## **1** USER MANUAL OF CLOUD GUI

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## 3 TERMINOLOGY

| Term or<br>acronym            | Explanation   |
|-------------------------------|---|
| Admin<br>operator             | Operator that has all permissions to operate the system. See <u>Operator</u> permissions and limitations for more info.   |
| Base group                    | Operators 'root group' in tree-like group structure. The operator can see all groups and charging stations under that group.  |
| Basic operator                | Operator that has limited permissions to operate the system. See <u>Operator</u><br>permissions and limitations for more info.  |
| Charging user                 | End user of the charging station. Person, who charges his/her EV at the charging station.   |
| CSV                           | Comma Separated Value format. A (text based) data file that uses comma as a data column separator. CSV files can be opened and modified with all commonly used spreadsheet applications.  |
| Free charging                 | Anonymous charging. Charging station does not require chargers to be identified.  |
| Operator                      | Charger management system operator.   |
| Operator<br>domain            | Operators 'horizon' over the organization. Operator domain can be equal to<br>organization (domain), which means that the operator can see all charging<br>groups and charging stations in the organization. Operator domain can also<br>be only a part of the organization domain. Meaning, the operator can only<br>see that part of the organization. Operator domain is defined by setting a<br>'base group' (a group in the organization's tree-like group structure) for the<br>operator. Operator can then see everything (charging groups and charging<br>stations) under that particular group. Operator domains can be overlapping,<br>which means that operator who has base group higher in the group structure<br>can see and control all base groups that derive from his base group. |
| Organization                  | Environment containing varying number or charging groups and charging stations. Operators cannot see charging groups or charging stations which reside in some other organization than their own.   |
| Orphan<br>charging<br>station | A charging station that is not associated with any charging group.  |
| RFID token                    | Usually, a small physical token, which is used to identify charging station<br>user. Tokens come in various sizes and shapes. Token communicates with the<br>charging station wirelessly.   |

## 4 OPERATOR PERMISSIONS AND LIMITATIONS

The system has two kinds of operators:

### 4.1 Admin operator

Admin operator has all permissions and no limitations.

#### 4.2 Basic operator

Basic operator has limited permissions to operate the system. Basic operator cannot:

- Manage other operators (except himself).
- Add or remove charging stations.
- Remove users.
- Delete authorization tokens from charging users.
- Perform firmware updates to charging stations.

## LOG IN

| EV        | Cloud Administ | ration Pane |
|-----------|----------------|-------------|
| Username: |                |             |
| Password: |                |             |
|           | LOG IN         | >           |

Enter your username and password and then press *LOG IN*. If you have lost or forgot your password, press *LOST YOUR PASSWORD*.

| EV Cloud Administration Panel<br>Forgotten your password? Enter you email address<br>below, and we'll email instructions for setting a new<br>one.<br>Email address: |
|--|
| Forgotten your password? Enter you email address<br>below, and we'll email instructions for setting a new<br>one.<br>Email address:                                  |
|  |

Enter your email address and press *RESET MY PASSWORD*. Shortly you should receive an email which contains instructions on resetting your password.

#### DASHBOARD

Dashboard gives you an overall status view on charging points of your selection.



Top row functionalities:

Operator functions

Links to different pages:

- Dashboard
- <u>Charging groups</u>
- <u>Charging stations</u>
- Map view
- Operators
- <u>Charging users</u>
- Log out

4.3 Operator functions



Operator functions contains operator related settings.



*My account* takes you to a view in which you can change your information.

Log out logs you out from the system.

#### 5 DASHBOARD SECTIONS

Dashboard is divided into four sections.

