EVlink Pro DC and Schneider StarCharge Fast

Connectivity Guide for CPO

BRU5102501-02
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This documentation is aimed to guide CPO integrates CSMS with EVlink Pro DC and Schneider StarCharge Fast series chargers under Eichrecht context.

This guide is only applicable for EVlink Pro DC and Schneider StarCharge Fast chargers Eichrecht version, including the following products:

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

The content of this guide focus on Eichrecht related configuration and definition. For common OCPP integration items, please refer to DOCA0311EN OCPP connectivity guide.

Legal Information

The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

This document is not intended as a substitute for a detailed study or operational and site-specific development or schematic plan. It is not to be used for determining suitability or reliability of the products/solutions for specific user applications. It is the duty of any such user to perform or have any professional expert of its choice (integrator, specifier or the like) perform the appropriate and comprehensive risk analysis, evaluation and testing of the products/solutions with respect to the relevant specific application or use thereof.

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

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.
Failure to follow these instructions can result in death, serious injury, or equipment damage.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result** in minor or moderate injury.
Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this signal word.
Failure to follow these instructions can result in equipment damage.

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

- 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:

Revision history

Date	Version	Changes
2025/08/12	2.0	Add Schneider StarCharge Fast series
2024/Aug/21	1.2	Minor fixes in format.
2024/Jul/26	1.1	Updated examples. Added Safety Information.
2024/Jun/28	1.0	Initial version

Time Synchronization

The CPO is responsible to set the EVSE date and time. The CPO should set the EVSE data and time, synchronize it regularly with regular OCPP heartbeat messages. As the EVSE is equipped with real-time clock, it is recommended to synchronize I at least once a day. The CPO supervision infrastructure should also be synchronized with a NTP server.
For more information about connectivity of EVSE, refer to DOCA0311EN OCPP connectivity guide.

Export of Signed Dataset

The signed dataset is created by the PTB certified DC meter and retrieved by RS485 interface by EVSE control unit. The data format is OCMF v1.0 (Open Charge Metering Format). There are two datasets will be signed for one complete charge session, one for start and one for stop. The meter readings of session start will be included in both datasets.

OCMF dataset for start

OCMF|{"FV" : "1.0","GI" : "DZG-GSH01.1K2L.B","GS" : "1DZG0028252450","GV" : "233","PG" : "T243","MV" : "DZG","MM" : "GSH01.1K2L.B","MS" : "1DZG0028252450","MF" : "233","IS" : true,"IT" : "NONE","ID" : "1D640A16-2.5.18-kWh2.000","CT" : "EVSEID","CI" : "","RD" : [{"TM" : "2024-07-19T02:45:26,000+0200 I","TX" : "B","RV" : 0.000,"RI" : "01-00:98.08.00.FF","RU" : "kWh","RT" : "DC","EF" : "","ST" : "G"}],"U" : [{"TM" : "2024-07-19T02:45:26,000+0200 I","TX" : "B","RV" : 2592.687,"RI" : "01-00:9C.08.00.FF","RU" : "kWh","RT" : "DC","EF" : "","ST" : "G"}]}|{"SA" : "ECDSA-secp256k1-SHA256","SD" : "30450221009E97B2CAC7C65CA6F396EDA6D12E71AE4AE34CD61EFAAF3AAB151C00D5D4D75C0220206B933D9ECE38912F2C05145FAF203F153726D3494D2E1C242DC5F5B3393285"}

