

OCPP Protocol Connectivity Guide

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Safety Information

Important Information




Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.


 DANGER
DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING
WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION
CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE
NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.

Please Note

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation and has received safety training to recognize and avoid the hazards involved.

Safety Instructions

 DANGER
HAZARD OF ELECTRIC SHOCK
<ul style="list-style-type: none"> • Do not open the product. • Product to be serviced by qualified personnel only.
Failure to follow these instructions will result in death or serious injury.

NOTE: All instructions applicable to the enclosed product and all safety precautions must be observed.

For more information, you can download the app of the Customer Care Center by using the following QR code:



About the Book

Purpose of this Document

The purpose of this document is to guide you with the connectivity of EVlink Pro DC / Schneider StarCharge Fast range with OCPP 1.6 supervision.

Document Version History

Document reference version	Release date	Evolution
09	04/16/2026	Added downloading logo and screensaver images for DataTransfer.
08	01/28/2026	Data transfer screen update Tariff screen update
07	09/25/2025	Error Codes update
06	05/16/2025	Added Schneider StarCharge Fast 60 supports. Added Schneider StarCharge Fast 320 and Schneider StarCharge Fast 180 support.
05	01/15/2025	Message definition for being able to customize tariff display has been added. OCPP 1.6 Security white paper support was added for messages and keys. Apply to EVlink Pro DC 60 firmware version: 2.6.11 Apply to EVlink Pro DC 180 firmware version: 2.7.06
04	12/07/2024	Product Family section was modified Eichrecht reference added
02	03/07/2024	Pro DC OCMF Guide added as a reference
01	20/05/2023	Specific keys added Error table simplification
00	14/09/2022	Document creation

Terminology

Acronym	Designation
OCPP	Open Charge Point Protocol (communication protocol used between the charging stations and a central system)

Related Documents

Document title	Document reference version	Author	Release date	Link
Open Charge Point Protocol 1.6	1.6	Open Charge Alliance	12/2019	https://openchargealliance.org/
Improved security for OCPP 1.6-J	1.0	Open Charge Alliance	02/2023	https://openchargealliance.org/
Pro DC OCMF Guide BRU5102501	1.0	Schneider Electric	07/2024	

Information on Non-Inclusive or Insensitive Terminology

As a responsible, inclusive company, Schneider Electric is constantly updating its communications and products that contain non-inclusive or insensitive terminology. However, despite these efforts, our content may still contain terms that are deemed inappropriate by some customers.

Product Family

This document is applicable to the entire range of Schneider Electric DC chargers, including the following products:

- EVlink Pro DC 60
- EVlink Pro DC 180
- Schneider StarCharge Fast 180
- Schneider StarCharge Fast 320
- Schneider StarCharge Fast 60

Supervision Commissioning

For more information on supervision commissioning, refer to the related Commissioning Guide. This document is not available in the Schneider Electric Download Center. Contact your Schneider Electric representative to get access to this guide.

Supported OCPP Operations

The supported protocol is OCPP 1.6 JSON.

The following table details the supported OCPP messages:

Supported messages

Operations initiated by charge point:

Operation group	Message	Supported	Comment
Core	Authorize	√	
	BootNotification	√	Details in section, page 9 BootNotification
	Heartbeat	√	

Operation group	Message	Supported	Comment
	MeterValues	√	Details in section, page 10 MeterValues
	StartTransaction	√	
	StatusNotification	√	Details in section, page 10 StatusNotification
	StopTransaction *	√	
Firmware Management	DiagnosticsStatusNotification	√	
	FirmwareStatusNotification	√	
Security Extension	LogStatusNotification	√	
	SecurityEventNotification	√	
	SignCertificate	√	
	SignedFirmwareStatusNotification	√	

- * StopTransaction: Power loss during ongoing transaction
- For EVlink Pro DC 60/180, StopTransaction will be sent to CSMS after charger boot up when power supply is recovered.
 - For Schneider StarCharge Fast 60/180/320, StopTransaction will be sent to CSMS before charger shutting down.

