

# **Commissioning Process**

## **CCS2 CDM Configuration Command**

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This document is intended to improve the operator's efficiency throughout the procedure and does not entirely absolve them of responsibility.

## Change Record

Rev. No.	Date	Details	Revised By	Approved By
1	19/07/2024	Initial Release	Nikunj Bambhroliya	Kanji Viroja
2	23/07/2024	Note change in Section 3	Nikunj Bambhroliya	Kanji Viroja
3	23/04/2025	Legal Entity Conversion: LLP to PVT LTD	Nikunj Bambhroliya	Kanji Viroja
4	17/06/2025	Addition: Types of AC and DC Meters	Shashant Patel	Kanji Viroja
5	19/12/2025	Addition: Section 3: AC and DC Mandate Key Command Section 4: Retrieval of Existing Error Notification	Kashyap Bhadreshvara	Kanji Viroja
6	05/05/2026	Revised Email Address	Rajkumar Patel	Kanji Viroja


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## 1 Intended Use

This commissioning process describes changing major CDM configurations using the online data transfer command parameter through the server facility.

Furthermore, users can contact our team to resolve their issues by using the contact information provided on the last page.

<b>WARNING!</b>	<b>Risk caused by inappropriate use!</b>
	Any unconventional use and/or different operation of the product can lead to hazardous situations. <ul style="list-style-type: none"><li>• Only conventionally use the Product.</li></ul>

### 1.1 Limitation

The product is intended for use in an operational environment. It should not be utilised in hostile or explosive conditions.

The operator should consult local safety authorities and safety representatives before performing tasks in hazardous areas or in similar circumstances.

### 1.2 Alteration and Restoration of the Product/System

To prevent risks and make sure optimal performance, no alterations, attachments, or restoration of the product are permitted without explicit authorisation of Bacancy Systems.

## 2 Data Transfer Command Parameter for Read

1. Vendor ID: A5A55A5A
2. Message ID: 9890 (for Configuration Read)
3. Data: empty

Request from CSMS:

```
[2,"38e4b866-e3f1-44a5-af94-14fa1f8c92c4","DataTransfer",{"vendorId":"A5A55A5A","messageId": "9890"}]
```

Response:

```
[3,"38e4b866-e3f1-44a5-af94-14fa1f8c92c4",{"status": "Accepted"}]
```


Data Transfer Command:

```
[2,"28","DataTransfer",{"vendorId": "A5A55A5A","messageId": "9890","data": "{ \"RectSelection\": 0, \"NoOfRecPerGrp\": 1, \"MaxPower\": 60, \"MaxVoltage\": 1000, \"MaxCurrent\": 100, \"MaxRectPower\": 30, \"ACMeterSel\": 0, \"DCMeterSel\": 4, \"FaultBitmask\": 0, \"GunTempThreshold\": 90, \"PhaseUVThreshold\": 159, \"PhaseOVThreshold\": 279, \"ChargerType\": 2, \"ACType2Enable\": 0, \"AuthType\": 0, \"ChargeControlMode\": 1, \"G1MaxCurrentLimit\": 123, \"G2MaxCurrentLimit\": 121, \"ACMandateEnable\": 0, \"DCMandateEnable\": 0 }"}]
```

Figure 1 Data Transfer Request and Response.

### 3 Data Transfer Command Parameter for Write

1. Vendor ID: A5A55A5A
2. Message ID: 9889 (for Configuration Write)

<b>NOTE!</b>	<b>Change Data's Value</b>
	The user should first modify the data value as indicated in Section 3.1, based on their needs. Afterwards, the user should enter the data into the server using JSON.

3. Data:

```
{  
  "RectSelection": 3,  
  "NoOfRecPerGrp": 2,  
  "MaxPower": 120,  
  "MaxVoltage": 1000,  
  "MaxCurrent": 100,  
  "MaxRectPower": 30,  
  "ACMeterSel": 0,  
  "DCMeterSel": 4,  
  "FaultBitmask": 100,  
  "GunTempThreshold": 90,  
  "PhaseUVThreshold": 159,  
  "PhaseOVThreshold": 279,  
  "ChargerType": 2,  
  "ACType2Enable": 0,  
  "AuthType": 0,  
  "ChargeControlMode": 1,  
  "G1MaxCurrentLimit": 123,  
  "G2MaxCurrentLimit": 121,  
  "ACMandateEnable": 0,  
  "DCMandateEnable": 0  
}
```

### 3.1 Data Command Parameters

This part is used to obtain values and arrange them in data commands based on the user's requirements.

- **Rectifier Selection Key Command:** RectSelection

Value as per the following list:

Rectifier Manufactures	Values
UUGREEN	(0U)
MAXWELL	(1U)
SICON	(2U)
TONHE	(3U)
HUAWEI	(4U)

- **Number of Rectifiers per Group Key Command:** NoOfRecPerGrp

value as per the following:

- Maximum support up to 8.

- **Maximum Power Key Command:** MaxPower

value as per the following:

- Set Charger Max Power Output.

- **Maximum Voltage Key Command:** MaxVoltage

value as per the following:

- Set Max Voltage of the single rectifier support.

- **Maximum Current Key Command:** MaxCurrent

value as per the following:

- Set Max Current of the single rectifier support.

- **Maximum Rectifier Power Key Command:** MaxRectPower

value as per the following:

- Set Max Power of the single rectifier support.

