



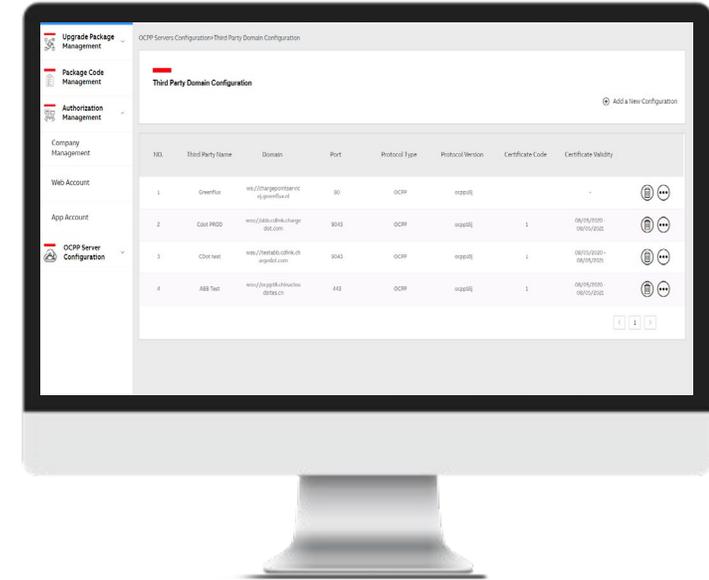
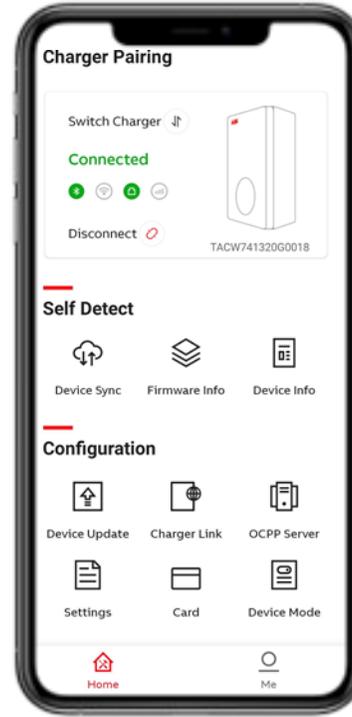
AUGUST 2020

Terra AC: TerraConfig App & Portal

Introduction

Agenda

- Introduction
- TerraConfig Accounts
- TerraConfig Portal
- TerraConfig App
- Q&A

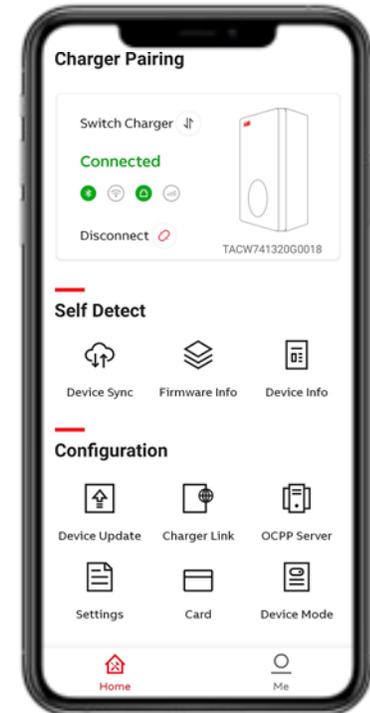


Introduction

Fully connected

TerraConfig smartphone app

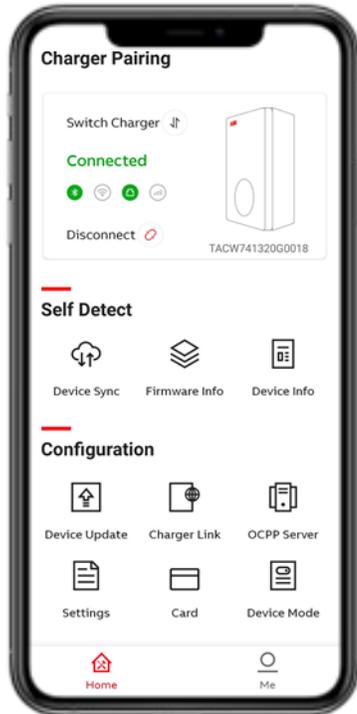
- User is typically the installer or technical operator / support engineer.
- User can be granted an App account via the TerraConfig Portal. An ABB employee must create the account.
- The user can access any charger in proximity range (Bluetooth connection).
- Search for the charger and pair via pin code verification (the same pin code that is used with ChargerSync App)
- Goal is for the installer is to configure settings while commissioning.



Introduction

Fully connected

TerraConfig smartphone app



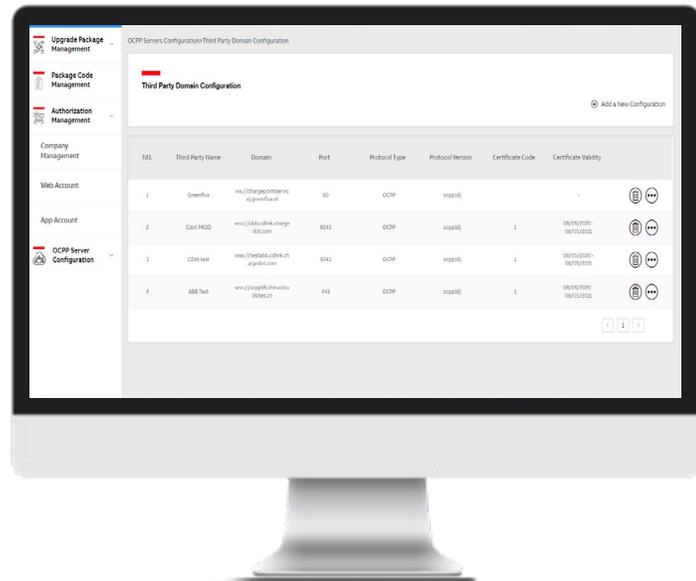
Functionality:

- Device Sync - to synchronize charger with ABB back-end server
- Firmware info
- Device info (error + session logs)
- Device update (firmware update)
- Charger link (connectivity options)
- OCPP server (configuration)
- Settings (user-settable max static current limit)
- Card (enable external RFID cards)
- Device mode (free vending mode)

Introduction

Fully connected

TerraConfig Web Portal

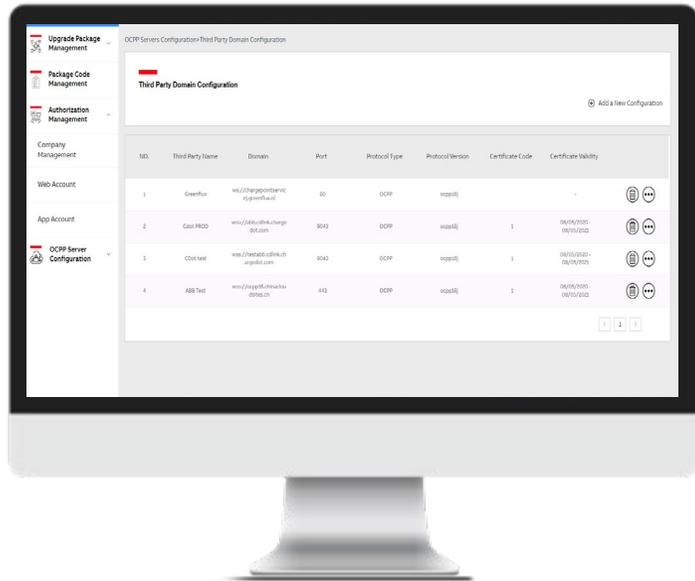


- There are 3 different account levels
1st level: Global Product Group
2nd level: Local Sales Unit
3rd level: Customers/Companies
- The user of the portal is typically the remote administrator of a site/installation/group of chargers.
- Create + manage Web + App Accounts
- Manage the OCPP configuration settings

Introduction

Fully connected

TerraConfig Web Portal



For larger CPOs and 3rd party backend

Selected functionality:

- Configure 3rd party OCPP domain configuration
- Manage companies that have access to TerraConfig solutions
- Create TerraConfig web portal accounts for partners
- Create TerraConfig app accounts for ABB employees or partners

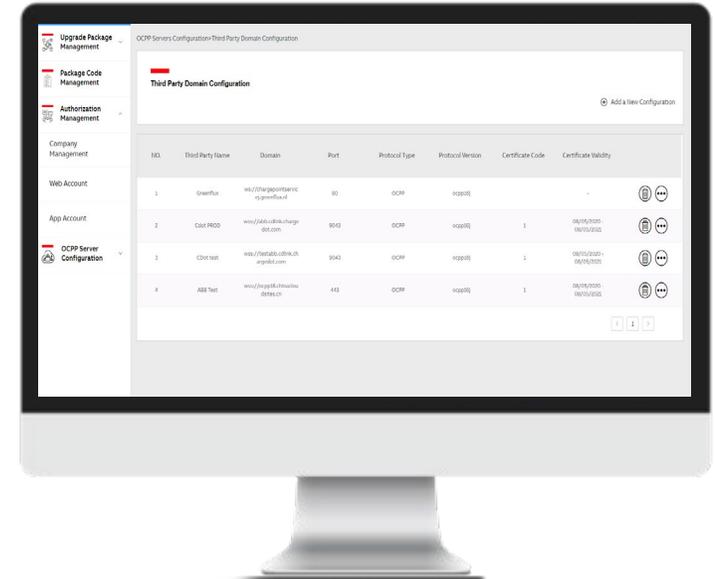
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Portal

Portal Introduction

Function

- Manage the Web Account and App Account
- Control the OCPP configuration settings
- <https://abb.installer.chargedot.com/#/login>



TerraConfig Service Portal V1.0

TerraConfig

TerraConfig Service Portal

Username

Password

[Forgot password?](#)

