WEB APPLICATION

USER MANUAL

INDEX

1. INTRODUCTION

This manual explains the usage methods and features of the B.SMART web application (hereinafter referred to as Web App or Web Application).

1.1. General information

The B.SMART Web App allows you to manage your system and related data, including device configurations, driver records, and registration numbers.

Through the Web App, you can apply configurations to the system that will be transmitted to the devices via the B.SMART smartphone App.

1.2. Add-ons

The Web App can be extended with additional features that can be unlocked by purchasing “add-ons”, including “Fuel Economy”, “Tank Watchdog”, “Maply” and “Rental” (*see chapter 14.3.3 and 14.4 for more information about add-ons*).

1.3. What's New

Compared to the previous version, the new version of B.SMART has introduced new features and improvements to the graphical interface and user experience.

Mobile-friendly

The B.SMART Web Application can now be used on devices of any screen size: desktop, tablet, smartphones. The interface adapts depending on the screen size.

Views in reporting

The reporting pages allow for user-customized views: filters that the user can apply and save with a name, recalling them whenever desired. *For more information, see chapter 10.1.*

Advanced filters

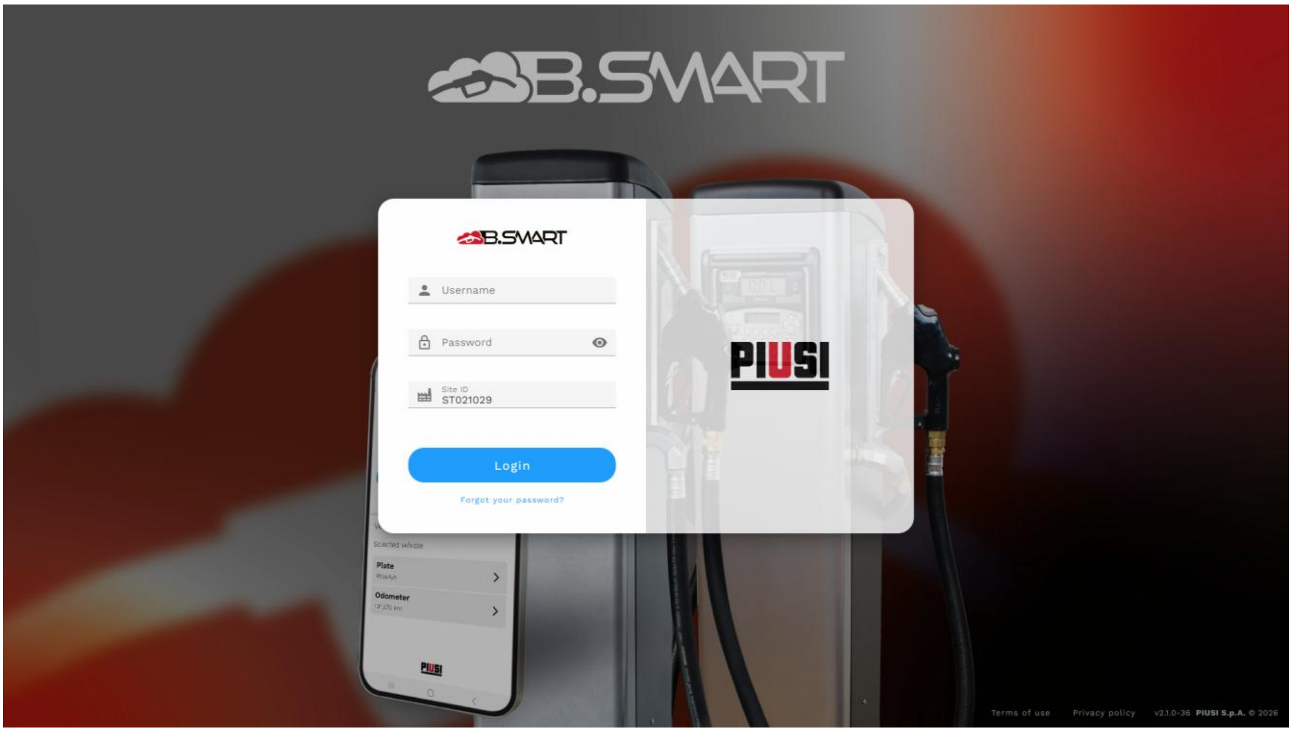
The data pages (drivers, vehicles, tanks, etc.) will be equipped with advanced filters, including sorting, grouping, and filters specific to the currently displayed data. *Refer to chapter 5.1 for more information.*

2. LOGIN

To access the Web App, you need to connect to the site https://bsmart.piusi.com and log in by entering in the fields on the right side of the login screen:

- **Username** (the same used for portal registration)
- **Password** (the same used for portal registration)
- **Site code** (received by email after portal registration)

and finally by pressing the Login button.

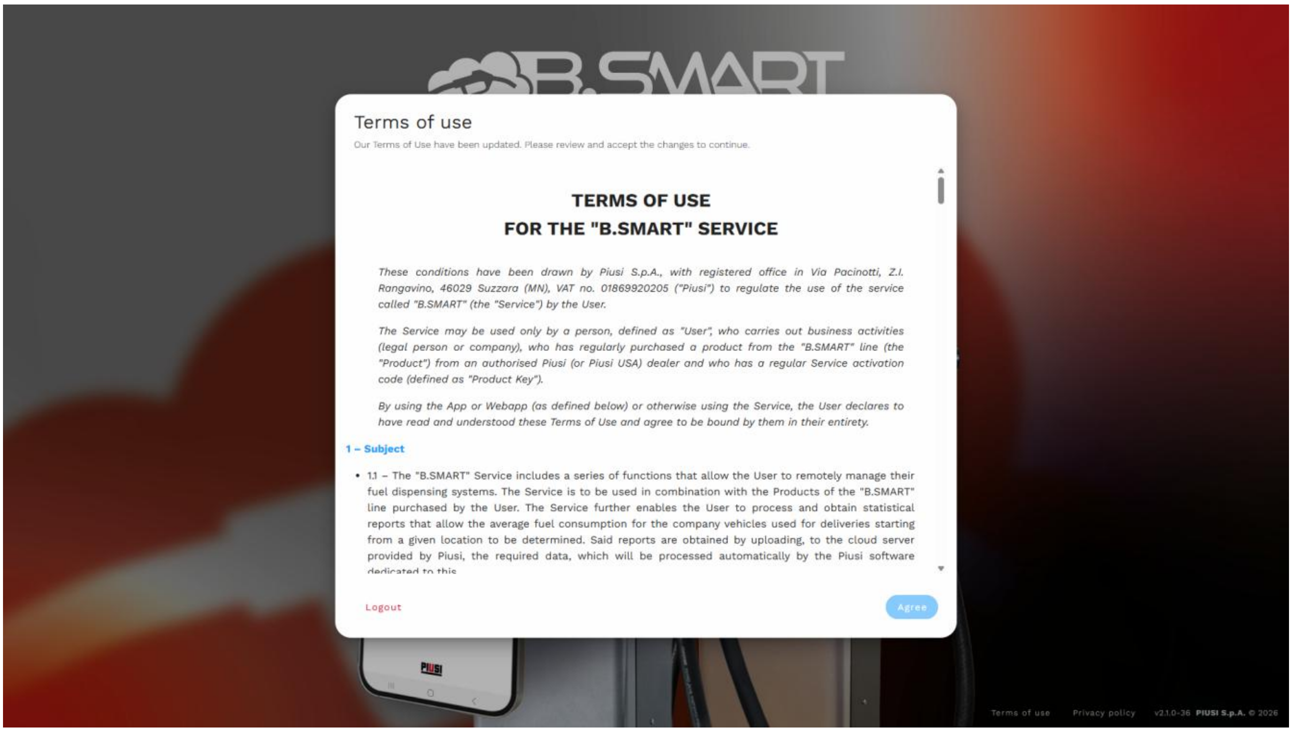


2.1. Preliminary operations

After logging in, it may be necessary to perform some preliminary operations, as described in the following paragraphs.

2.1.1. Acceptance of terms and conditions of use

The terms of use of the B.SMART system must be accepted at the user's first login.



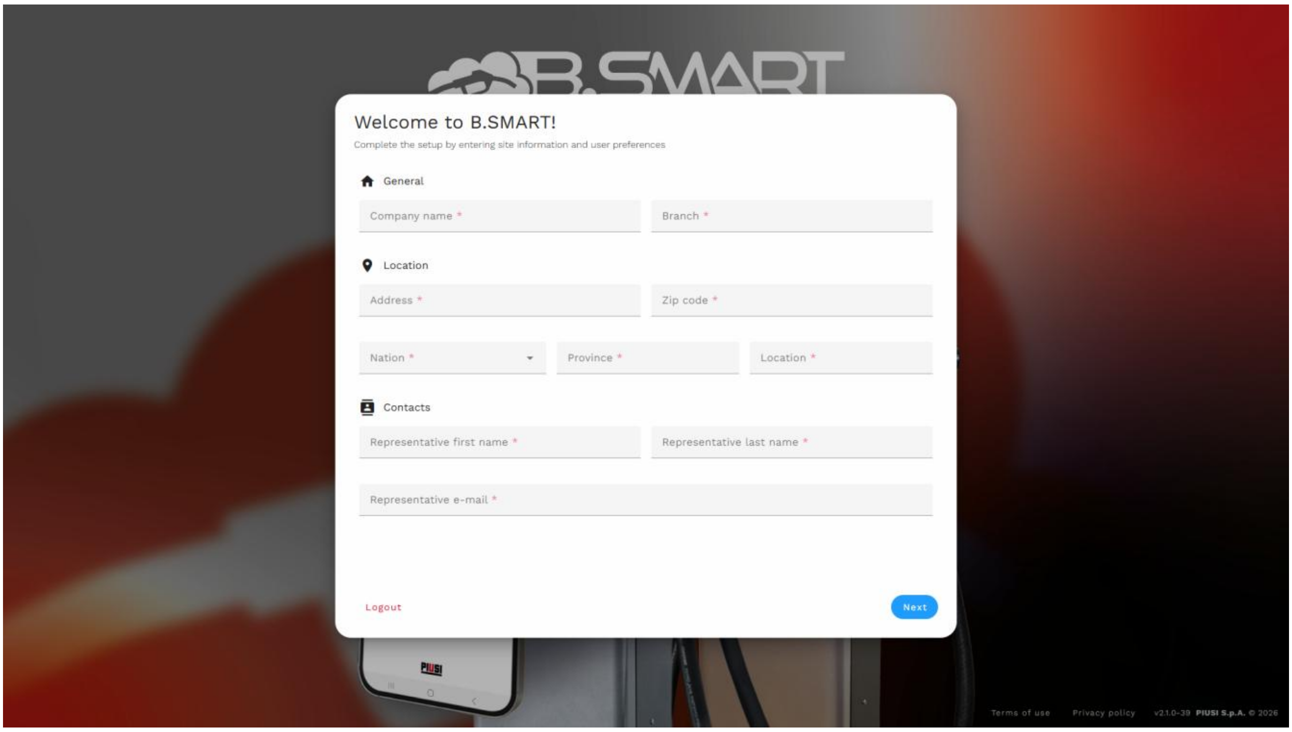
Furthermore, in the event that:

- The terms and conditions of use have never been accepted, or
- The terms and conditions of use have changed

A modal containing the updated terms will appear. You will need to read them before you can click the acceptance button at the bottom right.

2.1.2. Portal data configuration

This section will appear only at the first login to the B.SMART Web App for all and only users who have just registered the product on the PIUSI portal.

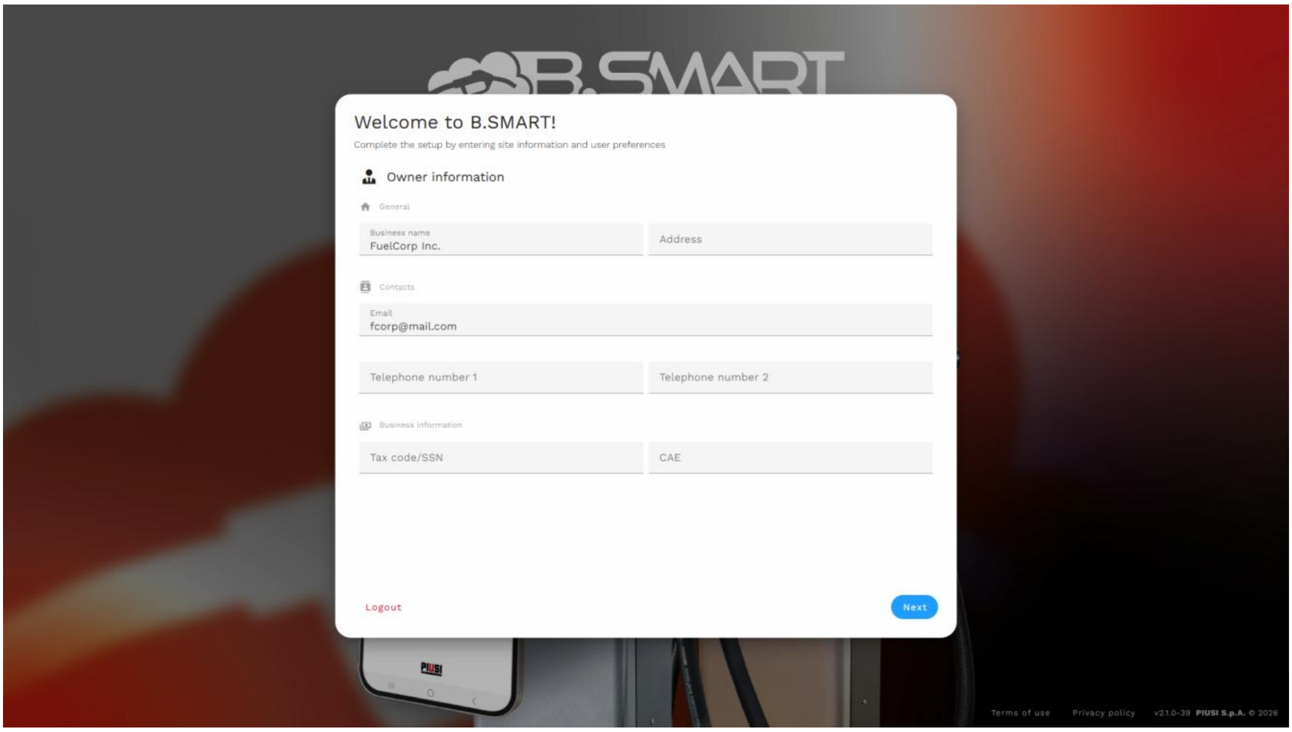


In this section, whose fields are mandatory, you must enter the company information and the representative's contact details.

Once all the information has been entered, press the “Next” button to proceed with the initial configuration.

2.1.3. System data configuration

The new version of B.SMART makes the fields “Owner company name” and “Owner email” mandatory.



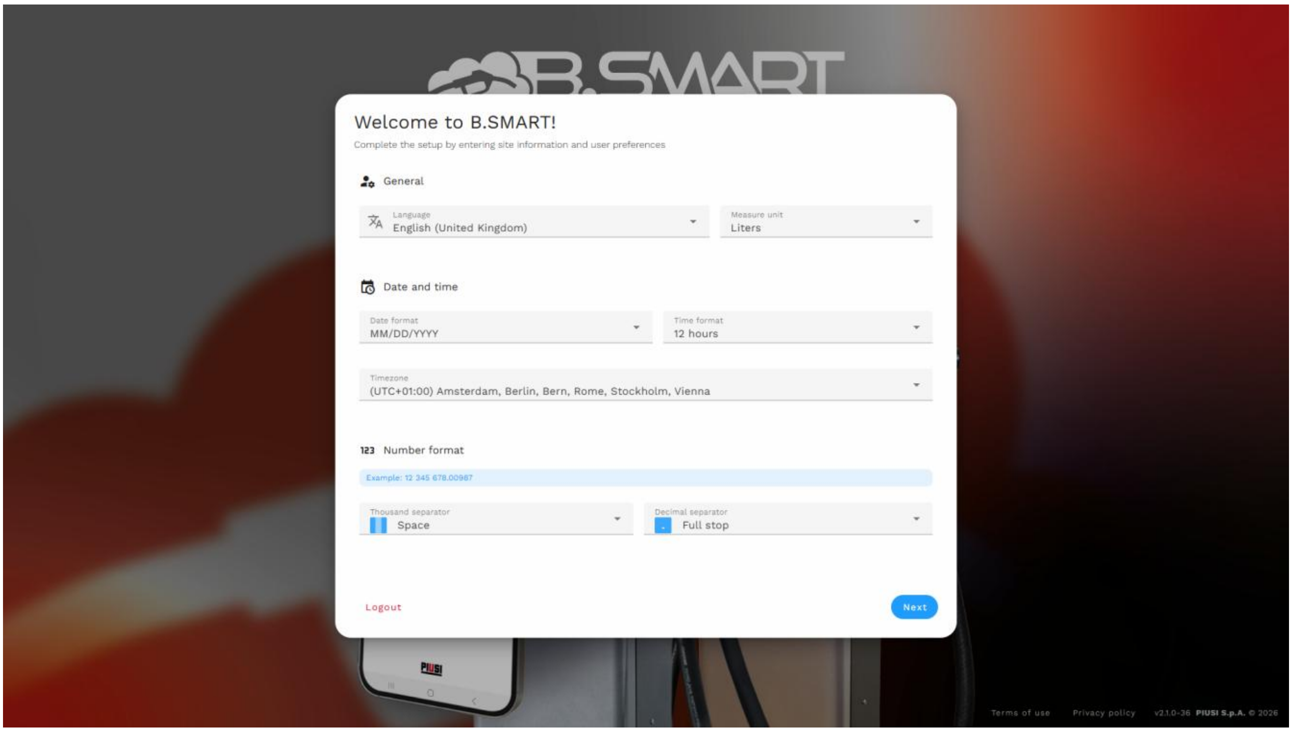
If even one of these two fields has not been set, a section appears where you must enter the missing mandatory values before proceeding.

Note

The values of the “Owner company name” and “Owner email” fields, entered during registration on the PIUSI portal, will be propagated and set automatically by the system. This screen will not appear to portal users who are logging in for the first time.

2.1.4. User preferences configuration

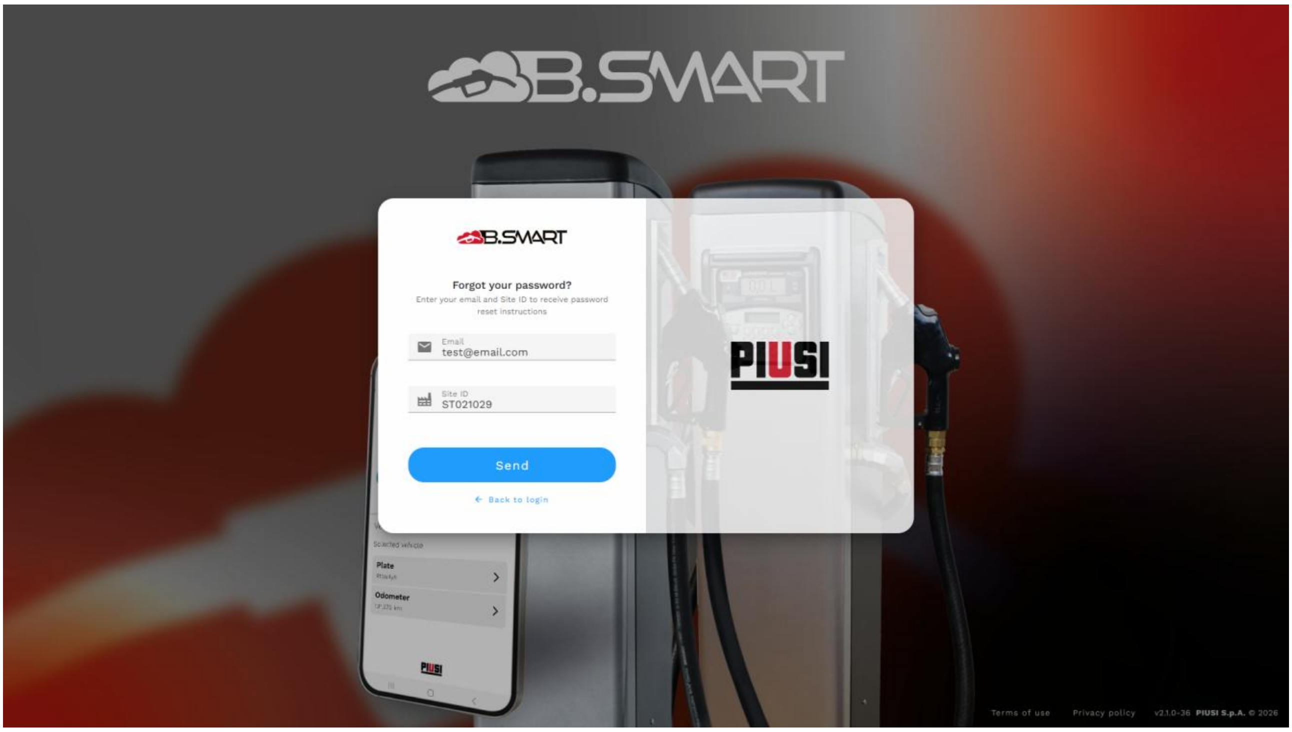
At the first login, this section for optional modification of user preferences will be shown.



These preferences are pre-filled by the system with default values. You can press the "Next" button without changing anything or, alternatively, modify the preferences as you wish and press next. This operation saves the data just set and allows you to proceed.

2.2. Password recovery

By pressing the Forgot your password? button below the Login button, you can start the password reset procedure.



It will be enough to enter your email, the site where you registered, and press the Send button to receive an email with the procedure to follow to reset your password.

3. MENU LAYOUT

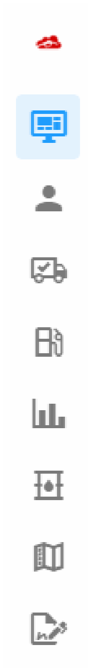
Once you have logged in, you can start using the actual Web App. Let's look at the menu layout.

3.1. Header

The application header contains:

- On the left, the name of the currently displayed page.
- In the center, the application logo which, when clicked, redirects to the home page (*Dashboard, see chapter 4*).
- On the right:
  - The notifications menu
  - the help menu (see chapter 15)
  - the settings (see chapter 14.2)
  - the user menu (see chapter 14.1)

3.2. Navigation bar



The navigation bar, shown alongside, allows you to navigate between the various pages. It can be displayed in two ways: compact or expanded.

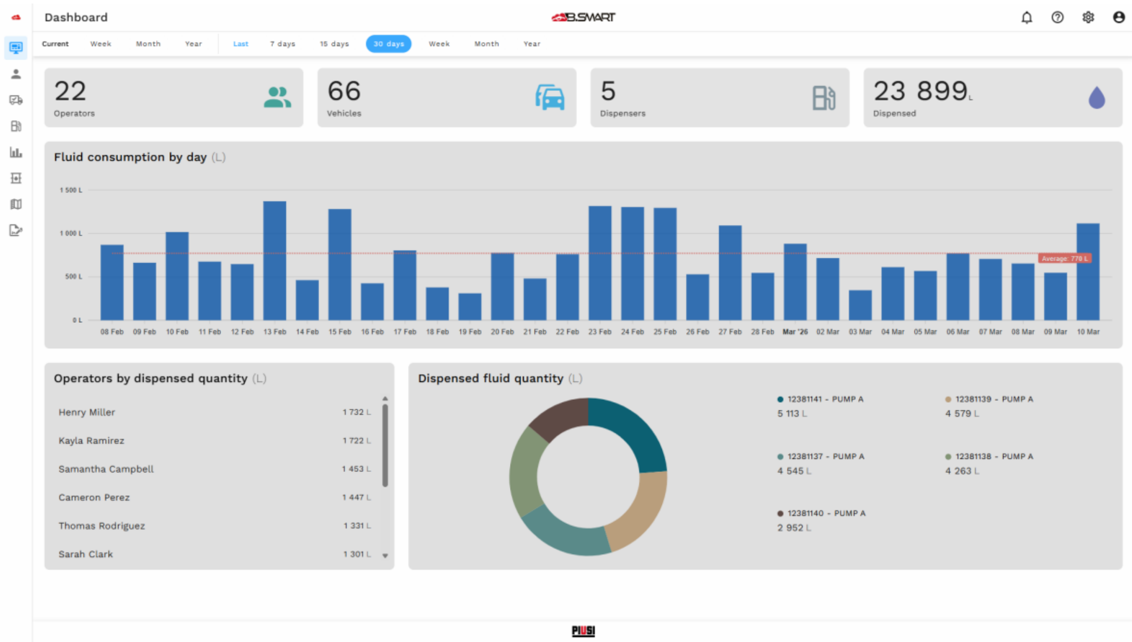
To switch between one view and the other, simply click the logo at the top:

Icon to expand the navigation bar

Icon to collapse the navigation bar

4. DASHBOARD

The first page you will be redirected to is the "Dashboard", which is an overview of the system's performance through "widgets" containing data and statistics.



Through the top bar, you can select the period for which to view the data:

- Current week, month, or year
- Last 7, 15, or 30 days, last week, last month, or last year

Note

The Dashboard time period setting will be saved locally and reset to its default value in these two cases:

- upon manual logout
- when clearing browser data

This data is **not** saved at the B.SMART user level.

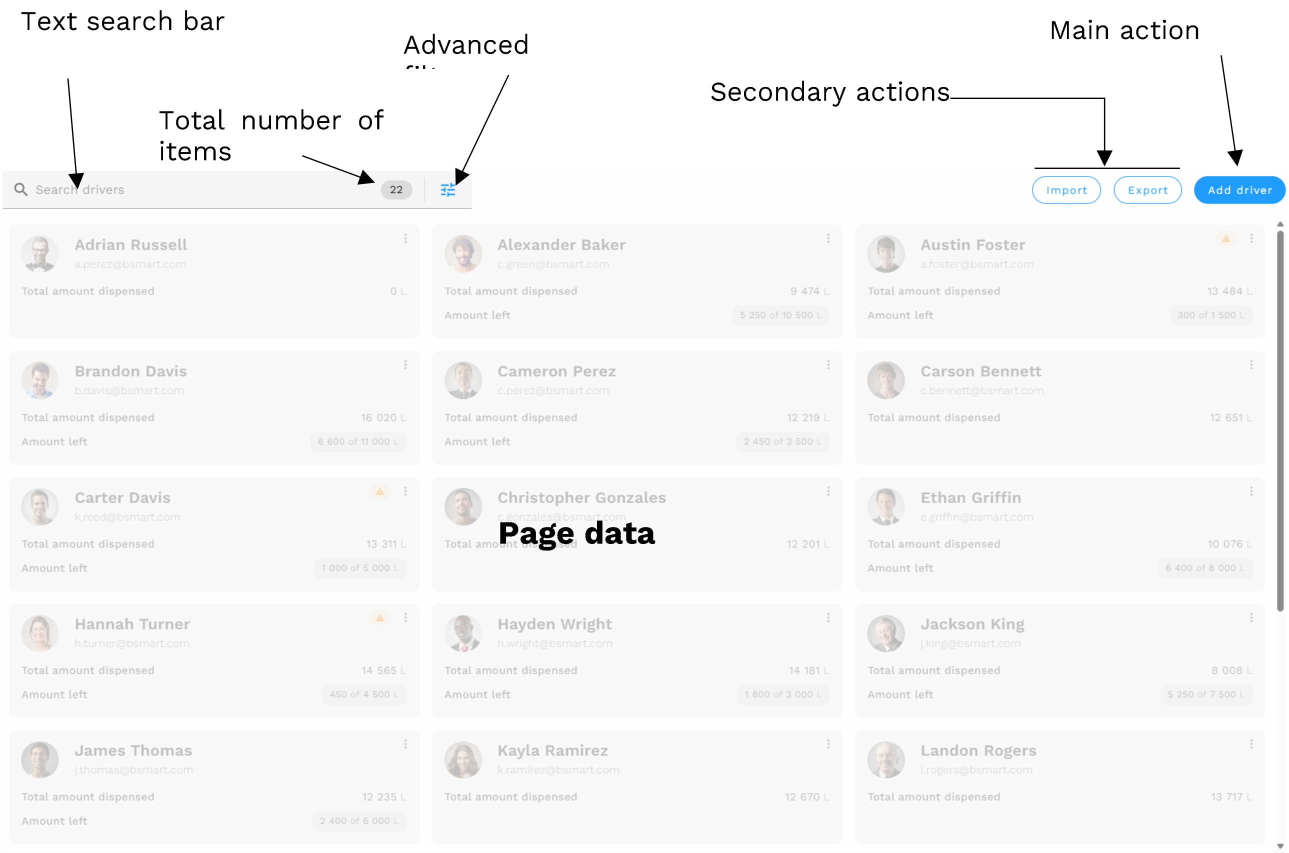
5. DATA VIEW PAGES

The B.SMART system allows you to view and manage different types of data, including drivers, devices, vehicles, tanks, etc.