OCMF dataset for stop

OCMF|{"FV" : "1.0","GI" : "DZG-GSH01.1K2L.B","GS" : "1DZG0028252450","GV" : "233","PG" : "T244","MV" : "DZG","MM" : "GSH01.1K2L.B","MS" : "1DZG0028252450","MF" : "233","IS" : true,"IT" : "NONE","ID" : "1D640A16-2.5.18-kWh2.000","CT" : "EVSEID","CI" : "","RD" : [{"TM" : "2024-07-19T02:45:26,000+0200 I","TX" : "B","RV" : 0.000,"RI" : "01-00:98.08.00.FF","RU" : "kWh","RT" : "DC","EF" : "","ST" : "G"},
{"TM" : "2024-07-19T02:45:59,000+0200 I","TX" : "E","RV" : 0.000,"RI" : "01-00:98.08.00.FF","RU" : "kWh","RT" : "DC","EF" : "","ST" : "G"}],
"U" : [{"TM" : "2024-07-19T02:45:26,000+0200 I","TX" : "B","RV" : 2592.687,"RI" : "01-00:9C.08.00.FF","RU" : "kWh","RT" : "DC","EF" : "","ST" : "G"},
{"TM" : "2024-07-19T02:45:59,000+0200 I","TX" : "E","RV" : 2592.687,"RI" : "01-00:9C.08.00.FF","RU" : "kWh","RT" : "DC","EF" : "","ST" : "G"},
{"TM" : "2024-07-19T02:45:59,000+0200 I","TX" : "E","RV" : 33,"RI" : "01-00:00.08.06.FF","RU" : "s","RT" : "DC","EF" : "","ST" : "G"}]}|{"SA" : "ECDSA-secp256k1-SHA256","SD" : "3046022100836EDE32F3F678CEF70F1199F168B3E6216A87959CC6E8A79CD02A43AECF7F5002210095A8305D2F5A0508CE467BF074B24FD09C7C0293A6D9B0125667CDA28367F71C"}

The public key is generated by DC meter and retrieved by RS485 interface by EVSE control unit. Each connector of the charger pair with separated PTB DC meter.

Public Key

Public Key of PTB meter will be transported to CSMS with signed data. For enhance the verification, Pro DC provide two additional ways for CSMS fetch public key separately. CSMS can fetch it by implement one of the following methods.

1. CSMS request public key via ***GetConfiguration*** message.
The specific key defined as ***MeterPublicKeyA*** and ***MeterPublicKeyB*** for connector A and B.
The key is read-only and value type is string.
Example:
3056301006072A8648CE3D020106052B8104000A03420004C6CA96A50E3A2702321836CE4E3E789176ED20D79CA0D7B9FF20455EB66DD5259371BC1D150CD6B7E611A081DB58B91A84CEE27DE9D8AD4AD1436C0056556CC2

2. Fetch public key from ***DataTransfer*** message from EVSE.
Two ***DataTransfer*** messages (***setMeterConfiguration***) will be sent followed “accepted” BootNotification. Each message includes public key and meter serial number of each DC meter.

For connector A


```
[
	2,
	"0sSx0vPcrxO77C3AHIl1bxHZH86qAk6pEANn",
	"DataTransfer",
	{
		"vendorId": "generalConfiguration",
		"messageId": "setMeterConfiguration",
		"data": "{\"meters\":[{\"connectorId\":2,\"type\":\"SIGNATURE\",\"publicKey\
":\"3056301006072A8648CE3D020106052B8104000A03420004FB89C66EF425EB4E2A
F75D5025BD130E65F78A16A090829F096F4ACFDDB6AF840D12A56607D9AD97AD35
DC1B76BD6CB02122ECA7FAFA31BCAA9FB55347F31BBB\"}]}"
	}
]
```


For connector B


```
[
	2,
	"aS2XaVzCRXyhhmdkrsLbBXr9rigQkKgPokxN",
	"DataTransfer",
	{
		"vendorId": "generalConfiguration",
		"messageId": "setMeterConfiguration",
		"data": "{\"meters\":[{\"connectorId\":1,\"type\":\"SIGNATURE\",\"publicKey\
":\"3056301006072A8648CE3D020106052B8104000A03420004C6CA96A50E3A27023
21836CE4E3E789176ED20D79CA0D7B9FF20455EB66DD5259371BC1D150CD6B7E611
A081DB58B91A84CEE27DE9D8AD4AD1436C0056556CC2\"}]}"
	}
]
```


Signed Dataset to CSMS

The signed dataset is created by the PTB certified DC meter and retrieved by RS485 interface by EVSE control unit. The data format is OCMF v1.0 (Open Charge Metering Format). The charger specific content definition in OCMF, especially for tariff related items is described in a separated paragraph of this document.