All rights reserved 2020

- Authorization Management
- OCPP Server Configuration
- Third Party Domain Configuration**
- Certificate Management

OCPP Servers Configuration>Third Party Domain Configuration

Third Party Domain Configuration

[+ Add a New Configuration](#)

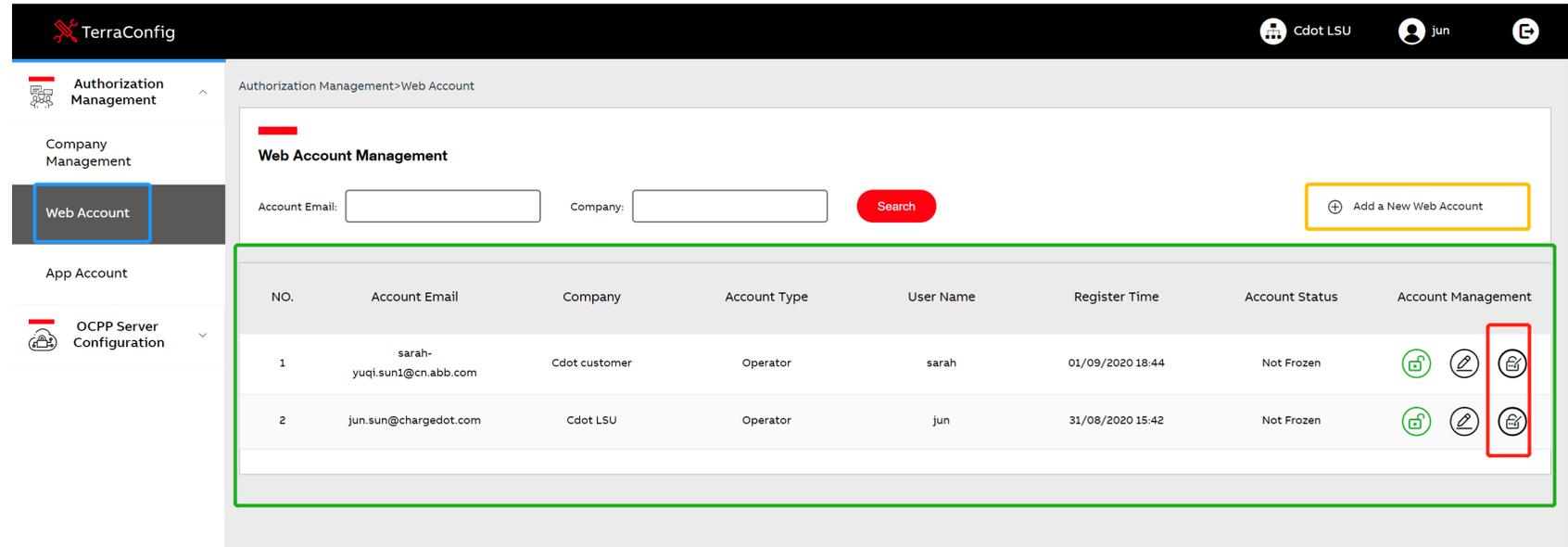
NO.	Third Party Name	Url	Port	Protocol Type	Protocol Version	Certificate Code	Certificate Validity	
1	CDTEST	wss://testabb.cdlink.chargedot.com:9090/ocpp	9090	OCPP	ocpp16j	11	10/11/2006 - 10/11/2031	 

[<](#) [1](#) [>](#)

TerraConfig Web portal - Web and App Account

Web Account

-  Web Account
-  Account list
-  add a new web account
-  change the password

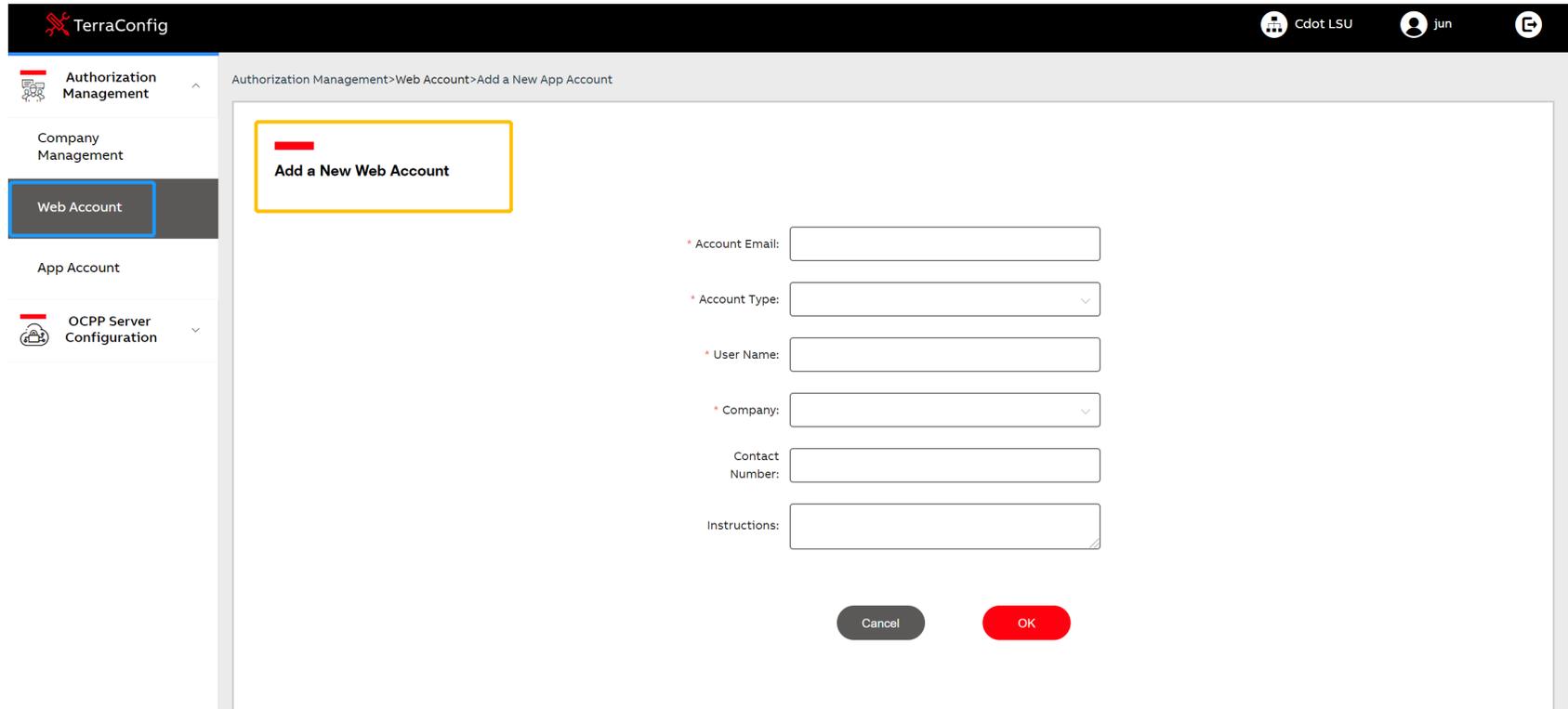


The screenshot shows the TerraConfig web portal interface for Web Account Management. The top navigation bar includes the TerraConfig logo, user information (Cdot LSU, jun), and a home icon. The left sidebar contains menu items: Authorization Management, Company Management, Web Account (highlighted with a blue box), App Account, and OCPP Server Configuration. The main content area is titled 'Web Account Management' and features search filters for 'Account Email' and 'Company', a 'Search' button, and a yellow box labeled 'Add a New Web Account'. Below these is a table with columns: NO., Account Email, Company, Account Type, User Name, Register Time, Account Status, and Account Management. The table contains two rows of data. The 'Account Management' column for each row contains three icons: a green lock, a pencil, and a red lock. The red lock icon in the second row is highlighted with a red box.

NO.	Account Email	Company	Account Type	User Name	Register Time	Account Status	Account Management
1	sarah-yuqi.sun1@cn.abb.com	Cdot customer	Operator	sarah	01/09/2020 18:44	Not Frozen	  
2	jun.sun@chargedot.com	Cdot LSU	Operator	jun	31/08/2020 15:42	Not Frozen	  

TerraConfig Web portal - Web and App Account

Add a New Web account



The screenshot displays the TerraConfig web portal interface. The top navigation bar includes the TerraConfig logo, user information (Cdot.LSU, jun), and a help icon. The left sidebar contains a menu with the following items: Authorization Management, Company Management, Web Account (highlighted with a blue border), App Account, and OCPP Server Configuration. The main content area shows the breadcrumb path: Authorization Management > Web Account > Add a New App Account. A yellow box highlights the title 'Add a New Web Account' at the top of the form. The form fields are as follows:

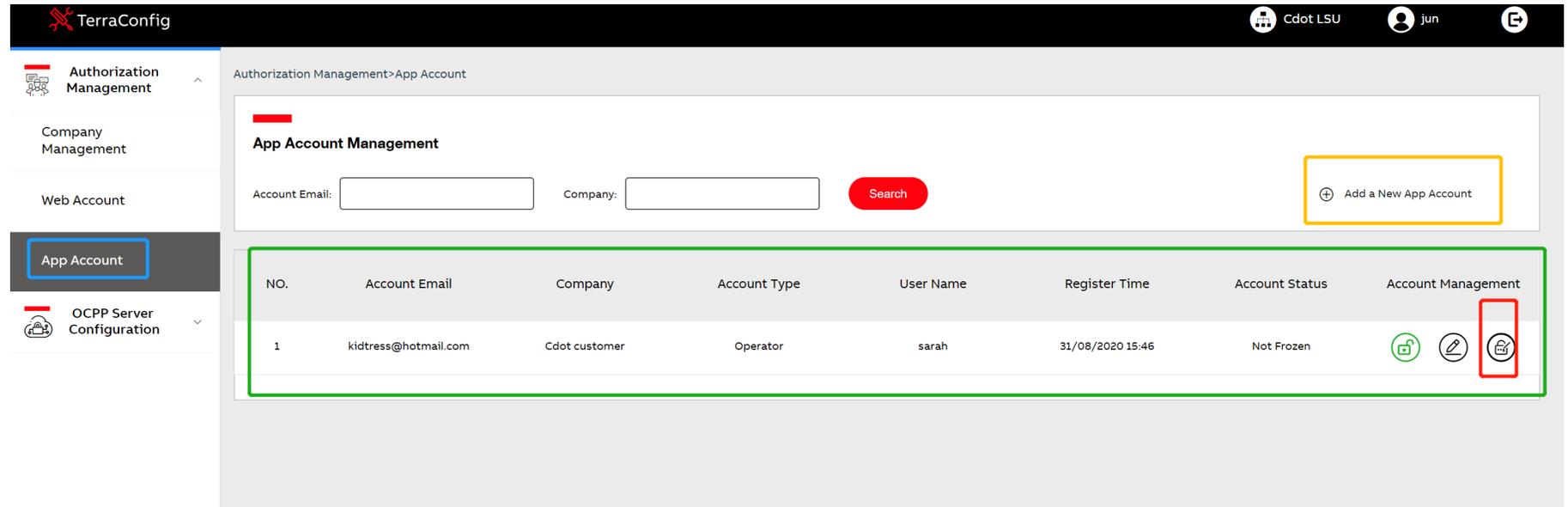
- * Account Email:
- * Account Type:
- * User Name:
- * Company:
- Contact Number:
- Instructions:

At the bottom of the form, there are two buttons: 'Cancel' (grey) and 'OK' (red).

TerraConfig Web portal - Web and App Account

Web Account

-  App Account
-  Account list
-  add a new APP account
-  change the password



The screenshot displays the TerraConfig web portal interface for App Account Management. The top navigation bar includes the TerraConfig logo, user information (Cdot LSU, jun), and a search icon. The left sidebar contains navigation options: Authorization Management (selected), Company Management, Web Account, App Account (highlighted with a blue box), and OCPP Server Configuration. The main content area is titled 'Authorization Management > App Account' and features 'App Account Management' with search filters for 'Account Email' and 'Company', a 'Search' button, and an 'Add a New App Account' button (highlighted with a yellow box). Below the search area is a table with columns: NO., Account Email, Company, Account Type, User Name, Register Time, Account Status, and Account Management. The table contains one entry with NO. 1, Account Email kidtress@hotmail.com, Company Cdot customer, Account Type Operator, User Name sarah, Register Time 31/08/2020 15:46, and Account Status Not Frozen. The 'Account Management' column for this entry contains three icons: a lock (highlighted with a red box), a pencil, and a trash can.

NO.	Account Email	Company	Account Type	User Name	Register Time	Account Status	Account Management
1	kidtress@hotmail.com	Cdot customer	Operator	sarah	31/08/2020 15:46	Not Frozen	  

TerraConfig Web portal - Web and App Account

Add a New App account

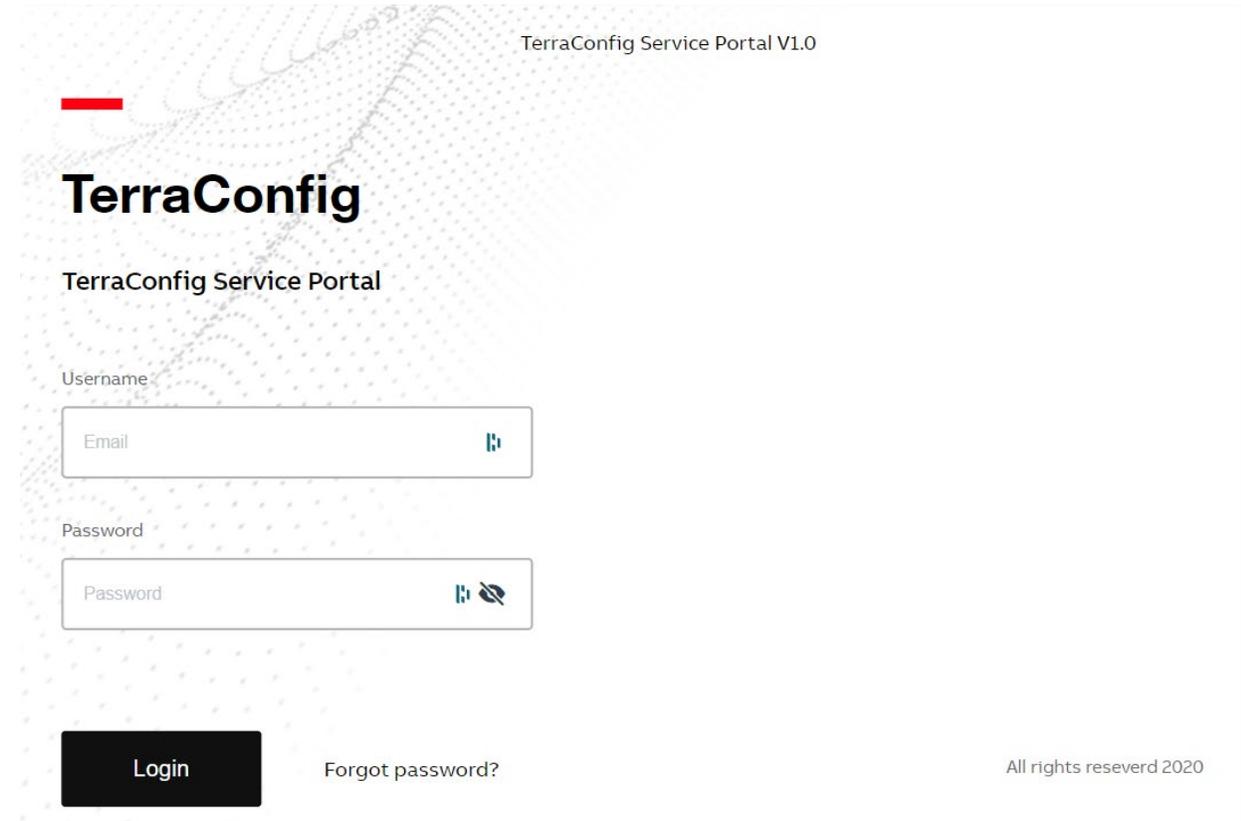
The screenshot displays the TerraConfig web portal interface. The top navigation bar includes the TerraConfig logo, user information for 'Cdot LSU' and 'jun', and a search icon. The left sidebar contains a menu with 'Authorization Management' (selected), 'Company Management', 'Web Account', 'App Account' (highlighted with a blue box), and 'OCPP Server Configuration'. The main content area shows the breadcrumb 'Authorization Management > App Account > Add a New App Account' and a form titled 'Add a New App Account' (highlighted with a yellow box). The form contains the following fields:

- * Account Email:
- * Account Type:
- * User Name:
- * Company:
- Contact Number:
- Instructions:

At the bottom of the form are two buttons: 'Cancel' and 'OK'.

TerraConfig Web portal

Timeline and description must be added



TerraConfig Web portal - Third Party Domain Configuration

Example of list of 3rd Party

Server:

Third party domain configuration section

List of backend showing: Domain

Port

Protocol type and version

To Add new configuration

Detail about backend

The screenshot shows the TerraConfig web portal interface. The left sidebar contains navigation options: Authorization Management, OCPP Server Configuration, Third Party Domain Configuration (highlighted with a blue box), and Certificate Management. The main content area is titled 'OCPP Servers Configuration > Third Party Domain Configuration'. It features a header with the TerraConfig logo and user information (Cdot LSU, jun). Below the header is a section titled 'Third Party Domain Configuration' with an 'Add a New Configuration' button highlighted in yellow. A table lists the configurations with columns: NO., Third Party Name, Url, Port, Protocol Type, Protocol Version, Certificate Code, and Certificate Validity. The first row shows a configuration with NO. 1, Third Party Name CDTEST, Url wss://testabb.cdlink.chargedot.com:9090/ocpp, Port 9090, Protocol Type OCPP, Protocol Version ocpp16j, Certificate Code 11, and Certificate Validity 10/11/2006 - 10/11/2031. A red box highlights the details icon (three dots) for this configuration.

NO.	Third Party Name	Url	Port	Protocol Type	Protocol Version	Certificate Code	Certificate Validity
1	CDTEST	wss://testabb.cdlink.chargedot.com:9090/ocpp	9090	OCPP	ocpp16j	11	10/11/2006 - 10/11/2031

TerraConfig Web portal - Add a new configuration

Once a new Configuration is created by filling all the fields, the server will add it to the list and will be available via TerraConfig App.

The screenshot shows the 'Add a New Configuration' form in the TerraConfig web portal. The form is titled 'OCPP Server Configuration > Third Party Domain Configuration > Add a new OCPP Server Configuration'. A yellow box highlights the 'Add a New Configuration' button at the top left of the form area. The form fields are as follows:

- Third Party Name: *
- Type: *
- URL: *
- Protocol Type: *
- Protocol Version: *
- ✓ Password: *
- Repeated Password: *
- Certificate Upload: *
- Company: Select *
- Instruction:

The OCPP Server configuration summary card shows a diagram with 'Original' (server icon), 'Charger' (charger icon), and 'External' (database icon) connected by arrows. Below the diagram, it states: 'Enable this function to allow external organizations to access the EVSE.' There is a toggle switch for 'Enable external access' which is currently turned on. Below this, the 'Serial Number' is listed as 'TACW2242420T0234'. Under 'Server Info', the URL 'chargepointservicej.greenflux.nl' is shown with a right-pointing arrow.