All these data and their management will be explained in detail in the following chapters.

In this chapter, you will see the basic structure of a data viewing/management page and its main elements.

Let's take as an example the content of the drivers page:



- **Text search bar**
- **Total number of items**

  Total number of items available.

- **Advanced filters**

  Explained in detail in chapter 5.1.

- **Actions**

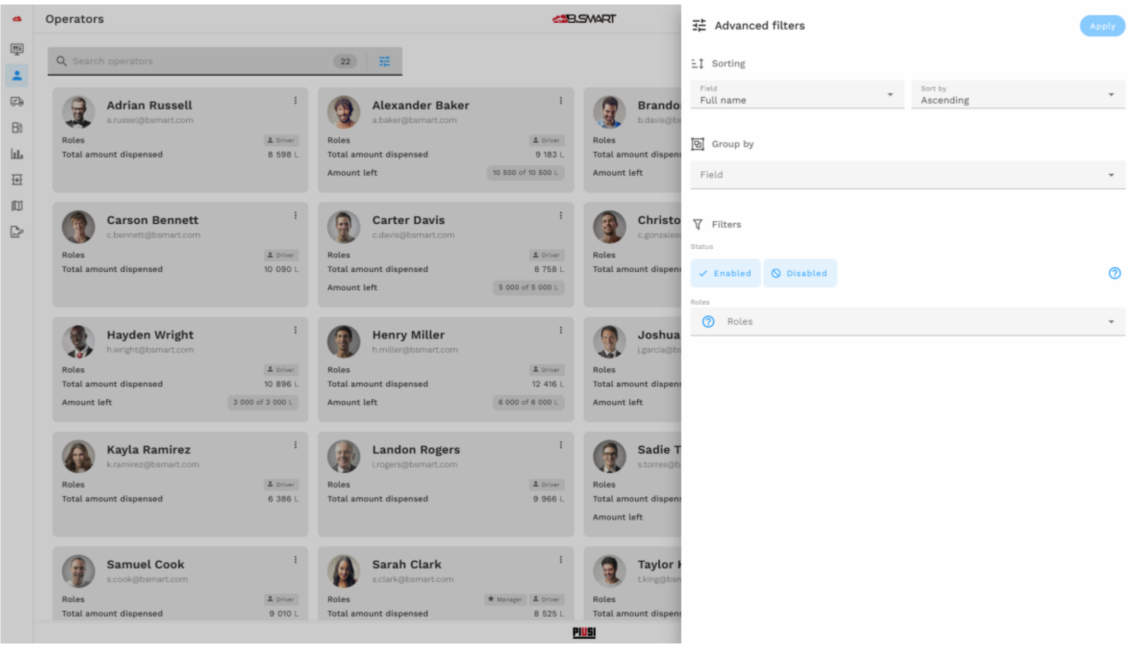
  Divided into main (usually adding data) and secondary (usually import and/or export, if present).

- **Page data**

Container that displays the page data as cards (on medium-large screen devices) or as a list (on mobile devices).

5.1. Advanced filters

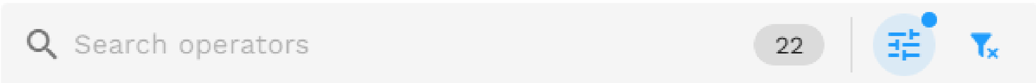
By clicking on the icon in the text search bar, a panel will open on the right allowing you to set advanced filters for a more precise data search.



When one or more advanced filters are changed:

- The filter reset button Clear filters will appear at the top right: by pressing it, the advanced filters will be reset to their initial values.
- The Apply button at the top right will become colored and clickable. Once pressed, the filters will be applied and the data will be searched again using the set advanced filters.

If the advanced filters have changed from the initial values, the text search bar will change as follows:



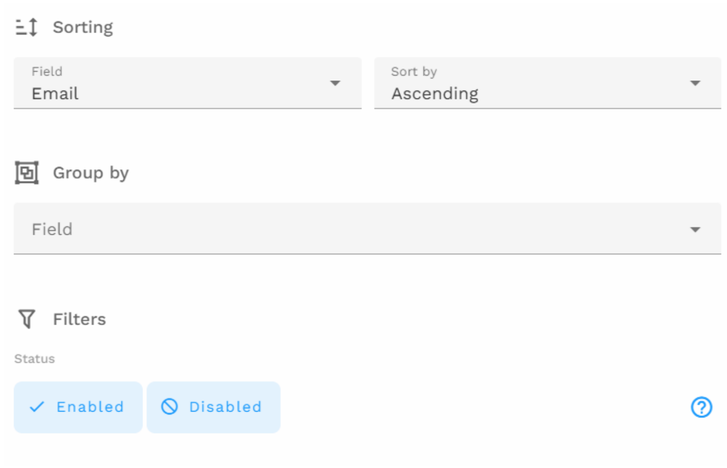
- The advanced filters icon will have a blue circle to indicate a change applied compared to the original
- A filter reset button will appear which, when clicked, will restore the advanced filters to their initial value without having to open the panel and press the button described above.

In general, the advanced filters contain the following fields:

- **Sorting field**
  The fields of the currently displayed data on which you want to perform sorting
- **Sorting direction**

  Ascending or descending
- **Grouping field**

  The field of the currently displayed data on which you want to perform grouping



- **Advanced filters**

  Filtering by status of the currently displayed data: enabled or disabled (*enabling and disabling of data will be explained in the following chapters*).

Note

Different pages may have additional, different and/or more specialized advanced filters, depending on the filtering needs of the page.

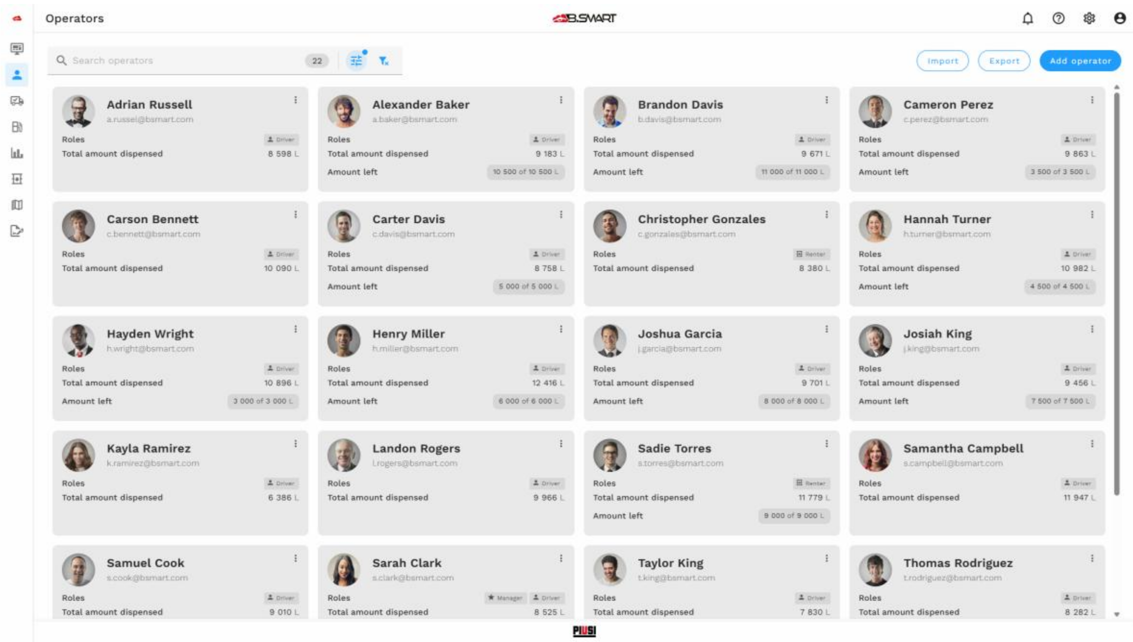
6. OPERATORS

The Operators section, accessible by pressing the corresponding menu icon (see figures below), allows you to manage the operators of your plant.

Drivers icon (compact menu)

Drivers icon (expanded menu)

From this section you can add, edit, delete, and search for plant operators.

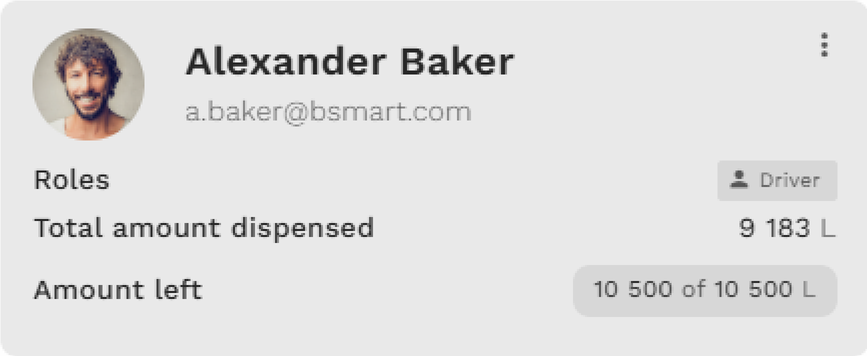


Note

If you wish to increase the maximum number of drivers, you need to purchase a new *“driver access add-on”* extension and activate it from the “Add-on” subsection in the settings (see chap. 14.3.3).

6.1. Information

The main personal data of an operator can be viewed directly from the card in the list.

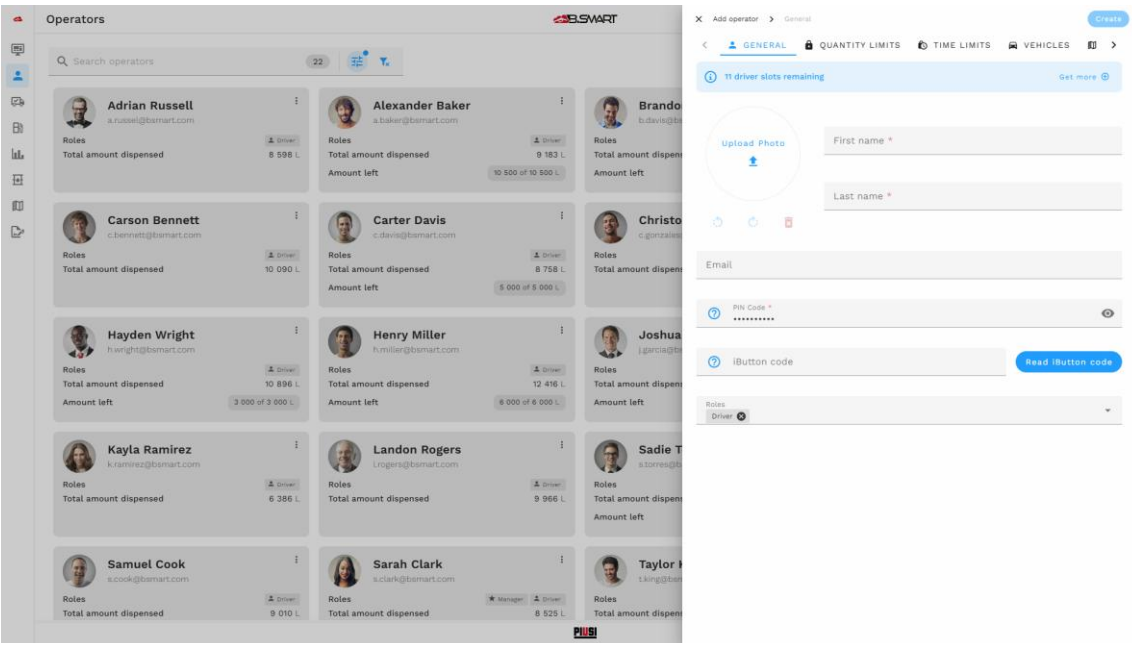


To see further details, simply press on the card: a panel will open with detailed information where you can view and edit the data, as described in the next paragraph.

6.2. Addition

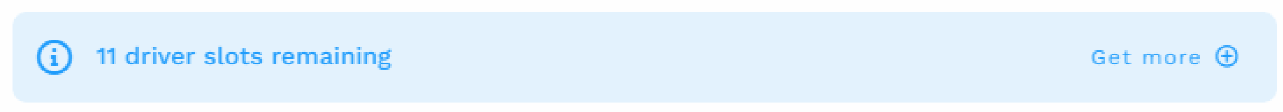
To add an operator, press the button at the top right Add operator.

A panel will open on the right with all the fields to fill in to create an operator. The fields are grouped and divided into tabs (or sections) based on the topic.



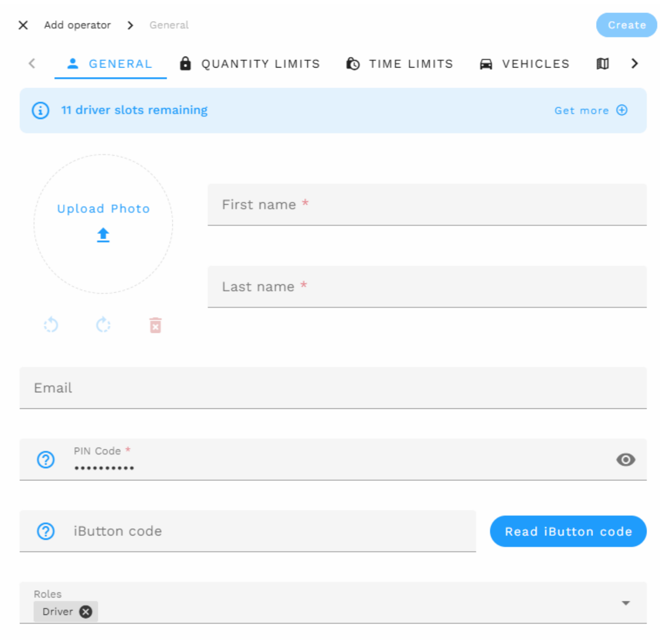
6.2.1. GENERAL information section

Note: an information card at the top will indicate how many "driver" slots are available:



Once the available slots are used up, it will no longer be possible to create a driver until additional slots are purchased.

In this section you can complete the personal data fields of the driver:



- **Image** (Optional)

  Driver identification photo. To upload an image, press the appropriate circle.
- **Name** (Required)
  Driver's name
- **Surname** (Required)
  Driver's surname
- **Email** (Optional)
  Driver's email.
- **Pin Code** (Required)
  Driver's unique code. It is required by the mobile application to authenticate the driver on the site and enable them to dispense.
  NOTES:
  - The driver's PIN code must consist only of **digits** and must have a length **between 7 and 15**
  - The driver's PIN code will be automatically generated by the system when creating the driver, but it can still be changed at will by the B.SMART user, respecting the constraints indicated above.
- **iButton code** (Optional)
  Code shown on the iButton key. It is used by the driver to authenticate at the terminal instead of using the phone.

  The iButton code can be entered manually by reading the code on the key or automatically using the appropriate reader to connect to the PC.
  In this case, it is necessary to install the *PIUSI IBUTTON READER* **tool** and, once installed, press the Read iButton code button.
  For more information, see chapter 15.

- **Role** (Required)
  Operator's role. Operators can have one or more roles among Driver, Manager, and Renter.

> **Note**
>
> An operator can always have a single role (only Driver, only Manager, only Renter). Regarding multiple roles, the only allowed combination is Driver + Manager.
>
> The "Renter" role is only available with the activation of the MasterSite extension *(see chap. 13)*
>
> For a detailed overview of the roles and their interaction with the B.SMART system, refer to the smartphone app manual.

6.2.2. QUANTITY LIMITS Section

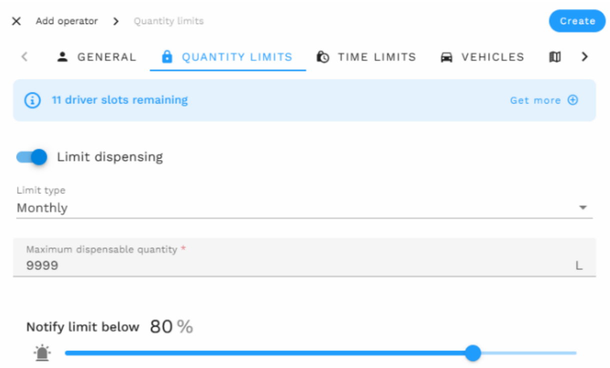
NOTE: this section is only available if the Fuel Economy add-on is active

From this section, you can configure a limit on the quantity that can be dispensed by the operator within a specific time period.

Once the maximum dispensable quantity within the period is reached (i.e., the remaining quantity reaches zero), the operator is blocked and can no longer dispense from the system's pumps.

At the end of the time period, the operator's remaining quantity is reset to the maximum dispensable quantity for the period.

- **Limit dispensing**: "toggle" button that allows you to enable or disable control over the dispensed quantity limits.
  - If disabled, the limits on dispensable quantities will not be applied. The operator will be able to dispense without any limits;
  - If enabled, the fields described below for setting the limits will appear.



- **Type of period**:
  - **Monthly**
    At the beginning of each month, the remaining quantity is reset;
  - **Weekly**

Set on which day of the week the remaining quantity is reset;

- **Daily**
  Set after how many days ("Number of days"), starting from a chosen date ("start date"), the remaining quantity is reset;
- **None**
  No time limit is applied. There is no limit to the maximum quantity that can be dispensed by the operator.

- **Maximum dispensable quantity**

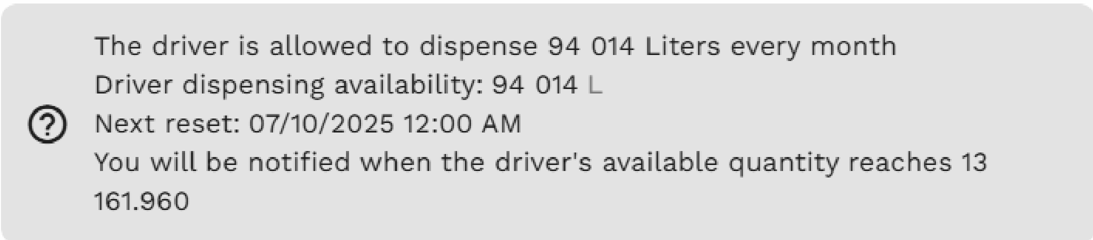
  Maximum amount of liters/gallons that can be dispensed by the operator from all the system's pumps within a specific period of time.
- **Alarm threshold** (in percentage)

  If the percentage of remaining quantity compared to the maximum dispensable quantity falls below the set alarm threshold, an alarm is triggered (it will appear at the top right of the operator's card) to notify that the operator is about to run out of their remaining quantity.

Warning!

- If the manager decides to change the defined period or the maximum dispensable quantity within the period, the count of the remaining quantity up to that moment will be reset. External dispensings are not included in the count of the remaining quantity.
- The remaining quantity can be reset manually. *The procedure is explained in paragraph 6.4.3.*

At the bottom of the quantity limits editing section, a card will appear containing explanations related to the entered settings.

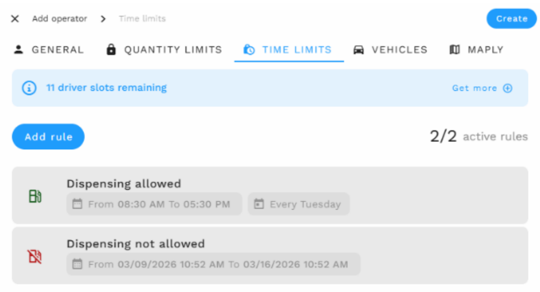


6.2.3. TEMPORAL LIMITS Section

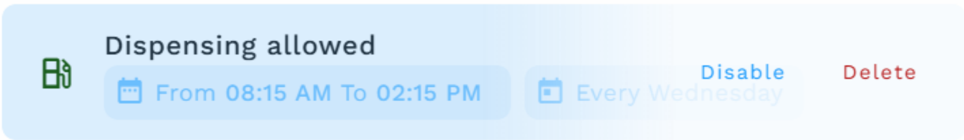
NOTE: this section is only available if the Fuel Economy add-on is active

From this section, you can set the operator's working hours to prevent dispensing from the system's pumps outside the configured time limits.

The added rules will be visible in a list of cards, from which you can see the rule information at a glance.



By hovering the cursor over an item, two actions will appear:



- **Disable/enable**

  To disable or enable a rule. Disabled rules will not be applied.

- **Delete**

  To delete a rule from the list

By clicking on the list item, a panel will open on the right for editing the data.

Press the Add rule button to add a new temporal limit rule. The rule can be defined using two different types of limits:

- **Working hours**

  Select the day of the week (defining a working time slot within the day) in which the operator is allowed to dispense. Outside the set time for the indicated day, the operator will not be authorized to dispense.

- **Closure period**

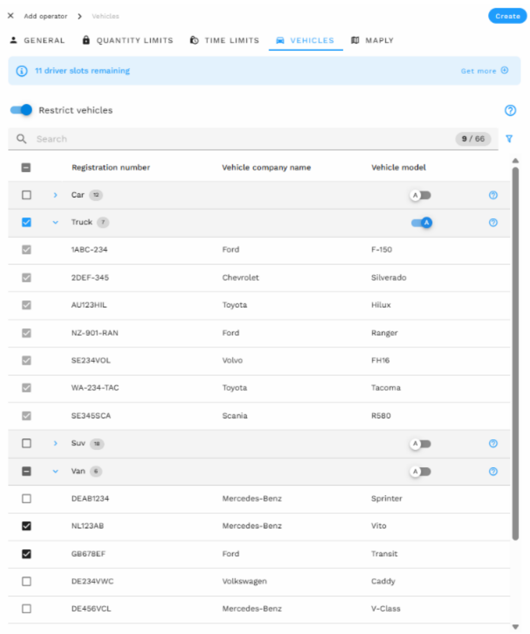
  Select a time period during which the operator is not authorized to dispense. Outside the indicated period, the operator is always authorized to dispense unless other limits are set.

If no rules are defined for time limits, the operator is always authorized to dispense at any time.

6.2.4. VEHICLES section

NOTE: this section is only available if the Fuel Economy add-on is active

From this section, you can set which vehicles or vehicle categories the operator is authorized to dispense for. By default, each operator is authorized to dispense on every vehicle in the facility.

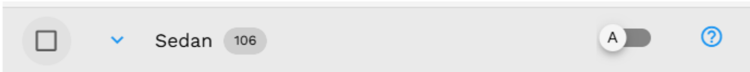


By activating the Restrict vehicles button at the top, you can manually select which vehicles to assign to the operator.

By keeping this button deactivated, the operator will be authorized to dispense on any vehicle and vehicle category.

If instead the button is active, manual selection comes into play, where you can select one by one the vehicles (or categories) on which the operator is authorized to dispense.

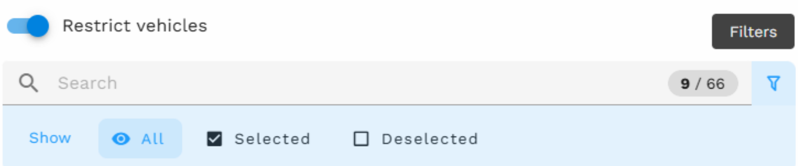
The list of vehicles is grouped and divided by categories. Each header represents a category and is collapsible.



Each header contains:

- Checkable checkbox, to select/deselect all child vehicles.
- Arrow to collapse/expand the sub-list of vehicles.
- Category name and number of vehicles in the sub-list.
- “Switch” button on the right for the automatic mode of the category, A
  - If active, the category and all its child vehicles (including any vehicle of that category created from now on) will be automatically associated with the driver, meaning the driver will be authorized to dispense on all the above-mentioned vehicles.
  - If deactivated, only the vehicles manually selected via the checkboxes on the left will be associated with the driver, meaning the driver will be authorized to dispense only on the manually selected vehicles.

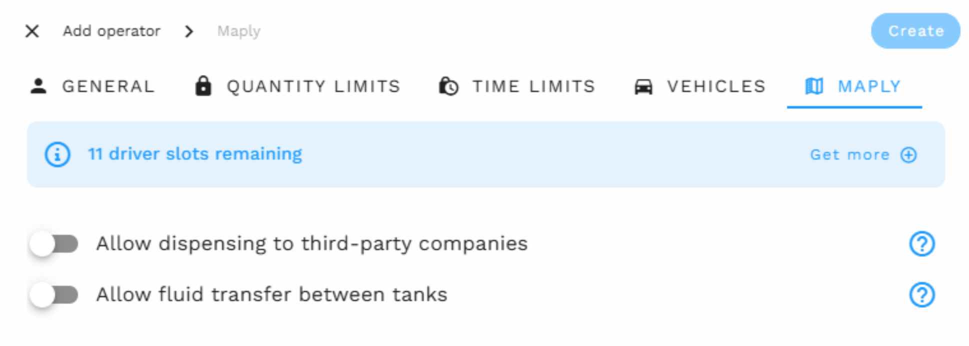
It is also possible to search for vehicles using the dedicated search bar and, by pressing the filter button on the right, a section will appear that allows you to filter vehicles by “all vehicles”, “only selected



vehicles” or “only deselected vehicles” respectively.

6.2.5. MAPLY section

NOTE: this section is available only if the Maply add-on is active



- **Allow refueling to third-party registration numbers**

  If the option is enabled, during dispensing the operator can choose to refuel registration numbers of third-party companies (see *chapter 12.3*).

