primary for use with PPP.
Default value:
Type: string
Reset required after change: Yes
Deprecated: Replaced by interface/modem/apn

interface/ppp0/ip IP Address
Default value:
Type: string
Reset required after change: Yes
Usually empty.
Deprecated: This parameter is no longer in use

interface/ppp0/method Use DHCP or not for the PPP link.
Default value: dhcp
Value range: dhcp, manual
Type: enumeration
Reset required after change: Yes
Do not modify unless instructed to do so.
Deprecated: This parameter is no longer in use

interface/ppp0/netmask Netmask
Default value:
Type: string
Reset required after change: Yes
Usually empty.
Deprecated: This parameter is no longer in use

interface/ppp0/password Password
Default value:
Type: string
Reset required after change: Yes
Usually empty.
Deprecated: Replaced by interface/modem/apn/password

interface/ppp0/rat Selection for radio technology; force 2G / 4G / auto.
Default value: 3G

Value range: auto/2G/4G
Type: enumeration
Reset required after change: Yes
Intended to be used with our LTE/4G modems.
Should not be changed from 3G for the 3G modems!
Deprecated: Replaced by interface/modem/apn/rat

interface/ppp0/username Username
Default value:
Type: string
Reset required after change: Yes
Deprecated: Replaced by interface/modem/apn/username

interface/modem/firewall/ssh Enable ssh on modem interface
Default value: False
Type: boolean
Reset required after change: Yes
Only available for CC2 and CGC

interface/modem/firewall/webui Enable web UI on modem interface
Default value: False
Type: boolean
Reset required after change: Yes

interface/modem/pin PIN for the modem SIM card.
Default value:
Type: string
Reset required after change: Yes

interface/modem/apn APN for the modem.
Default value:
Type: string
Reset required after change: Yes

interface/modem/apn/username Username
Default value:
Type: string
Reset required after change: Yes
Usually empty.

interface/modem/apn/password Password
Default value:
Type: string
Reset required after change: Yes
Usually empty.

interface/modem/apn/rat Selection for radio technology; force 2G / 3G / 4G.
Default value: auto
Value range: auto/2G/3G/4G
Type: enumeration
Reset required after change: Yes

interface/wlan0/firewall/ssh Enable ssh on WLAN interface
Default value: False
Type: boolean
Reset required after change: Yes
Only available for CC2 and CGC

interface/wlan0/firewall/webui Enable web UI on WLAN interface
Default value: False
Type: boolean
Reset required after change: Yes

interface/wlan0/enable Enable/Disable Wi-Fi interface.
Default value: false
Type: boolean
Reset required after change: Yes

interface/wlan0/channel Channel
Default value:
Type: integer
Reset required after change: Yes

interface/wlan0/ip Static IP Address used if DHCP is disabled
Default value:
Type: string
Reset required after change: Yes

interface/wlan0/method Configuration method
Default value: dhcp
Value range: none/dhcp/manual
Type: enumeration
Reset required after change: Yes

interface/wlan0/mode Mode
Default value: client
Value range: none/client/ap
Type: enumeration
Reset required after change: Yes

interface/wlan0/netmask Netmask
Default value:

Type: string
Reset required after change: Yes

interface/wlan0/passphrase Passphrase
Default value:
Type: string
Reset required after change: Yes

interface/wlan0/ssid SSID
Default value:
Type: string
Reset required after change: Yes

interface/wlan0/security Wifi security
Default value:
Type: string
Reset required after change: Yes

interface/wwan0/firewall/ssh Enable ssh on WWAN interface
Default value: False
Type: boolean
Reset required after change: Yes
Only available for CC2 and CGC
Deprecated: Replaced by interface/modem/firewall/ssh

interface/wwan0/apn APN for wwan-mode
Default value:
Type: string
Reset required after change: Yes
Has interface/ppp0/apn as fallback.
Deprecated: Replaced by interface/modem/apn

ModemFirmware Currently running modem firmware.
Default value: N/A
Type: string
Readonly: Yes
Currently running modem firmware (read-only).

5 Internal development and debugging

persistentlogging Enable system logging to flash.
Default value: False
Type: boolean
Reset required after change: Yes
Leave disabled unless requested.

LogLevel Log level of system log.
Default value: info
Value range: emerg/alert/crit/err/warning/notice/info/debug
Type: enumeration
Reset required after change: No

demo Demo mode activation
Default value: False
Type: boolean
Reset required after change: Yes
false=Regular operation, true=Demo mode. In demo mode a virtual board wil be used that emits random mode changes and fuse states. Note that the regular configuration will still apply. E.g a disabled fuse check will remove the fuse trips and required authentication will prevent the station from entering any session state.

development/delayed_modbus ???
Default value: False
Type: boolean
Reset required after change: Yes
Do not enable unless instructed.