Operations initiated by central system:

Operation group	Message	Supported	Comment
Core	ChangeAvailability	√	
	ChangeConfiguration	√	
	ClearCache	√	
	DataTransfer	√	
	GetConfiguration	√	
	RemoteStartTransaction	√	
	RemoteStopTransaction	√	
	Reset	√	
	UnlockConnector	√	Not applicable
Firmware Management	GetDiagnostics	√	Details in section, page 11 GetDiagnostics
	UpdateFirmware	√	Details in section, page 11 UpdateFirmware
Local Authentication List Management	GetLocalListVersion	√	
	SendLocalList	√	
Reservation	CancelReservation	√	
	ReserveNow	√	
Smart charging	GetCompositeSchedule	√	
	ClearChargingProfile	√	

	SetChargingProfile	√	Details in section, page 10 SetChargingProfile
Remote trigger	TriggerMessage	√	
Security Extension	CertificateSigned	√	
	DeleteCertificate	√	
	GetInstalledCertificateIds	√	
	ExtendedTriggerMessage	√	
	GetLog	√	
	InstallCertificate	√	
	SignedUpdateFirmware	√	

BootNotification

- **chargePointModel**: commercial reference depending on the model
- **chargePointVendor**: Schneider Electric
- **chargePointSerialNumber**
- **firmwareVersion**

DataTransfer

Supported DataTransfer from Charge Point Operator (CPO):

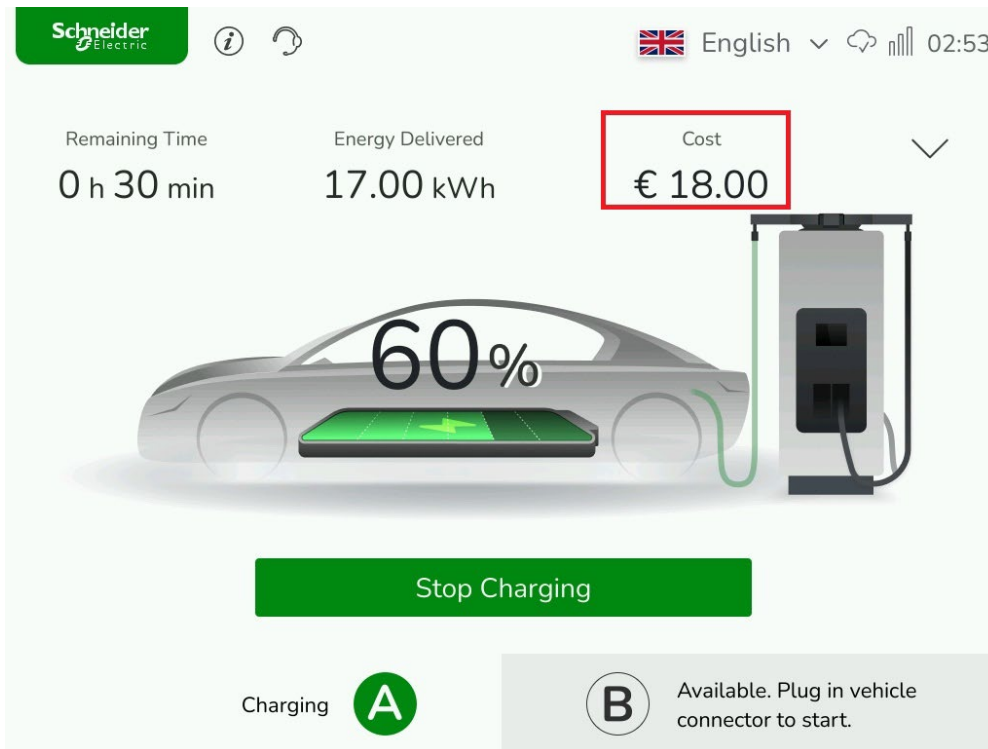
- **CostUpdated:**

This message is used to be able to display in real time, dynamically, the effective cost of the charger for the EV driver. On the EVSE HMI the EV driver can see cost displayed and increasing like using a traditional gasoline pump.