- Total: 4 data
- chargepointservicej.greenflux.nl
 - abb.cdlink.chargedot.com
 - testabb.cdlink.chargedot.com
 - ocpp16.chinacloudsites.cn

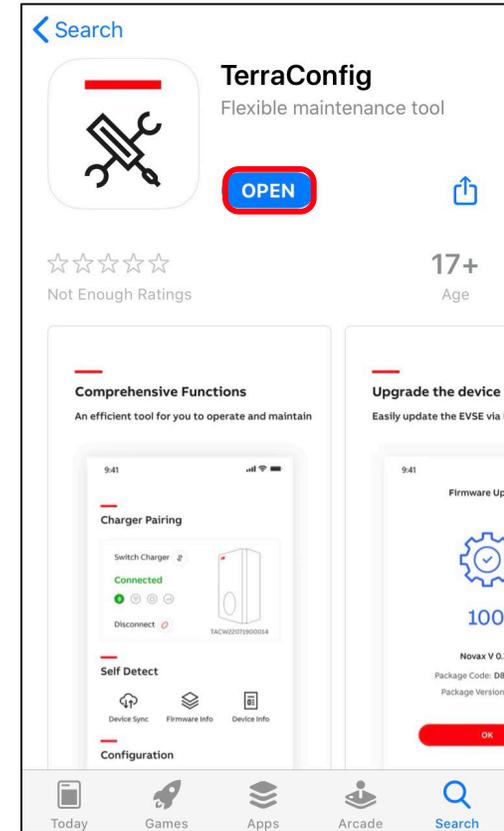
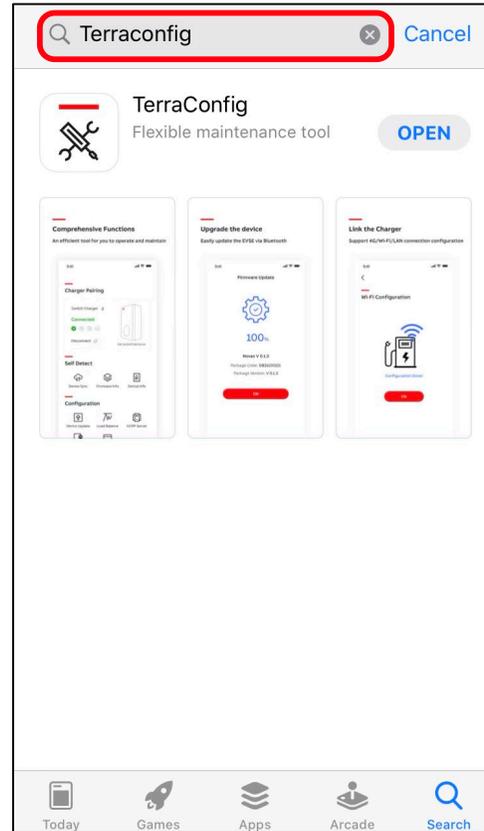


TerraConfig App

Where to find the TerraConfig App?

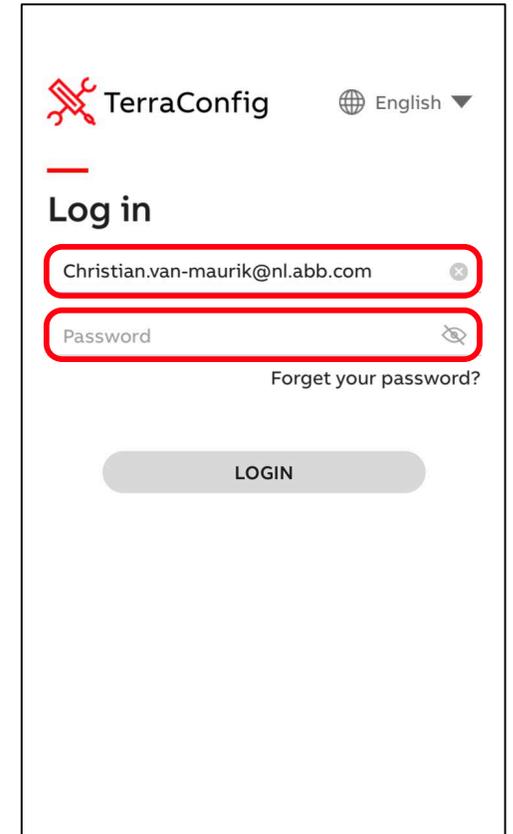
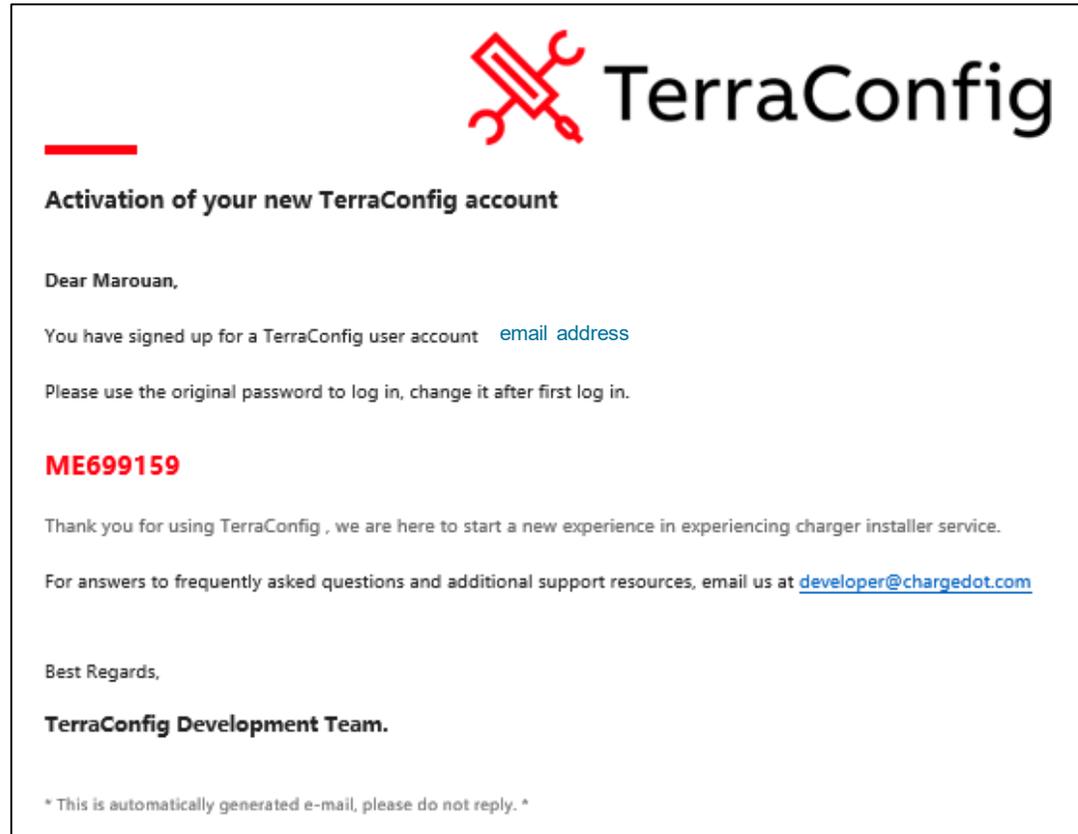
By 'TerraConfig' in App or Google play store

*Note:
Previously downloaded TerraConfig App need
to be updated to minimum version 1.3.*



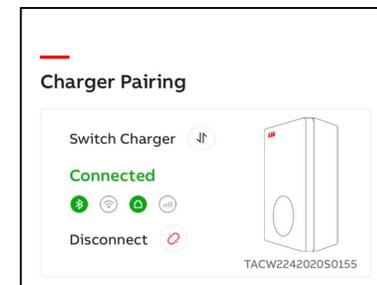
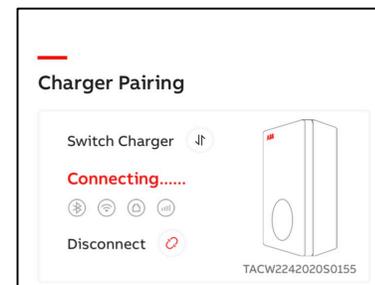
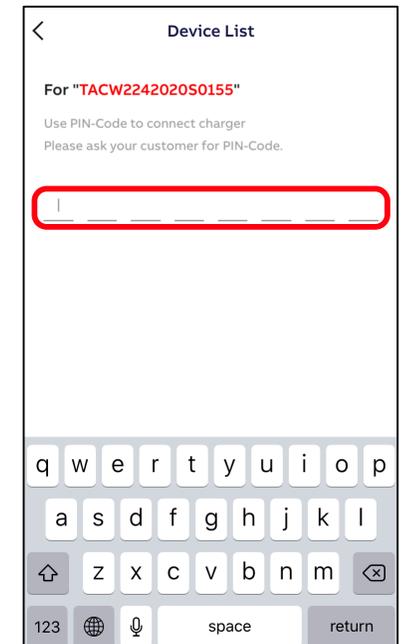
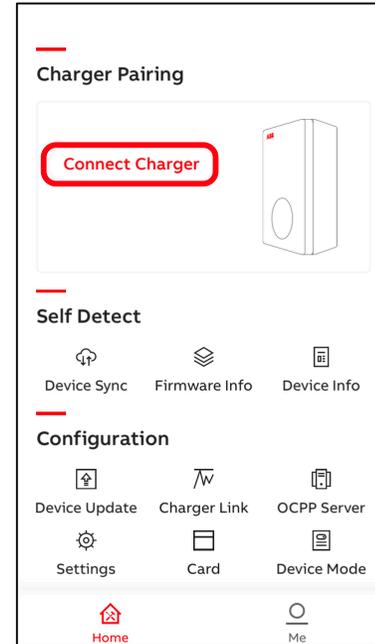
Log in with TerraConfig account

- Install and open TerraConfig App
- Log in with credentials received by email upon account request.
- Follow the steps to create your own password and log in.