- 1. Charging groups view and selection
- 2. <u>Status summary</u>
- 3. <u>Cumulatives over last 24 hours</u>
- 4. <u>Consumption over selected timeframe</u>

## 5.1 Charging groups view and selection

Charging group view shows you the logical grouping of charging stations.

| Charging groups           | 5                         |                           |                 | ٥ |
|---------------------------|---------------------------|---------------------------|-----------------|---|
| Charging stations: 6      | Charging points:          | 6 <b>f</b> Charging       | ; 3 🚺 Issues: 0 | 1 |
| <b>3</b> ACME Shopping Ma | lls                       |                           |                 |   |
| NO STATIONS               |                           |                           |                 |   |
| <b>**</b> ACME Pine Mall  | <b>**</b> ACME Birch Mall | <b>**</b> ACME Maple Mall |                 |   |
| + + +                     | 5 5 🛨                     | + 1                       |                 |   |
|                           |                           |                           |                 |   |
|                           |                           |                           |                 |   |

By clicking the gearwheel image you can select which charging point groups you want to display.

| f Charging: 3 | <ul> <li>SELECT GROUPS TO DISPLAY</li> <li>ACME Shopping Malls</li> <li>ACME Pine Mall</li> <li>ACME Birch Mall</li> <li>ACME Maple Mall</li> </ul> | ٥ |
|---------------|---|---|
|               |   |   |

Some overall status information is displayed on top of the charging groups view.

| Charging stations: 6 Charging points: 6 | f Charging: 3 | ▲ Issues: 0 |
|---|---------------|-------------|
|---|---------------|-------------|

This current information shows that selected groups contain in total:

- 6 charging stations (physical devices).
- 6 charging points (one charging station can contain multiple charging points).
- 3 charging points that are currently charging.
- 0 charging points which are in some kind of error condition.

#### 5.1.1 Meaning of charging group symbols

# **CACME Shopping Malls**

The name of this charging group is *ACME Shopping Malls*. All charging stations enclosed by the thin rectangle belong to this group. Charging group can also contains other charging groups.



Charging station (the horizontal line below squares). This is a physical device which can contain multiple charging points (squares). This particular charging station contains 3 charging points.

| ۶        | +         |             | A              | $\odot$   | +          | Ì        |
|----------|-----------|-------------|----------------|-----------|------------|----------|
| Charging | Available | Unavailable | Issue detected | Suspended | Edit group | Disabled |

Charging point information icons.

## 5.2 Status summary



The donut diagram shows a status summary of charging points in operators domain.

#### 5.3 Cumulatives of last 24 hours

Cumulatives are calculated over charging points in operators domain. Cumulatives show:

- The number of charging events.
- The number of used charging points.
- Total amount of energy charged.



## 5.4 Consumption over selected timeframe

Timeframe can be selected from the gear icon at the right edge of the page.



Consumption (kWh's) over charging events count shows the amount of electricity charged and number of charging sessions as a diagram over selected time frame. Diagram shows the data over entire environment regardless of selected groups.



## 6 CHARGING GROUPS

| Dashboard         | Home / Charging groups       |                   |                  |
|-------------------|------------------------------|-------------------|------------------|
| Charging groups   | Charging groups              | ADO NEW           | CHARGING GROUP + |
| Charging stations | Q Search for charging groups |                   |                  |
| L Operators       |                              |                   |                  |
| 4 Charging users  | Charging group name          | Charging stations | Actions          |
|                   | ACME Shopping Malls          | 6                 | 20               |
| C Reports         | ACME Pine Mall               | 2                 | C 0              |
|                   | ACME Birch Mall              | 2                 | C 0              |
| 🖒 Log out         | ACME Maple Mall              | 2                 | 20               |
|                   | ing I v remotive the         | ADD NTW           | CHARGING GROUP + |

*Charging groups* views allows you to manage charging groups. On charging group list view, you can:

- Jump to <u>charging group statistics view</u> (click group name or info button at the end of line).
- Edit charging group (click the edit button).
- Add new charging group.

#### 6.1 Charging group statistics view



On this view you can see the statistics information of this charging group, very similar than on dashboard. From this view you can jump to <u>edit charging point group</u> view.