- **Allow transfer between tanks**

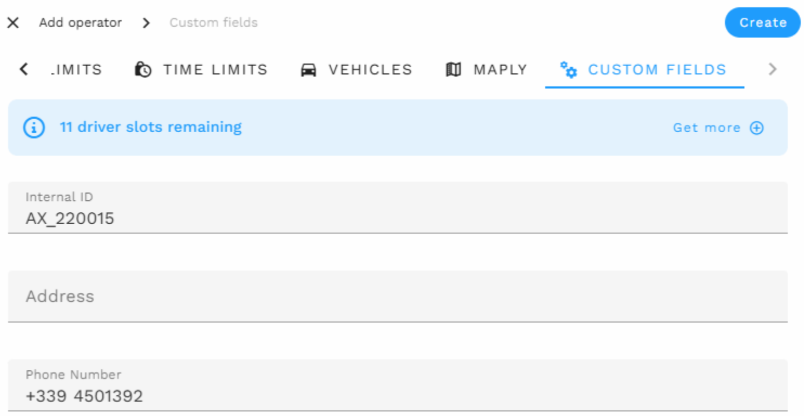
  NOTE: this option is available only if the Tank Watchdog add-on is active

  If the option is enabled, during dispensing the operator can choose a tank in the facility in which to perform a transfer.

6.2.6. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for operators (see chapter 14.2.1).

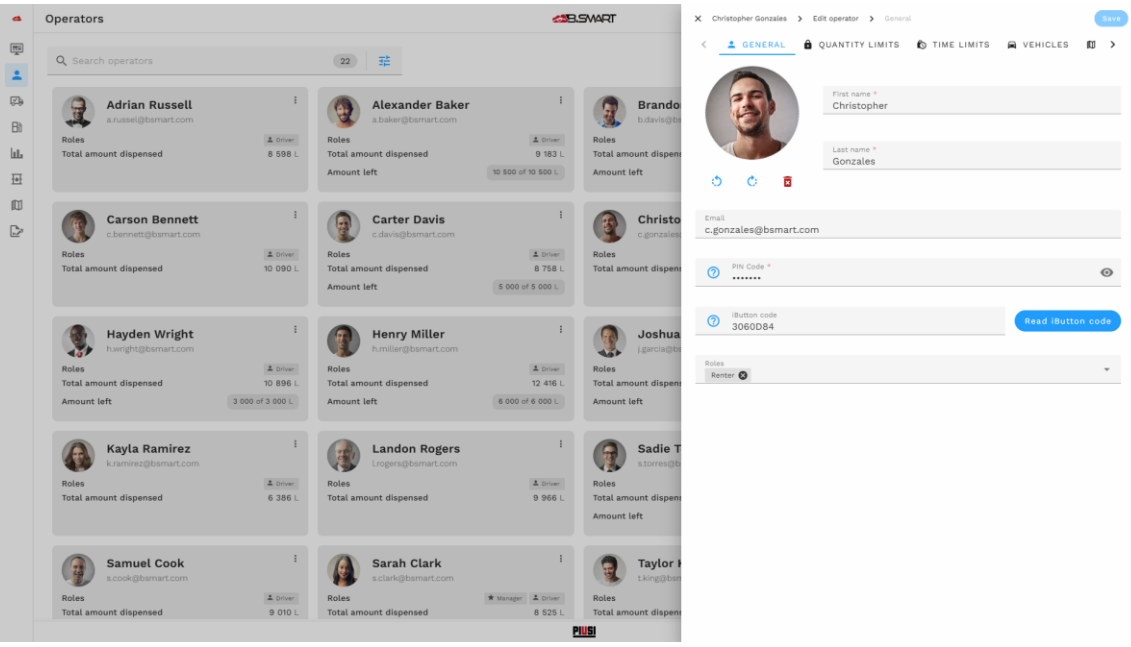
This section allows you to enter custom fields for the operator being created.



6.3. Edit

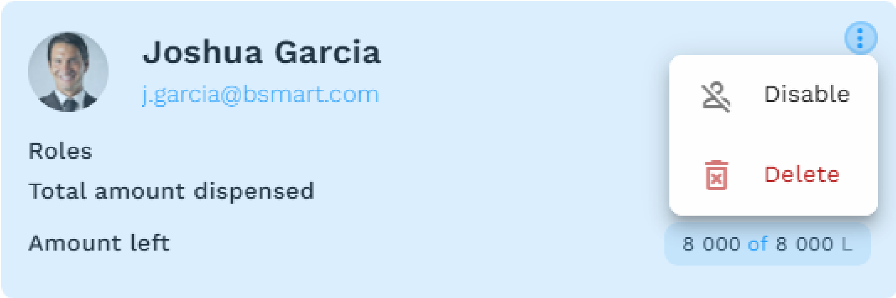
To edit an operator, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the selected operator's data and can be edited with the desired values.



6.4. Management operations

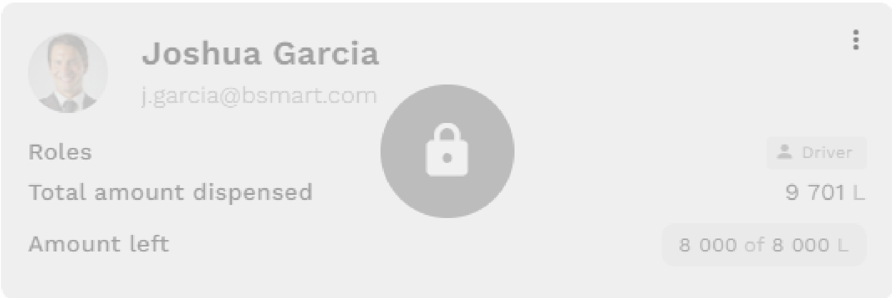
By clicking on the three dots at the top right of an operator's card, the actions that can be performed on it will appear.



6.4.1. Disable

By pressing "Disable", the operator will be disabled. A disabled operator will not be able to dispense from the facility. Confirmation will be requested before performing a disable action.

A disabled operator will be represented graphically in a different way, with a padlock and partial transparency.



To re-enable the operator, you need to press the three dots at the top right and select the "Enable" option. Confirmation will be requested before performing an enable action.

6.4.2. Delete

By pressing "Delete", the operator will be removed from the facility. Confirmation will be requested before performing a deletion.

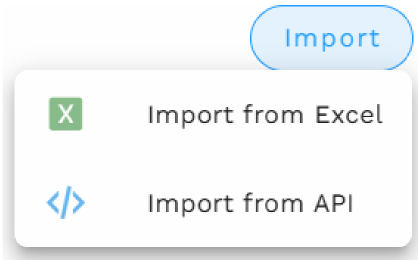
6.4.3. Reset dispensed quantity

NOTE: this feature is available only if the Fuel Economy add-on is active and if the operator has the limit on the dispensable quantity enabled.

If the alarm icon appears on the operator's badge ( ), it means that the operator has exhausted the maximum dispensable quantity allowed within the period.

By hovering the cursor over the operator's card, the button Reset that allows you to manually reassign this quantity will appear before this operation is automatically performed by the system at the end of the set period.

6.5. Import



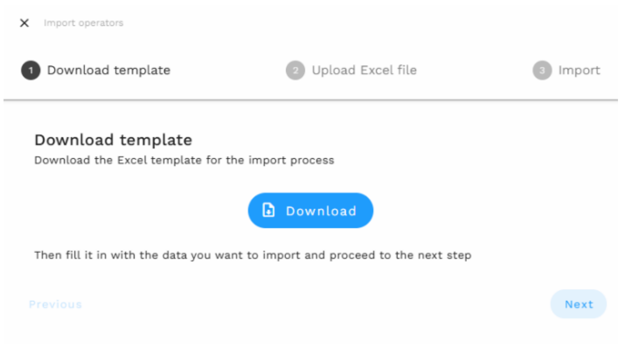
There are two ways to import operators:

- Import via Excel
- Import via API

6.5.1. Excel Import

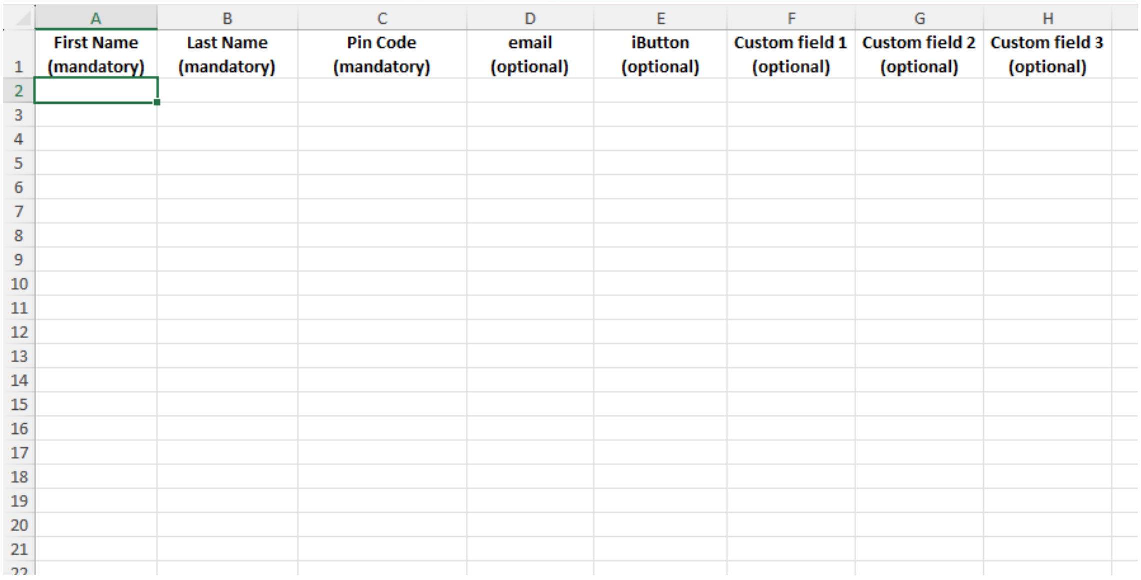
You can import operators from an Excel file by clicking on the "Import from Excel" option.

A panel will open on the right with a three-step process.



Download template

By pressing the Download button, an Excel template with a pre-set empty table for entering operators will be downloaded.

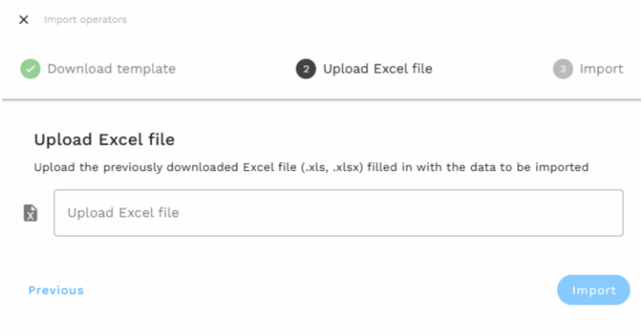


The Excel sheet must be filled in with the desired information. Each row represents an operator and each column represents one of its fields.

Once the Excel file has been filled in and saved, press the Next button in the operator import section.

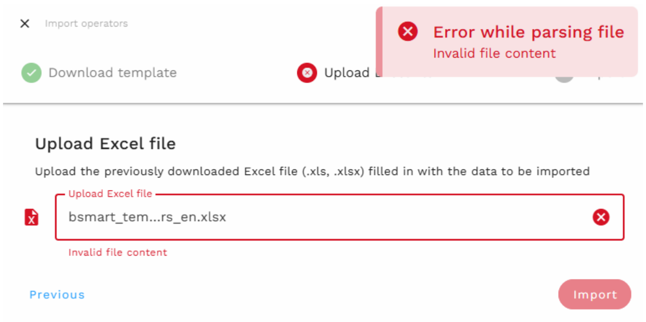
File upload

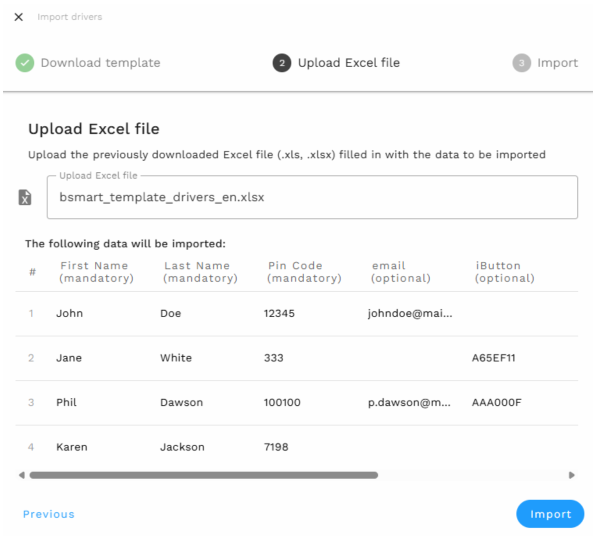
In this second step, you can upload the file you just filled in, either by clicking on the upload field and selecting the file from your PC, or by dragging and dropping the desired file onto the upload field.



NOTE: only Excel files from the previous step can be uploaded. It is not possible to create a custom file with the list of operators and upload it.

Uploading an incompatible file will result in an error shown in the image on the side.





Once the Excel file is uploaded, if it is valid, a table will be displayed to review the data before importing.

To proceed with the import, press the Import button.

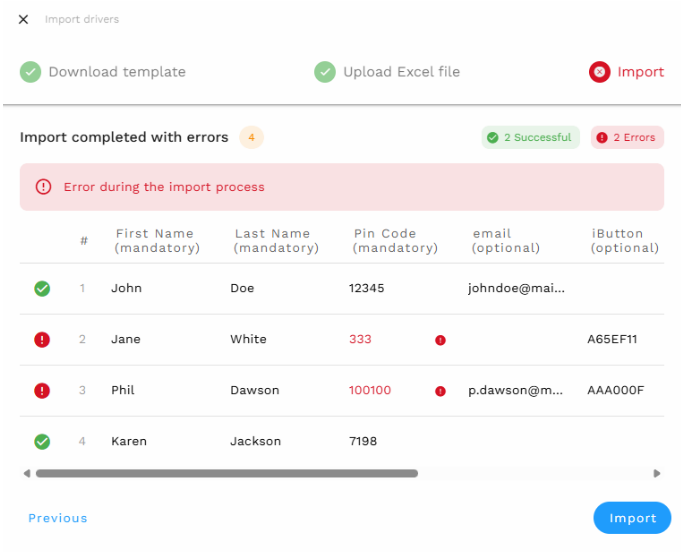
Operator import

In the third and final step, you can start importing the operators.

A table will be displayed with the result of the import, so you can review the data just uploaded.

If there are errors during the import phase, they will be highlighted in the table rows, as shown on the right.

The rows for successfully imported operators will be preceded by the symbol ✅, while the rows for operators not imported due to an error will be preceded by the symbol ❗.



By hovering the mouse over an error indicator, the corresponding message will be displayed.

6.5.2. API Import

NOTE: the "Import via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

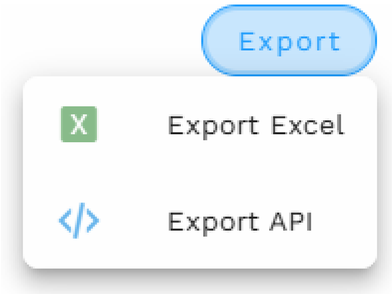
It is possible to import operators via API. By clicking the "Import via API" option, you will be redirected to the Import/Export API documentation page in the "Operators" section.

6.6. Export

Operators can be exported in two different ways: Excel or API.

By clicking the "Excel Export" option, an Excel file will be generated with the currently displayed data.

By clicking the "API Export" option, you will be redirected to the export API documentation for operators.



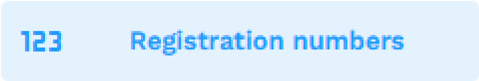
Note

The "Export via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

7. REGISTRATION NUMBERS

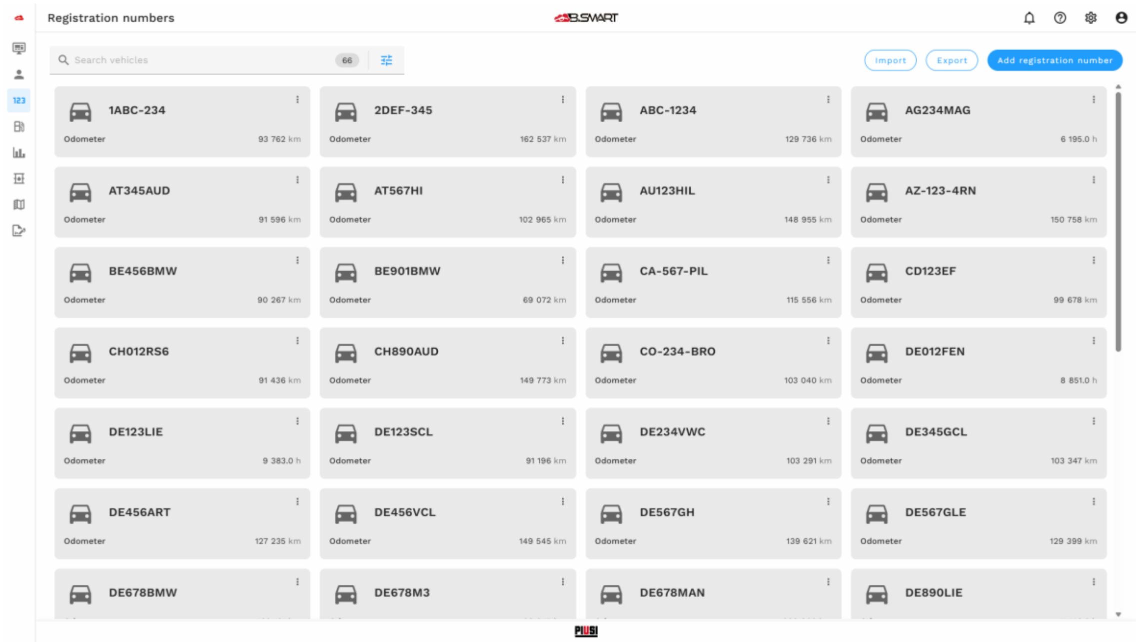
From this section you can manage the registration numbers of the system.

Registration numbers icon (compact menu)



Registration numbers icon (expanded menu)

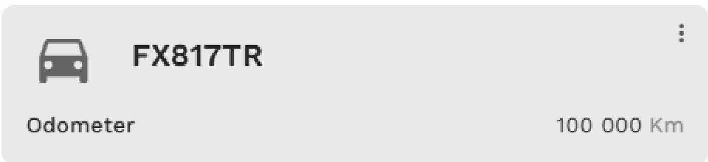
Registration numbers can represent work order codes to be performed, or the license plate of a vehicle to be refueled. If you want to use registration numbers as vehicle license plates, you can also keep track of their respective odometers.



There are no limits on the number of registration numbers that can be entered in the system.

7.1. Information

The main details of a registration number can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

> **Warning!**
> After making the first delivery with a specific registration number, it will no longer be possible to:
>
> - Delete the registration number; in this case, it is recommended to disable it if you no longer want to use it.

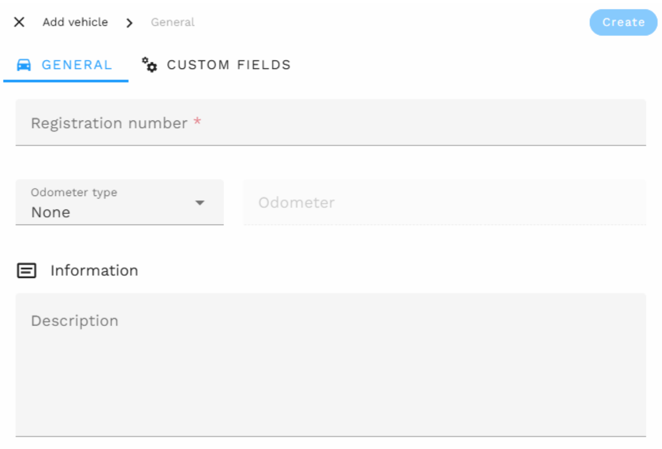
7.2. Addition

To add a registration number, press the button at the top right **Add registration number**.

A panel will open on the right with all the fields to fill in to create a new registration number. The fields are grouped and divided into tabs (or sections) based on the topic.

7.2.1. GENERAL information section

In this section you can set the general information for a registration number.



- **Registration number** (Required)

  Unique identification code of the item.

- **Odometer type**

  If the registration number represents a vehicle, it is possible to define the odometer unit of measurement, choosing from:
  Kilometers, Miles, Hours

- **Odometer**

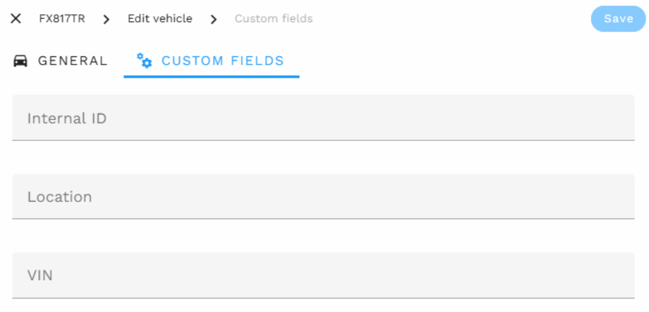
  You can specify the vehicle's odometer only if the odometer type is different from "None".

- **Description** (Optional)
  Text field to save additional information.

7.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for registration numbers (see section 14.2.1).

In this section you can set the values of the custom fields for registration numbers.



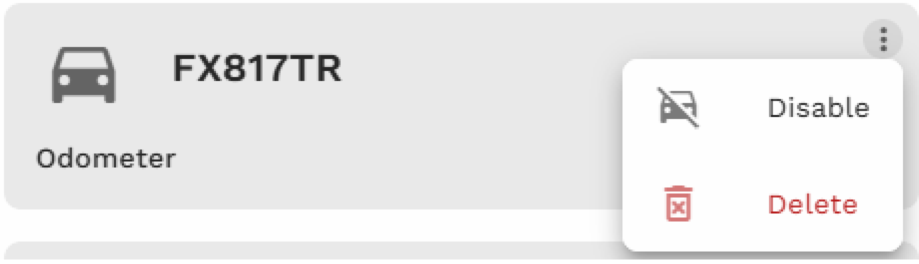
7.3. Edit

To edit a registration number, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the data of the selected registration number and can be edited with the desired values.

7.4. Management operations

By clicking on the three dots at the top right of the registration number card, the actions that can be performed on it will appear.



7.4.1. Disable

By pressing "Disable" (or "Enable"), the registration number will be disabled (or enabled). Confirmation will be requested before disabling (or enabling).

By pressing "Disable", the registration number will be disabled. A disabled registration number will be displayed differently, with a padlock and partial transparency.

To re-enable the registration number, you need to press the three dots at the top right and select the "Enable" option. Confirmation will be requested before performing an enable action.

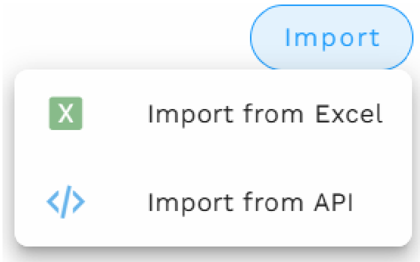
7.4.2. Delete

By pressing "Delete", the registration number will be deleted. Confirmation will be requested before performing a deletion.

7.5. Import

There are two ways to import registration numbers:

- Import via Excel
- Import via API



7.5.1. Excel Import

The Excel import of registration numbers follows the same process as the import of drivers. *See chapter 6.5.1 for more information.*

7.5.2. API Import

NOTE: the "Import via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

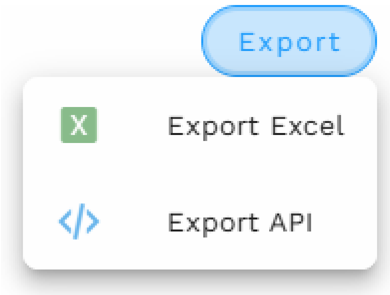
It is possible to import registration numbers via API. By clicking the "Import via API" option, you will be redirected to the Import/Export API documentation page in the "Registration Numbers" section.

7.6. Export

You can export registration numbers in two different ways: Excel or API.

By clicking the “Excel Export” option, an Excel file will be generated with the currently displayed data.

By clicking the "API Export" option, you will be redirected to the export API documentation for registration numbers.



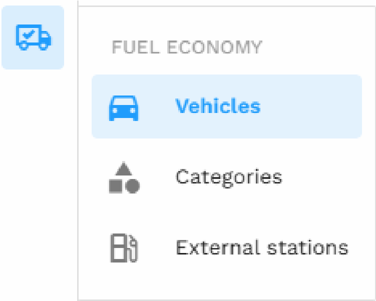
Note

The “Export via API” option is only available after enabling the “Enable export API” setting. See chapter 14.2.2.

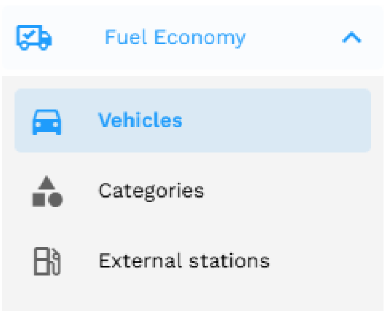
8. FUEL ECONOMY

NOTE: the section is available only after activating the dedicated "Fuel Economy" add-on.

The Fuel Economy section, accessible by pressing the menu icon shown below, replaces the "Registration Numbers" section described in chapter 7. From this section you can manage your vehicle fleet in an advanced way, divide them into categories, and enable consumption management.



Fuel Economy icon (compact menu), with submenu icons.



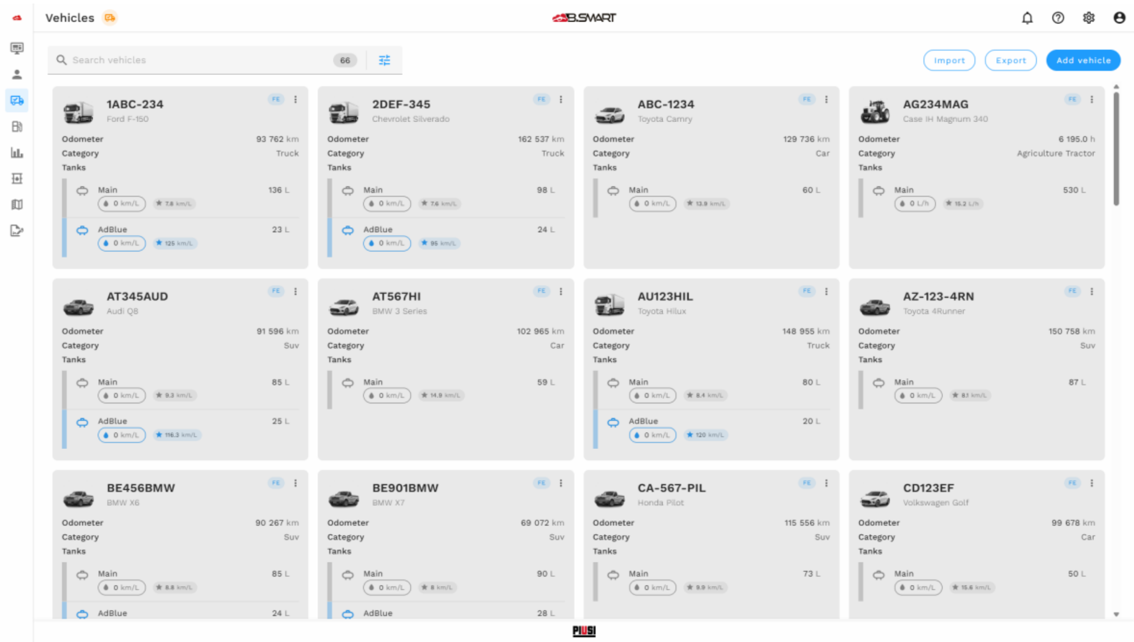
Fuel Economy icon (expanded menu), with submenu items.