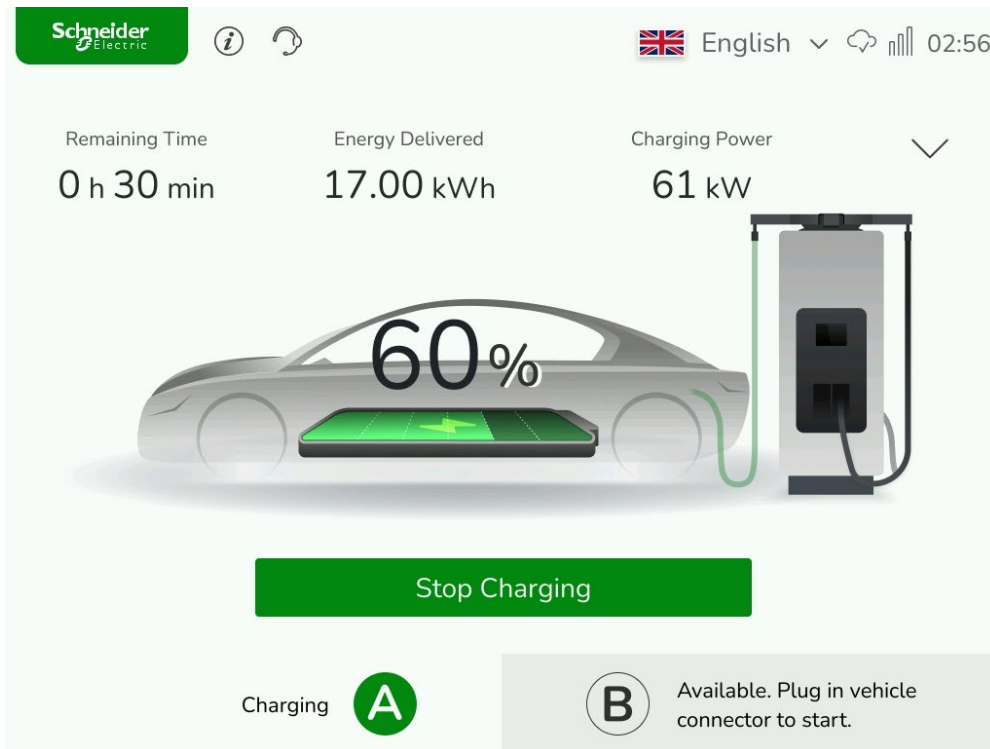
This message needs to be constantly sent with updated values to let have EV driver constantly get update of the cost.

If no message is provided no information is present for the EV driver. The place is totally empty.

Example if the message is provided:



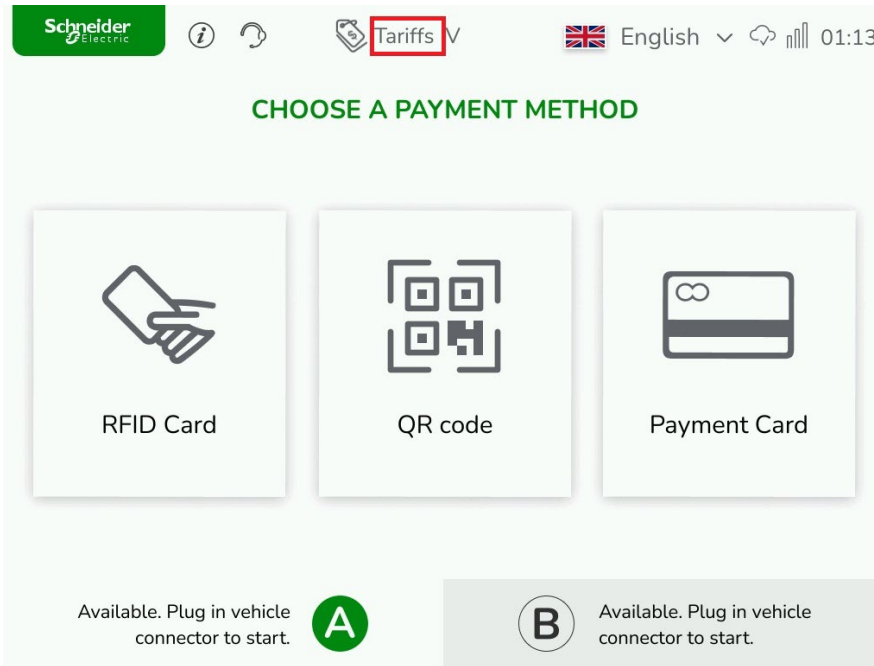
Example if the message is not provided:



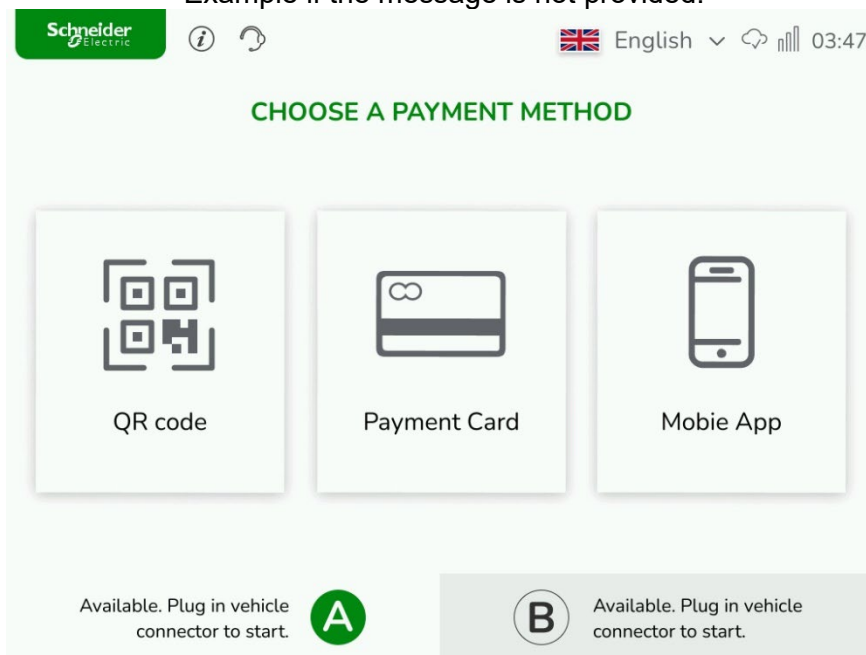
- **vendorId:** com.se.cost
- **messageId:** CostUpdated
- data:
 - **currency**
 - **method**
 - **connectID**
 - **totalCost**
 - **TransactionId**
- data (response): empty
- data example:
`{currency:"VNĐ","method":"CostUpdated","connectID":1,"totalCost":16780,"transactionId":358}`

- **TariffDownload:**
 Message to use to provide an image with tariff information to display before the EV driver start to charge.
 If this message is provided a "Tariff" button appears on the EV driver HMI. If the EV driver clicks on it, he/she will be directed to a page where the image will be displayed full screen. This message needs to be sent only once and/or when tariff is updated.
 Nothing will be displayed if the message is not provided.

Example if the message is provided:



Example if the message is not provided:



- VendorId: com.se.tariff
- messageId: TariffDownload
- data:
 - fileType
 - type
 - location
 - size
- data example:

```
{ "fileType": "Tariff", "type": "file", "location": "ftp://abc.com/tariff.png", "size": 2097152 }
```
- data response example:

```
{ "downloadStatus": "Downloaded" }
```

Picture file name fix to "tariff.png".

Location of tariff file, support ftp, http and https.

File size cannot exceed 2048 KBytes.

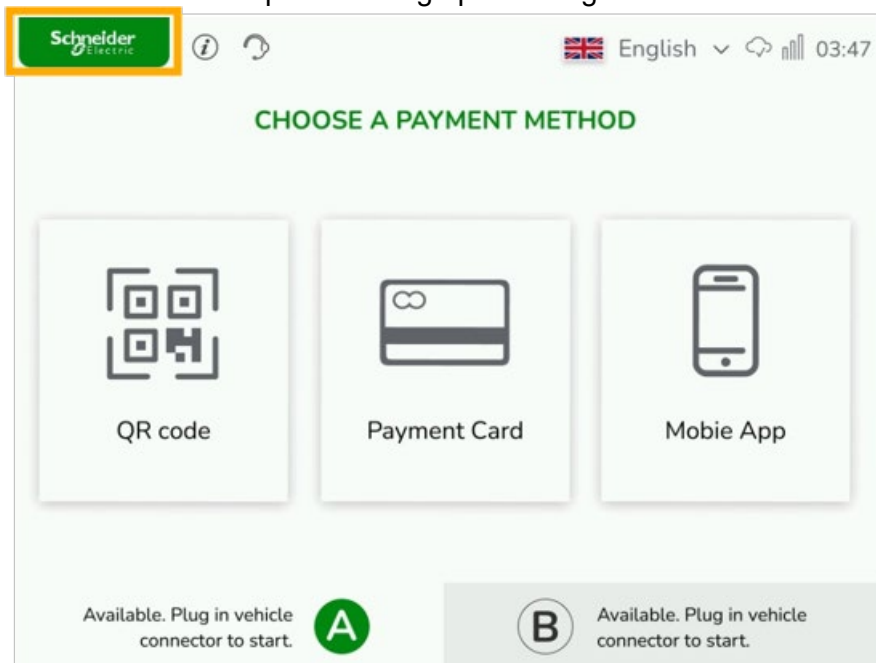
The picture ratio is 47:26.