There are two datasets will be signed by PTB DC meter for both start and stop point of each charging session. Both datasets will be sent to CSMS as **transactionData** of **StopTransaction.req** message after charge finish.

```
[
    2,
    "Ecf9JFH95kJfsxeC8JgKr9YCxZ7FPhReK5jY",
    "StopTransaction",
    {
        "meterStop": 2592680,
        "transactionId": 74161,
        "timestamp": "2024-07-19T00:45:51.000Z",
        "idTag": "1D640A16",
        "reason": "Local",
        "transactionData": [
            {
                "timestamp": "2024-07-19T00:45:27.000Z",
                "sampledValue": [
                    {
                        "context": "Transaction.Begin",
                        "value": "{ \"signedMeterData\": \"OCMF|{\\\"FV\\\" : \\\"1.0\\\",\\\"GI\\\" : \\\"DZG-GSH01.1K2L.B\\\",\\\"GS\\\" : \\\"1DZG0028252450\\\",\\\"GV\\\" : \\\"233\\\",\\\"PG\\\" : \\\"T243\\\",\\\"MV\\\" : \\\"DZG\\\",\\\"MM\\\" : \\\"GSH01.1K2L.B\\\",\\\"MS\\\" : \\\"1DZG0028252450\\\",\\\"MF\\\" : \\\"233\\\",\\\"IS\\\" : true,\\\"IT\\\" : \\\"NONE\\\",\\\"ID\\\" : \\\"1D640A16-2.5.18-kWh2.000\\\",\\\"CT\\\" : \\\"EVSEID\\\",\\\"CI\\\" : \\\"\\\",\\\"RD\\\" : [{\\\"TM\\\" : \\\"2024-07-19T02:45:26,000+0200 I\\\",\\\"TX\\\" : \\\"B\\\",\\\"RV\\\" : 0.000,\\\"RI\\\" : \\\"01-00:98.08.00.FF\\\",\\\"RU\\\" : \\\"kWh\\\",\\\"RT\\\" : \\\"DC\\\",\\\"EF\\\" : \\\"\\\",\\\"ST\\\" : \\\"G\\\"}],\\\"U\\\" : [{\\\"TM\\\" : \\\"2024-07-19T02:45:26,000+0200 I\\\",\\\"TX\\\" : \\\"B\\\",\\\"RV\\\" : 2592.687,\\\"RI\\\" : \\\"01-00:9C.08.00.FF\\\",\\\"RU\\\" : \\\"kWh\\\",\\\"RT\\\" : \\\"DC\\\",\\\"EF\\\" : \\\"\\\",\\\"ST\\\" : \\\"G\\\"}]}|{\\\"SA\\\" : \\\"ECDSA-secp256k1-SHA256\\\",\\\"SD\\\" : \\\"30450221009E97B2CAC7C65CA6F396EDA6D12E71AE4AE34CD61EFAAF3AAB151C00D5D4D75C0220206B933D9ECE38912F2C05145FAF203F153726D3494D2E1C242DC5F5B3393285\\\"}\", \"encodingMethod\": \"OCMF\" }",
                        "measurand": "Energy.Active.Import.Register",
                        "location": "Outlet",
                        "unit": "Wh",
                        "format": "SignedData"
                    }
                ]
            },
            {
                "timestamp": "2024-07-19T00:46:03.000Z",
```

```
                "sampledValue": [