8.1. Vehicles

NOTE: the section is available only after activating the dedicated "Fuel Economy" add-on.

In this section you can manage information related to vehicles, their tanks, and their consumption.

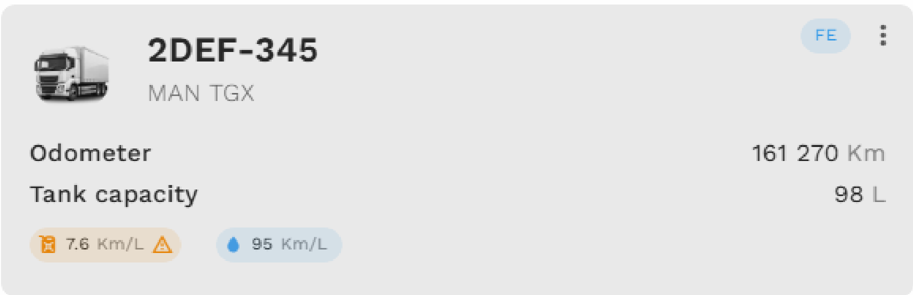
As soon as the "Fuel Economy" add-on is activated, all registration numbers in the system will be converted into vehicles and assigned to a base category called "Default".



There are no limits on the number of vehicles that can be added to the system.

8.1.1. Information

The main details of a vehicle can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

Warning!

- Vehicles that have activated "Fuel Economy" management and do not have an AdBlue tank configured cannot dispense from AdBlue pumps.
- It is not possible to delete a vehicle if it has been refueled at least once in the system; in this case, it is recommended to disable it if you no longer want to use it.

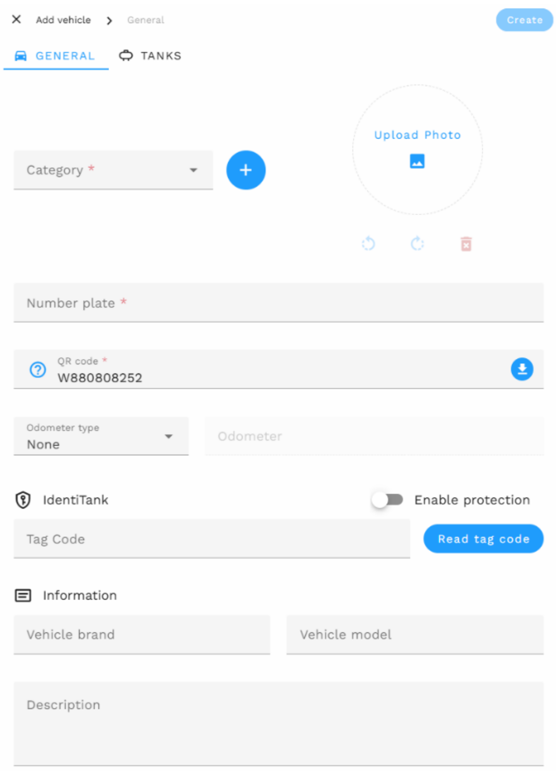
8.1.2. Addition

To add a vehicle, press the button at the top right Add vehicle.

A panel will open on the right with all the fields to fill in to create a new vehicle. The fields are grouped and divided into tabs (or sections) based on the topic.

8.1.2.1. GENERAL information section

In this section you can set the general information of the vehicle.



- **Category**

  Each vehicle must be grouped under a category to be easily traceable within the fleet. See chapter 8.3 for creating a new category.

- **Vehicle photo**

  You can assign a photo to the vehicle. By default, the photo associated with the selected category is used.

- **License plate**
- **QR code**

  Unique alphanumeric string identifying the vehicle (by default, the field is pre-filled with a string automatically generated by the system). By pressing the button, a printable label is generated with the entered string converted into a scannable QR code. The label can be scanned by a driver using the mobile application to select the vehicle more quickly when creating a new refueling.

- **Odometer type**

  Unit of measurement in which the vehicle's odometer must be recorded. If "None" is selected, tracking of the vehicle's odometer values over time will not be managed.

- **Odometer**

  It is mandatory to provide the current odometer value if you want to activate the advanced "Fuel Economy" management on the vehicle. In this way, the latest

odometer value of the vehicle will be requested at each new refueling. This information will then be used in calculating the vehicle's fuel consumption.
Warning: Changing the odometer unit of measurement for a vehicle will result in the loss of all consumption reports calculated up to that moment.

- **Enable dispensing protected by TAG**

  By enabling this function, refueling of the vehicle in question can only be performed if the RFID TAG is detected for the entire duration of the refueling operation.
  If the TAG associated with the vehicle is not read, dispensing will be interrupted.

- **TAG code**

  Enter the numeric string of the RFID TAG installed on the vehicle. This field allows the system to recognize the vehicle by reading the TAG with the appropriate gun during dispensing. This field is mandatory only if **dispensing protected by TAG** is enabled.

  The TAG code can be entered manually by reading the code on the key or automatically using the appropriate reader to be connected to the PC.

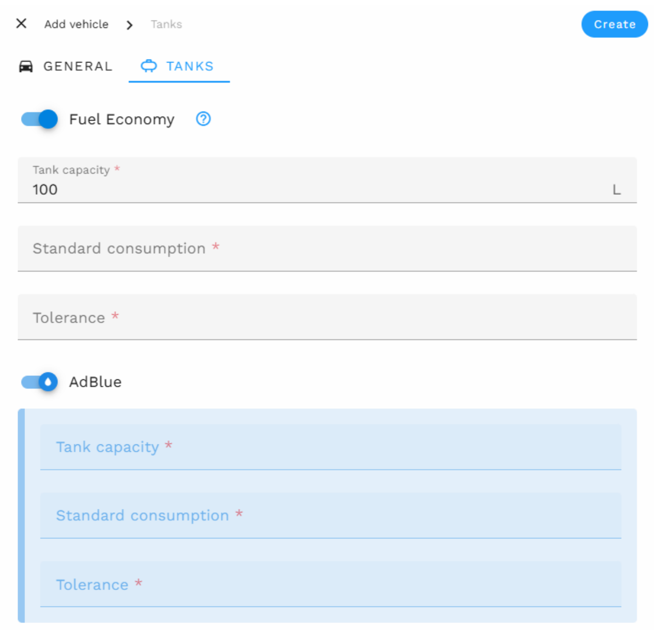
  In this case, it is necessary to install the *PIUSI IBUTTON READER* tool and, once installed, press the Read tag code *button).*
  It is possible to read the TAG and associate it directly with the smartphone App (see the TAG section of the smartphone App manual).

- **Vehicle brand**
- **Vehicle model**
- **Description** (optional)
  Free text field to store additional information about the vehicle.

8.1.2.2. TANKS section

NOTE: this section is only available if the Fuel Economy add-on is active

In this section, you can set the data related to the vehicle's Fuel Economy management.



- **Enable FUEL ECONOMY**

  Enable the calculation of consumption for the vehicle. In this case, it will be necessary to complete the vehicle's profile by providing information about the vehicle's tank.

  - **Capacity**

    Capacity of the vehicle's main tank. This value limits the maximum amount of fuel that can be dispensed in a single operation from any pump in the system.

  - **Standard consumption**

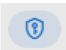
    Theoretical average fuel consumption of the vehicle.

  - **Tolerance**

    Percentage value that is a range around the nominal consumption value and within which the consumption is considered normal. The percentage tolerance on consumption is used to track vehicles that consume abnormally.

- **Enable AdBlue**

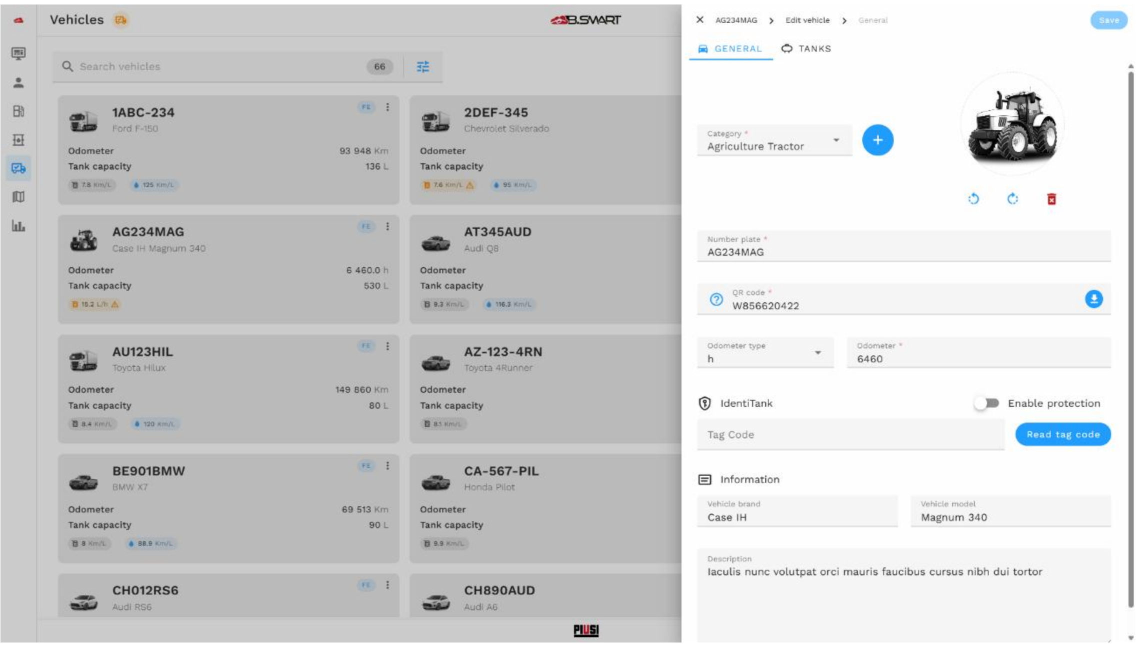
  Indicate whether the vehicle has an AdBlue tank and specify its capacity and average consumption. It is also necessary to indicate a consumption tolerance, that is, a percentage that is a range around the nominal consumption value and within which the consumption is considered normal. Both the calculation and the evaluation of the AdBlue consumption status are the same as those applied to the main tank's consumption.
  The fields below the AdBlue enable button are also "Capacity", "Standard consumption", and "Tolerance", but they refer to AdBlue.

If the  icon is present at the top right, refueling the vehicle is protected by RFID TAG.

8.1.3. Edit

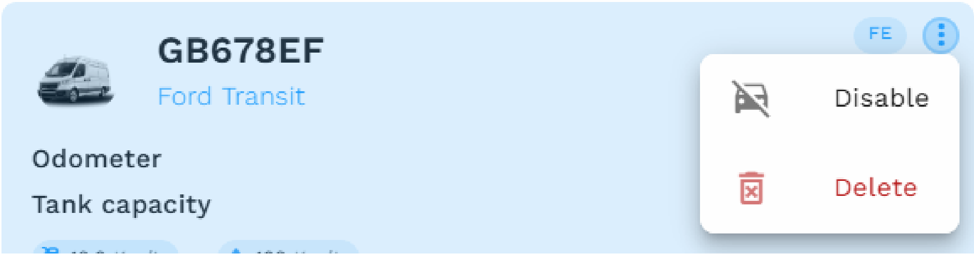
To edit a vehicle, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the selected vehicle's data and can be modified with the desired values.



8.1.4. Management operations

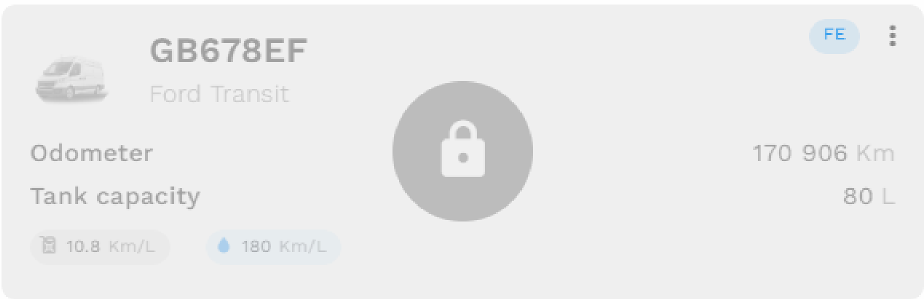
By clicking on the three dots at the top right of a vehicle's card, the actions that can be performed on it will appear.



8.1.4.1. Disable

By pressing "Disable" (or "Enable"), the vehicle will be disabled (or enabled). Confirmation will be requested before disabling (or enabling).

By pressing "Disable", the vehicle will be disabled. A disabled vehicle will be represented graphically in a different way, with a padlock and partial transparency.



To re-enable the vehicle, press the three dots at the top right and select the "Enable" option. Confirmation will be requested before performing an enable action.

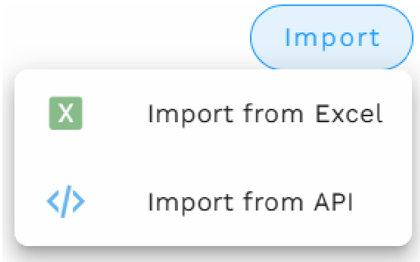
8.1.4.2. Delete

By pressing "Delete", the vehicle will be deleted. Confirmation will be requested before performing a deletion.

8.1.5. Import

There are two ways to import vehicles:

- Import via Excel
- Import via API



8.1.6. Excel Import

The Excel import of vehicles follows the same process as the import of drivers. *See chapter 6.5.1 for more information.*

8.1.7. API Import

NOTE: the "Import via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

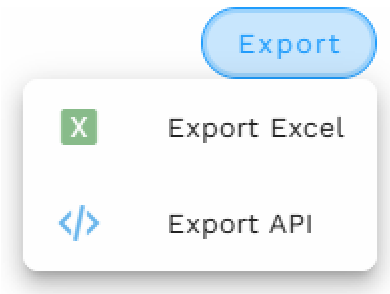
It is possible to import vehicles via API. By clicking the "Import via API" option, you will be redirected to the Import/Export API documentation page in the "Vehicles" section.

8.2. Export

It is possible to export vehicles in two different ways: Excel or API.

By clicking the "Excel Export" option, an Excel file will be generated with the currently displayed data.

By clicking the "API Export" option, you will be redirected to the export API documentation for vehicles.



Note

The "Export via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

8.3. Vehicle categories

NOTE: this section is visible only if the Fuel Economy add-on is enabled.

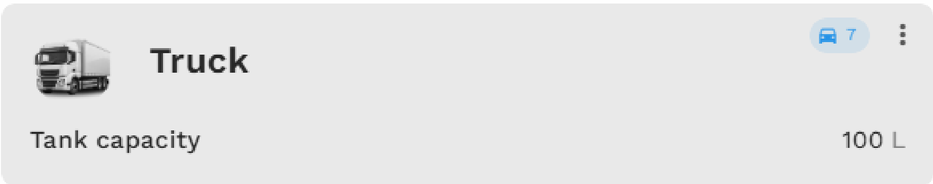
Categories are used to organize vehicles into groups. In this section you can manage the master data of vehicle categories.

Once the categories are set, it will be possible to filter vehicles by category and enable drivers to dispense on specific categories.

There is no limit to the number of categories that can be entered.

8.3.1. Information

The main master data of a category can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

8.3.2. Addition

To add a category, press the button at the top right Add category.

A panel will open on the right with all the fields to fill in to create a new category. The fields are grouped and divided into tabs (or sections) based on the topic.

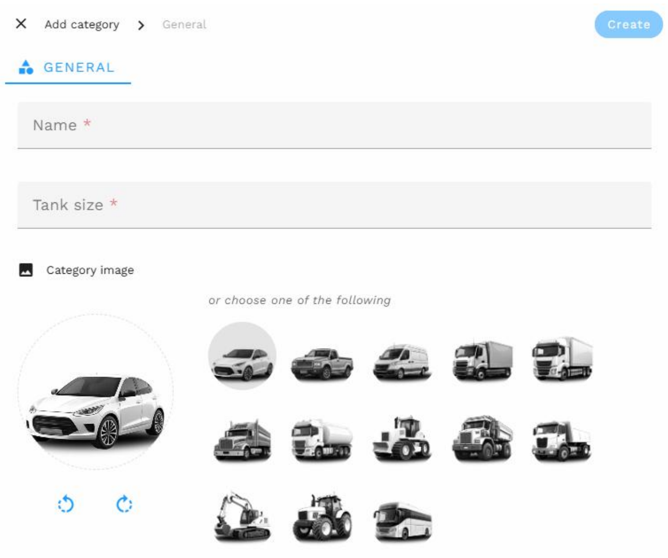
8.3.2.1. GENERAL information section

In this section you can edit the general data of a category:

- **Category name**
- **Tank capacity**

  This value will be used as a suggestion for the main tank size of all new vehicles assigned to this category.
- **Image**

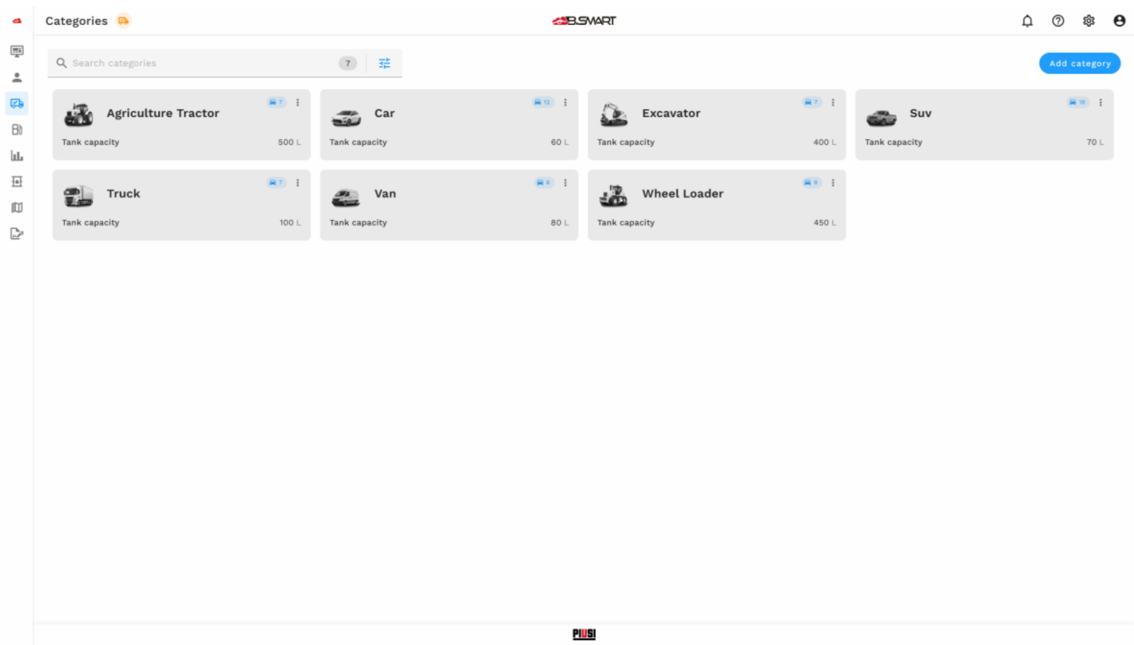
  The category image



8.3.3. Edit

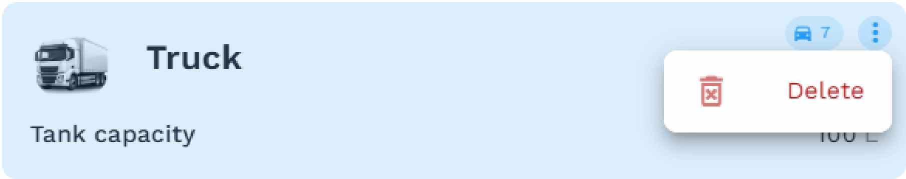
To edit a category, press on the card. A panel will open on the right to edit the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the data of the selected category and can be edited with the desired values.



8.3.4. Management operations

By clicking on the three dots at the top right of a category card, the actions that can be performed on it will appear.



8.3.4.1. Delete

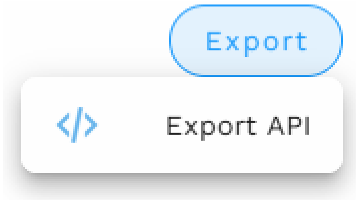
By pressing "Delete" the driver will be deleted. Confirmation will be requested before performing a deletion.

> **Warning!**
> It is not possible to delete a category if it is assigned to at least one vehicle of the plant

8.3.5. Export

It is possible to export categories in only one way: API.

By clicking the "API Export" option, you will be redirected to the export API documentation for categories.



8.4. External stations

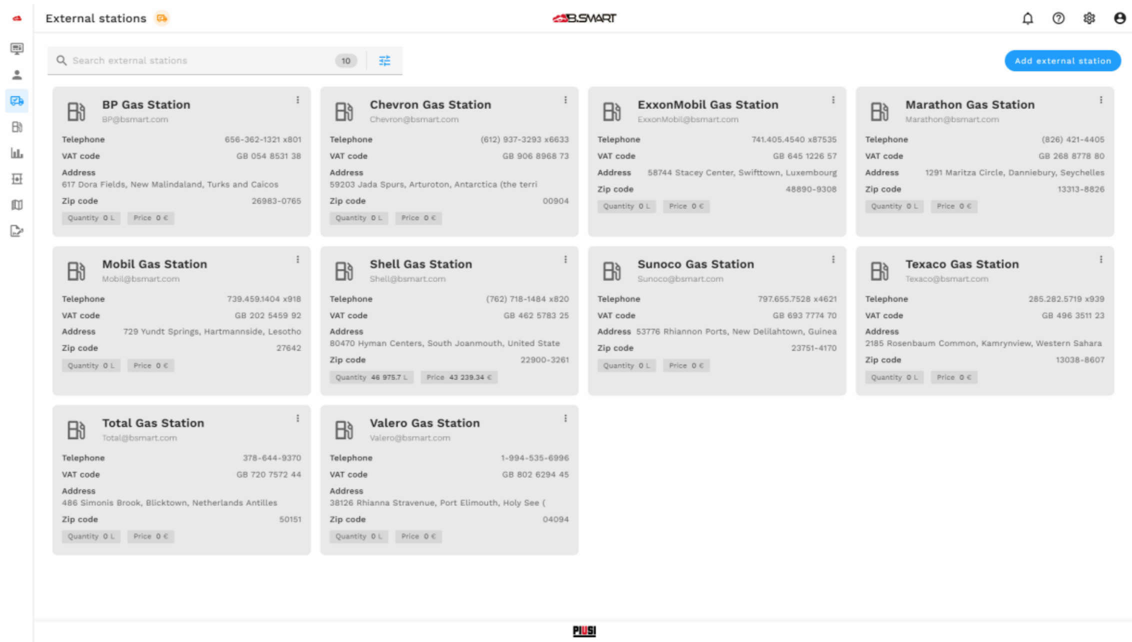
NOTE: this section is visible only if the Fuel Economy add-on is enabled and if the "Enable external stations" option is enabled from the "Settings/Fuel Economy" section (see chapter 14.4.1).

In this section you can enter and manage the master data of service stations where vehicles go to refuel outside the plant.

There is no limit to the number of external stations that can be entered.

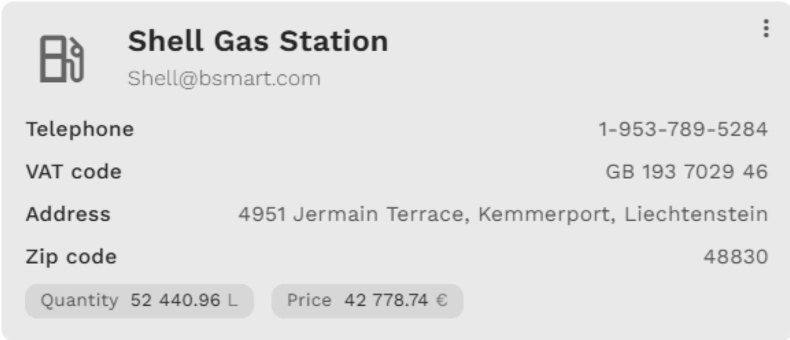
For each service station, the following are calculated:

- The amount of fuel that the plant's drivers have dispensed from the station.
- The total cost of all refueling carried out at the service station.



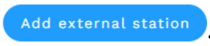
8.4.1. Information

The main master data of an external station can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

8.4.2. Addition

To add an external station, press the button at the top right 

.

A panel will open on the right with all the fields to fill in to create a new external station. The fields are grouped and divided into tabs (or sections) based on the topic.

8.4.2.1. GENERAL information section

In this section you can set the general information of an external station:

- **Company name**

  Unique identifier of the service station

- **Address, ZIP code**

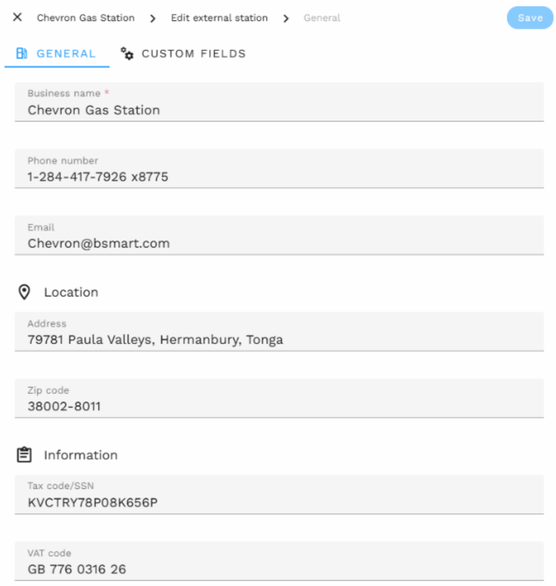
  Location of the service station

- **Phone, E-mail**

  Contacts of the service station

- **Tax code, VAT number**

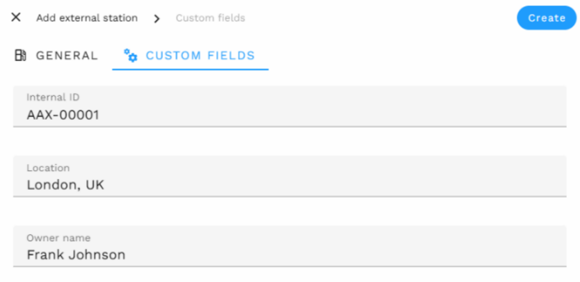
  Business data of the service station



8.4.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for external stations (see section 14.2.1)

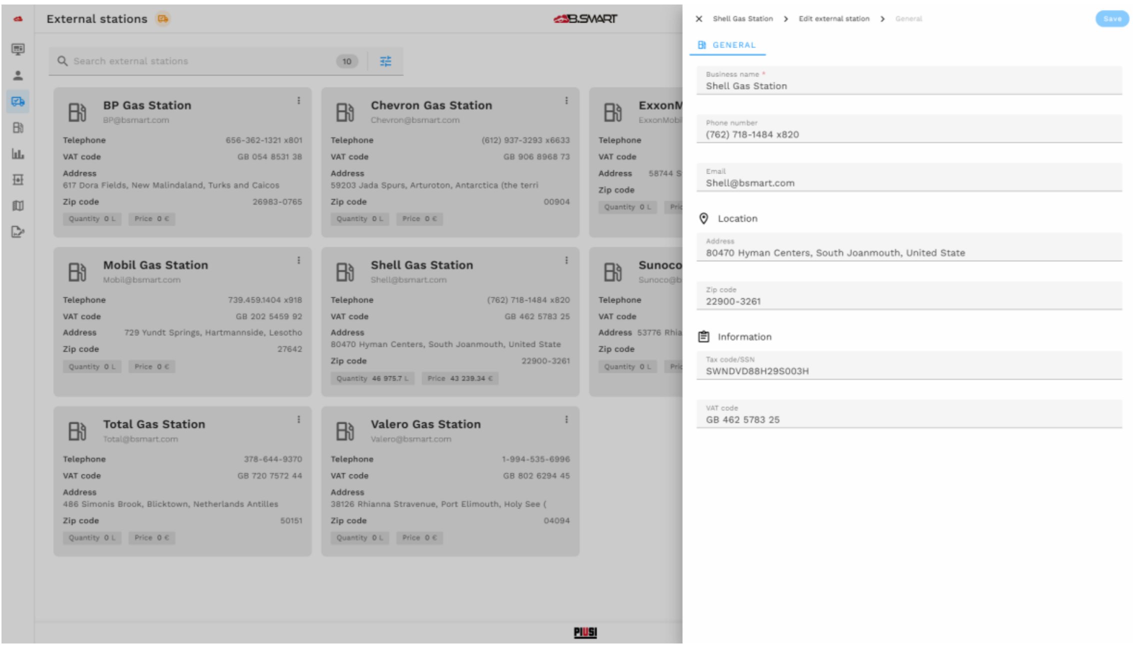
In this section you can set the values of custom fields for external stations.