For EVLink Pro DC180, Schneider Charge Fast 180 and Schneider Star Charge Fast 320, the best picture resolution is 987x546.

For EVLink Pro DC60 and Schneider Charge Fast 60, the best picture resolution is 564x312.

- **Logo replacement:**
Message to use to provide an image of logo to replace the log on HMI.

Example of the logo positioning:



- VendorId: Schneider Electric
- messageId: ImageDownload
- data:
 - **fileType**
 - **type**
 - **location**
- data example:

```
{"fileType":"logo","type":"file","location":"https://URL/Images/Logo.png"}
```

 data response example:

```
{"downloadStatus": "Downloaded"}
```

 The Logo UI file should be less than 1M byte, in PNG format and use 200x60 resolution.

Location of log image, support ftp, http and https.

- **ScreenSaver:**
Message is used to provide one or two images for display screensaver on HMI.

- VendorId: Schneider Electric
- messageId: ImageDownload
- data:
 - **fileType**
 - **type**
 - **location**
- Image should be in PNG format
- 1024x768 (DC320/DC180)
- 800x480 (DC60/DC60v2)
- Location of the image, support ftp, http and https.
- data example for upload one image:

```
{"fileType":"screensaver","type":"file","location":"https://URL/Images/screensaver.png"}
```

 data response example:

```
{"downloadStatus": "Downloaded"}
```
- data example for uploading two images only support FTP:

```
{"fileType":"screensaver","type":"folder","location":"ftp://URL/Images/"}
```

 data response example:

```
{"downloadStatus": "Downloaded"}
```

MeterValues

MeterValues parameter	Parameter values
Reading Context	Sample Periodic
Value Format	Raw
Measurands	<ul style="list-style-type: none"> • Energy.Active.Import.Register in Wh • Power.Active.Import in W • Power.Offered in W • SoC in %

MeterValues parameter	Parameter values
Reading Context	Sample Clock
Value Format	Raw
Measurands	<ul style="list-style-type: none"> • Energy.Active.Import.Register in Wh • Power.Active.Import in W • Power.Offered in W • SoC in %

Note: Clock Aligned samples will only be reported during active transaction.

StatusNotification

Optional parameter reported:

- **Timestamp**

SetChargingProfile

Limitations:

- CHAdeMO connector does not support Smart Charging.
- CCS2 connector: Setpoint = 0 kW leads to a residual charge of approximately 0.5 A per power module.
- CCS2 connector: For charging profile limit value other than 0, the minimum acceptance power limit threshold is 1 kW.

Charging profile parameter	Parameter values
chargingProfilePurpose	<ul style="list-style-type: none"> • TxDefaultProfile • TxProfile • ChargePointMaxProfile not supported
chargingProfileKind	<ul style="list-style-type: none"> • Absolute • Recurring • Relative
recurrencyKind	<ul style="list-style-type: none"> • Daily

Charging profile parameter	Parameter values
	<ul style="list-style-type: none"> Weekly
chargingSchedule	<ul style="list-style-type: none"> chargingSchedule in watts (W) minChargeRate: not supported
chargingSchedulePeriod	numberPhases: not applicable on DC charger

GetDiagnostics and UpdateFirmware

The supported protocols are FTP, HTTP, and HTTPS.

Security Profiles

The following modes are supported by the charger:

- No TLS / No Basic Authentication
- TLS / No Basic Authentication
- No TLS / Basic Authentication
- TLS / Basic Authentication, recommended

User Authentication

User Authentication Modes

- Authentication is required from CPO
 - Remote request from CPO
 - Badge swipe authenticated by CPO
 - MAC address authenticated by CPO
 - ISO15118-2 based Plug & Charge authenticated by CPO
- No authentication is required. No badge is needed.
 - Customization of default IdTag for free mode is supported.