                    {
                        "context": "Transaction.End",
                        "value": "{ \"signedMeterData\": \"OCMF|{\\\"FV\\\" : \\\
"1.0\\\",\\\"GI\\\" : \\\"DZG-
GSH01.1K2L.B\\\",\\\"GS\\\" : \\\"1DZG0028252450\\\",\\\"GV\\\" : \\\"233\\\",\\\"PG\\
\" : \\\"T244\\\",\\\"MV\\\" : \\\"DZG\\\",\\\"MM\\\" : \\\"GSH01.1K2L.B\\\",\\\"MS\\\" :
\\\"1DZG0028252450\\\",\\\"MF\\\" : \\\"233\\\",\\\"IS\\\" : true,\\\"IT\\\" : \\\"NONE\\
\",\\\"ID\\\" : \\\"1D640A16-2.5.18-
kWh2.000\\\",\\\"CT\\\" : \\\"EVSEID\\\",\\\"CI\\\" : \\\"\\\",\\\"RD\\\" : [{\\\"TM\\\" : \\\
"2024-07-
19T02:45:26,000+0200 I\\\",\\\"TX\\\" : \\\"B\\\",\\\"RV\\\" : 0.000,\\\"RI\\\" : \\\"01-
00:98.08.00.FF\\\",\\\"RU\\\" : \\\"kWh\\\",\\\"RT\\\" : \\\"DC\\\",\\\"EF\\\" : \\\"\\\",\\\"
ST\\\" : \\\"G\\\"},{\\\"TM\\\" : \\\"2024-07-
19T02:45:59,000+0200 I\\\",\\\"TX\\\" : \\\"E\\\",\\\"RV\\\" : 0.000,\\\"RI\\\" : \\\"01-
00:98.08.00.FF\\\",\\\"RU\\\" : \\\"kWh\\\",\\\"RT\\\" : \\\"DC\\\",\\\"EF\\\" : \\\"\\\",\\\"
ST\\\" : \\\"G\\\"}],\\\"U\\\" : [{\\\"TM\\\" : \\\"2024-07-
19T02:45:26,000+0200 I\\\",\\\"TX\\\" : \\\"B\\\",\\\"RV\\\" : 2592.687,\\\"RI\\\" : \\\"01
-
00:9C.08.00.FF\\\",\\\"RU\\\" : \\\"kWh\\\",\\\"RT\\\" : \\\"DC\\\",\\\"EF\\\" : \\\"\\\",\\\"
ST\\\" : \\\"G\\\"},{\\\"TM\\\" : \\\"2024-07-
19T02:45:59,000+0200 I\\\",\\\"TX\\\" : \\\"E\\\",\\\"RV\\\" : 2592.687,\\\"RI\\\" : \\\"01
-
00:9C.08.00.FF\\\",\\\"RU\\\" : \\\"kWh\\\",\\\"RT\\\" : \\\"DC\\\",\\\"EF\\\" : \\\"\\\",\\\"
ST\\\" : \\\"G\\\"},{\\\"TM\\\" : \\\"2024-07-
19T02:45:59,000+0200 I\\\",\\\"TX\\\" : \\\"E\\\",\\\"RV\\\" : 33,\\\"RI\\\" : \\\"01-
00:00.08.06.FF\\\",\\\"RU\\\" : \\\"s\\\",\\\"RT\\\" : \\\"DC\\\",\\\"EF\\\" : \\\"\\\",\\\"ST\\
\" : \\\"G\\\"}]}|{\\\"SA\\\" : \\\"ECDSA-secp256k1-
SHA256\\\",\\\"SD\\\" : \\\"3046022100836EDE32F3F678CEF70F1199F168B3E6216A87
959CC6E8A79CD02A43AECF7F5002210095A8305D2F5A0508CE467BF074B24FD09C7
C0293A6D9B0125667CDA28367F71C\\\"}\", \"encodingMethod\": \"OCMF\" }",
                        "measurand": "Energy.Active.Import.Register",
                        "location": "Outlet",
                        "unit": "Wh",
                        "format": "SignedData"
                    }
                ]
            }
        ]
    }
]
```