8.4.3. Edit

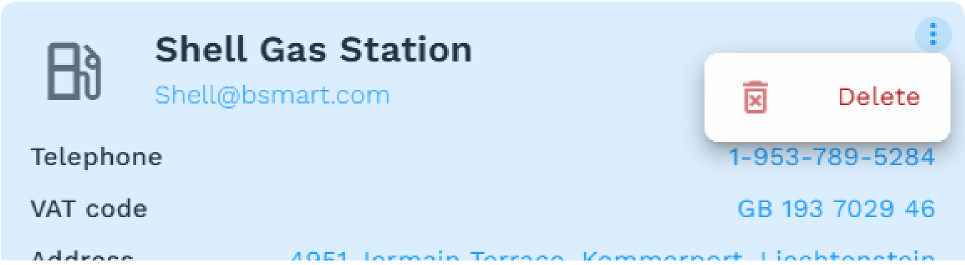
To edit an external station, press on the card. A panel will open on the right to edit the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the data of the selected external station and can be edited with the desired values.



8.4.4. Management operations

By clicking on the three dots at the top right of the external station card, the actions that can be performed on it will appear.



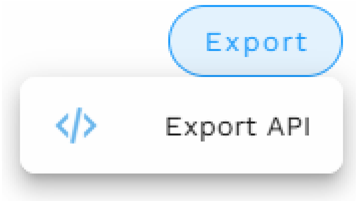
8.4.4.1. Delete

By pressing “Delete”, the external station will be deleted. Confirmation will be requested before performing a deletion.

8.4.5. Export

It is possible to export external stations in only one way: API.

By clicking the “API Export” option, you will be redirected to the export API documentation for external stations.



Note

The “Export via API” option is only available after enabling the “Enable export API” setting. See chapter 14.2.2.

9. DEVICES

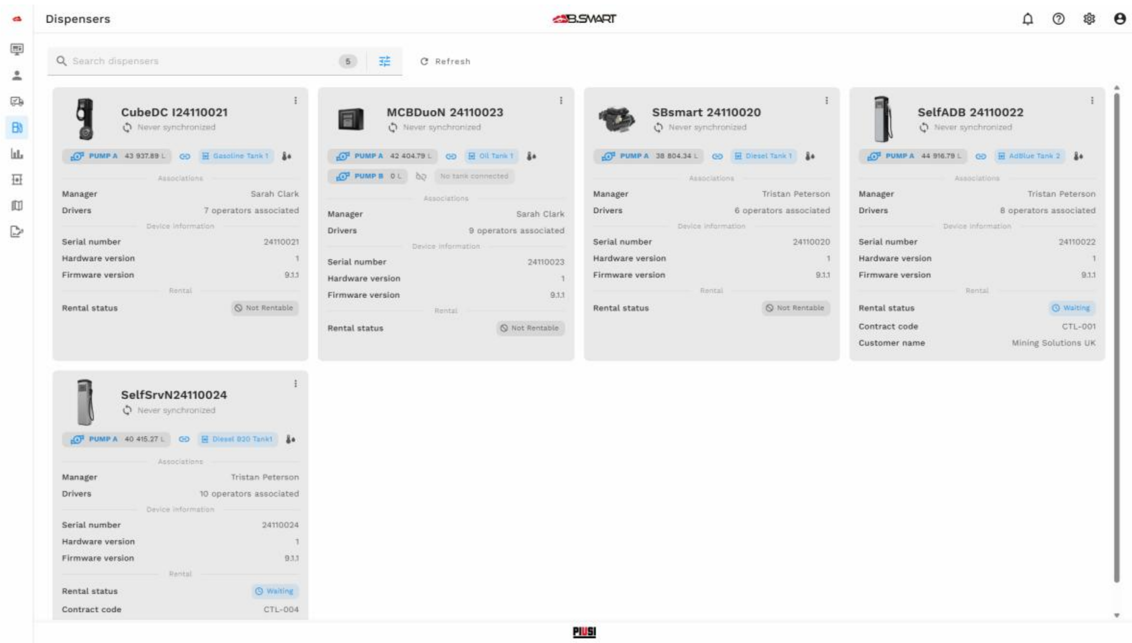
The Devices section, accessible by pressing the corresponding menu icon (see figures below), allows you to manage the devices of your system, configure the related pumps, and indicate the drivers who are authorized to dispense.

Devices icon (compact menu)

Devices icon (expanded menu)

The devices are detected by the smartphone application and cannot be added manually from the Web App.

There is no limit to the number of devices that can be added to the system.



9.1. Device registration

NOTE: the "discovery" or registration procedure is described in detail in the smartphone application manual. Refer to the app manual for more information (chap. 7.3).

Note

To register a dispenser in your B.SMART system, it is necessary to create at least one operator with the "Manager" role (*see chap. 6.2.1*) and log in to the smartphone app with their pin code.

To add a device to your B.SMART site, you need to:

- Log in to the smartphone app using the pin code of an operator with the "Manager" role;
- Connect to the desired device;
- Start the registration procedure.

Once the device registration in your system is complete, you will be able to find the device in the "Devices" section. The system will automatically associate the added device with the "Manager" operator who performed the registration.

Warning!

The automatic manager-device association feature is available from version 2.2.0 of the smartphone application.

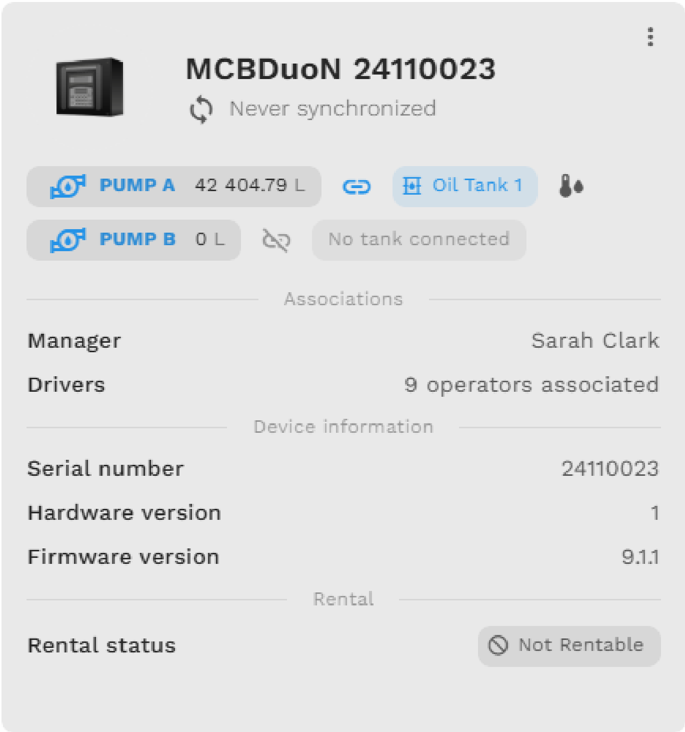
That is, after discovering a device with an application version lower than 2.2.0, it will be necessary to manually associate the desired "Manager" operator to the device *(see chap. 9.3.1for more information).*

In summary:

- If the administrator of the B.SMART site has **no** operators with the Manager role in the system, they must create at least one in order to register devices in the site via the smartphone app

- If the administrator of the B.SMART site **already has** an operator with the Manager role in the system, they can use that manager's credentials (pin code, site code) to register devices in the site via the smartphone app

9.2. Information



The main personal data of a device can be viewed directly from the card in the list.

The following information is also shown on the card:

- **Control unit manager**

  The operator with the "Manager" role currently associated with the control unit

- **Number of associated drivers**
- **Panel serial number**

  Unique identifier of the panel.

- **Hardware version**
- **Firmware version**

  The panel firmware may be subject to changes and improvements over time; if a new firmware version is available, a notification will appear at the top right (*see paragraph 9.2.3*).
  To update the column firmware, you need to use the smartphone application and authenticate as a manager.
- **Additional information** regarding the gun and the RFID receiver, only for B.SMART device models equipped with an RFID receiver:
  - RFID receiver serial number
  - RFID gun serial number
  - Remaining battery charge percentage of the gun

- **Rental information**

  NOTE: this information will only be available if the MasterSite add-on is active.

  This information includes: rental status, associated contract code, customer name.

To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

9.2.1. Alarms

If alarms have been triggered on the device, the button will appear at the top right of the card. Press it to view the list of alarms.

If the Tank Watchdog add-on is present, alarms related to the tank and connected sensors will be displayed.

If the add-on is not present, only alarms related to clean contacts will be displayed.

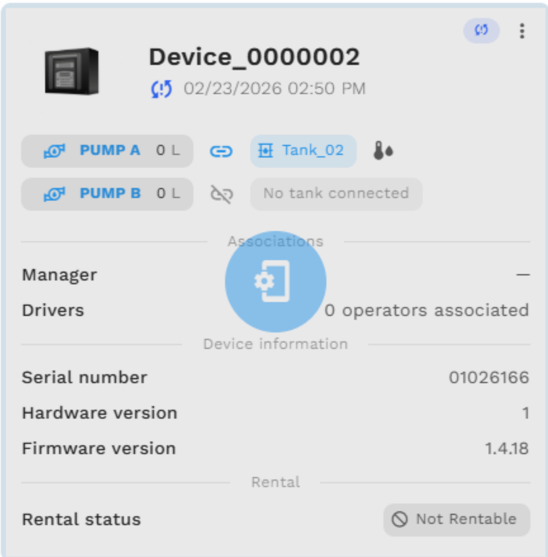
In both cases, any alarms due to device malfunctions will be displayed.

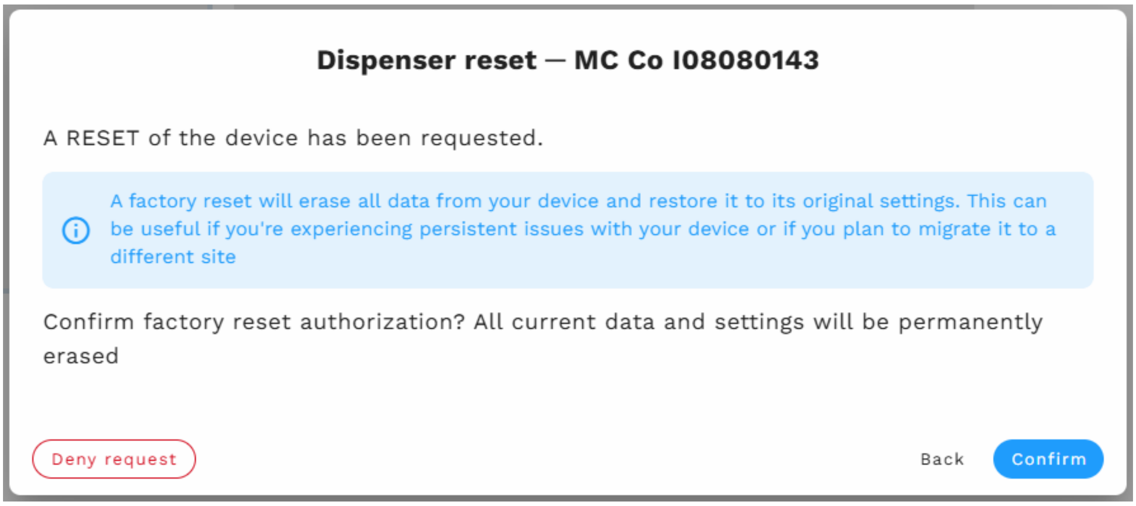
9.2.2. Reset request

You can initiate a dispenser reset request from the smartphone App. If a reset request is in progress, the device card will have a blue border and an icon in the center indicating the special status of "reset in progress."

In this state, it is not possible to make changes to the device configuration. To resume using the device, complete the reset procedure using the mobile application.

By clicking on the device in question, a modal will open with the guided reset procedure.

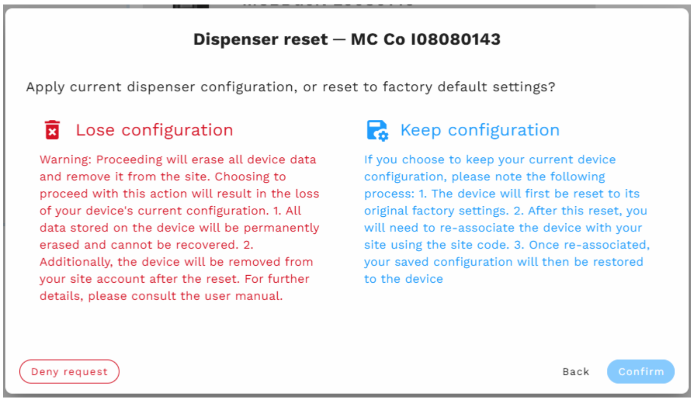




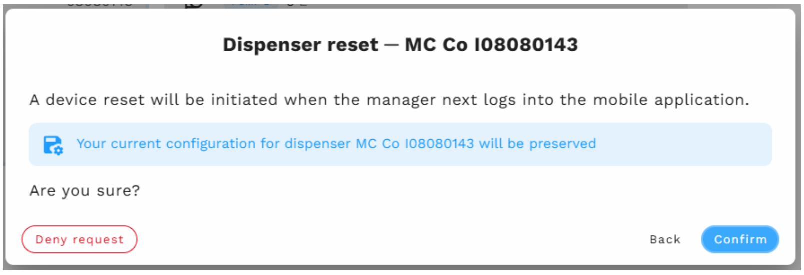
By clicking the button on the left Deny request the reset request will be denied. You will need to make a new request from the smartphone App (*refer to the B.SMART smartphone app manual on how to request a device reset*).

By pressing the confirm button, a new screen will open where you can choose whether to delete or keep the device configuration after the reset.

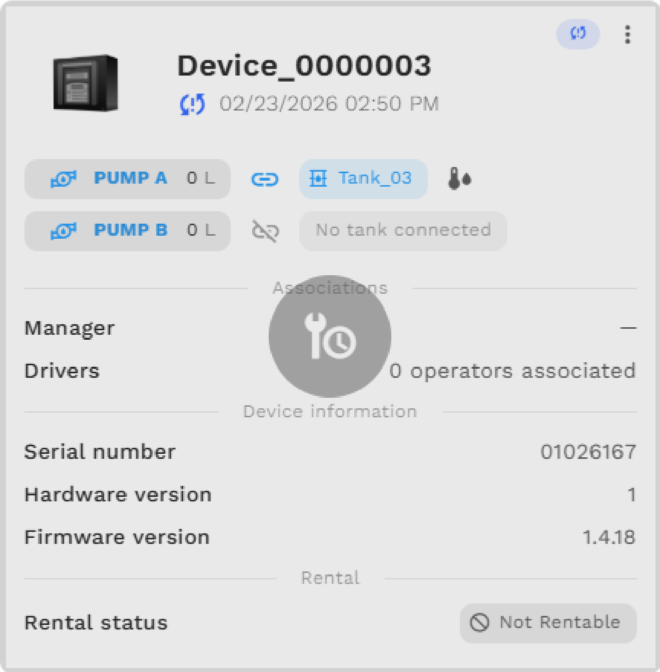
By pressing one of the two options, it will remain highlighted. To proceed, you need to click the "Confirm" button.



Regardless of the selected option, by pressing "Confirm" a warning will appear asking for final confirmation before continuing and allowing you to review the previously selected option. Once this final warning is accepted, the actual device reset procedure will start.



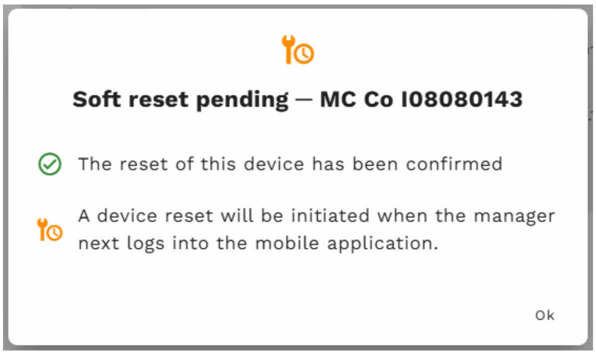
Once the reset procedure is completed from the Web App, the device will display the following icon on the card:



Even in this state, it is not possible to make changes to the device configuration.

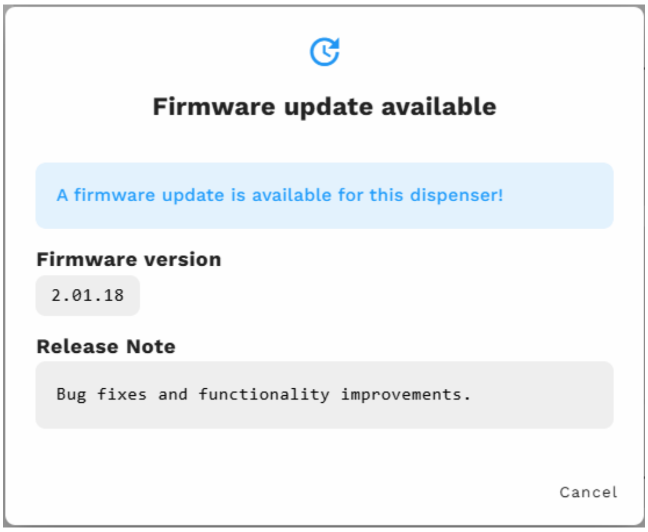
By clicking on the card, a modal will appear describing the status of the device reset

After completing the reset procedure using the mobile application, in the case of a reset with "loss of configurations," the device will be removed from the system.



9.2.3. Availability of updates

If an update is available, a badge will appear next to the "Firmware version" entry: Firmware version New!. Additionally, the icon will appear at the top right, indicating the availability of firmware updates. By pressing this button, a modal will open with the firmware update description.

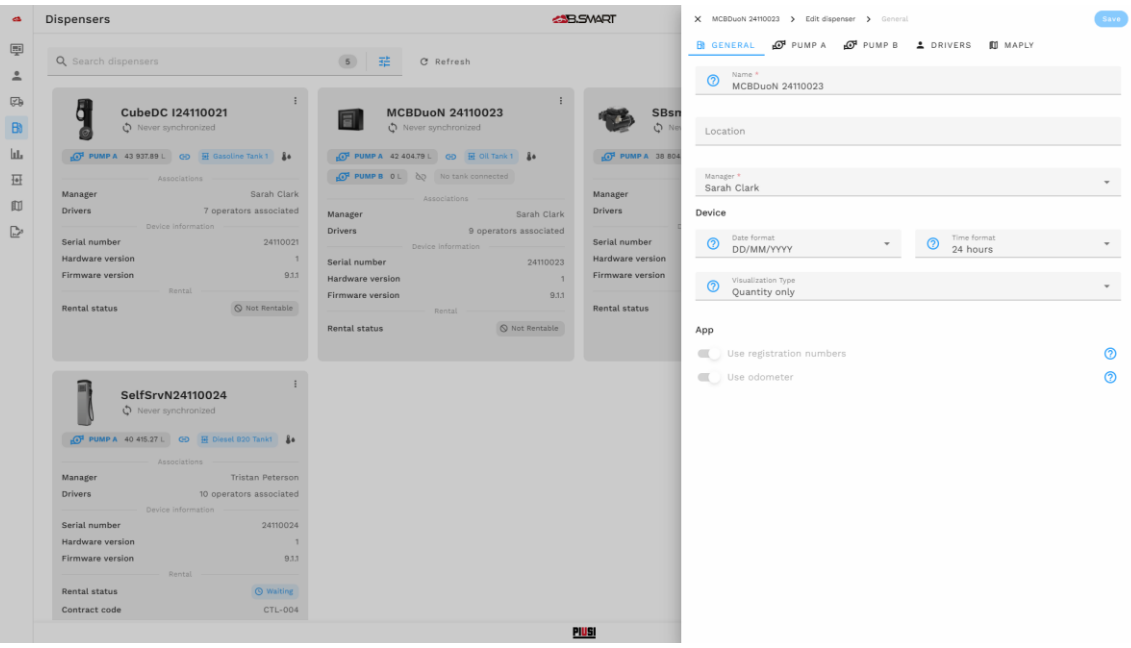


9.2.4. Drivers associated with the device

The icon 3 indicates the number of drivers who are authorized to dispense from the pumps connected to this device. The badge is gray if there are no drivers connected (and the number shown is 0). Alternatively, if there are associated drivers, the badge will become colored and show the number of associated drivers.

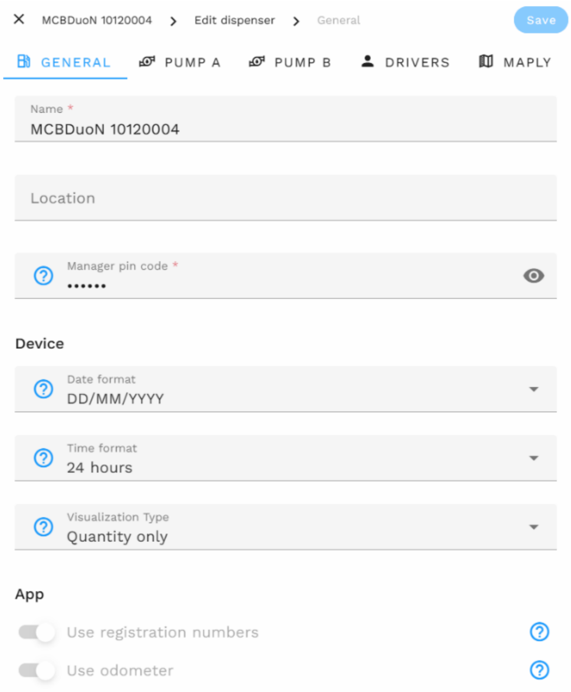
9.3. Edit

To edit a device, press its card. A panel will open on the right with fields already pre-filled with the device data.



The fields are grouped and divided into tabs (or sections) according to the topic.

9.3.1. GENERAL information section



From this screen, you can edit the main configuration of the device, in particular:

- **Device name**
  Unique identification code for the device within the system.
- **Location**

  Place where the column is located.
- **Manager**

  The operator with the "Manager" role who can access this device. Replaces the previous "Pin code manager" field. The pin code information is now encapsulated in the Manager operator assigned to the device (see Operators section).

- **Date format**

  Format of the date displayed on the device screen.

- **Time format**

  Format of the time displayed on the device screen.

- **Use registration numbers**

  Indicates whether the management of registration numbers is active. If active, before dispensing, the mobile application requires you to enter a registration number.

- **Use odometer**

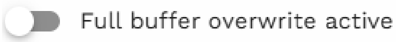
  Indicates whether odometer management is active. If the registration numbers represent vehicles to be refueled, it is possible to specify the vehicle's odometer before dispensing.

  NOTE: This option is only available if the "Use registration numbers" option is active.

- **Display type**

  Indicates which information to display on the device screen when it is inactive. The available options are: "date and time", "total dispensed quantity", "Date and time alternating with total dispensed quantity".

- **Buffer overwrite**

  Behavior that the device must follow when the internal dispensing storage space runs out (only for PIUSI 3000 Supreme columns):

  - **Disabled**

    Blocking behavior: once the space dedicated to saving dispensings inside the device is exhausted, no new dispensings can be performed until the information is synchronized to the cloud;

  - **Enabled**

    Overwritable behavior: once the space dedicated to saving dispensings inside the device is exhausted, with each new dispensing performed, the oldest dispensing in memory will be overwritten.

- **Enable RFID receiver**

  By enabling this feature, the device will be able to recognize the vehicle to be refueled by reading an RFID TAG (using the appropriate gun).
  Furthermore, if protected dispensing is enabled (in the vehicle configurations), the system will prevent fluid dispensing outside the vehicle's tank.

  This function is available only for specific B.SMART devices equipped with the appropriate RFID receiver.
  Warning: AdBlue fluid is not compatible with the RFID receiver option.

Note

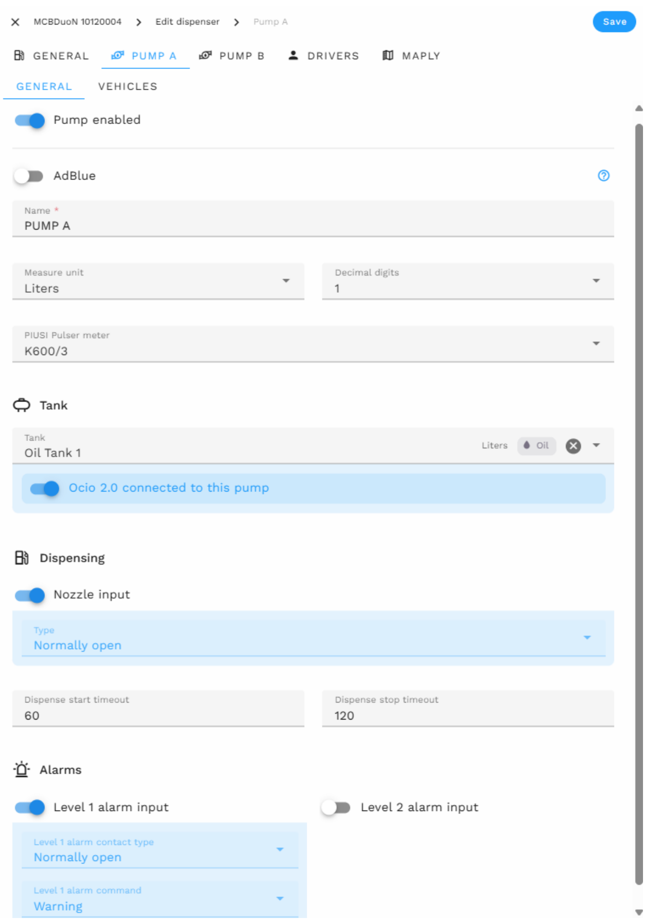
If the Fuel Economy add-on is active, the options “Use registration number” and “Use odometer” are automatically enabled on all control units of the system and cannot be disabled as long as the add-on remains active.

9.3.2. PUMPS section

From this screen, you can modify the configurations of the pumps connected to the device.