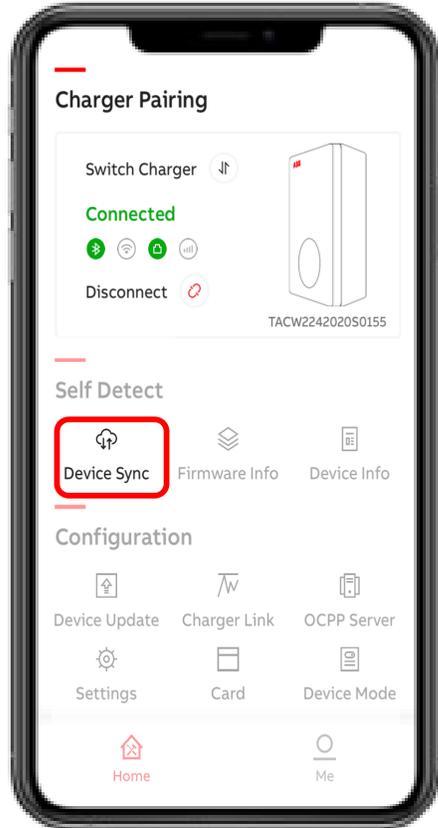
Connect to Charger

1. Smart phone needs to be connected to the internet and Bluetooth connection enabled
 2. Press 'Connect Charger' to activate search for Charger
 3. Select your Charger from the Device List by Serial Number
 4. Enter the Pin code (letters + numbers) given by Charger owner and press 'Continue'.
- Note: owner can change the pin code by ChargerSync App*
5. TerraConfig App will connect to that charger



Home screen

Device Sync

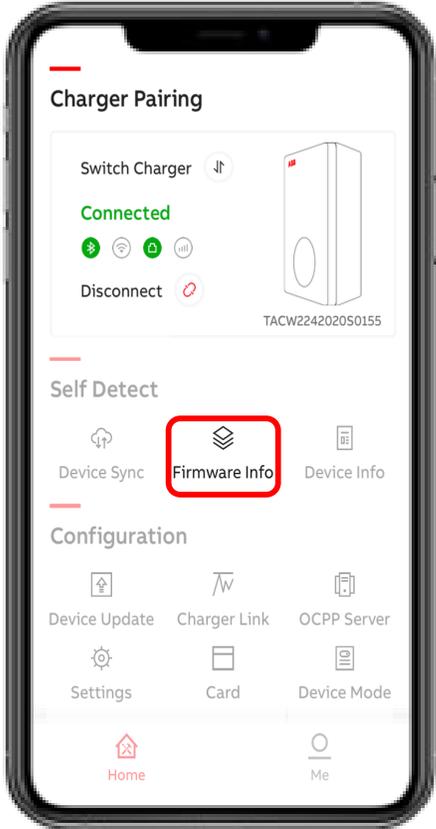


- 'Device Sync' allows the charger to be manually synchronized with the ABB back-end.
- Recommended to always press 'Device Sync' after commissioning/ changes done by TerraConfig App

Home screen

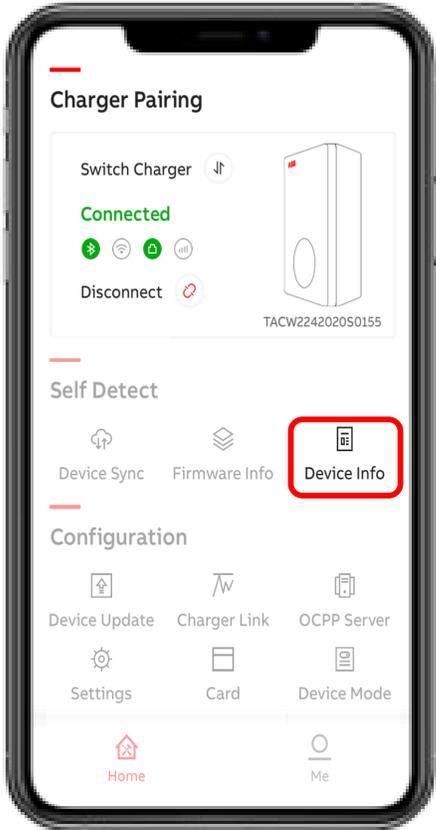
Firmware Info

- In 'Firmware Info' package version/ firmware version can be found.



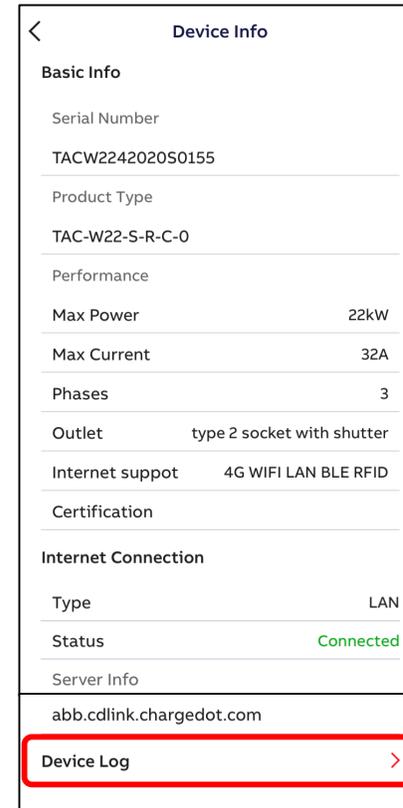
Home screen

Device Info



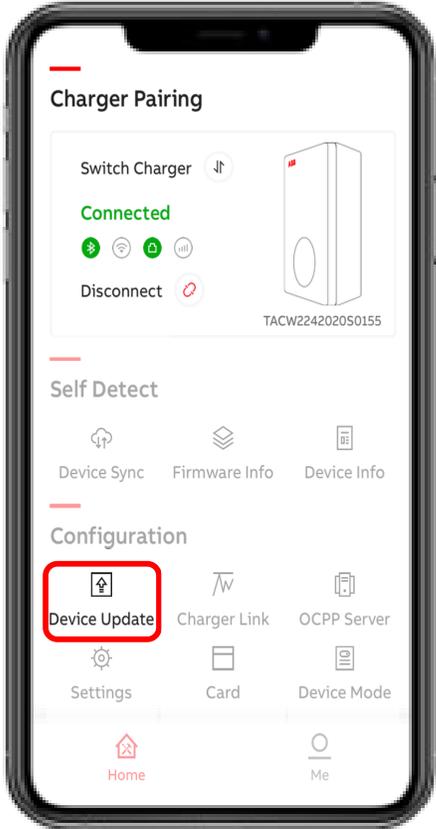
With 'Device Info' the user can find product details as well the Device Log in case diagnostics are needed.

- *Serial Number*
- *Product Type*
- *Max Power (kW)*
- *Max Current (A)*
- *Phases*
- *Outlet*
- *Internet support*
- *Certification*
- *Live status of Internet Connection*
- *Server Info*
- *Device Log*



Home screen

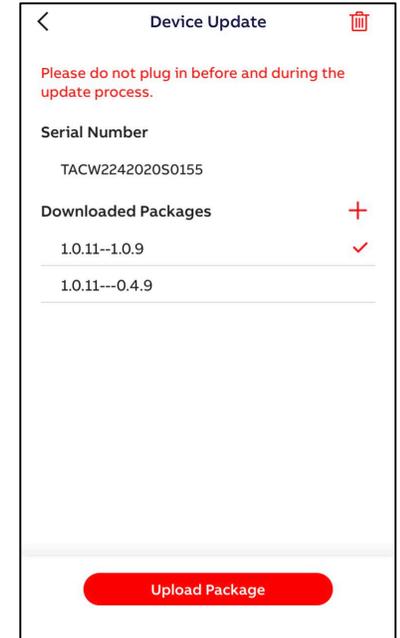
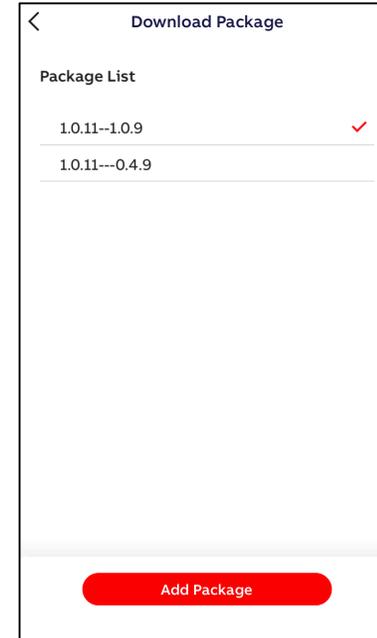
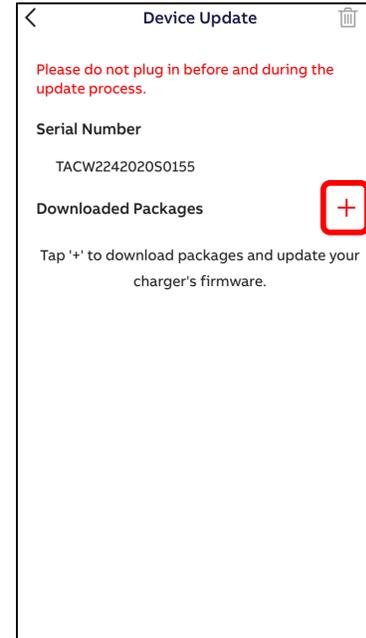
Device Update



With 'Device Update' the latest firmware or specific version can be downloaded and uploaded to the charger.