XML for OCMF verification

After each transaction finished, CSMS should generated XML file for verification via S.A.F.E. transparency SW from S.A.F.E. (https://safe-ev.org/en/transparency-software/e-mobilists/). Reference format below.


```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<values equipmentId="1051658301" userId="1D640A16">
  <value context="Transaction.Begin" transactionId="202407190845272878">
    <signedData>OCMF|{"FV" : "1.0","GI" : "DZG-GSH01.1K2L.B","GS" :
"1DZG0028252450","GV" : "233","PG" : "T243","MV" : "DZG","MM" :
"GSH01.1K2L.B","MS" : "1DZG0028252450","MF" : "233","IS" : true,"IT" : "NONE","ID" :
"1D640A16-2.5.18-kWh2.000","CT" : "EVSEID","CI" : "","RD" : [{"TM" : "2024-07-
19T02:45:26,000+0200 I","TX" : "B","RV" : 0.000,"RI" : "01-00:98.08.00.FF","RU" :
"kWh","RT" : "DC","EF" : "","ST" : "G"}],"U" : [{"TM" : "2024-07-
19T02:45:26,000+0200 I","TX" : "B","RV" : 2592.687,"RI" : "01-00:9C.08.00.FF","RU" :
"kWh","RT" : "DC","EF" : "","ST" : "G"}]}|{"SA" : "ECDSA-secp256k1-SHA256","SD" :
"30450221009E97B2CAC7C65CA6F396EDA6D12E71AE4AE34CD61EFAAF3AAB151C00D5D4D75C0220206B9
33D9ECE38912F2C05145FAF203F153726D3494D2E1C242DC5F5B3393285"}</signedData>
    <publicKey>3056301006072A8648CE3D020106052B8104000A03420004C6CA96A50E3A270232183
6CE4E3E789176ED20D79CA0D7B9FF20455EB66DD5259371BC1D150CD6B7E611A081DB58B91A84CEE27DE
9D8AD4AD1436C0056556CC2</publicKey>
  </value>
  <value context="Transaction.End" transactionId="202407190845272878">
    <signedData>OCMF|{"FV" : "1.0","GI" : "DZG-GSH01.1K2L.B","GS" :
"1DZG0028252450","GV" : "233","PG" : "T244","MV" : "DZG","MM" :
"GSH01.1K2L.B","MS" : "1DZG0028252450","MF" : "233","IS" : true,"IT" : "NONE","ID" :
"1D640A16-2.5.18-kWh2.000","CT" : "EVSEID","CI" : "","RD" : [{"TM" : "2024-07-
19T02:45:26,000+0200 I","TX" : "B","RV" : 0.000,"RI" : "01-00:98.08.00.FF","RU" :
"kWh","RT" : "DC","EF" : "","ST" : "G"},{"TM" : "2024-07-19T02:45:59,000+0200
I","TX" : "E","RV" : 0.000,"RI" : "01-00:98.08.00.FF","RU" : "kWh","RT" :
"DC","EF" : "","ST" : "G"}],"U" : [{"TM" : "2024-07-19T02:45:26,000+0200 I","TX" :
"B","RV" : 2592.687,"RI" : "01-00:9C.08.00.FF","RU" : "kWh","RT" : "DC","EF" :
"","ST" : "G"},{"TM" : "2024-07-19T02:45:59,000+0200 I","TX" : "E","RV" :
2592.687,"RI" : "01-00:9C.08.00.FF","RU" : "kWh","RT" : "DC","EF" : "","ST" :
"G"},{"TM" : "2024-07-19T02:45:59,000+0200 I","TX" : "E","RV" : 33,"RI" : "01-
00:00.08.06.FF","RU" : "s","RT" : "DC","EF" : "","ST" : "G"}]}|{"SA" : "ECDSA-
secp256k1-SHA256","SD" :
"3046022100836EDE32F3F678CEF70F1199F168B3E6216A87959CC6E8A79CD02A43AECF7F5002210095A
8305D2F5A0508CE467BF074B24FD09C7C0293A6D9B0125667CDA28367F71C"}</signedData>
```

```
    <publicKey>3056301006072A8648CE3D020106052B8104000A03420004C6CA96A50E3A270232183
6CE4E3E789176ED20D79CA0D7B9FF20455EB66DD5259371BC1D150CD6B7E611A081DB58B91A84CEE27DE
9D8AD4AD1436C0056556CC2</publicKey>
  </value>
</values>
```


Tariff information (optional)

As requested by PTB working group 2.34, tariff information must be included in the permanent proof (signed data string) and shown on a display for bank and payment terminal scenario.

With OCMF 1.0, tariff implement as definition below.

- **Price info transmit**

DefaultPrice key is defined to transmit tariff information from CSMS to EVSE by **ChangeConfiguration** message.
The tariff in OCMF and HMI only rely on "**chargingPrice**" field.
This key definition below comes from **“OCPP & California Pricing Requirements v3.0”** which defined by OCA.