This section is divided into two subsections: “general information” and “vehicle association”. This last screen appears only if the *“Enable pump-vehicle association”* setting of the Fuel Economy add-on is enabled.

9.3.2.1. GENERAL information section



- **Pump enable/disable**

  Switch to enable or disable the pump. When the pump is disabled, refueling cannot be performed.

- **AdBlue**

  NOTE: this field is available only if the Fuel Economy add-on is active

  Switch to indicate whether the selected pump dispenses the AdBlue product.
  Warning: AdBlue fluid is not compatible with the RFID receiver option.

- **Name**

  Unique identification code for the pump.

- **Unit of measurement**

  Unit of measurement with which the liquid is dispensed.

- **Number of decimals**

  Number of digits to display on the column display after the decimal separator.

- **PIUSI Pulser flow meter**

  Type of flow meter with which the pump is equipped. You can customize the value of the single pulse by setting the flow meter type to *Custom.*

- **Connected tank**

In the event that the Tank Watchdog add-on has been activated, it is possible to connect a tank to the pump.

No.B:

- To manage the tanks, the device firmware must be updated to version 1.4.0 or higher.
- In the case of virtual tanks, any modification related to the tank or its association with a dispenser requires a correction to be completed (via smartphone app with manager access) before performing any refueling operation.

- **Tank manager**

  If the tank is monitored by a level sensor, indicates whether the level sensor is physically connected to the contacts of this pump.

  If the tank is virtual, indicates whether the tank information resides in the memory dedicated to this pump (see section “Tank sharing” below).

- **Nozzle contact**

  Indicates the presence of the nozzle contact.

- **Nozzle contact type**

  Indicates whether the nozzle contact is managed as normally open or closed.

- **Dispensing start timeout**

  Number of seconds that elapse from when the dispensing operation is started, by physically moving the nozzle from the starting position, to when the nozzle trigger is pressed, in order to dispense the fluid. If the nozzle trigger is not released within these seconds, the dispensing operation is canceled.

- **Dispensing end timeout**

  Number of seconds that elapse from when the nozzle trigger is closed, and therefore cannot dispense, to when it is returned to the resting position. If the nozzle trigger is not pressed within these seconds, dispensing is automatically stopped.

- **Level 1 alarm input**

  Enable/disable alarm input number 1.

- **Alarm 1 contact type**

  Indicates whether alarm number 1 should trigger when the contact is normally open or normally closed.

- **Level 1 alarm**

Indicates the behavior of the device in case of activation of alarm number 1:

- *Warning*: a warning message is shown on the mobile application indicating that alarm number 1 has been triggered; in this mode, the pump is not blocked and it is still possible to dispense.
- *Pump Block*: the pump is blocked and it is no longer possible to dispense in any way until alarm number 1 is cleared.

- **Level 2 alarm input**

  Enable/disable alarm input number 2.

- **Alarm 2 contact type**

  Indicates whether alarm number 2 should trigger when the contact is normally open or normally closed.

- **Level 2 alarm**

  Indicates the behavior of the device in case of activation of alarm number 2:

  - *Warning*
  - *Pump Block*

Tank sharing

It is possible to share the same tank across multiple dispensers.

If the dispensers sharing the tank belong to different devices, it is necessary to install a CANBUS communication network between the devices. Refer to the device manual for further information.

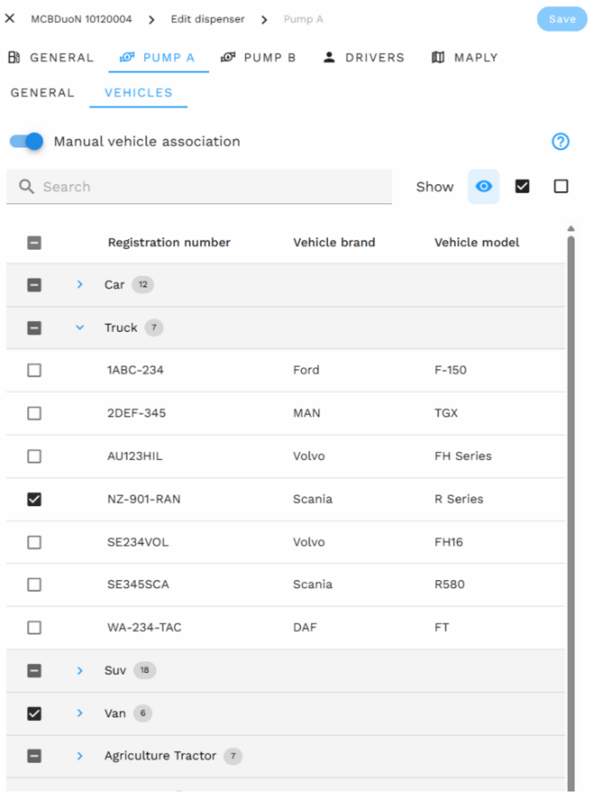
When a tank is shared, it is always necessary to specify which dispenser has the role of *tank manager*. (whether the tank is monitored by a sensor or is a virtual tank)

NB: If a configuration related to a tank is changed, it is necessary to synchronize it on the *manager* before dispensing from all other pumps sharing the tank.

To synchronize the configuration, simply connect with the App while having an internet connection.

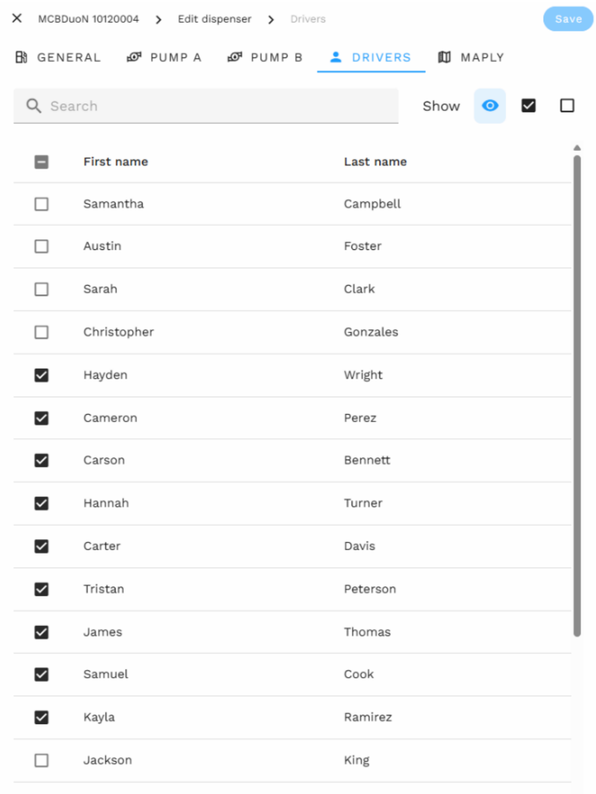
9.3.2.2. VEHICLE association section

NOTE: this section is available only if the Fuel Economy add-on is active and if the option "Enable vehicle association on dispenser" is enabled from the "Settings/Add-on/Fuel Economy" section (see chapter 14.4.1).



From this screen you can specify which vehicles to associate with the device's pump. Only associated vehicles can refuel from that pump. A single vehicle can be associated with multiple pumps of different devices in the system; there are no limits on the number of vehicles that can be associated with a single pump.

9.3.3. DRIVERS section



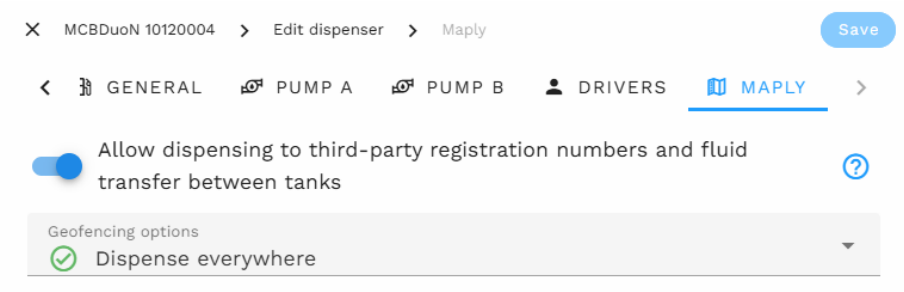
From this screen you can specify which drivers to associate with the dispenser. Only associated drivers can authenticate at the dispenser (via mobile application or iButton) to dispense. A single driver can be associated with multiple dispensers in the system.

Note

A maximum of 500 drivers can be associated with a single device.

9.3.4. MAPLY section

NOTE: this section is available only if the Maply add-on is active



- **Enable transfers and dispensing to registration numbers. Third parties**

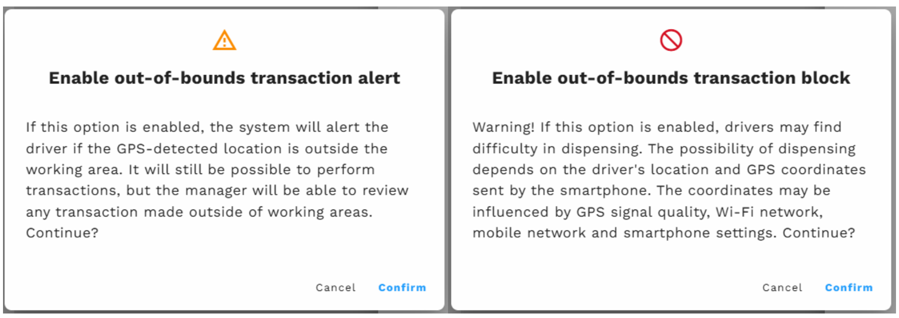
  NOTE: this field is available only if the Tank Watchdog add-on is active

  If the function is enabled, all drivers who connect to this control unit can dispense for third-party registration numbers and can also automatically manage product transfers between tanks within the system.

- **Dispensing management**

  This setting specifies how dispensing is managed based on the GPS position of the dispenser; the possible configurations are as follows:
  - *Dispense anywhere*: dispensing from the dispenser can be started in any geographic location; no limitation is applied;
  - *Notify dispensing outside operating areas*: dispensing from the dispenser can be started in any geographic location, but the driver will be notified if dispensing is started outside the operating areas. If the driver proceeds with dispensing while ignoring the warning received, the dispensing report will notify the system manager that such dispensing was carried out in a location where dispensing is not allowed.
  - *Block dispensing outside operating areas*: drivers can dispense from the device only if it is located within one of the operating areas. The limit allows operation in all existing operating areas in the system.

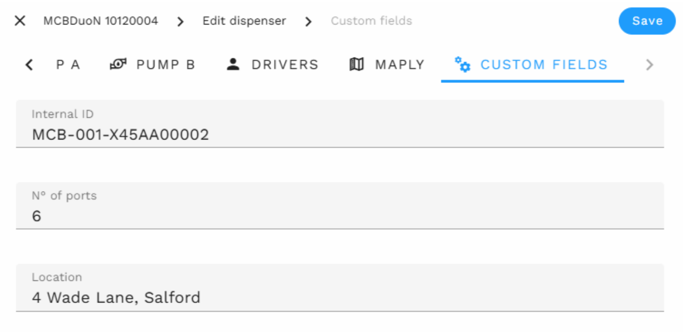
NOTE: when changing the dispensing management setting, one of the two warnings shown below will be displayed, depending on whether you are switching to "notify" or "block" mode respectively.



9.3.5. CUSTOM FIELDS section

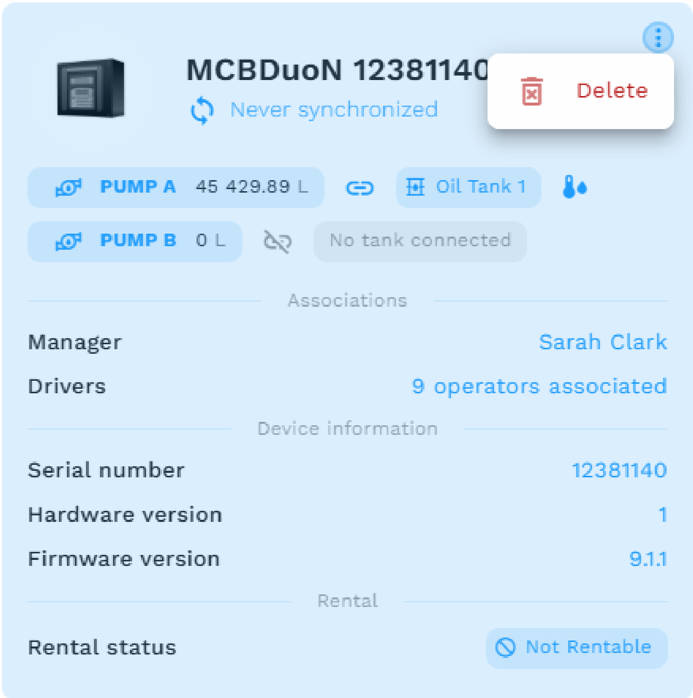
NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for drivers (see chapter 14.2.1).

This section allows you to enter custom fields on the device being created.



9.4. Management operations

By clicking on the three dots at the top right of a device's card, the actions that can be performed on it will appear.



Note

Devices of the "Supreme" type will not have a delete button, so they cannot be deleted directly. It will be necessary to perform the reset procedure (*see chapter* 9.2.2)

9.4.1. Delete

By pressing "Delete" the device will be removed from the system. Confirmation will be requested before performing a deletion.

Warning!

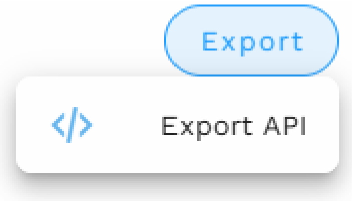
By deleting a device, all configuration data will be lost.

- The deletion operation should only be used if it is necessary to move the charging station to a different system (see the smartphone application manual for more details).

Note

Deleted devices can be viewed by selecting the "Deleted" button among the advanced device filter statuses (see *chapter 5.1 for more details*).

9.5. Export



Devices can only be exported in one way: API.

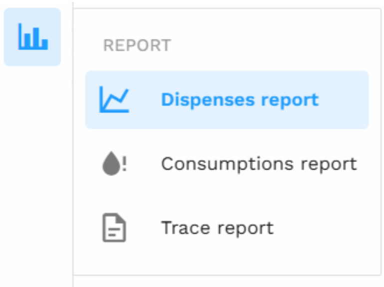
By clicking the "API Export" option, you will be redirected to the export API documentation for devices.

Note

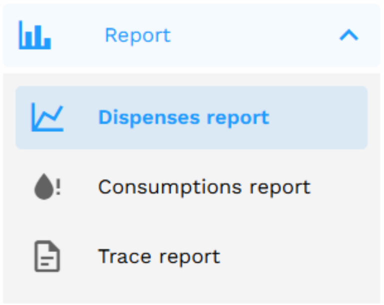
The "Export via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

10. REPORT

In the REPORT section, accessible by pressing the menu icon shown below, you can view the history of deliveries made within the system, consumption by vehicle or driver, and manage the tracking report.



Report Icon (compact menu), with submenu icons.

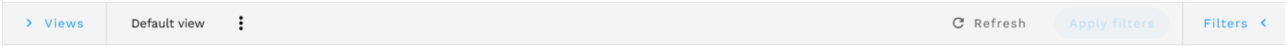


Report Icon (expanded menu), with submenu items.

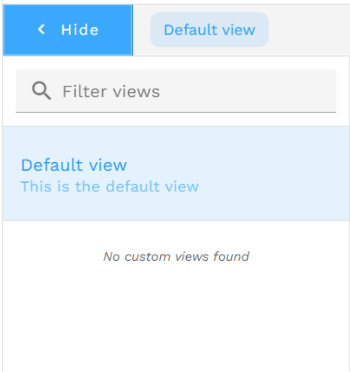
10.1. Views

The reporting pages will have a top bar for managing views (see image below).

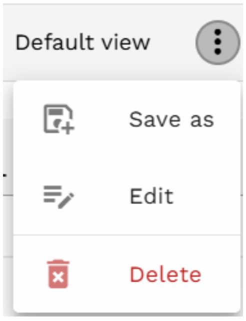
Views are filter configurations that can be saved and recalled by the user for more effective data visualization.



The views bar is composed as follows:



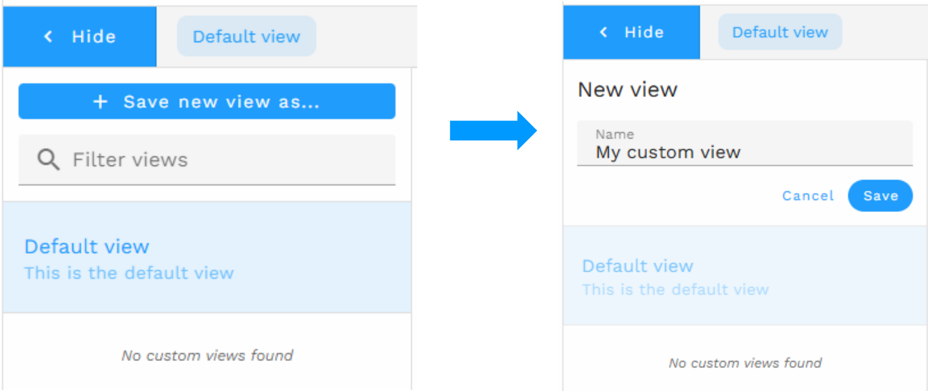
- **"Views" button**:
  By pressing this button, a panel will open on the left containing the list of currently saved views.
  If no view has been saved yet, the only item in the list will be the "Default View".
  In this section, you can filter the available views by name
- **View name**:
  This indicator of the currently selected view name is clickable. By clicking on the name, the left panel containing the saved views will open.

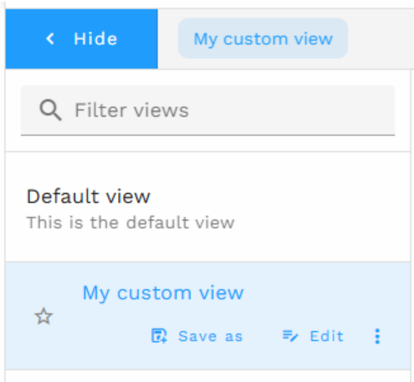


- **Options**:
  The options, accessible by pressing the three dots, allow you to save a new view based on the current one, edit the view, or delete the view.
- **Refresh**:
  The refresh button (Refresh), once pressed, will update the data on the page without reloading the page.
- **Apply filters**:
  The apply filters button will be clickable if and only if the filters have changed compared to the previously applied filters. If there is an applicable change, the button will become solid and colored: Apply filters.
  NOTE: applying filters does not save them, but only applies them and updates the data using the currently selected filters.
- **Filters**:
  By pressing this button, a panel will open on the right containing the actual filters that can be applied to the data.

10.1.1. Creating a view

Once any filter has been modified, a save button will appear inside the left container of the views. By clicking this button, it will turn into a field where you can enter the name of the view to be created, as shown below.





Once the name is entered, simply click the "Save" button to create a new view.

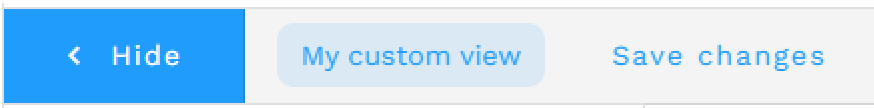
Once a new view is created, it will appear in the list of views of the current reporting.

It will then be possible to select it to apply its filters to the reporting page or perform a variety of actions on it, as described in chapter 10.1.3.

Each user of the system can create personalized display templates that will remain stored in their account even if they log out from the Web App.

10.1.2. Editing a view

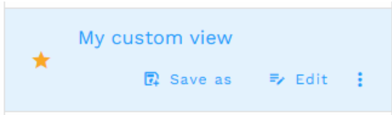
Once any filter is modified with a previously saved view selected, the "Save changes" button will appear next to the view name.



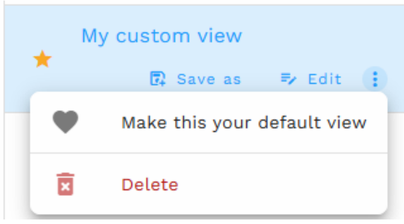
By clicking the save changes button, the view will be saved with the currently set filters.

10.1.3. Operations on views

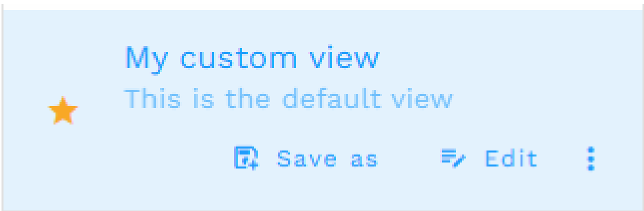
On each view, it is possible to perform various operations:

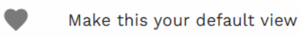


- **Set as favorite**:
  To set a view as favorite, click the star icon on the left. The list of views will be sorted based on the "favorite" status: favorites will appear at the top of the list.
- **Save as**:
  With this button, you can create a new view based on the selected one. The new view will be an exact copy of the current view. It will be possible to set a name for the new copy, as specified in the previous chapter.
- **Edit**:
  Allows you to edit the name of the view
- **Additional actions**:
  By pressing the three dots icon, you can perform additional actions:
  - Set the view as default
  - Delete the view



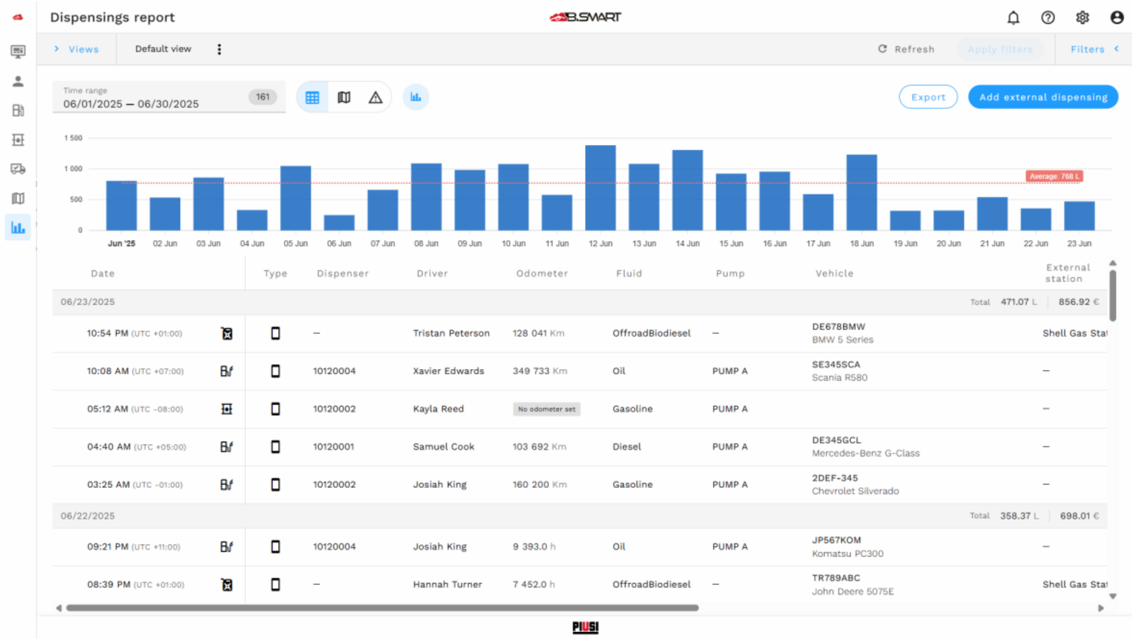
A view set as "default" will be marked with a special description below the name:



The default view will be loaded and applied every time the reporting page is reloaded. To change the default view, simply switch to a different view, click the three dots icon at the bottom right, and select the  option.

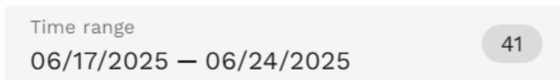
10.2. Dispensing report

On this page, the table of dispensings carried out in the facility is shown.



This is a reporting page, so it will have its own views section *(see chap. 10.1for a detailed explanation)*.

At the top left, there is a selection field for the time period. This will be the time period in which the data will be searched and displayed.



Next to the time search field, there is a button selector for changing the view *(see chap. 10.2.1for a detailed explanation)*.

Finally, the last button on the left side  , which will appear only if a chart is provided in the current view, allows you to show or hide the chart to save space in case of smaller screens or if you want to temporarily give more space to tabular data.

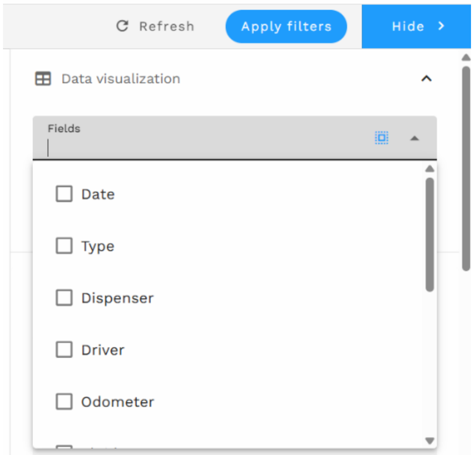
10.2.1. Display modes

10.2.1.1. Table

The tabular display mode, selectable by clicking the button with the table icon, is the classic table view of the dispensings carried out. It is accompanied by a chart that can be temporarily hidden.

You can select the columns you want, using the filter called "Fields", accessible within the "Filters" section of the views bar.

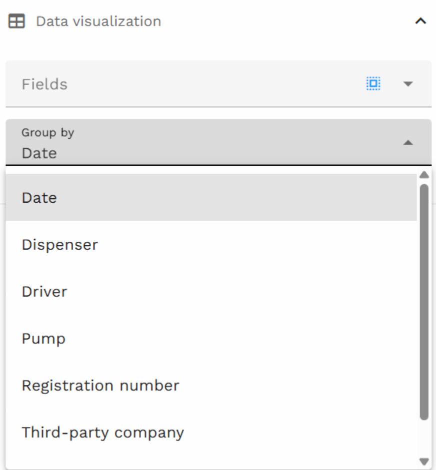
Clicking on the field opens a multi-selection dropdown that allows you to select one or more fields (or columns).



Note

- If you do not select any value from the field described above, all fields (or columns) will be shown in the table
- The selected fields affect the table and the file exported in PDF format. **They** will not affect the file exported in Excel.

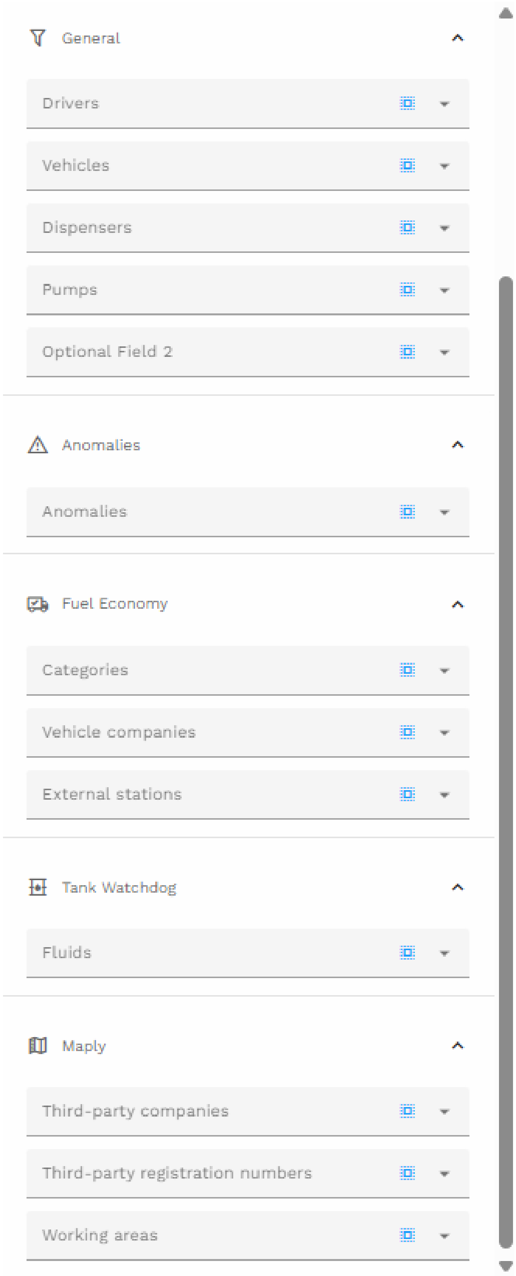
There is also a second field "group by", which is used to change the grouping of the data. By selecting a field (or column), the data in the table and in the file exported in PDF will be grouped by the selected field. By default, the dispensing data is grouped by date.



