

# CODEMAN USER GUIDE FOR SERVICE

User manual - EN

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## 1. Codeman Onboarding

To get access to Codeman, please submit your access request to cone va's Service and Operations team at [serviceoperations@cone va.com](mailto:serviceoperations@cone va.com). Once your account has been created, a verification email will be sent with the instructions to finish setting up the account, as shown in Fig. 1 below.

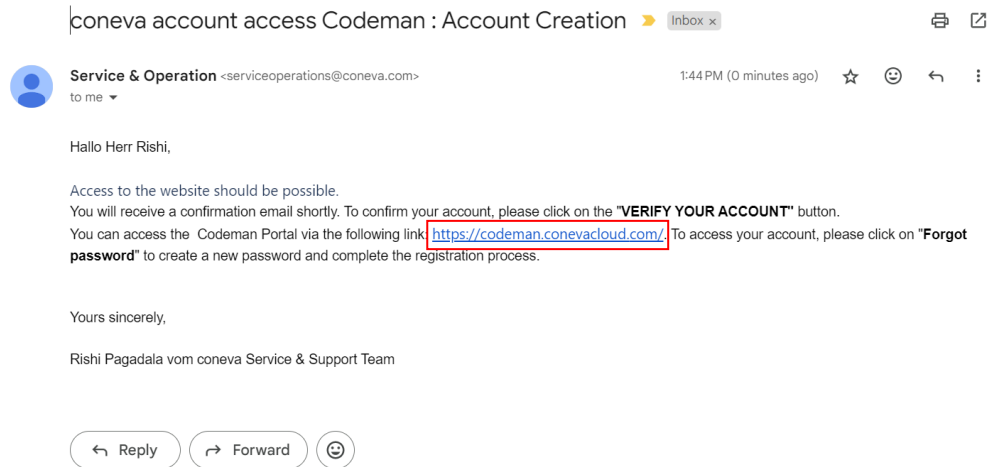


Fig. 1 Verification email

The Codeman Portal can be reached using the website, <https://codeman.conevacloud.com>, which can also be found in the verification email. Enter the registered email address along with the newly created password to log in.

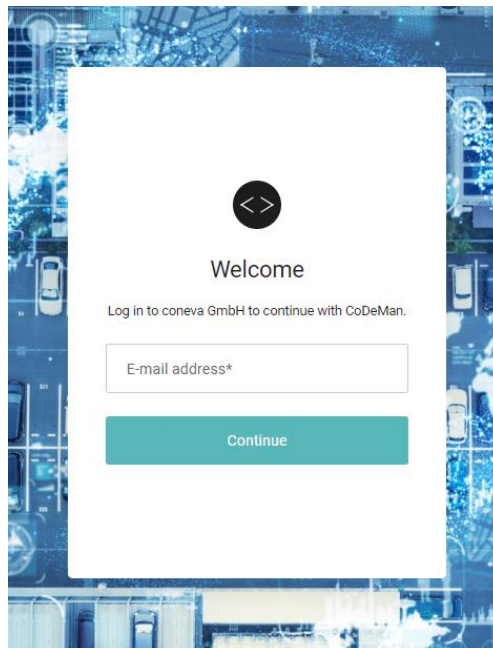


Fig. 2 Login page

After successful log in, you will be redirected to the Codeman home page, which contains a list of all authenticated devices (Fig. 3).








<div> <div>  <div>coneva</div> </div> <div> <div>FA</div> <div>   </div> </div> </div>							
<div> <div>Sites: 187 Available</div> <div> <div>All [187]</div> <div>Free Text Search:</div> </div> </div>							
Site				Charger Models	Load Management	Proxy 	Backend
amazon-de-bochum-44807-002	1	20	40	A1 [20]	Cascade Dynamic	OCPP	Local Backend (Coneva)
amazon-de-essen-45141-002	2	190	374	A1 [169]	Cascade Static	OCPP	Local Backend (Coneva)
awg-de-bassum-27211-001	3	11	21	A1 [11]	Cascade Dynamic	OCPP	Local Backend (Coneva)
babor-de-aachen-52078-001	1	22	42	A1 [22]	Cascade Static	OCPP	Local Backend (Coneva)
beckerlogistik-de-aachen-52070-002	3	5	10	A1 [5]	Cascade Dynamic	OCPP	ws://ocpp.e-flux.nl/1.5/ie...
bofrost-de-altenstadt-63674-001	1	2	4	A1 [2]	Cascade Static	OCPP	ws://ocpp.e-flux.nl/1.5/ie...
bofrost-de-altshausen-88361-002	1	3	6	A1 [3]	Cascade Static	OCPP	ws://ocpp.e-flux.nl/1.5/ie...
bofrost-de-berglamen-59192-001	1	3	6	A1 [3]	Cascade Static	OCPP	ws://ocpp.e-flux.nl/1.5/ie...
bofrost-de-bottrop-46240-001	1	3	6	A1 [3]	Cascade Static	OCPP	ws://ocpp.e-flux.nl/1.5/ie...
bofrost-de-buseck-35418-001	1	2	4	A1 [2]	Cascade Static	OCPP	ws://ocpp.e-flux.nl/1.5/ie...
bofrost-de-dreieich-63303-001	1	2	4	A1 [2]	Cascade Static	OCPP	ws://ocpp.e-flux.nl/1.5/ie...
bofrost-de-duisburg-47249-001	1	3	6	A1 [3]	Cascade Static	OCPP	ws://ocpp.e-flux.nl/1.5/ie...