- **AC Meter Selection Key Command:** ACMeterSel


value as per the following list:

AC Meter Type	Values
SELEC_EM4M	(1U)
RISH_3430	(2U)
ELMEASURE_M30	(3U)
ELMEASURE_LG2XX0D	(4U)
HAVELLS_SDM630	(5U)
SELEC_MFM384	(6U)
RISH_ED4311	(7U)

- **DC Meter Selection Key Command: DCMeterSel**  
value as per the following list:

DC Meter Type	Values
RISH_EM6000	(1U)
RISH_EM6001	(2U)
SELEC_EM2M	(3U)
ELECNova_PD195Z	(4U)
YADA_3366D_J2	(5U)
PILOT_SPM90	(6U)
ELMEASURE_EDC2150	(7U)
ELECNova_PD195Z_CD32	(8U)
DC_IVY_EM619002	(9U)

- **Fault Setting Key Command: FaultBitmask**  
value as per the following list:

NOTE!	Bit Setting
	The user can set faults as needed, and using the Windows programmer calculator, the user can obtain bit values in decimal values for the fault setting.

Fault Bit Mask	32	16	8	4	2	0
SPD_FAULT (0U)	0	0	0	0	0	1
SMOKE_FAULT (1U)	0	0	0	0	1	0
TAMPER_FAULT (2U)	0	0	0	1	0	0
LED_FAULT (3U)	0	0	1	0	0	0
TEMPERATURE_FAULT (4U)	0	1	0	0	0	0
ISOLATION_FAULT (5U)	1	0	0	0	0	0

- For fault bit selection, the user should use the programmer calculator.

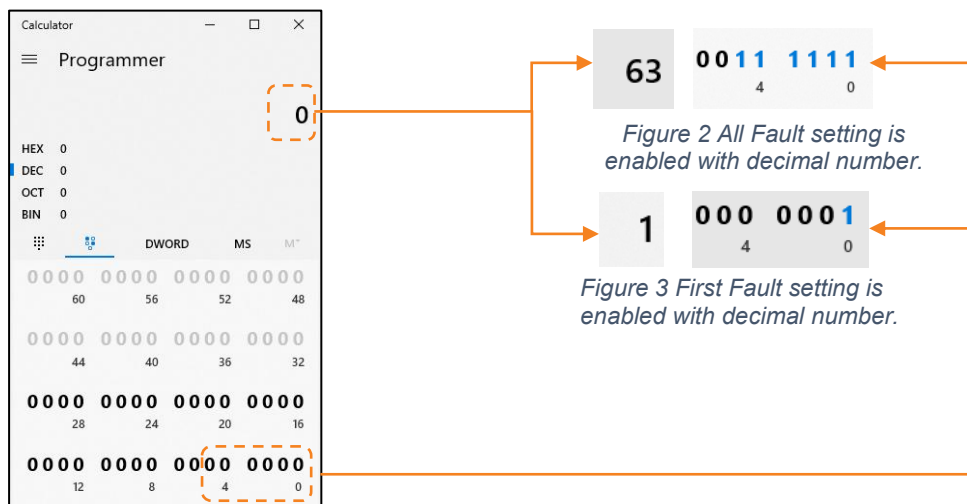


Figure 2 All Fault setting is enabled with decimal number.

Figure 3 First Fault setting is enabled with decimal number.

- Gun Temperature Threshold Key Command:** GunTempThreshold  
 Value as per the following:
  - Range: 0 ~ 100 °C, Default value 90 °C.
- Phase Under Voltage Threshold Key Command:** PhaseUVThreshold  
 Value as per the following:
  - Range: 100V - 400V, Default: 159V
- Phase Over Voltage Threshold Key Command:** PhaseOVThreshold  
 Value as per the following:
  - Range: 100V - 400V, Default: 279V
- Charger Gun Type Selection Key Command:** ChargerType  
 Value as per the following list:

Fault Bit Mask	Values
SINGLE_GUN	(1U)
DUAL_GUN	(2U)

- AC Type-2 Connector Enable Key Command:** ACType2Enable  
 Value as per the following list:

AC Type-2	Values
Disabled	0
Enabled	1

- Authentication Type Selection Key Command:** AuthType  
 Value as per the following list:

Authentication Type	Values
STANDARD	(0U)
PLUG_N_CHARGE	(1U)
PLUG_N_PLAY	(2U)

- Change Control Mode Selection Key Command:** ChargeControlMode  
 Value as per the following list:

Charger Controller Mode	Values
STANDALONE_MODE	(0U)
DYNAMIC_MODE	(1U)
DUAL_SOCKET_MODE	(2U)

- Gun 1 Maximum Current Limit Key Command:** G1MaxCurrentLimit  
 Value as per the following:
  - Range: 1 ~ 999A

- **Gun 2 Maximum Current Limit Key Command:** G2MaxCurrentLimit

Value as per the following:

- Range: 1 ~ 999A

- **AC Mandate Key Command:** ACMandateEnable

Value as per the following list:

AC Mandate	Values
Non-Mandatory	0
Mandatory	1


- **DC Mandate Key Command:** DCMandateEnable

Value as per the following list:


DC Mandate	Values
Non-Mandatory	0
Mandatory	1


## **4 Data Transfer Command Parameter for Retrieval of Existing Error Notification**

1. Vendor ID: A5A55A5A
2. Message ID: 9891
3. Data: empty

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