6 HW

platform/hwfeatures/EichrechtCertified Charger is a certified eichrecht charger
Default value: False
Type: boolean
Reset required after change: Yes

platform/hwfeatures/HasDisplay Hardware is equipped with a display
Default value: False
Type: boolean
Reset required after change: Yes

ChargingStationModel Charging station model
Default value: N/A
Type: string
Readonly: Yes
The model name of the charging station

ChargingStationModelVersion Charging station model version
Default value: N/A
Type: string
Readonly: Yes
The model version of the charging station

ChargingStationVendor Charging station vendor
Default value: N/A
Type: string
Readonly: Yes
The vendor of the charging station

FirmwareVersion Firmware version
Default value: N/A
Type: string
Readonly: Yes
The current version of the firmware installed on the CCU

hw_rev Hardware revision
Default value: N/A
Type: string
Readonly: Yes
The hardware revision of the CCU

platform/hwfeatures/lcd LCD presence
Default value: False
Type: boolean
Readonly: Yes
false=No LCD present, true=LCD present

platform/hwfeatures/tampering Tampering sensor presence
Default value: False
Type: boolean
Readonly: Yes
false=Tampering sensor not present, true=Tampering sensor present

platform/hwfeatures/wifi Wi-Fi capabilities present on device.
Default value: False
Type: boolean
Readonly: Yes
false=Device does not have Wi-Fi capabilities, true=Device has Wi-Fi capabilities.

platform/hwfeatures/NetworkBridge Capability to act as a wired network bridge
Default value: False
Type: boolean
Readonly: Yes
Two or more ports are required to utilize this functionality

platform/hwfeatures/mcu_version Installed MCU Firmware Version
Default value: 2
Type: integer
Readonly: Yes

platform/hwfeatures/rfid_devices Number of RFID devices
Default value: 0
Value range: 0/1/2
Type: integer
Readonly: Yes

platform/hwfeatures/rfid_type RFID reader hardware
Default value: 0
Value range: 0/1/2
Type: integer
Readonly: Yes
0=RS485, 1=I2C based, 2 = Chargestorm Connected

mfgdate Manufacture date
Default value: N/A
Type: string
Readonly: Yes
String containing the year and date the CCU was manufactured

platform/outlet/1/connector First connector type
Default value: 2
Type: integer

Readonly: Yes
0=Schuko, 1=Type 1, 2=Type 2 Cable, 3=Type 2 Outlet

platform/outlet/1/contactor_check Check Contactor
Default value: False
Type: boolean
Readonly: Yes
Check if the contactor is in the proper state (requires appropriate hardware)

platform/outlet/1/ConnectorPhaseRotation Specifies how the EVSE connector is electrically connected internally in the station. Relates to outlet/1/EvsePhaseRotation.
Default value: RST
Type: enumeration
Readonly: Yes
A combination of one or more of R, S, T. R denotes L1, S L2, and T L3. x denotes a phase that is not connected.

platform/outlet/1/EvsePhaseRotation Specifies how the EVSE is electrically connected internally in the station. Relates to StationPhaseRotation.
Default value: RST
Type: enumeration
Readonly: Yes
A combination of one or more of R, S, T. R denotes L1, S L2, and T L3. x denotes a phase that is not connected.

platform/outlet/1/ACPhaseSwitchingSupported Specifies whether the EVSE is capable of selecting which phase to connect to the EV for 1 phase charging.
Default value: False
Type: boolean
Readonly: Yes

platform/outlet/1/energymeter First energy meter type
Default value: -1
Type: integer
Readonly: Yes
-1=None, 0=Trafo Meter, 1=Pulse Meter, 2=Modbus Meter

platform/outlet/1/fuse Fuse Rating
Default value: 16
Type: integer
Readonly: Yes
Rating of the outlet fuse

platform/outlet/1/fuse_check Check for fuse trip
Default value: True
Type: boolean
Readonly: Yes