Fig.3 Device list page

## 2. Dashboard Overview

To access the site's dashboard view, click on any device name listed on the homepage (Fig 3). The dashboard view shows an overview of the connected charge stations, as well as their status and details (Fig 4).



Fig.4 Overview

1. **SmartBox Status:** displays the current condition of the device. A green symbol indicates that the SmartBox is connected, while a red symbol indicates that the SmartBox is disconnected.
2. **SmartBox SW Version:** current software version of SmartBox.
3. **Site Configuration:** displays the total number of chargers, along with the details of the number of connectors for each specific charger commissioned on site.
4. **System Schematic View:** system diagram providing an overview of the components used and its configuration for the specific site (Fig. 5).

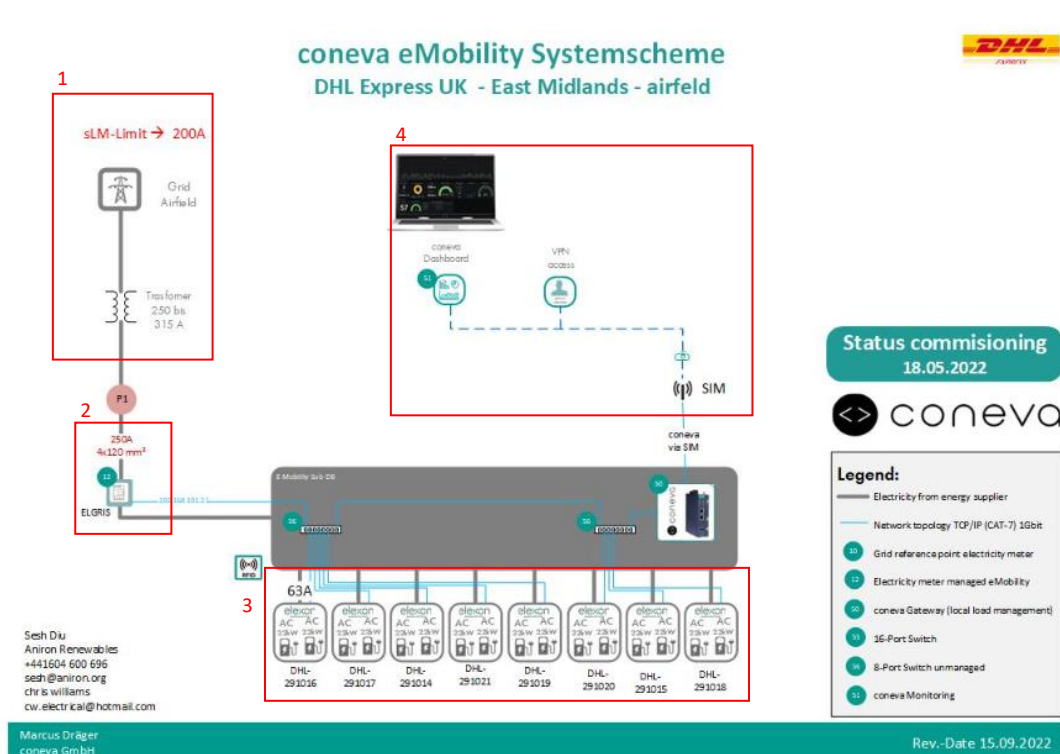


Fig.5 System Scheme

1. **Energy Generation Import area:** energy is supplied by the grid and the PV plant via the main grid.
2. **Main Grid Meter:** calculates the value of incoming energy, which is important for load management.
3. **Charging Stations:** for one charging station, many charge points could be available. RFID authentication is used to operate all of them.
4. **Monitoring section:** operated by coneve Service & Operation team.