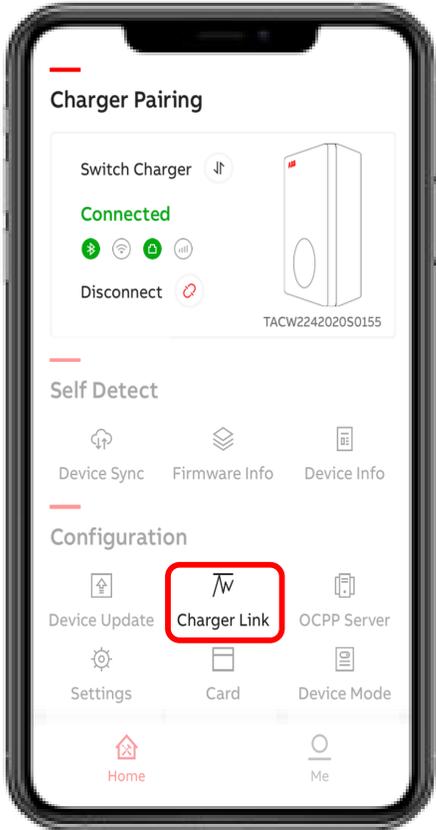
Press "+" and the TerraConfig App will search for available Firmware.

Followed by Add Package and Upload Package to the charger.



Home screen

Charger Link

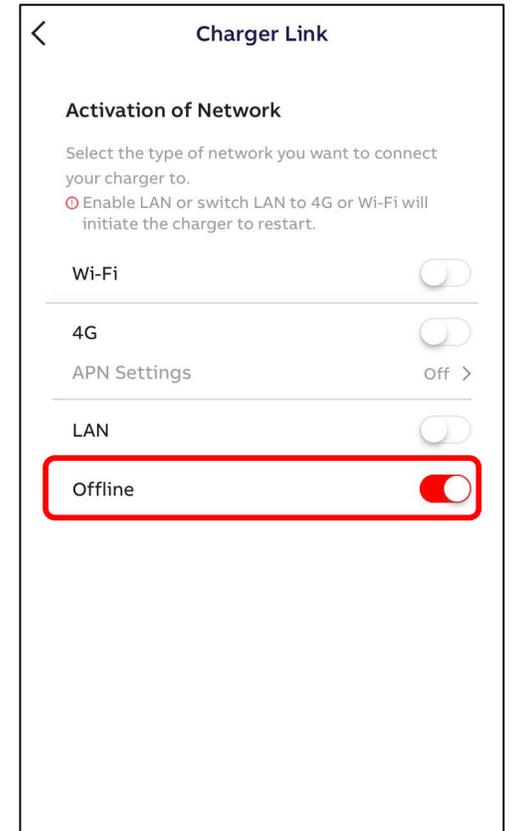
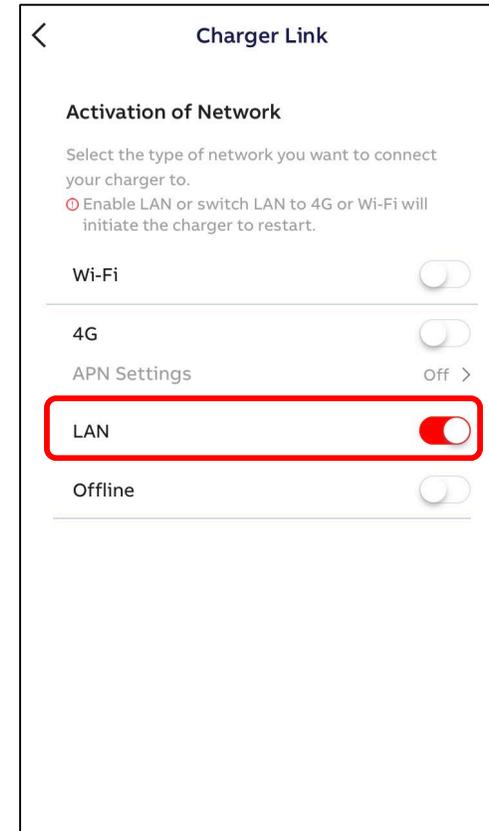


With ChargerLink the charger internetconnectivity option can be selected.

Options are

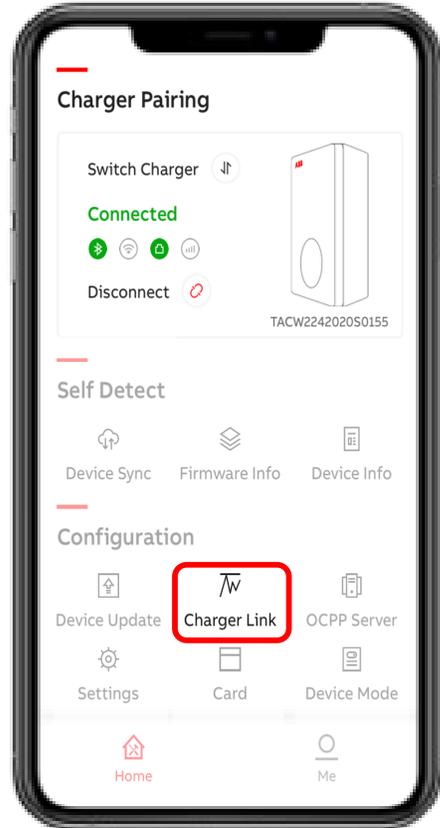
- LAN (default)
- Offline (When using the charger in offline mode only the status connectivity LED can be disabled)
- Wi-Fi
- 4G

Note: Enable LAN or switch to LAN from 4G or Wi-Fi will initiate the charger to restart!



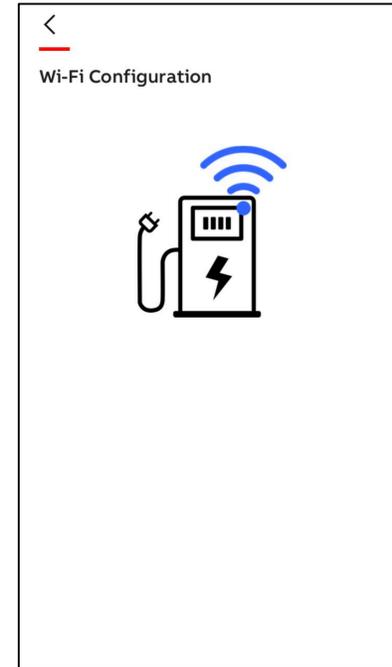
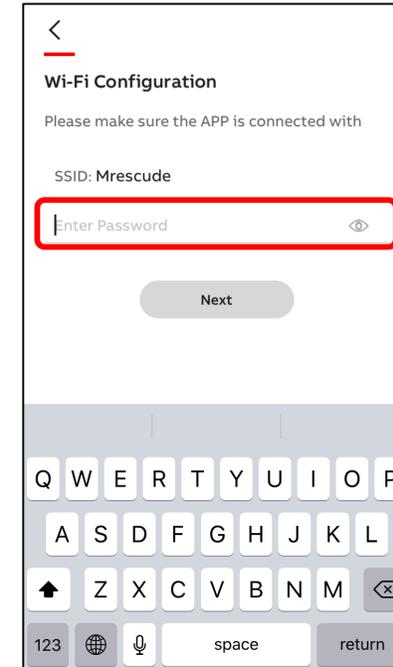
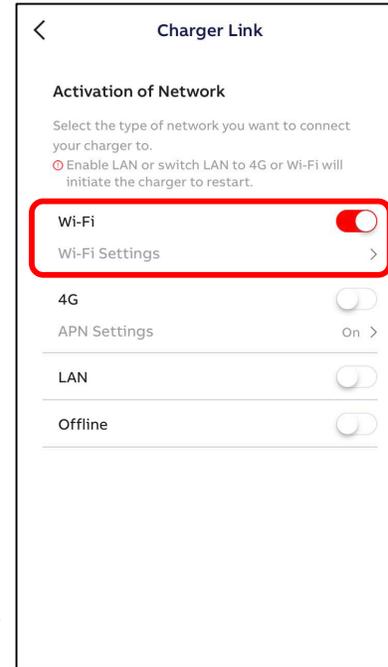
Home screen

Charger Link – Wi-Fi



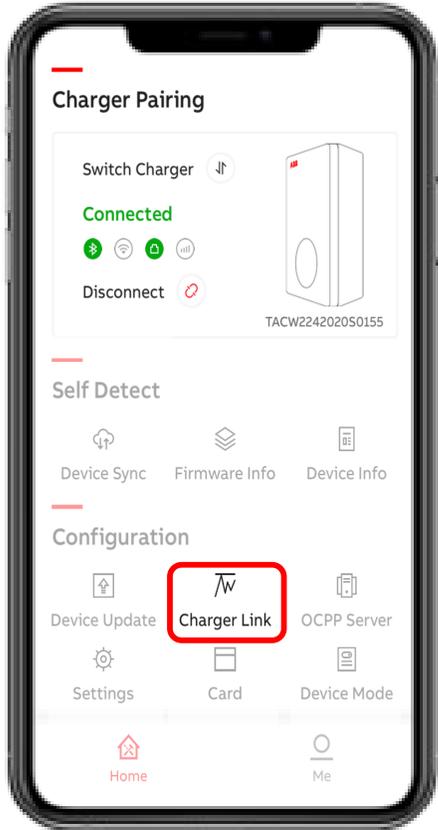
Before configuring the Charger Wi-Fi connection the smart phone needs to be connected to the selected Wi-Fi network first.