## 6.2 Edit charging group

| Home / Overging groups / 150 / Edit charging group                      |                      |
|---|----------------------|
| 0 Edit charging group   | CANCEL SAVE CHANGES  |
| NAME  |                      |
| ACME Pine Mail  |                      |
| PARENT GROUP  |                      |
| ACME Shopping Mails   |                      |
|   |                      |
| Charging stations   |                      |
| ADD CHARGING STATION TO THIS GROUP                                      |                      |
| Search for charging stations 🗸  |                      |
| Evidococi 13 X Evidococi 14 X<br>Charging politics 1 Danging politics 1 |                      |
| Delete this group   |                      |
|   |                      |
| VELEXE THIS UKUUP   |                      |
|   |                      |
|   | CANCEL ENG CHANGES B |
|   | CANCEL SAVE CHANGES  |

On this view you can:

- Change charging group name.
- Change charging group parent. Effectively that means that you move this group under some other group.
- Add charging stations to this group.
- Remove charging stations from this group.
- Delete this group. Note! Group to be deleted must be empty, that is, it cannot contain charging stations or subgroups. Should this group have any subgroups, they must be moved under some other group.
- 6.3 Add new charging group

| Homa / Charging groups / Add new charging group |                       |
|---|-----------------------|
| Add new charging group                          | CANCEL SAVE CHANGES + |
|   |                       |
| NAMT  |                       |
| PARENT GROUP                                    |                       |
| Select charging group 🗸                         |                       |
| Charging stations                               |                       |
| ADD CHARGING STATION TO THES GROUP              |                       |
| Search for charging stations 👻                  |                       |
|   |                       |
|   |                       |
|   | CANCEL SAVE CHANGES + |
|   |                       |

When adding a new charging group, the only mandatory information is its name. If you do not select *PARENT GROUP*, this group will be placed right under your base group.

## 7 CHARGING STATIONS

| Dashboard         | Home / Charging stations      |   |                                  |                |                 |            |                            |
|-------------------|-------------------------------|---|----------------------------------|----------------|-----------------|------------|----------------------------|
| Charging groups   | Charging stations +           |   |                                  |                |                 |            |                            |
| Charging stations | Select charging group V Q. Se | Called Abusiles among and O Casesh for Abusiles relations |                                  |                |                 |            |                            |
| Operators         |                               |   |                                  |                |                 |            |                            |
| A Charaton users  | Charging station name 🗘       | Identifier 🗘  | Cha                              | arging group 🗘 | Charging points | Firmware 🗘 | Actions                    |
|                   | EV100000013                   | EVI00000013   | ACI                              | ME Pine Mall   | 1               | A999       | 🗹 🛈                        |
| G Reports         | EV100000014                   | EVI00000014   | ACI                              | ME Pine Mall   | 1               | A999       | C 0                        |
|                   | EV100000015                   | EVI00000015   | ACI                              | ME Birch Mall  | 1               | A999       | 20                         |
| 🖕 Log out         | EV100000016                   | EVI00000016   | ACI                              | ME Birch Mail  | 1               | A999       | 20                         |
|                   | EV100000017                   | EVI00000017   | ACI                              | ME Maple Mall  | 1               | A999       | ☑ ①                        |
|                   | EV100000018                   | EVI00000018   | ACI                              | ME Maple Mail  | 1               | A999       | 区 (1)                      |
|                   |                               |   |                                  |                |                 |            |                            |
|                   | SHOW B 🛩 ELEMENTS PER PAGE    |   | <ul> <li>4</li> <li>4</li> </ul> |                |                 |            | ADD NEW CHARGING STATION + |
|                   |                               |   |                                  |                |                 |            |                            |

Charging stations view allows you to manage charging stations. On charging stations list view, you can:

- Add new charging station.
- <u>Edit charging station</u> settings (click the edit button).
- <u>Issue remote commands to charging station</u> (click the info button).