### 3. Module Status

This page displays the status of the load management modules.

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Sites > dhl-uk-midlandsairfield-de74-001

Overview	Module Status	Charge Points	RFID Tags	Transactions
Module	1 🟢 Last Active		2 Age	3 Status
iomgr	🟢 2024-05-06 17:00:21		3.67 min	Running
lama	🟢 2024-05-06 17:00:53		3.14 min	Running
local-backend	🟢 2024-05-06 16:59:03		4.98 min	Running
local-data-ingestor	🟢 2024-05-06 17:00:41		3.33 min	Running
local-device-to-cloud	🟢 2024-05-06 16:59:57		4.07 min	Running
ocpp-cloud-data	🟢 2024-05-06 17:00:28		3.55 min	Running
ocpp-cp-config	🟢 2024-05-06 17:00:52		3.15 min	Running
ocpp-limits	🟢 2024-05-06 17:00:53		3.14 min	Running
ocpp-proxy	🟢 2024-05-06 17:00:36		3.43 min	Running
ocpp-transaction-normalizer	🟢 2024-05-06 17:00:52		3.16 min	Running
edgeAgent	🟡			Running
edgeHub	🟡			Running
ftp-server	🟡			Running
http-server	🟡			Running
moxa-ui	🟡			Running
redis	🟡			Running

Fig.6 Module Status Section

1. **Last Active:** indicates the current status of the module. A green symbol signifies that the status was updated within the last 8 minutes, indicating recent activity. If the device fails to send any status information within the next 8 minutes or after 8 minutes, a yellow symbol is displayed, Red indicating that it has not been updated for up to 15 minutes. After 15 minutes of no updates, a red symbol is displayed (Fig. 7).
2. **Age:** shows last module status updated time.
3. **Status:** shows the running module status.

Age = Now - Last Active						
Symbol	Criteria					Check
🟢	0 min	<=	Age	<	8 min	Passed
🟡	8 min	<=	Age	<	15 min	Warning
🔴	15 min	<=	Age			Failed
⬛	Feature unused					

Fig.7 color code of device status

## 4. Charge Points

This page displays the charging station status, which is updated every few seconds via OCPP (Fig. 8).

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Overview Module Status **Charge Points** RFID Tags Transactions

☐ Show All Soft Reset Hard Reset

Site	Charger	Status	Last Heard From	Power	IP	Model	Firmware	Last Boot Timestamp
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291014	♥	2024-05-06 17:17:53	0.0 W		A1	SI27Ms39Ws25	2024-04-20 11:22:45
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291015	♥	2024-04-20 11:36:24	0.0 W		A1	SI27Ms39Ws25	2024-04-20 11:33:54
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291016	♥	2024-05-05 10:51:49	0.0 W		A1	SI27Ms39Ws25	2024-04-30 08:16:56
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291017	♥	2024-05-06 17:18:02	0.0 W		A1	SI27Ms39Ws25	2024-04-20 11:22:45
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291018	♥	2024-05-06 17:18:04	6778.4 W		A1	SI27Ms39Ws25	2024-04-20 11:22:54
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291019	♥	2024-05-06 17:17:56	0.0 W		A1	SI27Ms39Ws25	2024-04-30 09:33:57
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291020	♥	2024-05-06 17:18:03	0.0 W		A1	SI27Ms39Ws25	2024-04-20 11:52:13
<input type="checkbox"/>	<input checked="" type="checkbox"/> DHL-291021	♥	2024-05-06 17:17:21	0.0 W		A1	SI27Ms39Ws25	2024-04-20 11:22:43

Fig.8 Charge Points

Select any of the chargers in the list to access the charger details (Fig. 9).

Sites • dhl-uk-midlandsairfield-de74-001 • Charge Points • DHL-291014

**Charger Details**

Charger: DHL-291014

- Charger ID: DHL-291014
- IP: None
- Vendor: aixcharge
- Model: A1
- Last Heard From: 2024-05-06 17:25:01 ♥
- Firmware Version: SI27Ms39Ws25 **1** Update Firmware **3** Please enter URL or IP address of new firmware
- Last Boot Timestamp: 2024-04-20 11:22:45 **2** Soft Reset Hard Reset

Connector 1

- Status: Available (2024-05-06 12:07:31)
- Error Code: NoError (2024-05-06 12:07:31)
- Power: 0.0 W (2024-05-06 17:25:51)

Connector 2

- Status: Available (2024-05-06 12:11:25)
- Error Code: NoError (2024-05-06 12:11:25)
- Power: 0.0 W (2024-05-06 17:25:51)

Fig.9 Charger Details

- 1. Update Firmware:** update charger's firmware.
- 2. Soft Reset:** end any ongoing transactions and returning to the original status.
- 3. Hard Reset:** restarts the charging point software.