1. enable Wi-Fi and press Wi-Fi Settings
2. SSID shows the connected Wi-Fi network
3. Enter Wi-Fi password and press 'Next'
4. Charger is connected to Wi-Fi network



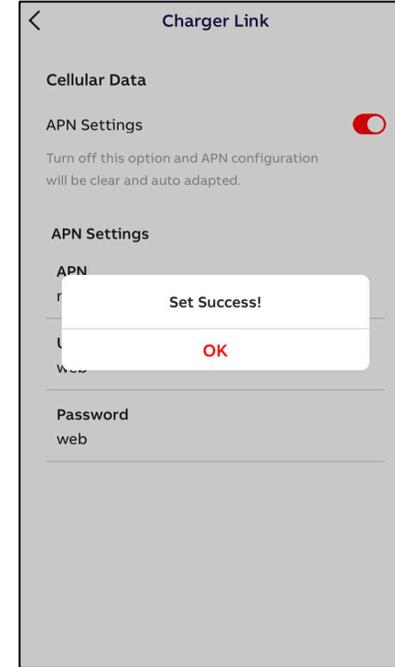
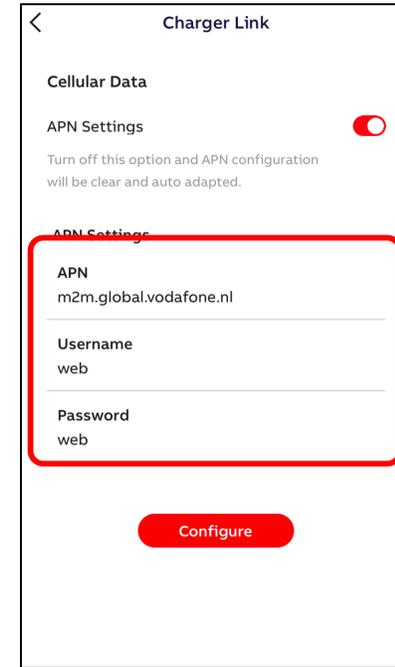
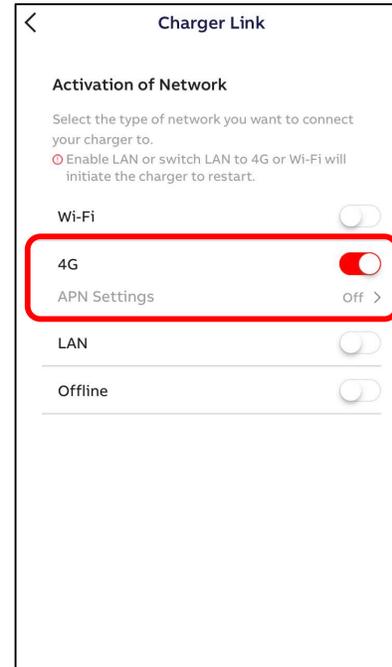
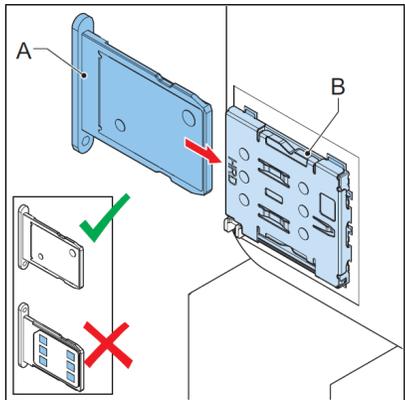
Home screen

Charger Link – 4G



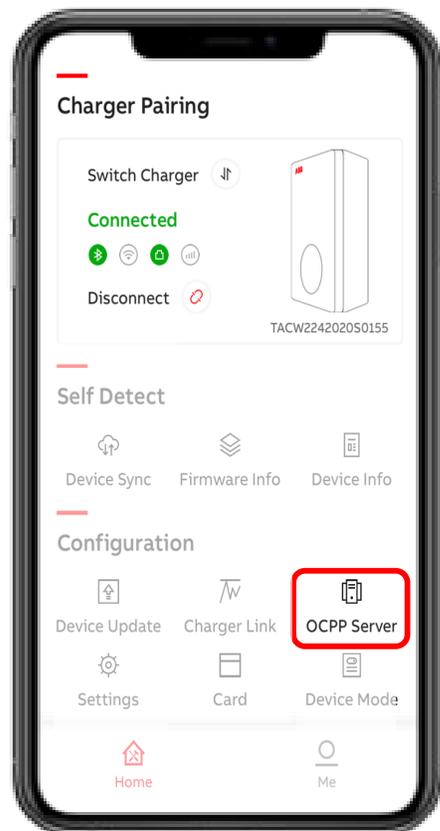
Before configuring the Charger 4G connection insert the m2m nano sim card

- enable 4G and enter APN settings (example Vodafone) and press Configure.



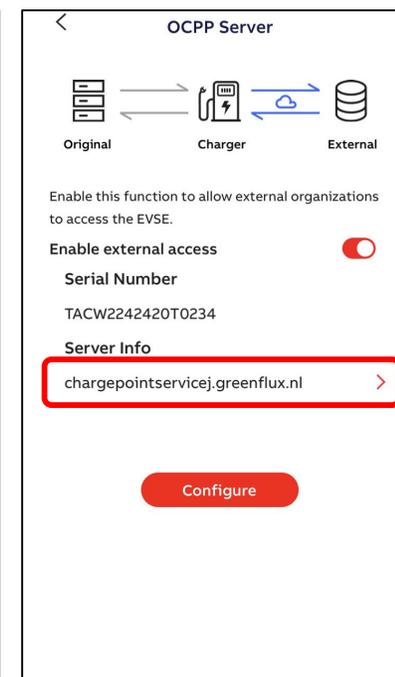
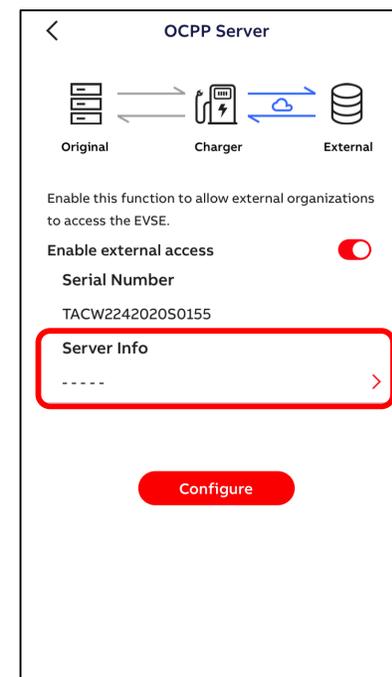
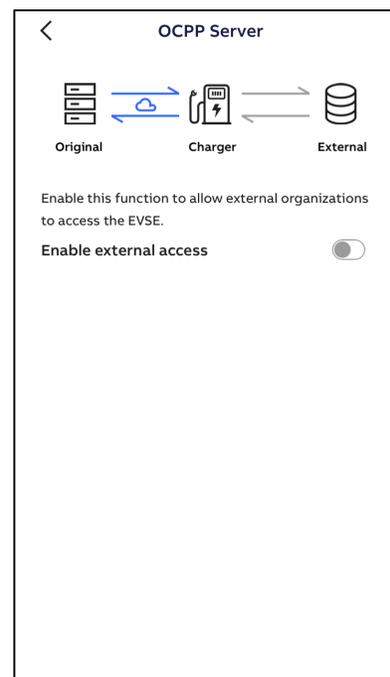
Home screen

OCPP Server



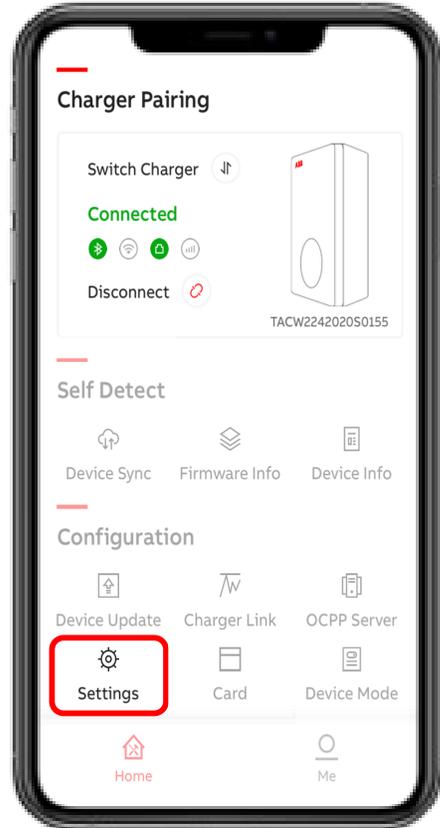
Before enable an External OCPP access the OCPP server details need to be entered/ known in the TerraConfig Portal Account. Select the External OCPP server and press Configure.

Without 'Server Info' will show '-----'.



Home screen

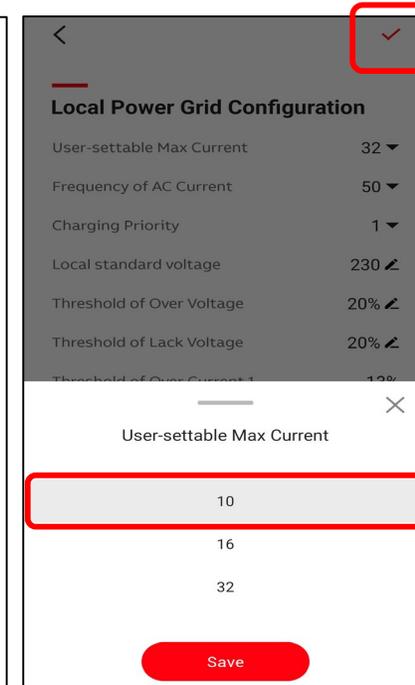
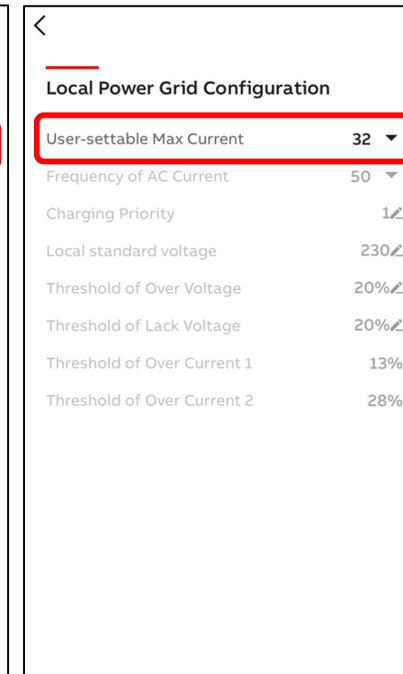
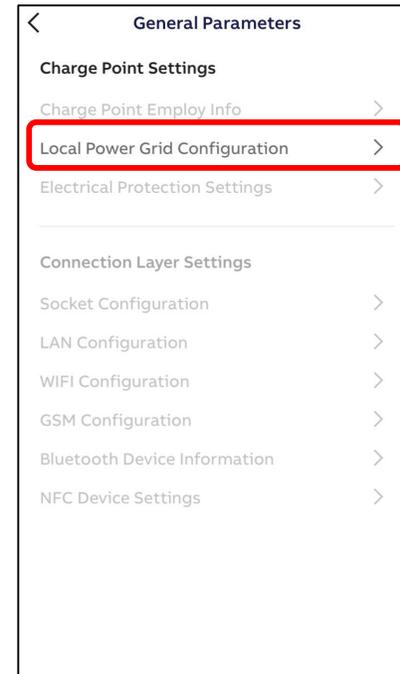
How to configure User Settable Max Static Current Limit?