Offline Strategies

- Allow all badges: all badges are accepted to start a transaction as the default option.
- Local authorization:
 - Cached list: only the badges registered in a cached list are accepted to start a transaction.
 - Local list: only the badges shown on the list sent by the back end to the charging station are accepted to start a transaction.
- Reject all: all badges are rejected to start a transaction.

OCPP Keys for Authentication modes

Legacy Authentication modes	Authentication required from CPO With RFID and QRcode options on HMI	AuthenticationOCPPMode = true
	Free (no badge needed)	AuthenticationOCPPMode = false Defaultidtag: provided by CPO, default value: "SIMTAG"

Note1: **AuthenticationOCPPMode** still works in new FW version, set this key to true or false keep its behavior as before and mapping to new authentication keys below.

New Authentication modes from 3.5.8803	Free (no badge needed)	FreeCharging = true Defaultidtag: provided by CPO, default value: "SIMTAG"
	RFID authentication by CPO With RFID option on HMI	FreeCharging = false RFIDEnabled = true
	Remote Start by CPO Without any option on HMI	FreeCharging = false QRcodeEnabled = true QRcode1 with empty value QRcode2 with empty value
	Remote Start by CPO With QRcode option on HMI	FreeCharging = false QRcodeEnabled = true QRcode1 with QRcode value QRcode2 with QRcode value
	Remote Start by CPO With APP option on HMI	FreeCharging = false AppEnabled = true
	Remote Start by CPO With payment terminal option on HMI	FreeCharging = false POSEnabled = true
	MAC address authentication by CPO With AutoCharge indication on HMI	FreeCharging = false Autocharge = true
	ISO15118-2 Plug & Charge With PnC indication on HMI	FreeCharging = false ISO15118PnCEnabled = true

Note1: FreeCharging is exclusive with other authentication modes. It must be set to false before enabling other authentication modes

Note2: Exclude FreeCharging, all rest authentication modes can combine freely.

Note3: ISO15118-2 PnC with higher priority than Autocharge when both enabled.

Offline strategies	Allow all badges	AllowOfflineTxForUnknownId = true
	Cache list only	AllowOfflineTxForUnknownId = false LocalAuthorizeOffline = true AuthorizationCacheEnable = true
	Local list only	AllowOfflineTxForUnknownId = false LocalAuthorizeOffline = true LocalAuthListEnabled = true
	Reject all badges	AllowOfflineTxForUnknownId = false LocalAuthorizeOffline = false

Authentication Time-Out

Local Authentication

If	Then
One connector is plugged in	The charging operation starts after the badge is presented to the screen.
Both connectors are plugged in	The charging operation starts on the connector that is visible on the screen. To change the connector, touch the screen.
No connector is plugged in	The screen is locked on the Welcome page.

Remote Authentication

The table below shows how to start the remote authentication **with the connector ID**:

If	And	Then
The connector is plugged in	-	The charging operation starts.
The connector is not plugged in	EnableRemoteStartNoConnectedEV = false	The charging request is rejected.
	EnableRemoteStartNoConnectedEV = true	The connector is plugged in within 2 minutes. The charging operation starts.
		The connector is not plugged in within 2 minutes. The charging request is dropped.
The connector ID is incorrect	-	The charging request is rejected.

The table below shows how to start the remote authentication **without the connector ID**:

If	And	Then
One connector is plugged in	-	The charging operation starts.
Both connectors are plugged in	-	The charging operation starts on Connector 1.
No connector is plugged in	EnableRemoteStartNoConnectedEV = false	The charging request is rejected.
	EnableRemoteStartNoConnectedEV = true	The connector is plugged in within 2 minutes. The charging operation starts.
		The connector is not plugged in within 2 minutes. The charging request is dropped.

Configuration Keys

Standard Keys

This table details all OCPP 1.6 standard configuration keys that can be read or modified from supervision.

Refer to the downloadable OCPP 1.6 documentation, page 6 for description, type and unit.