## 5. RFID-Tags

RFID (Radio Frequency Identification) cards enable a charging station to identify and allow authorised persons to start and stop the charging process. This functionality is only available on Codeman if the SmartBox is set to use the Coneva local OCPP backend.

### Add/Remove RFID-Tag:

RFID Tag	Expiry	Multi
027FA2E4	2030-01-01T00:00:00+00:00	multi
02A2A2E4	2030-01-01T00:00:00+00:00	multi
07608FA6	2030-01-01T00:00:00+00:00	multi
12809FE4	2030-01-01T00:00:00+00:00	multi
12879FE4	2030-01-01T00:00:00+00:00	multi
12D59FE4	2030-01-01T00:00:00+00:00	multi
2254A0E4	2030-01-01T00:00:00+00:00	multi
22DEA2E4	2030-01-01T00:00:00+00:00	multi
2D3FA1E2	2030-01-01T00:00:00+00:00	multi
2D6F84B9	2030-01-01T00:00:00+00:00	multi
2DAAA7E2	2030-01-01T00:00:00+00:00	multi
324FA2E4	2030-01-01T00:00:00+00:00	multi
37768BA6	2030-01-01T00:00:00+00:00	multi
4248A3E4	2030-01-01T00:00:00+00:00	multi
42FFA2E4	2030-01-01T00:00:00+00:00	multi
521BC9E4	2030-01-01T00:00:00+00:00	multi

Fig.10 RFID Tags

It is possible to add a new RFID in the system either via the backend system or the physical scan method.

To add a new ID via the backend service:

1. Click on the "Edit" button (Fig. 10).
2. Click on "Add RFID Tags+", enter basic information such as ID number, ID expiry date, and user area such as multi or grid/PV then click on "Save" (Fig. 11).
3. To remove an ID, click on the red minus sign then click on "Save" (Fig. 11).

RFID Tag	Expiry	Multi
027FA2E4	2030-01-01T00:00:00+00:00	multi
02A2A2E4	2030-01-01T00:00:00+00:00	multi

Fig.11 Add RFID Tag



## Add Unauthorized RFID:

Another method of adding the RFID ID is through physical scanning at the charging station by the engineer or customer. Details are saved in the unauthorized attempts section after scanning the RFID at the charging station. Simply click on the "Add unauthorized" option (Fig. 12).

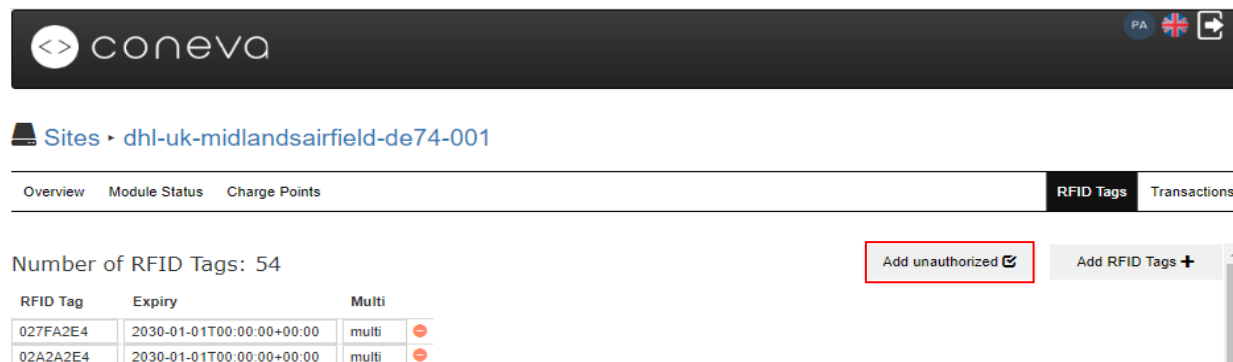


Fig.12 Add unauthorized RFID Tags.

The options will show a list of unauthorized attempts ID (Fig.13).