#### 7.1 Add new charging station

| Home / Charging stations / Add charging station |        |              |   |
|---|--------|--------------|---|
| Add new charging station                        | CANCEL | SAVE CHANGES | • |
|   |        |              |   |
| General information                             |        |              |   |
| CHARGING STATION NAME                           |        |              |   |
| Pine Mall entry                                 |        |              |   |
| IDENTIFIER                                      |        |              |   |
| acme-st43211                                    |        |              |   |
| PARENT GROUP                                    |        |              |   |
| Select charging group                           |        |              |   |
|   |        |              |   |
|   |        |              |   |
|   |        |              |   |
|   | CANCEL | SAVE CHANGES |   |
|   |        |              |   |
|   |        |              |   |
|   |        |              |   |

Information to be entered:

- CHARGING STATION NAME : This is a free form name of the station.
- *IDENTIFIER* : This must be the same that is configured to the physical charging station. This information links this station to the physical device.
- PARENT GROUP : The group this station belongs to.

## 7.2 Edit charging station

| e / Charging stations / EV100000013 / | Edit charging station |   |  |   |        |              |   |
|---------------------------------------|-----------------------|---|--|---|--------|--------------|---|
| it charging station                   |                       |   |  |   | CANCEL | SAVE CHANGES | 9 |
|                                       |                       |   |  |   |        |              |   |
| Basic settings                        | Advanced settings     |   |  |   |        |              |   |
| General information                   |                       |   |  |   |        |              |   |
| CHARGING STATION NAME                 |                       |   |  |   |        |              |   |
| Pine Mall entry                       |                       |   |  |   |        |              |   |
| PARENT GROUP                          |                       |   |  |   |        |              |   |
| ACME Pine Mall                        |                       | ~ |  |   |        |              |   |
|                                       |                       |   |  |   |        |              |   |
| Delete this station                   |                       |   |  |   |        |              |   |
| Delete this station                   |                       |   |  |   |        |              |   |
| DELETE CHARGING STATION               |                       |   |  |   |        |              |   |
|                                       |                       |   |  |   |        |              |   |
|                                       |                       |   |  |   |        |              |   |
|                                       |                       |   |  | _ |        |              |   |
|                                       |                       |   |  |   | CANCEL | SAVE CHANGES |   |
|                                       |                       |   |  |   |        |              |   |
|                                       |                       |   |  |   |        |              |   |

On this view you can:

- Change charging station name.
- Change charging station (parent) group.
- Delete this charging station. If you delete this station, it becomes an *orphan charging station*.
- Edit charging station advanced settings (available only for admin operators). For advanced settings, see <u>charging-station-advanced-settings</u>.

#### 7.3 Charging station advanced settings

| Basic settings Advanced settings                |                         |
|---|-------------------------|
| $\mathbb{Q}_{k}$ . Search for advanced settings |                         |
| cr  | REFRESH CONFIGURATION Ø |
| WEDCHECK,2<br>0                                 |                         |
| dlmphaseslimit<br>16                            |                         |
| STOPTRANSACTIONMODEUNPLUG<br>0                  |                         |
| ENERGYMANINPUTPOWERCUREENTLIM_2<br>16           |                         |
| APRUSERNAME<br>D                                |                         |

On this view you can edit charging station advanced settings. Before you edit settings, you should *REFRESH CONFIGURATION*. This gets the current settings from the charging station.

Notes:

• Grayed settings are *read-only* settings. Their values cannot be changed.

- Invalid settings may cause charging station to malfunction. Basically, you must know what you are doing.
- Most of the configuration keys are vendor specific.