Key	Access mode	Default value
AllowOfflineTxForUnknownId	RW	true
AuthorizationCacheEnabled		false
AuthorizeRemoteTxRequests		true
ClockAlignedDataInterval		0
ConnectionTimeOut		120
GetConfigurationMaxKeys	RO	200
HeartbeatInterval	RW	60
LocalAuthorizeOffline		true
LocalPreAuthorize		false
MeterValuesAlignedData		Current.Import Current.Offered Energy.Active.Import.Register Power.Offered Power.Active.Import
MeterValuesAlignedDataMaxLength	RO	9
MeterValuesSampledData	RW	Current.Import Current.Offered Energy.Active.Import.Register Power.Offered Power.Active.Import SoC
MeterValuesSampledDataMaxLength	RO	8
MeterValueSampleInterval	RW	60
MinimumStatusDuration		10
NumberOfConnectors	RO	2
ResetRetries	RW	2
ConnectorPhaseRotationMaxLength	RO	1
ConnectorPhaseRotation	RW	Not Applicable
StopTransactionOnEVSideDisconnect		true
StopTransactionOnInvalidId		true
StopTxnAlignedDataMaxLength	RO	1
StopTxnSampledDataMaxLength		2
SupportedFeatureProfiles		Core FirmwareManagement LocalAuthListManagement Reservation

Key	Access mode	Default value
		SmartCharging RemoteTrigger
SupportedFeatureProfilesMaxLength		6
TransactionMessageAttempts	RW	2
TransactionMessageRetryInterval		10
UnlockConnectorOnEVSideDisconnect		false
WebSocketPingInterval		20
LocalAuthListEnabled		false
LocalAuthListMaxLength	RO	100000
SendLocalListMaxLength		400
ReserveConnectorZeroSupported		true
ChargeProfileMaxStackLevel		20
ChargingScheduleMaxPeriods		50
ConnectorSwitch3to1PhaseSupported		false
MaxChargingProfilesInstalled		40
ChargingScheduleAllowedChargingRateUnit		Current, Power
StopTxnAlignedData	RW	-
StopTxnSampledData		
AuthorizationKey (*)	W	-
SecurityProfile	RW	1
CertificateSignedMaxChain	R	1000
CertificateStoreMaxLength	R	10
ISO15118PnCEnabled	RW	Boolean
RO = read only RW = read and write W = write only * = from improved security for OCPP 1.6		

Non-Standard Keys

Key	Access mode	Type	Unit	Default value	Description
AuthenticationOCPPMode	RW	Boolean	-	True	Allows authentication by CPO false: no authentication, free charging
DefaultIdTag		String [20] *		"SIMTAG"	idTag sent through Authorize request when AuthenticationOCPPMode = false
SupervisionUrl		String [255] *		-	OCPP supervision URL
BoxIdentifier		String [50] *			OCPP Charger identifier
ChargeLimitedPower	RO	Integer	kW		Charging station maximum power
ConnectorALimitedPower					Connector A maximum power
ConnectorBLimitedPower					Connector B maximum power
ConnectorAType	RO	String			Connector A type
ConnectorBType					Connector B type

disconnectedMeterValueSampleInterval	RW	Integer	second	900	Allows setting of sampling interval of the meter values when the charge and supervision are disconnected. The sampling interval ranges from 5 to 3600 seconds. Samples are sent to supervision. Set value to 0 means the offline sampling interval will follow the same setting as online.
SecurityEventsEnabled	RW	Boolean	-	True	True: security events are notified to CSMS. False: security events are not notified to CSMS.
EnableMeterValuesContainVoltage	RW	Boolean	-	False	Gets the DC voltage from the charger via the MeterValue message. True: the charger reports the output voltage to the backend. False: the charger does not report the output voltage to the backend.
EnableRemoteStartNoConnectedEV	RW	Boolean	-	True	Authorizes remote start transaction from CPO when no EV is connected.
MacAddressPrefix	RW	String	-	""	During MAC authentication, the value of MacAddressPrefix is combined with the MAC address to generate the idTag. Example: "VID:"
QRcode1	RW	String	-	""	Used to set the URL of the QR code of GUN A displayed on the screen of the charger. The URL should be within 120 characters. GUN when this key is configured.
QRcode2	RW	String	-	""	Used to set the URL of the QR code of GUN B displayed on the screen of the charger. The URL should be within 120 characters. The QRcode will only display for this GUN when this key is configured.
QRCodeEnabled	RW	Boolean	-	True	True for enable QRcode authorization option and enable remoteStart function
RFIDEnabled	RW	Boolean	-	True	True for enable RFID authorization
PosEnabled	RW	Boolean	-	False	True for display payment terminal authorization option and enable remoteStart function
APPEEnabled	RW	Boolean	-	True	True for display Mobile terminal authorization option and enable remoteStart function