1. Select the RFID tags to be added to the authorised charging list.
2. Click on "Add RFID Tags".

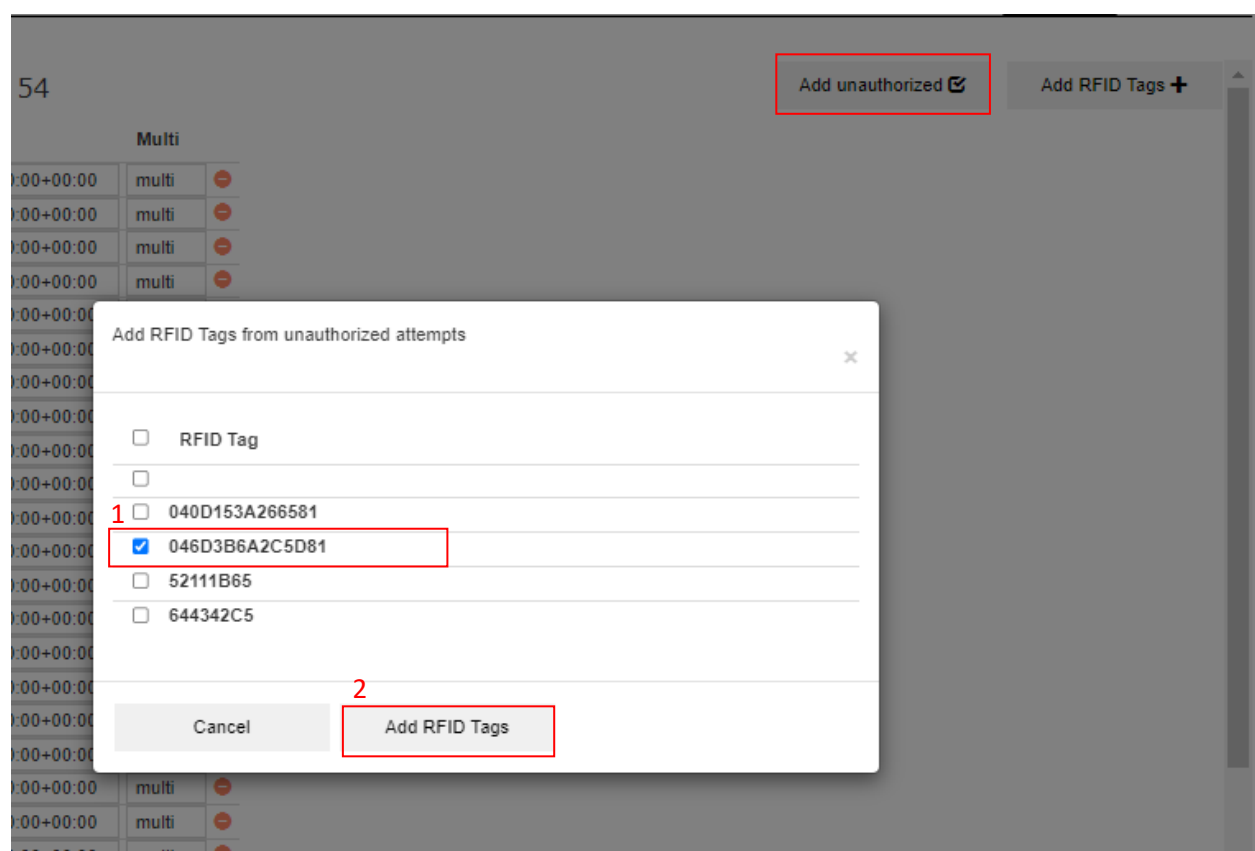






Fig.13 Add unauthorized attempts RFID Tags.

## 6. Transactions

In the Transactions tab, it is possible to view the ongoing transaction details as well as stop the charging transaction.



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[Sites](#) > [dhl-uk-midlandsairfield-de74-001](#)

[Overview](#)
[Module Status](#)
[Charge Points](#)
[RFID Tags](#)
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Active Transactions: 3

Charger	Connector	RFID Tag	Transaction ID	Start Time	Start Meter	Action
DHL-291018	1	9250A3E4	16760	2024-05-06 12:04:07	15554056.0	Stop Transaction
DHL-291019	1	D74291A6	16763	2024-05-06 12:13:04	12985125.0	Stop Transaction
DHL-291020	1	12809FE4	16761	2024-05-06 12:05:23	10260380.0	Stop Transaction

Fig.14 Transactions