Filters

The filters available on the dispensing report page are as follows, separated by topic:

General



- **Drivers**
- **Vehicles**
- **Devices**
- **Pumps**
- **Optional field 2**

  Warning: this field appears only if the "Enable optional fields" setting is active.

Anomalies

- **Anomalies**

  You can choose one or more of the following anomalies:
  - Power interruption
  - Dispensing outside the area of operation

Fuel Economy *(visible only if the Fuel Economy add-on is active)*

- **Categories**
- **Vehicle brands**
- **External stations**

Tank Watchdog *(visible only if the Tank Watchdog add-on is active)*

- **Fluids**

Maply *(visible only if the Maply add-on is active)*

- **Third-party companies**
- **Third-party registration numbers**
- **Areas of operation**

Detail of a dispensing

The following information is shown in the row of a single dispensing:

- **Status icon**

  Indicates whether the dispensing was completed successfully or if a problem occurred during refueling:

  The presence of the symbol ⚠ at the beginning of the row indicates that an anomaly occurred during dispensing. The possible anomalies are:

  - Incorrect date

    All dispensing operations carried out in this abnormal condition show an incorrect or invalid value in the date field.
    See chapter 10.2.1.3 for more information.

  - Power supply interruption

    Due to a power supply problem during dispensing, the dispensing was interrupted by the sudden shutdown of the device.

  - Communication error with the level sensor or OCIO 2.0

    The device is unable to communicate with the level sensor. To resolve the problem, it is necessary to check the connections and the device configuration.

- **Type of authentication**

  Indicates how the driver authenticated at the terminal:

  Access was performed using an iButton key

  Access was performed using the smartphone application

  Access was performed using the keypad (terminal)

- **Date and time**

  The date and time (shown according to the terminal's time zone) when the dispensing was performed.

- **Type of dispensing**

  Indicates whether the dispensing is a calibration or a refueling:

  Refueling dispensing to a vehicle

  Refueling to a third-party company

  Fluid transfer from one tank to another

  Calibration dispensing

External dispensing entered into the B.SMART system via smartphone App or Web App.

- **Dispensing protection**

  If the dispensing is protected by TAG, the icon will appear next to the dispensing type icon.

- **Device**

  Name of the terminal from which the dispensing was performed.

- **Driver**

  Name of the driver who performed the operation.

- **Optional field 1**

  Value entered by the mobile application for optional field 1.

  NOTE: this column is visible only if the system preference "Enable optional fields" is active.

  Optional field 2

  Value entered by the mobile application for optional field 2.

  NOTE: this column is visible only if the system preference "Enable optional fields" is active.

- **Calibration factor**

  Calibration factor of the device at the time of dispensing.

- **Odometer**

  Entered odometer value.

  NOTE: this column is visible only if the device is enabled for odometer management.

- **Pump**

  Name of the pump used for dispensing.

- **Quantity**

  Dispensed quantity shown in the unit of measurement chosen in the configuration section (*see chapter 14.1.1*).

- **Refilled tank**

  Indicates the tank into which the dispensed fluid was transferred.

  NOTE: this column is visible only if both the Tank Watchdog and Maply add-ons are active.

  Coordinates

The GPS position of the phone at the time of dispensing.

NOTE: this column is visible only if the Maply add-on is active.

- **Operating area**

  Name of the area where the phone was located at the time of dispensing.

  NOTE: this column is visible only if the Maply add-on is active.

- **Company**

  Third-party company for which the dispensing was carried out

  NOTE: this column is visible only if the Maply add-on is active.

- **Registration number**

  Registration number entered at the time of dispensing.

- **Fluid**

  Dispensed fluid

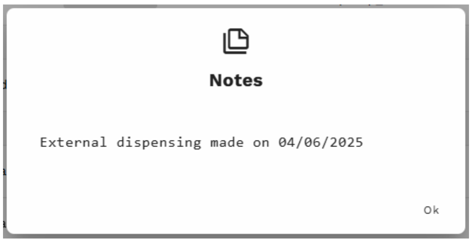
  NOTE: this column is visible only if the Tank Watchdog add-on is active.

Actions on dispensings

Several actions can be performed on dispensings, which will appear when hovering the mouse at the end of each row, in order:

- **Show note**

  NOTE: this option appears only if the dispensing is external.
  Once this option is clicked, a modal opens containing the text of the external dispensing note (if present).



- **View dispensing photo**

  NOTE: this option appears only if the dispensing has at least one associated photo.
  Once this option is clicked, a modal opens containing the photo(s) associated with the dispensing.

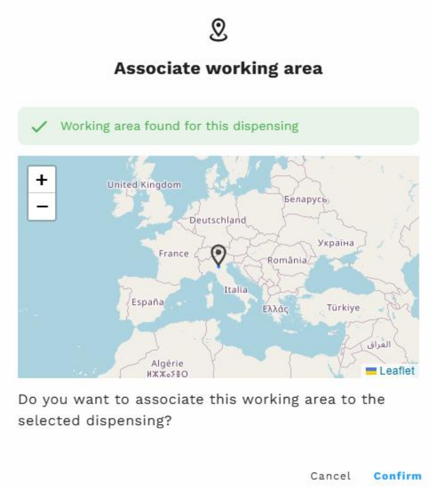
- **View odometer photo**

  NOTE: this option appears only if an odometer photo was taken during dispensing.
  Once this option is clicked, a modal opens containing the odometer photo.

- **Print receipt**

  NOTE: this option appears only if the dispensing has an associated receipt.
  By clicking this option, the PDF of the receipt associated with the dispensing will be downloaded.

- **Associate operating area**



  NOTE: this option appears only if the Maply add-on is active and not expiring and if no operating area is associated with the dispensing.
  By clicking this option, a modal will open in which an operating area to associate will be automatically searched for (based on the dispensing coordinates).
  If an area is found, you can press the confirm button to associate the dispensing with the operating area.
  If no operating area containing the selected dispensing is found, the system will allow you to create a new operating area based on the dispensing coordinates. Once the new operating area is created, it will be automatically associated with the dispensing.

- **View on map**

  NOTE: this option appears only if the Maply add-on is active, the dispensing is not external, and the dispensing coordinates are valid.
  By clicking this option you will be redirected to the map view of the dispensings, with the current dispensing highlighted *(see chap. 10.2.1.2for more information).*

- **Edit dispensing**

  Any dispensing that is not a calibration can be modified by an administrator user.

Edit of a dispensing of refueling to a vehicle

This form allows you to modify:

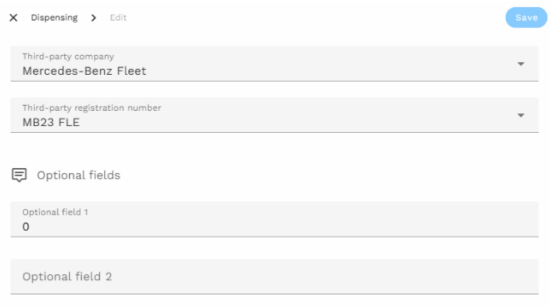
- **Registration number**
- **Odometer**, if the odometer type is not null.
- **Optional fields**, if the setting *"Enable optional fields" is active.*

If the dispensing does not have a date (or has an invalid one), an additional field will appear to set the date.

Edit of a refueling to a third-party company

NOTE: this form is available only if the Maply add-on is active.

This form allows you to modify the third-party company and third-party registration number. Furthermore, if the setting *"Enable optional fields"* is active, it is possible to modify the two optional fields.



Edit of a transfer

NOTE: this form is available only if the Maply add-on is active.

This form allows you to modify the tank linked to the transfer. Furthermore, if the setting *"Enable optional fields"* is active, it is possible to modify the two optional fields.

Warning: by making this change, a discharge movement will automatically be created on the old tank and a loading movement on the new one.

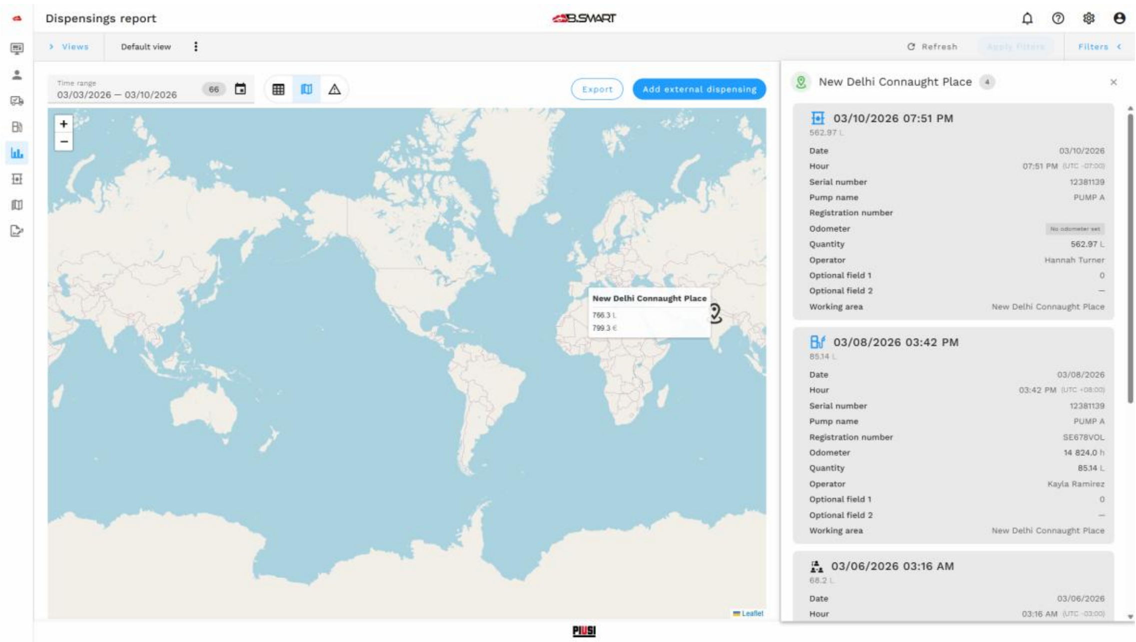
Edit of an external dispensing

This form allows you to edit the external dispensing in all its fields.

Refer to chapter 10.2.2 for the description of the fields in the add/edit external dispensing form.

10.2.1.2. Map

The map view mode, selectable by clicking the button with the map icon, displays the geolocated dispensings on the map. 



There are two different types of location identifiers on the map:

Identifies a single dispensing that is not within any area. This location indicator appears yellow if on the column the option *"Dispensing management"* is set to "Report dispensings outside the areas of operation" (*see chapter 9.3.4*) and the column during dispensing was in a position where dispensing was not allowed.

Identifies an area of operation, which groups all the dispensings that have been carried out within that area.

If there are many location indicators in a small portion of the map, they will be automatically grouped . The number inside the circular icon represents the number of grouped indicators. Clicking on the icon will zoom in on the map to "open" the grouping and show the individual indicators.

Clicking on a single indicator will open a panel on the right containing the details of the dispensing if the indicator represents a single dispensing, otherwise the details of all dispensings carried out in the area.

Type of location indicator (single or area)

Name of the location indicator

Number of dispensings in the selected location

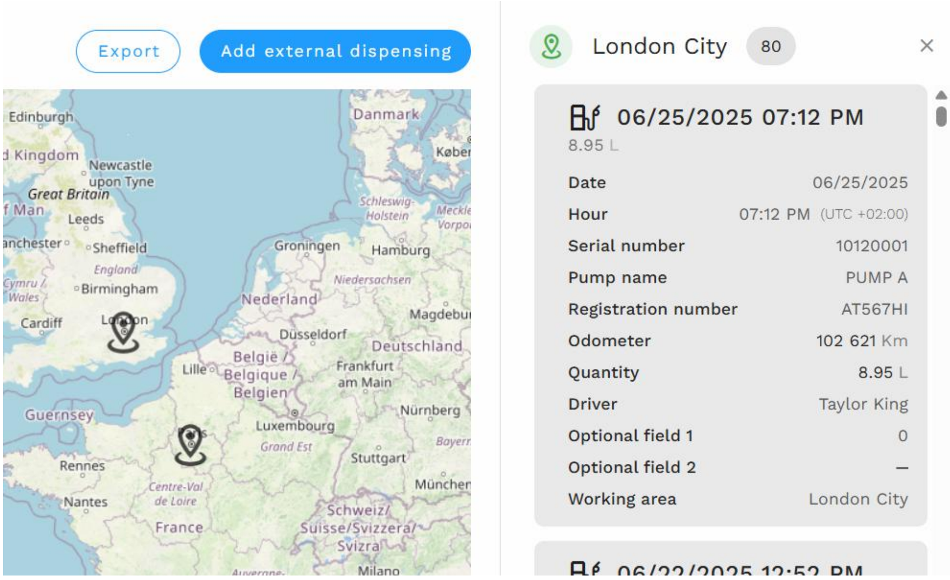
Details button

close

Date and time of dispensing

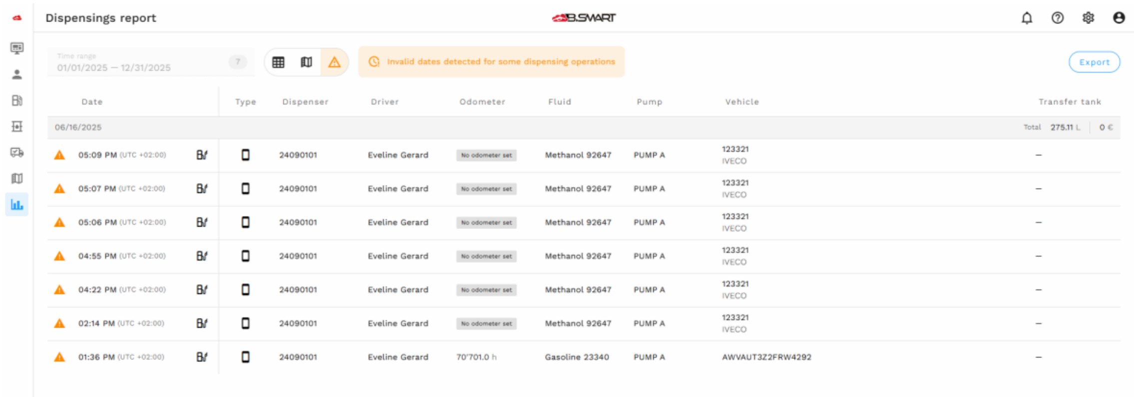
Icon representing the type of dispensing (see

Dispensed



10.2.1.3. Anomalies

The anomaly view mode, selectable by clicking the button with the warning icon, is a filter on the dispensing table that shows only those with a date anomaly.



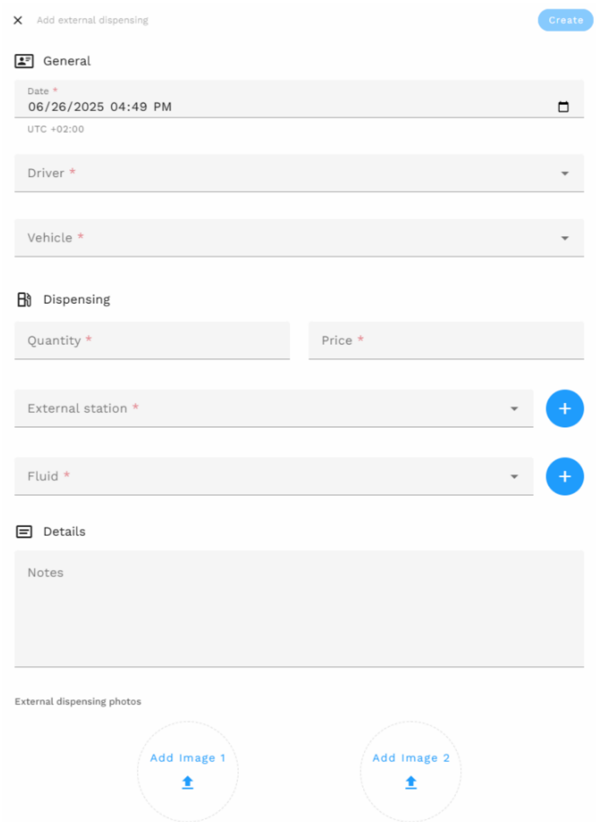
These dispensings can be edited using the edit action as in the table view. Once this button is pressed, an edit panel will open on the right with the same fields described in the previous chapter (item *Edit dispensing*).

Since these dispensings have no date, the date edit field will always be present (*see previous chapter*).

10.2.2. Add external dispensing

NOTE: this section is only available if the Fuel Economy add-on is active

You can add an external dispensing by pressing the Add external dispense button. The form for entering a new external dispensing will open, composed as follows:



- **Date**

  Date and time when the dispensing was carried out.
  Warning: it is not possible to enter a dispensing with a future date.

- **Vehicle**

  Indicate the vehicle that performed the dispensing.

- **External station**

  NOTE: this field is available only if the "External Stations" option of the Fuel Economy add-on is active

  The service station from which the dispensing was carried out.
  You can add an external station directly from this form by pressing the button + (*see chapter 8.4.2 for a detailed description of how to add a new external station*).

- **Dispensed quantity**
- **Cost**

  Indicate the total cost of the dispensing.

- **Fluid**

  NOTE: this field is available only if the Tank Watchdog add-on is active

  The fluid with which the vehicle was refueled.
  You can add a fluid directly from this form by pressing the button + (*see chapter 11.3.2 for a detailed description of how to add a new fluid*).

- **AdBlue refueling**

  Indicate if an AdBlue refueling was performed.

  NOTE: this button will appear only if Fuel Economy (and consequently AdBlue management) is active on the selected vehicle.

- **Odometer**

  Indicate the vehicle's odometer at the date of dispensing.
  Warning: for correct consumption calculation, it is not recommended to enter an odometer value lower than the last odometer value entered for the selected vehicle (in this case, the consumption will be calculated as 0).

- **Notes**

  Enter a text note to provide more information regarding the dispensing carried out outside the facility.

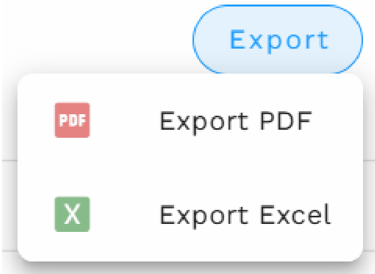
- **Images of the external dispensing**

  Enter up to two images related to the external dispensing.

10.2.3. Export

By clicking the export button, a drop-down menu will open from which you can choose between two options:

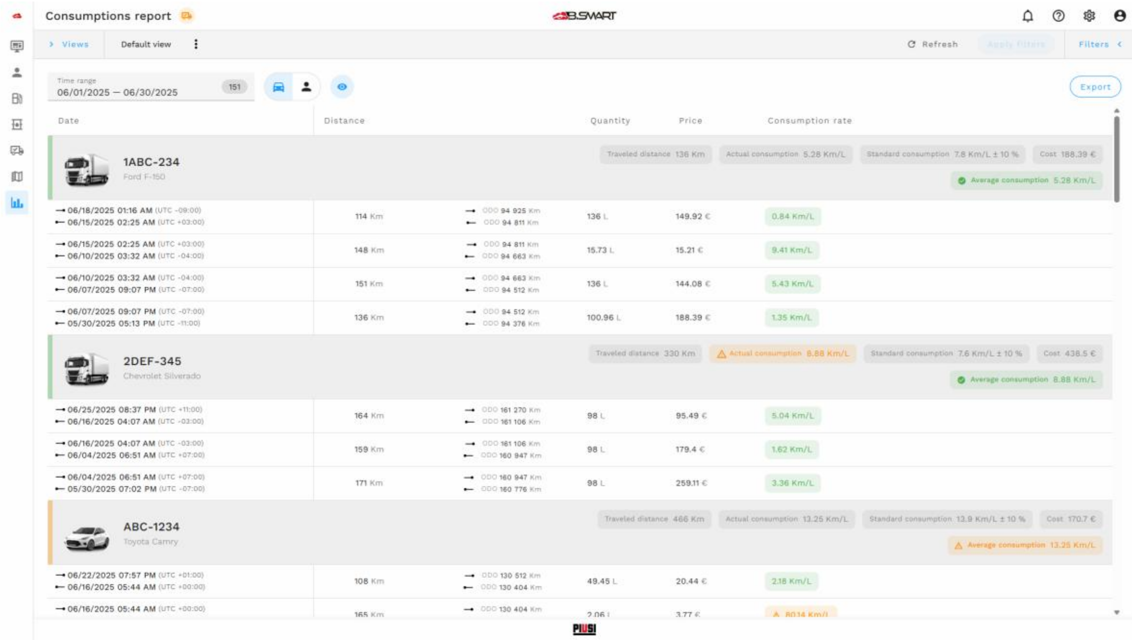
- Export of deliveries in PDF format
- Export of deliveries in Excel format



10.3. Consumption report

NOTE: this section is available only if the Fuel Economy add-on is active.

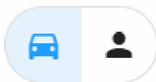
On this page, the table of vehicle consumption for the plant is shown.



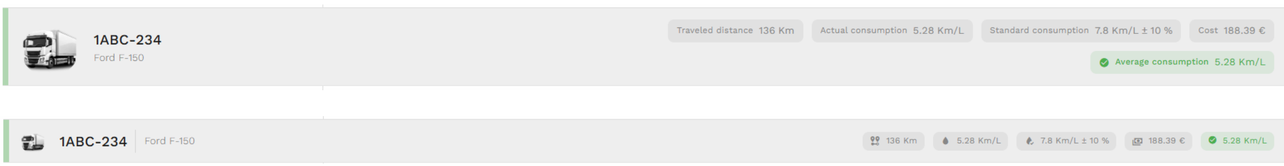
This is a reporting page, so it will have its own views section *(see chap. 10.1for a detailed explanation).*

At the top left, there is a selection field for the time period. This will be the time period in which the data will be searched and displayed.

Next to the time search field, there is a button selector for changing the view *(see chap. 10.2.1for a detailed explanation).*



Finally, the last button on the left side () allows you to change the display mode of the header information: extended or compact, as shown in the figures below.



> **Note**
>
> Consumption is calculated only for vehicles with the “Fuel Economy” function active (see *chapter 8.1.2.2*) and starting from the deliveries made **after** the activation of the aforementioned functionality.

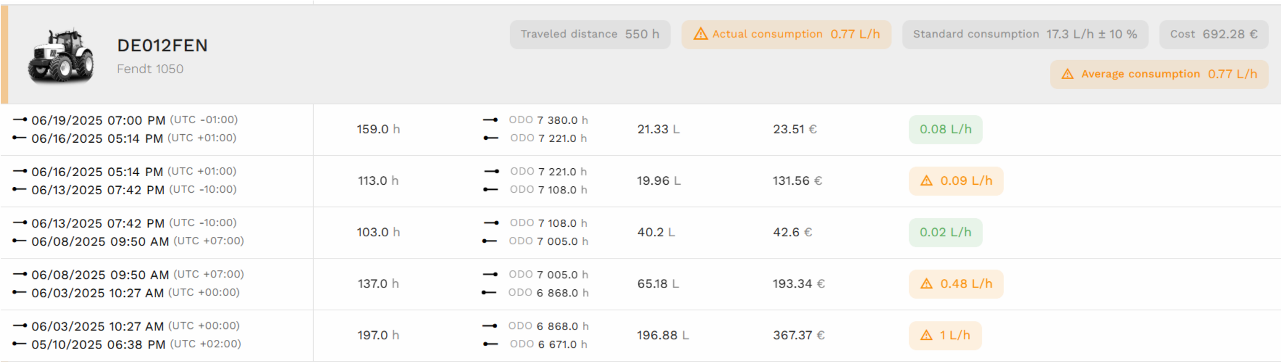
10.3.1. Logic for calculating consumption

The fuel consumption for each trip, if the odometer is expressed in kilometers or miles, is obtained by dividing the distance traveled since the last refueling by the amount of fuel dispensed. Otherwise, if the odometer is in hours, consumption is obtained by dividing the amount of fuel dispensed by the time elapsed since the last refueling.
These calculations assume that a full tank is always filled in the vehicle.

The average consumption of a vehicle is calculated as the average of the consumption of each individual trip it has made.

Example

By analyzing the consumption report shown in the following image, the vehicle has traveled five trips.