Use 'Settings' followed by 'Local Power Grid Configuration' **only** to configure the 'User-settable Max Static Current'. The Charger can be limited to 10/16/32A. Press 'Save' and red check mark (top corner right) to confirm.

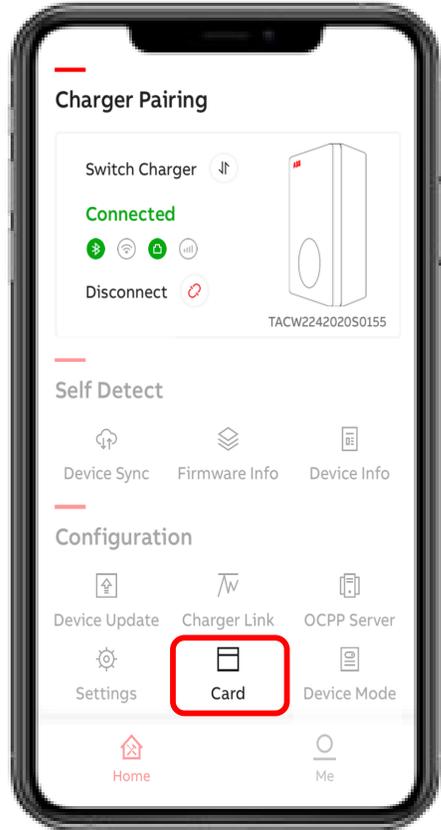
The max static limit is not accessible by ChargerSync App.

Please do not use other visible menu items as this will be improved in the next release.



Home screen

Card



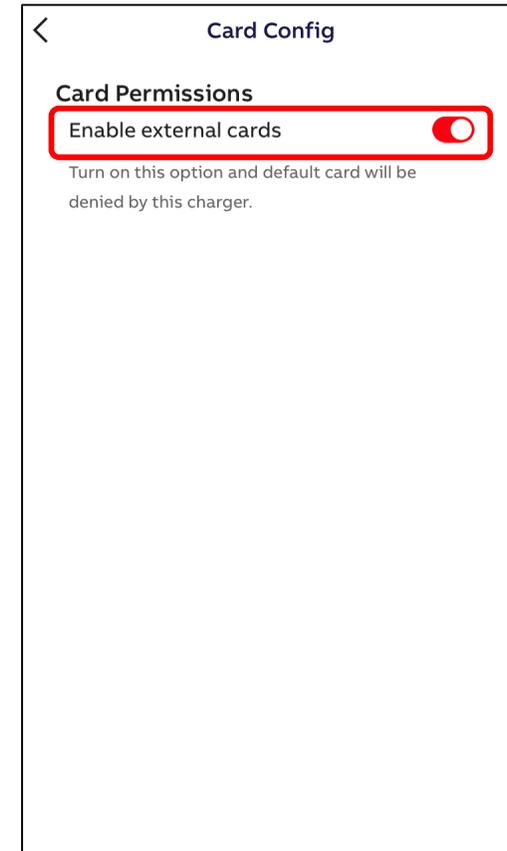
Use Card menu to 'Enable external 3rd party RFID cards.

Following cards are compatible:

SO 14443 type A and type B, UID 4 bytes.

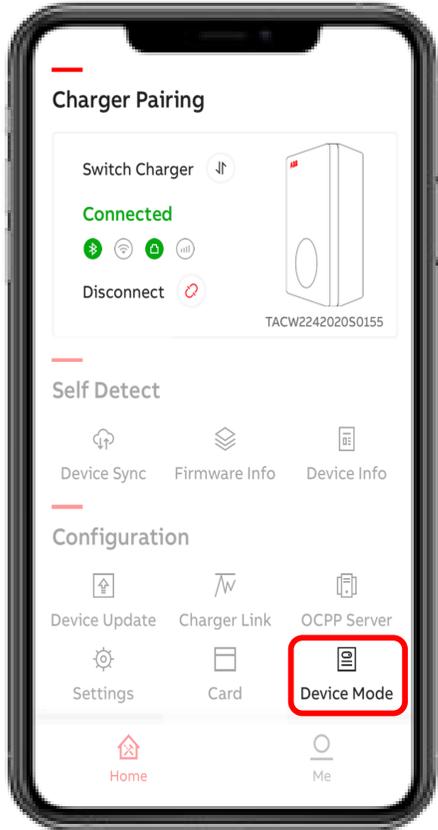
The UID 7 bytes will be available in the next release.

if the RFID type is unknown an additional 'NFC' tool can be used. Preferred from google play store as most of the NFC tools from App store do not work.



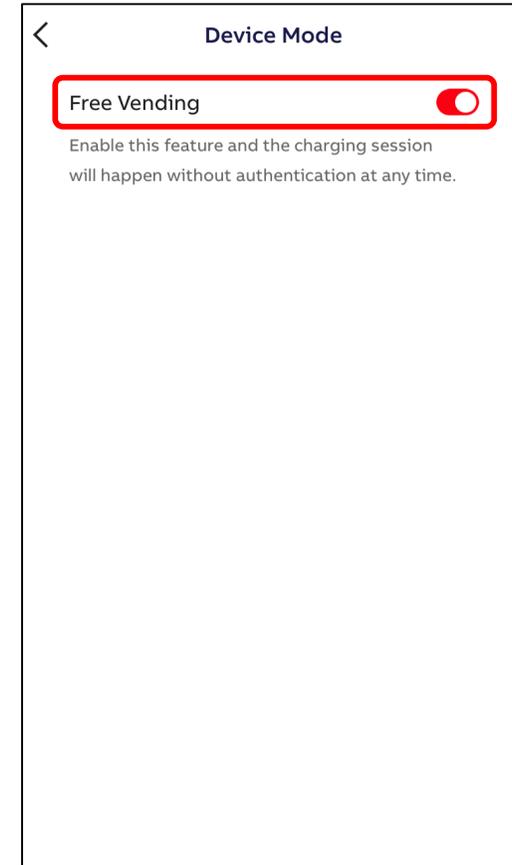
Home screen

Device Mode



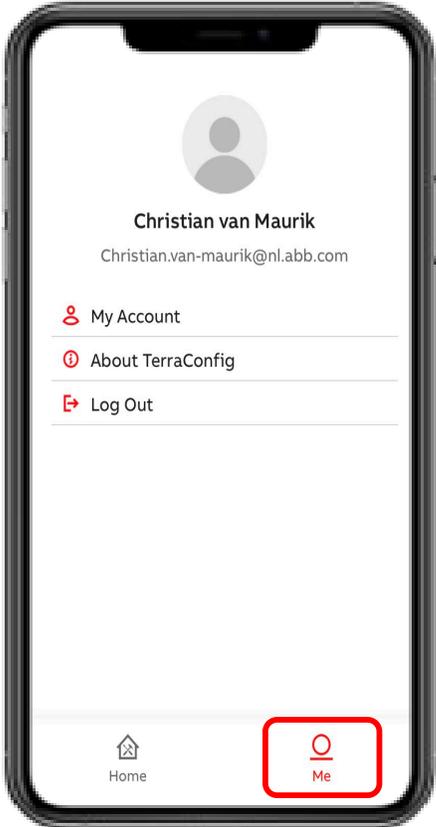
With Device mode the Terra AC Wallbox can be enabled for free vending mode.

- **no authentication** (RFID authorization/ChargerSync App is not needed)



Me

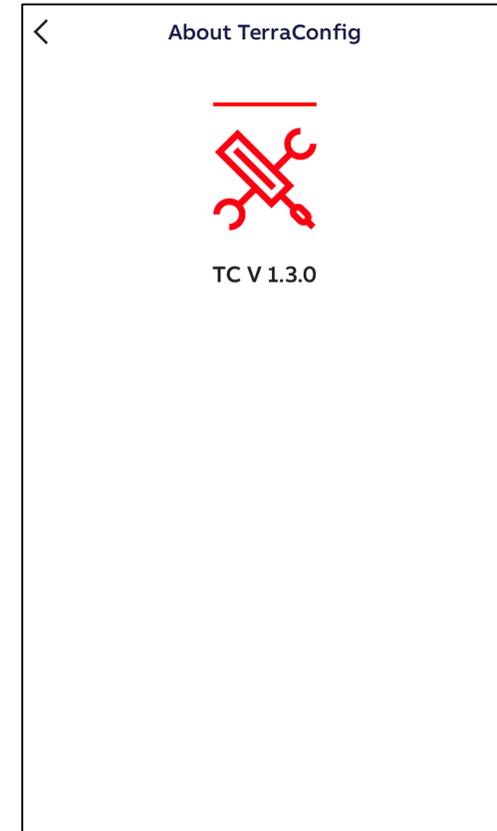
My Account and About TerraConfig



In Me section the TerraConfig account can be managed.

- in 'My Account' it's possible to edit username and change password of TerraConfig app account.

- in 'About TerraConfig' TerraConfig App version can be found



ABB