DefaultPrice

Field	Type	Card.	Description
priceText	string	1..1	Text for display of price information.
priceTextOffline	string	0..1	Alternative text for display when charge point is offline.
chargingPrice	ChargingPrice	0..1	Structure with price components to use when starting a session while offline. Not needed if offline sessions are not allowed or not charged.

ChargingPrice

Field	Type	Card.	Description
kWhPrice	decimal	0..1	Price per kWh.
hourPrice	decimal	0..1	Price per hour of charging.
flatFee	decimal	0..1	Flat fee for (part of) charging session.

Example of the **ChangeConfiguration** message

[2,"6579ceb8-093e-469b-91e3-48d84583417f",
"**ChangeConfiguration**",{"value":"{\"priceText\":\"2.00 €/kWh, no idle fee\",\"priceTextOffline\":\"The station is offline. Not Allowed for

charging.\",\"**chargingPrice**\":{\"**kWhPrice**\":2.00,\"**hourPrice**\":0.00,\"**flatFee**\":0.00}}","key":"**DefaultPrice**"}]
The accuracy of price unit will be stored and presented as 0.001 in ProDC implementation.

- **Price info in OCMF**

As "ID" field of OCMF 1.0 is used for containing tariff information.
40 bytes length is supported for "ID" field in this PTB certified meter, only one price can be contained in OCMF besides idTag and FW version information.

Price selection rule:
value =0 will be ignored,
value >0: kWh>hour>flatFee,
If kWhPrice exists and is >0, it will be used for OCMF.
If kWhPrice equals 0 or does not exist, hourPrice will be used when it exists and is >0.
FlatFee will be used when it exists and is >0 and neither kWhPrice nor hourPrice can fulfill the conditions above.

The price currency is EURO as default.

The content of "ID" field depends on if CSMS set the **defaultPrice** key or not. If there is no **defaultPrice** is set by CSMS, “ID” of OCMF will not contain any tariff info.

With tariff
idtag-FW version-price

30893163-2.5.16-kWh0.123 for kWhPrice
30893163-2.5.16-hour0.123 for hourPrice
30893163-2.5.16-flat0.123 for flatFee

Without tariff
idtag-FW version
30893163-2.5.16

- **Price info on HMI**

The value fetch from DefaultPrice key with same rule as OCMF.
The price display on the UI for select payment methods.
The price unit depends on price type.
/kWh for kWhPrice
/hour for hourPrice
/charge for flatFee

Receipts and calibration file (optional)

After each transaction finished, CSMS could send a “DataTransfer” message with a link for generate QR code on EVCE HMI. The purpose of this link is to provide download channel of charging receipt and calibration XML file.
A “Fee detail” button will be displayed on HMI for display QRCode if charger received this message.

Message ID is **FinalCost**.
Only “**transactionId**” and “**qrCodeText**” will be used.

The message example:

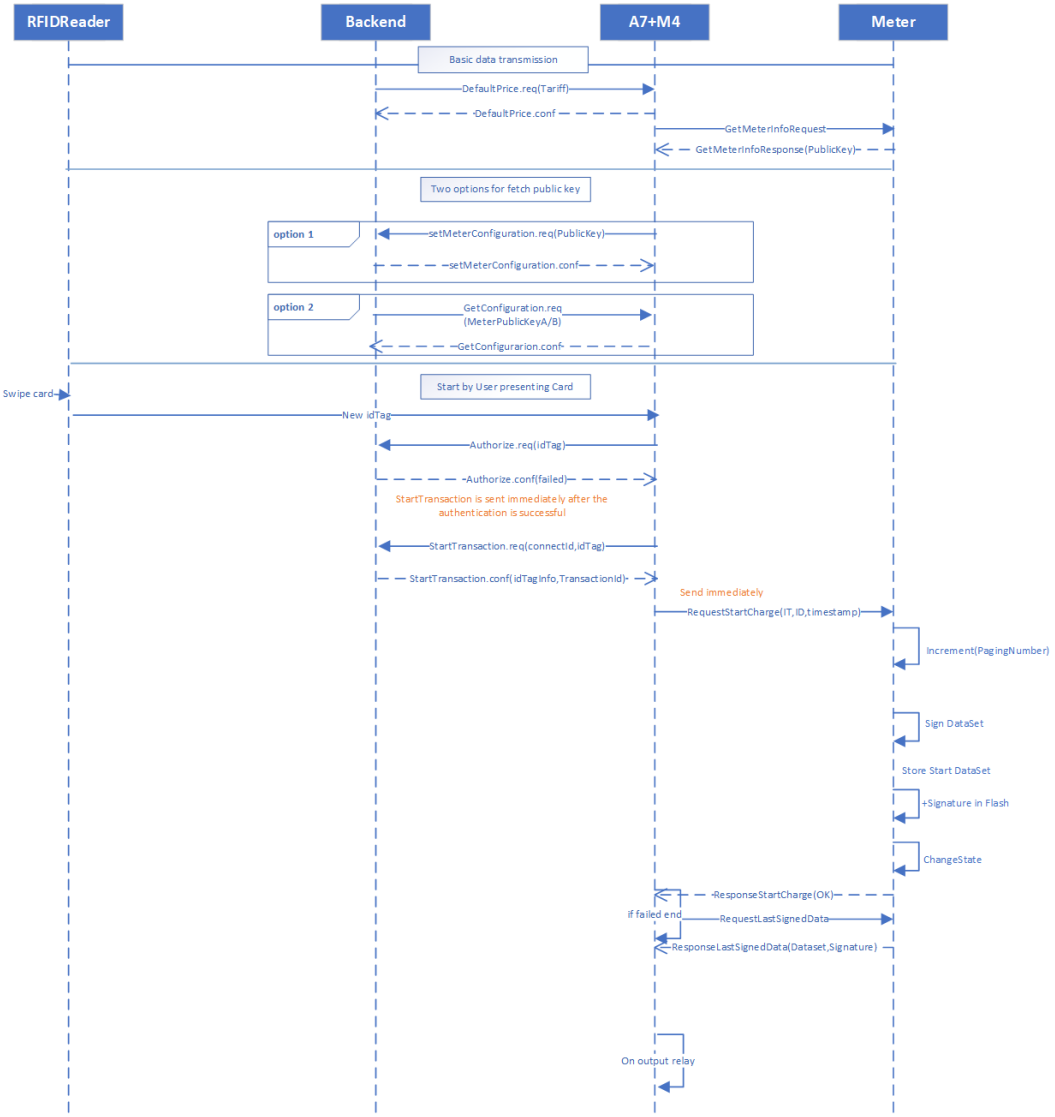
[2, "e1e9381b-36ba-41c9-9623-d879d1bdcf01", "**DataTransfer**", {
"vendorId": "Schneider Electric",
"messageId": "**FinalCost**",
"data": "{**\"transactionId\":73340,**\"cost\":0,\"priceText\":\"TOTAL KWH: 0.00 TIME: 0.05h COST:
$0.\",**\"qrCodeText\":\"https://cpopweb.example.com/#/h5/receipt/receiptInfo?orderId=PC202406191442557246\"**}"
}].