Should the system detect if the fuse has been tripped? false=Disabled, true=Enabled

platform/outlet/1/phases Number of phases
Default value: 1
Value range: 1/3
Type: integer
Readonly: Yes

platform/outlet/1/plug_lock_engine Lock engine type
Default value: 1
Type: integer
Readonly: Yes
0=None, 1=Motor w/o feedback, 2=Motor with feedback, 3=Solenoid. NOTE: only applicable for type 2 outlets

platform/outlet/1/energy_div Energy divider
Default value: 1000
Type: integer
Readonly: Yes
Number of pulses to 1 kWh when using a pulse meter

platform/outlet/1/plc_capable Is outlet capable of having a PLC modem
Default value: False
Type: boolean
Readonly: Yes

platform/outlet/2/plc_capable Is outlet capable of having a PLC modem
Default value: False
Type: boolean
Readonly: Yes

outlet/1/plc_modem Plc Modem is present on outlet
Default value: none
Value range: none/insys/lumisil
Type: enumeration
Reset required after change: Yes
none= no modem present, insys= insys modem present, lumisil= lumisil modem present

outlet/2/plc_modem Plc Modem is present on outlet
Default value: none
Value range: none/insys/lumisil
Type: enumeration
Reset required after change: Yes
none= no modem present, insys= insys modem present, lumisil= lumisil modem present

outlet/1/evse_id EVSEID as defined by ISO15118-2
Default value: ZZ000E1
Type: string
Reset required after change: Yes
EVSEID as defined by the ISO15118-2 standard, should only be changed if EVSE Operator has been issued a unique EVSE operator ID by the eMI3 group.

outlet/2/evse_id EVSEID as defined by ISO15118-2
Default value: ZZ000E2
Type: string
Reset required after change: Yes
EVSEID as defined by the ISO15118-2 standard, should only be changed if EVSE Operator has been issued a unique EVSE operator ID by the eMI3 group.

outlet/1/charge_mode_priority The charge mode priority sets the order when trying to set up a charging session
Default value: only_basic
Type: enumeration
Reset required after change: Yes
iso15118: try to set up ISO15118, fallback to basic charging. only_basic: only use basic charging.

outlet/2/charge_mode_priority The charge mode priority sets the order when trying to set up a charging session
Default value: only_basic
Type: enumeration
Reset required after change: Yes
iso15118: try to set up ISO15118, fallback to basic charging. only_basic: only use basic charging.

platform/outlet/2/connector Second connector type
Default value: 2
Type: integer
Readonly: Yes
0=Schuko, 1=Type 1, 2=Type 2 Cable, 3=Type 2 Outlet

platform/outlet/2/contactor_check Check Contactor
Default value: False
Type: boolean
Readonly: Yes
Check if the contactor is in the proper state (requires appropriate hardware)

platform/outlet/2/ConnectorPhaseRotation Specifies how the EVSE connector is electrically connected internally in the station. Relates to outlet/2/EvsePhaseRotation.
Default value: RST
Type: enumeration
Readonly: Yes
A combination of one or more of R, S, T. R denotes L1, S L2, and T L3. x denotes a phase that is not connected.

platform/outlet/2/EvsePhaseRotation Specifies how the EVSE Energy Meter is electrically connected internally in the station. Relates to StationPhaseRotation.
Default value: RST
Type: enumeration
Readonly: Yes
A combination of one or more of R, S, T. R denotes L1, S L2, and T L3. x denotes a phase that is not conn

platform/outlet/2/ACPhaseSwitchingSupported Specifies whether the EVSE is capable of selecting which phase to connect to the EV for 1 phase charging.
Default value: False
Type: boolean
Readonly: Yes

platform/outlet/2/energymeter Second energy meter type
Default value: -1
Type: integer
Readonly: Yes
-1=None, 0=Trafo Meter, 1=Pulse Meter, 2=Modbus Meter

platform/outlet/2/fuse Fuse Rating
Default value: 16
Type: integer
Readonly: Yes
Rating of the outlet fuse

platform/outlet/2/fuse_check Check for fuse trip
Default value: True
Type: boolean
Readonly: Yes
Should the system detect if the fuse has been tripped? false=Disabled, true=Enabled

platform/outlet/2/phases Number of phases
Default value: 1
Value range: 1/3
Type: integer
Readonly: Yes

platform/outlet/2/plug_lock_engine Lock engine type
Default value: 1
Type: integer
Readonly: Yes
0=None, 1=Motor w/o feedback, 2=Motor with feedback, 3=Solenoid. NOTE: only applicable for type 2 outlets

platform/outlet/2/energy_div Energy divider
Default value: 1000

Type: integer
Readonly: Yes
Number of pulses to 1 kWh when using a pulse meter

platform/system/rfid_format RFID Format
Default value: true
Type: boolean
Readonly: Yes
true=Little Endian, false= Big Endian CONFIRM

serialno Serial number
Default value: N/A
Type: string
Readonly: Yes
Serial number of the CCU

platform/system/ProductSerial Product Serial number
Default value:
Type: string
Readonly: Yes
Serial number of the EVSE