### 7.4 Issue remote commands to charging station

| EVI00000013     Exatence excup. ACME Print Mail | ENABLIER FETETE<br>T<br>LAUF 24 INDUSE   |
|---|--|
| Charging points                                 |  |
| EVI00000013 Status: Charging                    | •  |
| 1) Type-2(Socket #1)<br>ジ 22 W max, power       | Schules (Secker 82)         #1.64.07 (Secker 8.84.07)           β         22 XW max, power         #1.04.07 (Secker 8.84.07) |
|   |  |
|   |  |
|   |  |
|   |  |
|   | Clear cache  |
|   |  |
|   | Soft reset   |
|   | Soft reset<br>Hard reset   |
|   | Soft reset<br>Hard reset<br>Set available  |
|   | Soft reset<br>Hard reset<br>Set available<br>Set unavailable   |
|   | Soft reset<br>Hard reset<br>Set available<br>Set unavailable<br>Refresh configuration  |
|   | Soft reset<br>Hard reset<br>Set available<br>Set unavailable<br>Refresh configuration<br>Firmware update                     |

On this view you can:

- Jump to <u>Edit charging station</u> settings
- *RELEASE CABLE*, this releases charging cable from the charging station.
- STOP CHARGING, or alternatively START CHARGING depending on charging station Status.
- Send remote commands to the charging station. Commands can be found by clicking the small gearwheel image at *Charging points* box:

- *Clear cache* : clears charging station RFID cache.
- *Soft reset* : restarts charging station application.
- *Hard reset* : restarts the whole charging station.
- Set available : sets charging station available for charging (enable).
- *Set unavailable* : sets charging station unavailable for charging (disable).
- Refresh configuration : Fetches the latest configuration settings from the charging station. This command can also be issue from <u>charging station settings</u> <u>view</u>.
- *Firmware update* : Updates charging station firmware. You must know where update server resides (IP address / DNS name). Also, you must have credentials to the server.
- *Get diagnostics* : Fetches diagnostics from charging station. The same applies here than what applies to *Firmware update*.

## 8 OPERATORS

| Dashboard                          | Home / Operators            |                                     |                                |        |                       |  |
|------------------------------------|-----------------------------|-------------------------------------|--------------------------------|--------|-----------------------|--|
| Charging groups                    | Operators                   |                                     |                                |        | INVITE NEW OPERATOR + |  |
| Charging stations                  | Select status v Q. Search   | Cabert state v D Coverb for sources |                                |        |                       |  |
| L Operators                        |                             |                                     |                                |        |                       |  |
| A characteristic                   | Username 🗘                  | Name 🗘                              | E-mail address                 | Status | Actions               |  |
| <ul> <li>Charging users</li> </ul> | mamercus                    | mamercus Mamercus Mamercinus        | mamercus@acmeshoppingmails.com | Active | <b>C</b> &            |  |
| C Reports                          | manius                      | manius Manius Maximus               | manius@acmeshoppingmails.com   | Active | <b>C</b> &            |  |
| ල් Log out                         | show 10 v elements per page |                                     | <b>x 1</b>                     |        | INVITE NEW OPERATOR + |  |

On this view you can:

- Browse and search for operators.
- Edit operator information (click the edit button).
- Invite new operator.
- Resend invitation e-mail to operator (click the send button).

Note! This view is available only for admin operators.

#### 8.1 Edit operator information

| Dashboard         | Home / Operators / 3 / Edit operator |   |                     |
|-------------------|--------------------------------------|---|---------------------|
| Charging groups   | Edit operator                        |   | CANCEL SAVE CHANGES |
| Charging stations |                                      |   |                     |
| Operators         | General information                  |   |                     |
| & Charging users  | mamercus                             | mamercus@acmeshoppingmalls.com                                  |                     |
| C Reports         | STATUS                               |   |                     |
|                   | Active ~                             | SEND REMINDER   |                     |
| C Log out         | PASSWORD<br>RESET PASSWORD           |   |                     |
|                   | Personal information                 | Permissions   |                     |
|                   | FIRST NAME                           | Admin operator     All permissions                              |                     |
|                   | mamercus                             | <ul> <li>Basic operator</li> <li>Limited permissions</li> </ul> |                     |
|                   | LAST NAME<br>Mamericus Mamericus     |   |                     |
|                   | Head that you international          |   |                     |
|                   | Delete this operator                 |   |                     |
|                   | DELETE THIS OPERATOR                 |   |                     |