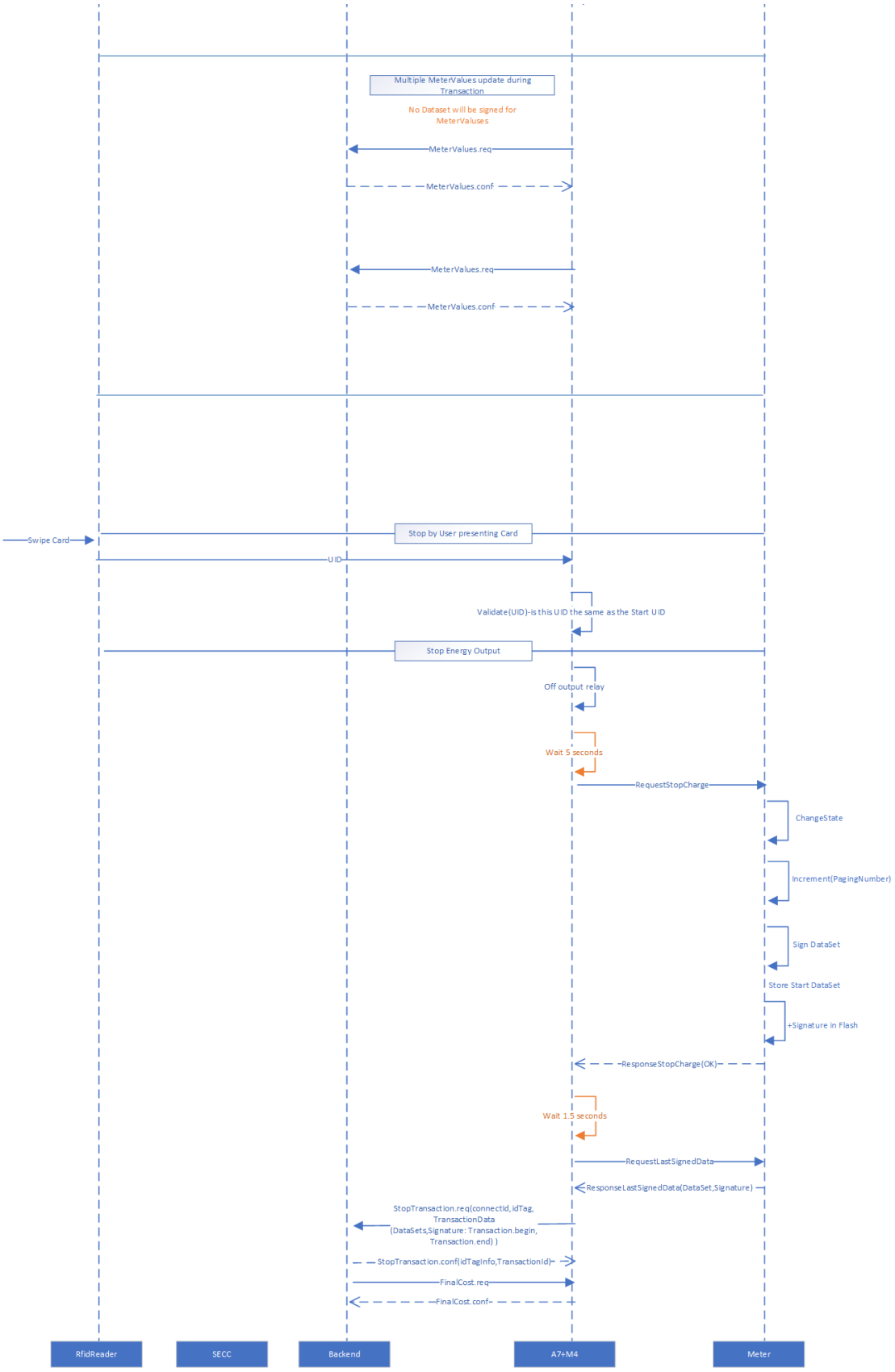
The link in qrCodeText field is an implemented reference design for provide receipts and calibration XML downloading.

Without this message, there is no “Fee Detail” button on HMI, CPO should provide such information in other ways (e.g. Website, Mobile App).

OCPP Sequence example

The diagram below shows the verified Eichrecht OCPP message sequence.




Multiple MeterValues update during Transaction
No Dataset will be signed for MeterValues
MeterValues.req
MeterValues.conf
MeterValues.req
MeterValues.conf
Swipe Card
Stop by User presenting Card
UID
Validate(UID)-is this UID the same as the Start UID
Stop Energy Output
Off output relay
Wait 5 seconds
RequestStopCharge
ChangeState
Increment(PagingNumber)
Sign DataSet
Store Start DataSet
+Signature in Flash
ResponseStopCharge(OK)
Wait 1.5 seconds
RequestLastSignedData
ResponseLastSignedData(DataSet,Signature)
StopTransaction.req(connectId, idTag, TransactionData (DataSets,Signature: Transaction.begin, Transaction.end))
StopTransaction.conf(idTagInfo,TransactionId)
FinalCost.req
FinalCost.conf
RfidReader
SECC
Backend
A7+M4
Meter