AutoCharge	RW	Boolean	-	False	True for enable MAC address authorization
FreeCharging	RW	Boolean	-	False	True for enable free vend charging, exclusive with all other modes.
CallMsgInOrder	RW	Boolean	-	True	True for strict follow OCPP standard, send each message after call response of last message. False for efficient optimize for non-transaction messages.
OfflineTxMsgQueueEnable	RW	Boolean	-	True	Define the offline meter upload strategy. True means offline MV upload follow OCPP standard. False means the offline MV upload will be more efficient by concurrent with online MVs.
(*) : in line with OCPP 1.6 standard, configuration keys are case insensitive					

OCPP 1.6 keys for ISO15118 Plug & Charge and security extension

Following keys only available during the Plug & Charge feature enabled by “ISO15118PnCEnabled” key.

Key	Access mode	Default value
CentralContractValidationAllowed	RW	FALSE
CertificateSignedMaxChainSize	R	10000
CertSigningWaitMinimum	RW	0
CertSigningRepeatTimes	RW	0
CertificateStoreMaxLength	R	1000
ContractValidationOffline	RW	FALSE
SeccLeafSubjectCommonName	RW	
SeccLeafSubjectCountry	RW	
SeccLeafSubjectOrganization	RW	
SecurityProfile	RW	0
ConnectorEvselds	RW	
CpoName	RW	""
AdditionalRootCertificateCheck	RW	FALSE

Vendor Error Codes

⚡ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Only trained personnel are allowed to carry out maintenance operations.

Failure to follow these instructions will result in death or serious injury.

OCPP Vendor Error Codes

OCPP error code in StatusNotification	DTC	Description
ReaderFailure	0x100005	Card reader communication failure alarm
OtherError	0x100007	Insulation warning
InternalError	0x100009	Abnormal SD card of terminal warning
OtherError	0x10000C	SECC socket connection fault alarm
	0x10000F	Environment detection board offline alarm
HighTemperature	0x100101	Terminal over-temperature alarm
InternalError	0x100102	Cable connector over-temperature alarm
	0x100202	Terminal emergency stop is pressed
ConnectorLockFailure	0x100205	Vehicle connector lock control error
GroundFailure	0x100206	Ground error
InternalError	0x100207	Insulation board error
	0x100208	Output relay control error
OtherError	0x10020A	Insulation error
	0x10020B	Power cabinet water level error
	0x10020C	Terminal door open
	0x10020D	High humidity error
	0x10020E	Tilt sensor triggered
PowerMeterFailure	0x10020F	Meter failure error
InternalError	0x100210	Communication error with subboard
	0x100211	Power loss error
	0x100212	Communication error with power cabinet
OverCurrentFailure	0x100213	Over-current error
InternalError	0x100214	Output over-voltage error
	0x100216	PLC board offline error
	0x200001	Power module communication fault alarm
	0x200002	Power module fault alarm
	0x200003	PDU relay control fault alarm
	0x200004	PDU communication fault alarm
OtherError	0x200008	Surge protection alarm
InternalError	0x200101	Power module over-temperature alarm
	0x200102	PDU over-temperature alarm
	0x200103	Power control fan communication alarm
	0x200104	Power control fan failure alarm
	0x200202	Power cabinet emergency stop is pressed
OtherError	0x200203	Power cabinet water level error

	0x200204	Power cabinet door open
OverVoltage	0x200206	Input over-voltage error
PowerSwitchFailure	0x200207	Input relay control error
UnderVoltage	0x200208	Input under-voltage error
OtherError	0x200209	Circuit breaker tripped
	0x20020B	Tilt sensor alarm
	0x20020C	Fusing error
InternalError	0xC00000	Power control fan fault

Cybersecurity

For more information about cybersecurity, refer to [DOCA0310EN Cybersecurity Guide](#).

Eichrecht

For more information on the integration of the OCPP platform with the Pro DC Eichrecht product, refer to BRU5102501 OCMF *Guide*

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As standards, specifications, and design change from time to time,
please ask for confirmation of the information given in this publication.