On this view you can:

- Edit operator information.
- Set operator status to *Active* or *Inactive*. Inactive operators exist in the system but they cannot log in.
- Send a reminder e-mail to operator. Reminder can be sent only if the operator has not activated his account yet.
- Send an e-mail to operator to reset his password.
- Set operator permission level.
- Delete operator.

## 8.2 Invite new operator

| Dashboard         | Home / Operators / Invite new operator                                    |                        |
|-------------------|---|------------------------|
| Charging groups   | Invite new operator   | CANCEL SEND INVITATION |
| Charging stations |   |                        |
| L Operators       | E-MAIL ADDRESS  |                        |
| & Charging users  | CONTIAM E-MAIL ADDRESS  |                        |
| C Reports         |   |                        |
|                   | USERNAME  |                        |
| 🖞 Log out         |   |                        |
|                   | FIRST NAME  |                        |
|                   | LATT NAME   |                        |
|                   |   |                        |
|                   |   |                        |
|                   | Permissions   |                        |
|                   | System administrator     Superadmin with all possible permissions granted |                        |
|                   | Charging point operator     menu-apers                                    |                        |
|                   |   |                        |
|                   |   |                        |
|                   |   | CANCEL SEND INVITATION |

On this view you enter the new operator information and send an invitation e-mail to the operator.

## 9 CHARGING USERS

| Dashboard         | Home / Charging users                                  |                      |            |                         |
|-------------------|--|----------------------|------------|-------------------------|
| Charging groups   | Charging users   |                      |            | ADD NEW CHARGING USER + |
| Charging stations | Q. Search for charging usies by Name or E-mail address |                      |            |                         |
| Operators         |  |                      |            |                         |
| A Charoline users | Name ©   | E-mail address       | Tokens Qty | Actiona                 |
| . crarging and    | Scrooge McDuck   | strooge@duckburg.com | 1          | C                       |
| Reports           | Denald Duck  | dduck@duckburg.com   | Q          | ď                       |
|                   | Gosalyn Mafard   | gösalyn@duckburg.com | 0          | Ľ                       |
| Log out           | Drake Mallard  | drake@duckburg.com   | 0          | Ľ                       |
|                   | Fintheart Glompold                                     | flint@duckburg.com   | 0          | Ľ                       |
|                   |  |                      |            | -                       |
|                   | SHOW B 🛩 ELEMENTS FOR FAGE                             |                      |            | ADD NEW CHARGING USER + |

On this view you can:

- Browse and search for charging users.
- <u>Edit charging user information</u> (click the edit button).
- Add new charging user.

#### 9.1 Edit charging user

| Dashboard         | Home / Charging users / 1080 / Edit charging user |                                     |                     |
|-------------------|---|-------------------------------------|---------------------|
| Charging groups   | Edit charging user                                |                                     | CANCEL SAVE CHANGES |
| Charging stations |   |                                     |                     |
| L Operators       | User information                                  |                                     |                     |
| & Charging users  | FIRST NAME<br>Scrooge                             | AST NAME<br>McDuck                  |                     |
| C Reports         | E-MAIL ADDRESS                                    |                                     |                     |
|                   | scrooge@duckburg.com                              |                                     |                     |
| C Log out         |   |                                     |                     |
|                   | Access rights                                     |                                     |                     |
|                   | SELECT DEVICES                                    |                                     |                     |
|                   | Charging groups 👻                                 | Charging stations                   | ×                   |
|                   |   |                                     |                     |
|                   | Authentication tokens: 1                          |                                     |                     |
|                   |   |                                     |                     |
|                   | Token #1  |                                     |                     |
|                   | TOKEN (RFID)                                      | TOKEN NAME ST.                      | ATUS:               |
|                   | 14343470  | Avoiges nome charger                | e                   |
|                   | TOKEN VALID FROM: TOKEN VALID TO:                 | TOKEN VALID INFINITELY DELETE TOKEN |                     |
|                   | Service Later                                     |                                     |                     |
|                   | ADD NEW TOKEN +                                   |                                     |                     |

In this view you can edit charging user information. Basically it is the same as <u>add new charging</u> <u>user</u>, except that you cannot modify e-mail address and RFID token ID's.

## 9.2 Add new charging user

| a Dashboard       | Home / Charging users / Add charging a | iser            |                                    |     |                     |
|-------------------|--|-----------------|------------------------------------|-----|---------------------|
| Charging groups   | Add new charging us                    | er              |                                    |     | CANCEL SAVE CHANGES |
| Charging stations | User information                       |                 |                                    |     |                     |
| Operators         | FIRST NAME                             |                 | LAST NAME                          |     |                     |
| Charging users    |  |                 |                                    |     |                     |
| C Reports         | E-MAIL ADDRESS                         |                 |                                    |     |                     |
|                   |  |                 |                                    |     |                     |
| 🖞 Log out         |  |                 |                                    |     |                     |
|                   | Access rights                          |                 |                                    |     |                     |
|                   | SELECT DEVICES                         |                 |                                    |     |                     |
|                   |  |                 |                                    |     | -                   |
|                   | Authentication toker                   | ns: 1           |                                    |     |                     |
|                   | Token #1                               |                 |                                    |     |                     |
|                   | TOKEN (RFID)                           |                 | TOKEN NAME                         | \$1 | ATUS:               |
|                   |  |                 |                                    | in  | active              |
|                   | TOKEN VALID FROM:                      | TOKEN VALID TO: |                                    | _   |                     |
|                   | Select date                            | 🛗 Select date   | TOKEN VALID INFINITELY DELETE TOKE | N   |                     |
|                   | ADD NEW TOKEN +                        |                 |                                    |     |                     |
|                   |  |                 |                                    |     |                     |
|                   |  |                 |                                    |     |                     |
|                   |  |                 |                                    |     | CANCEL SAVE CHANGES |
|                   |  |                 |                                    |     |                     |

On this view you can add new charging user information. Description of fields:

- Access rights : Charging stations that user is allowed to use.
  - *Charging groups* : User is allowed to use all charging stations that belong to selected groups.
  - Charging stations : User is allowed to use selected charging stations.
- *Authentication tokens* : RFID tokens, which are used to identify the user at the charging station. The number of tokens per user is unlimited.
  - *TOKEN (RFID)* : RFID token ID. A unique ID code that charging station reads from the token.
  - *TOKEN NAME* : A friendly name of the token (e.g. *Workplace token*).
  - TOKEN VALID FROM : The date from which the token will be valid (usable).
  - TOKEN VALID TO : The end date of token validity.
  - TOKEN VALID INFINITELY : Token has no validity end date.
  - *DELETE TOKEN* : Deletes the token. Note! This is not allowed for basic operator.

## 10 REPORTS



On this view you can generate screen or CSV reports of energy consumption statistics of selected charging points and tokens. Description of fields:

- *FROM* : Starting date of report.
- *TO* : Ending date of the report.
- *Select charging points* : Charging points to be included to the report. At least one charging point must be included.
- *Select tokens* : (Charging user) RFID tokens that will be included to the report. If no tokens are selected, all charging events are included, including free charging events.
- *EXPORT CSV* : Generates (and downloads to your browser) a CSV based report file.

## 11 LOG OUT

Log out from the system. When you log in, the session is valid for 2 hours, that is, after 2 hours you will have to log on again whether or not you have been active with the system.