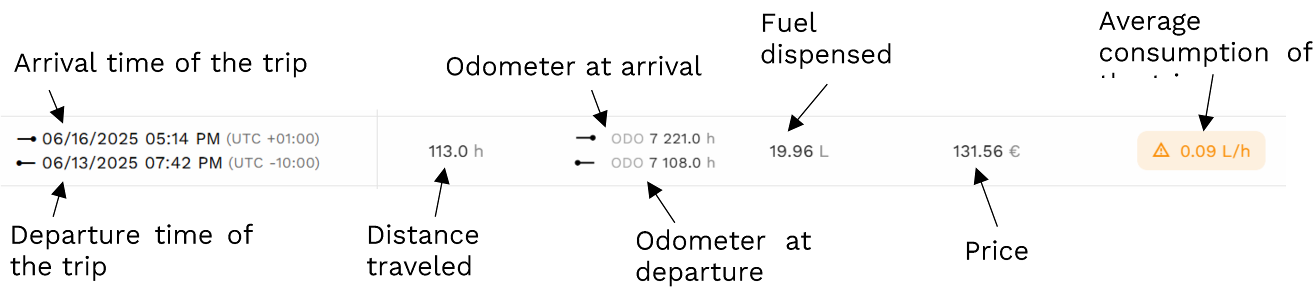


DE012FEN
Fendt 1050

Traveled distance 550 h | Actual consumption 0.77 L/h | Standard consumption 17.3 L/h ± 10 % | Cost 692.28 €
Average consumption 0.77 L/h

→ 06/19/2025 07:00 PM (UTC -01:00) ← 06/16/2025 05:14 PM (UTC +01:00)	159.0 h	→ ODO 7 380.0 h ← ODO 7 221.0 h	21.33 L	23.51 €	0.08 L/h
→ 06/16/2025 05:14 PM (UTC +01:00) ← 06/13/2025 07:42 PM (UTC -10:00)	113.0 h	→ ODO 7 221.0 h ← ODO 7 108.0 h	19.96 L	131.56 €	0.09 L/h
→ 06/13/2025 07:42 PM (UTC -10:00) ← 06/08/2025 09:50 AM (UTC +07:00)	103.0 h	→ ODO 7 108.0 h ← ODO 7 005.0 h	40.2 L	42.6 €	0.02 L/h
→ 06/08/2025 09:50 AM (UTC +07:00) ← 06/03/2025 10:27 AM (UTC +00:00)	137.0 h	→ ODO 7 005.0 h ← ODO 6 868.0 h	65.18 L	193.34 €	0.48 L/h
→ 06/03/2025 10:27 AM (UTC +00:00) ← 05/10/2025 06:38 PM (UTC +02:00)	197.0 h	→ ODO 6 868.0 h ← ODO 6 671.0 h	196.88 L	367.37 €	1 L/h

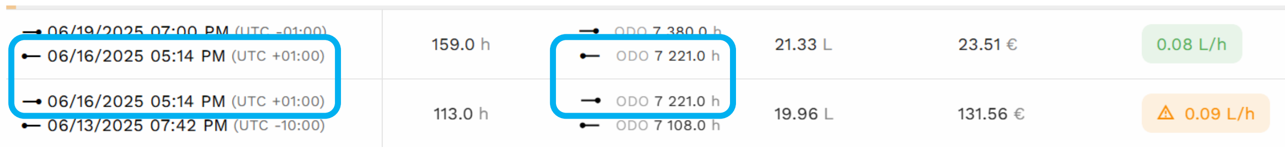
Each row of the table represents a trip:



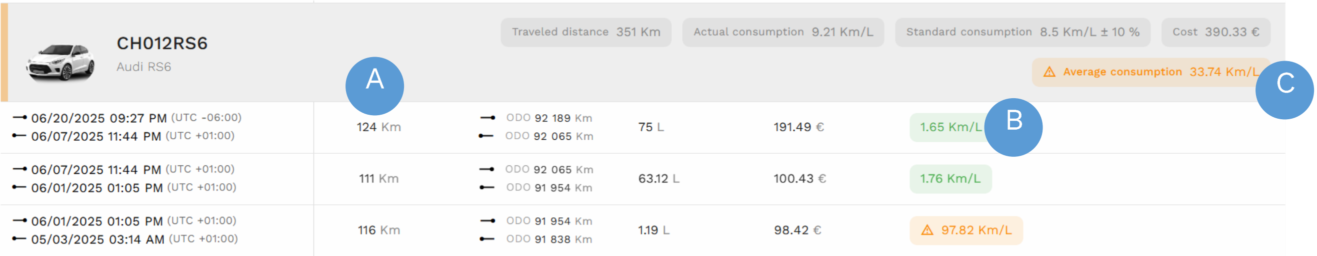
Since each row represents a trip of the vehicle, the departure information in one row is the same as the arrival information in the row below

In the example below:

- The departure date of row 1 is the same as the arrival date of row 2
- The departure odometer of row 1 is the same as the arrival odometer of row 2



Let's now analyze the calculation of consumption by looking at the header of a vehicle and a row representing a trip made:



The consumption of the trip is calculated as follows:

- The **distance traveled** A is obtained from the difference between the odometers of the two deliveries:

$$(ODO\ 2\ - ODO\ 1)\ Km\ = (92189 - 92065)\ Km = 124\ Km$$

- The **average consumption of the trip** B is obtained from the ratio of the distance just calculated and the amount of fuel dispensed in the delivery at the end of the trip;

$$\frac{distance\ traveled}{fuel\ dispensed} = \frac{124\ Km}{75\ L} = 1.65\ Km/L$$

- The **average consumption of a vehicle** C is therefore the average of the averages of the consumption of each trip

$$\frac{(segment\ consumption\ 1)\ +\ (segment\ consumption\ 2)\ +\ \dots\ + (segment\ consumption\ n)}{n}$$

$$Where\ n\ =\ number\ of\ segments\ traveled$$

So in our case:

$$\frac{(1.65\ +\ 1.76\ +\ 97.82)\ Km/L}{3} = 33.74\ Km/L$$

10.3.2. Evaluation of vehicle consumption

To provide an evaluation of the vehicle's consumption trend, the system uses the graphical rules defined in the following table:

Unit of measurement of the vehicle's odometer	$C < \boldsymbol{LI}$	$\boldsymbol{LI} \leq C \leq \boldsymbol{LS}$	$C > \boldsymbol{LS}$
Kilometers or Miles	⚠	✔	✔
Hours	✔	✔	⚠

Legend:

✔ Consumption within limits

⚠ Excessive consumption

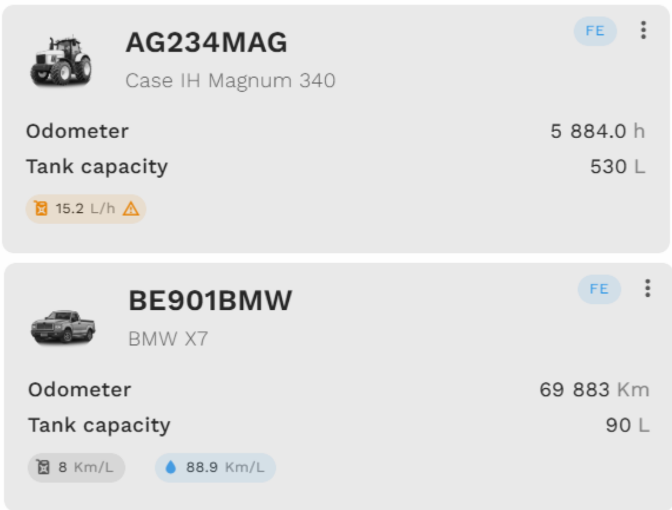
$$C = current\ consumption$$

$$\boldsymbol{LI}\ (lower\ consumption\ limit) = nominal\ consumption - tolerance\ \%\ applied\ to\ nominal\ consumption$$

$$\boldsymbol{LS}\ (upper\ consumption\ limit) = nominal\ consumption + tolerance\ \%\ applied\ to\ nominal\ consumption$$

The evaluation is also shown on the vehicles page (see *chapter 8.1.1*), inside each of the vehicle cards.

Any negative evaluations, if present, will be shown with a warning triangle and an orange color on the consumption badge.



10.3.3. Consumption report filters

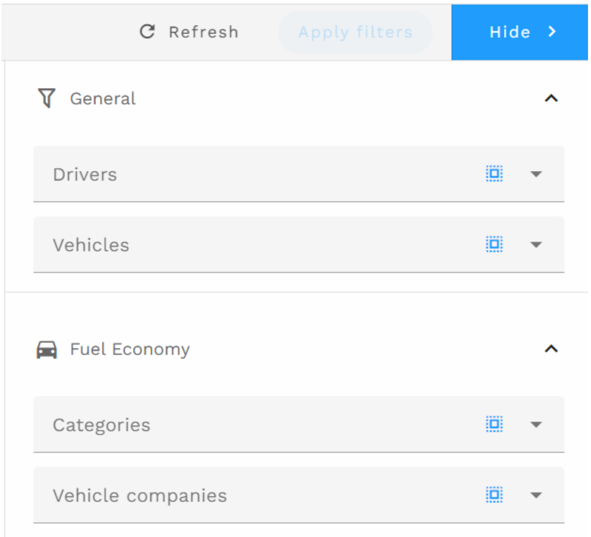
The filters available on the consumption report page are as follows, separated by topic:

General

- **Drivers**
- **Vehicles**

Fuel Economy *(visible only if the Fuel Economy add-on is active)*

- **Categories**
- **Vehicle brands**



10.3.4. Consumption report by driver

NOTE: this display mode is available only if the Fuel Economy add-on is active and if the preference "Enable consumption by individual driver" in "Settings/Add-on/Fuel Economy" is enabled.

By selecting the second item in the selector at the top left, the page will change grouping mode, showing the drivers' consumption for each vehicle in the plant.

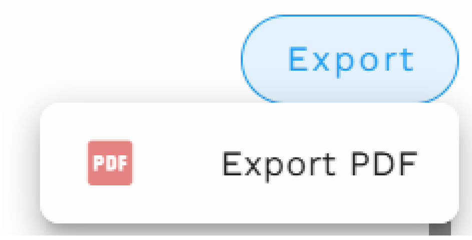
If the setting "*Enable consumption by individual driver*" has been activated, the smartphone application will require the completion of an additional action before a delivery can be made (in particular after entering the odometer). The user must specify whether they were the one who drove the last leg: if so, the calculated consumption will be attributed to them; otherwise, it will be associated with the last driver who refueled that vehicle.

The calculation of the drivers' average consumption is performed similarly to that of the vehicles (*see chapter 10.3.1*)

10.3.5. Export

By clicking the export button, a dropdown menu will open from which you can choose a single export mode:

- Export consumption in PDF format

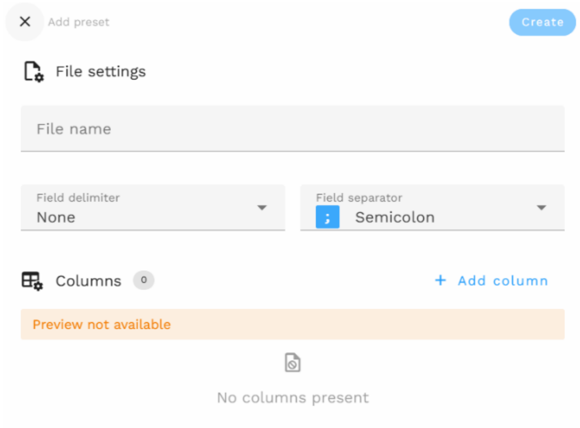


10.4. Custom export

From this section, you can export text files with a customized subset of data.

To add a new custom export, click the button at the top right Add preset.

The fields of the add (and edit) form are as follows:



- **File name** (required)
  The name of the file that will be exported.

- **Field delimiter**

  Symbol to separate individual fields from each other. It can be one of the following: single quote (‘), double quote (“), pipe (|).

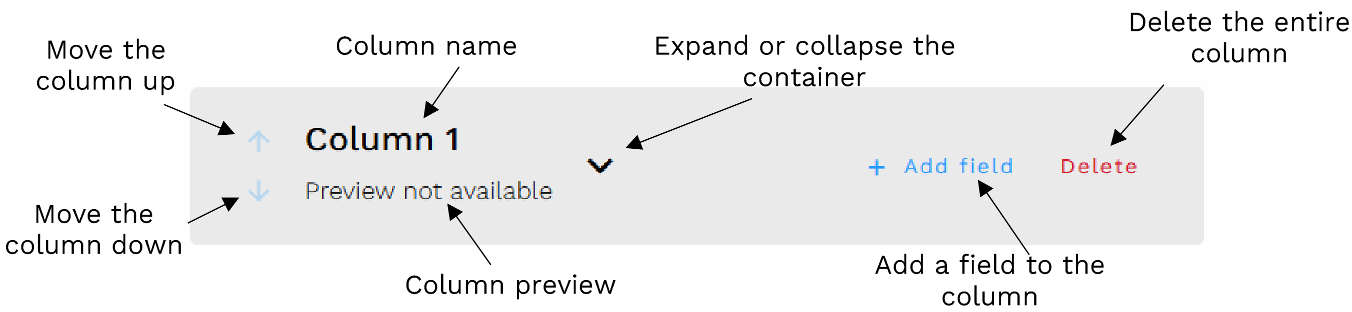
- **Field separator**

  Symbol to separate the columns from each other. It can be one of the following: comma (,), semicolon (;), underscore (_), hyphen (-), pipe (|).

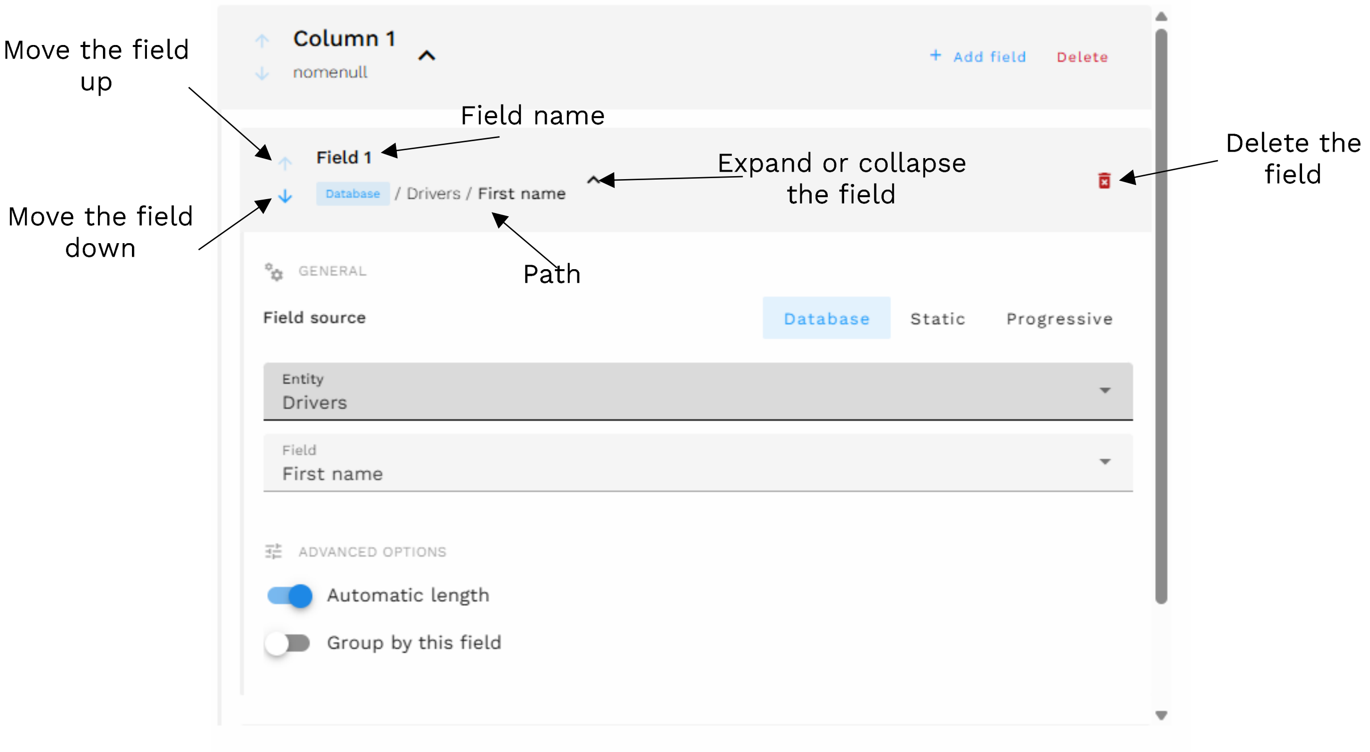
In each custom export configuration, you can define the required columns, along with a wide range of options to format the various fields.

To add a column, press the + Add column button to the right of the "Columns" section.

The container shown below will be created, initially empty.



By adding a field, the container shown below will appear.



In each field configuration, you can choose the value from:

- **Database**

  Value taken from the database. You can select the entity and the specific field to search on

- **Static**

  Free static field (string of characters, spaces, symbols, or digits)

- **Progressive**

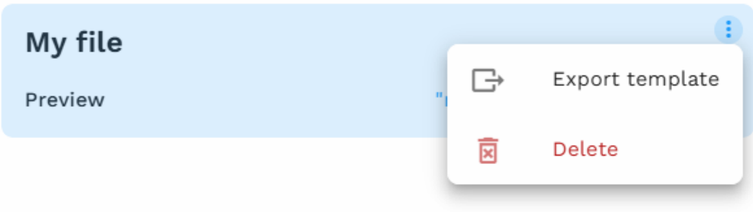
  Progressive number that increases (+1 each row)

10.4.1. Edit

To edit a custom export, press on the card. The edit panel will open on the right with all the fields described in the previous paragraph.

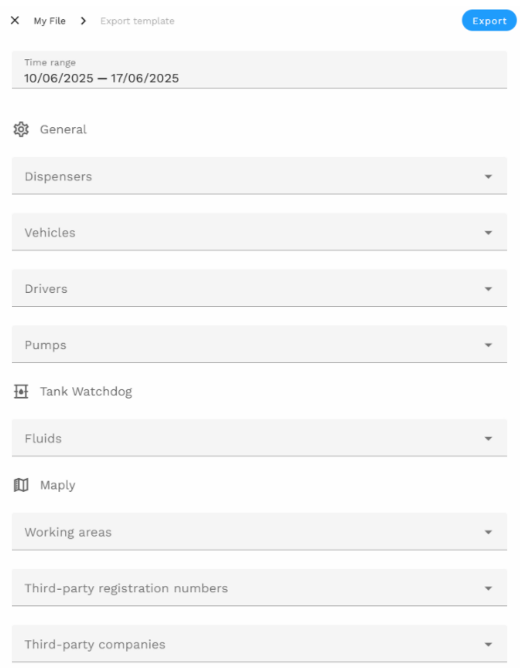
10.4.2. Management operations

By clicking on the three dots at the top right of the custom export card, the actions you can perform on it will appear.



10.4.2.1. Export

By pressing "Export template," a panel will open on the right with various filters applicable to the export:



- **Period**

  Date range within which to perform the search
- **Devices**
- **Vehicles** *(or registration numbers if the Fuel Economy add-on is not active)*
- **Drivers**
- **Pumps**
- **Fluids** *(present only if the Tank Watchdog add-on is active)*
- **Areas of operation** *(present only if the Maply add-on is active)*
- **Third-party registration numbers** *(present only if the Maply add-on is active)*
- **Third-party companies** *(present only if the Maply add-on is active)*

By pressing the Export button, the file will be exported.

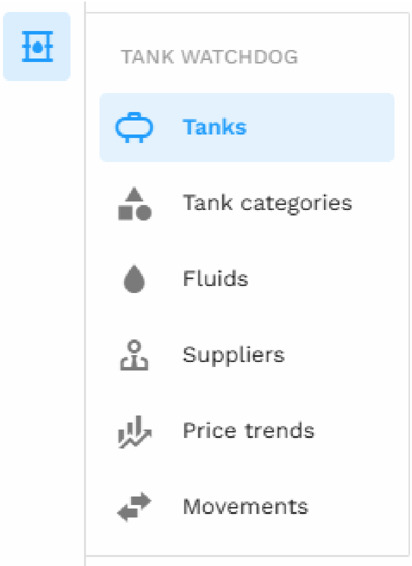
10.4.2.2. Delete

By pressing “Delete”, the custom export will be deleted. Confirmation will be requested before performing a deletion.

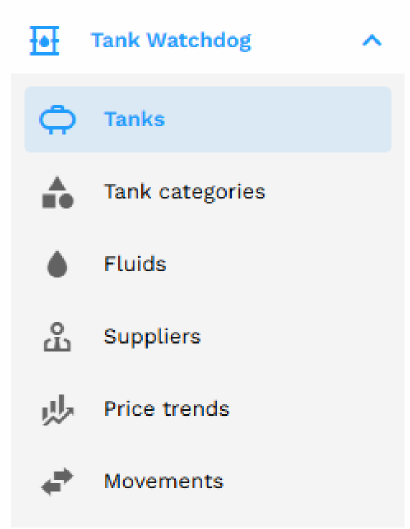
11. TANK MONITORING

NOTE: the section is available only after activating the dedicated "Tank Watchdog" add-on.

In the Tank Monitoring section, you can manage the plant's tanks, their movements, and the trend of unit purchase prices of the various fluids.



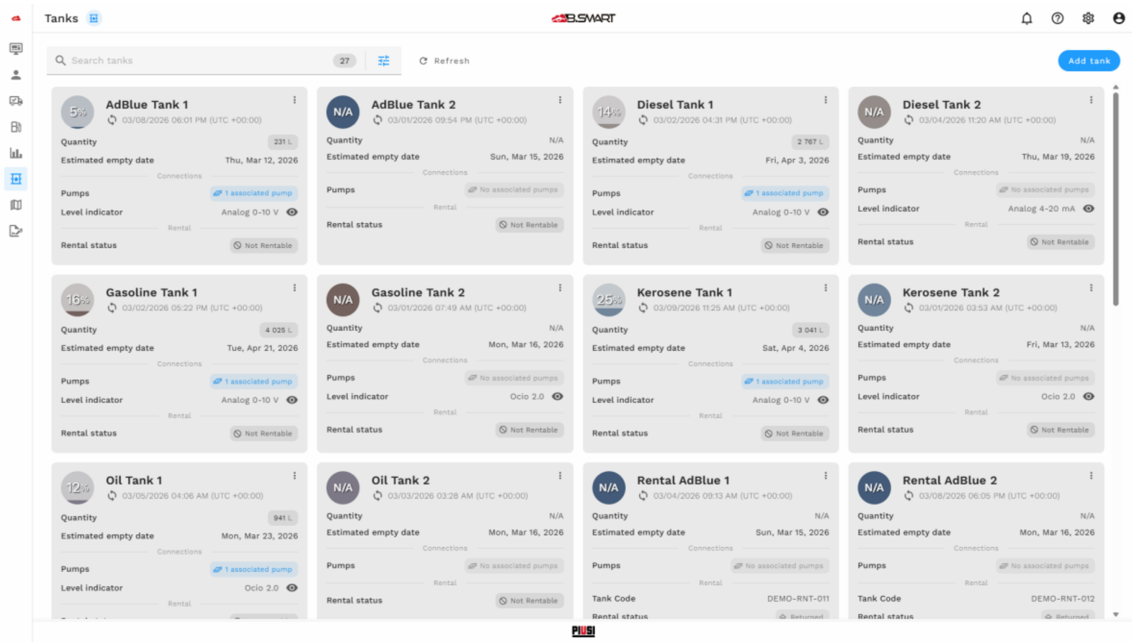
Tank Watchdog icon (compact menu), with submenu icons.



Tank Watchdog icon (expanded menu), with submenu items.

11.1. Tanks

From this section, you can manage the plant's tanks.



11.1.1. Information

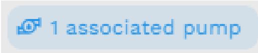
The main registry data of a tank can be viewed directly from the card in the list.

The following information is displayed for each tank (available only on tanks managed by a B.SMART dispenser):

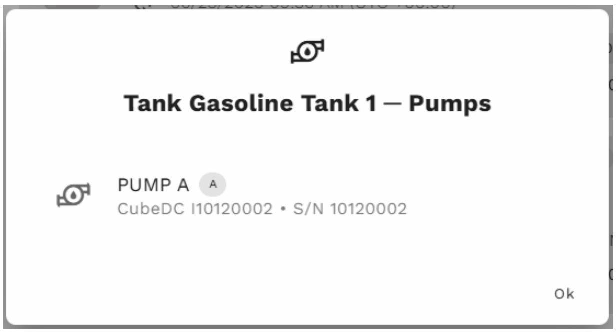
- **Tank name**
- **Last synchronization date**

  This represents the last date on which the APP synchronized the tank.
  All information (quantity, alarm status, movements) should be considered as of that date.
- **Quantity** present in the tank
- **Estimated date for tank depletion**
- **Tank category**

- **Connected pumps (and related dispensers)**

  By clicking on the badge 

 , you can view the list of dispensers to which the tank has been connected. If no dispensers are connected, the badge will be gray, will show the number “0”, and will not be clickable.



  By clicking on the badge, the modal shown on the side will open, containing the list of pumps connected to the tank.

- **Level indicator**

  If the tank is monitored by a level sensor (OCIO, Analog, etc.), information about the type of level sensor will be displayed.

- **Alarm configuration and status**

  This value is estimated based on the average discharges made from the tank in the unit of time.

- **Rental information**

  NOTE: this information will only be available if the MasterSite add-on is active.

  This information includes: rental status, associated contract code, customer name.

To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

11.1.1.1. States

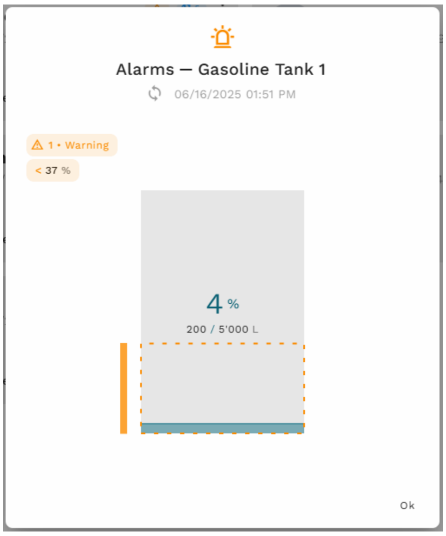
A tank can have different states on the card. These states will be shown at the top right:

- **Protected**

  The icon indicates that the transfer to the tank is protected by RFID TAG.

- **Alarms**

  In case of an alarm on the tank, the icon will appear. By clicking on the icon, you can view detailed information about the tank status and the triggered alarm, as shown in the image beside.



11.1.2. Addition

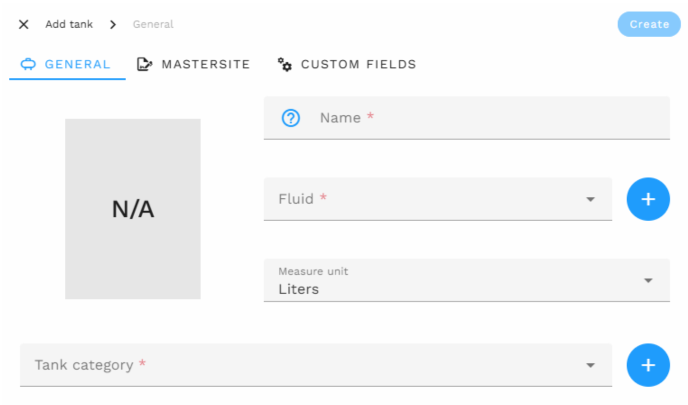
To add a tank, press the button at the top right Add tank.

A panel will open on the right with all the fields to fill in to create a new tank. The fields are grouped and divided into tabs (or sections) based on the topic.

11.1.2.1. GENERAL information section

In this section, you can set the general information of a tank. This section is divided into three parts:

General



- **Name**: (Required)
  Unique identifier of the tank (maximum 16 characters)
- **Fluid**: (Required)
  Fluid contained in the tank. You can select a previously created fluid, or create a new one directly by pressing the + button to the right of the field.
- **Unit of measurement**

  Unit of measurement in which the tank properties are expressed (capacity, values of the calibration table).
  The unit of measurement of the tank must be consistent with that of all connected dispensers.

  As a result, it is not possible to have two dispensers that count in different units of measurement sharing the same tank.

  It is allowed to have multiple dispensers that count in multiples/submultiples of other units of measurement, for example in the following scenario:

Control unit 1		**Control unit 2**
Dispenser A	Dispenser B	Dispenser A
Gallons	Pints	Quarts

  Dispensers A, B, and C can all share the same tank.
- **Tank category**: (Required)
  You can select a previously created tank category, or create a new one directly by pressing the + button to the right of the field.

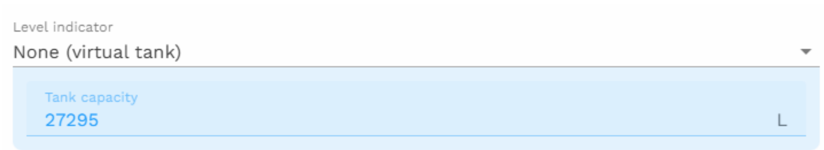
> **Note**
>
> **It** is not possible to change the unit of measurement of a tank that has already been logically connected to one or more dispensers

Level indicator configuration

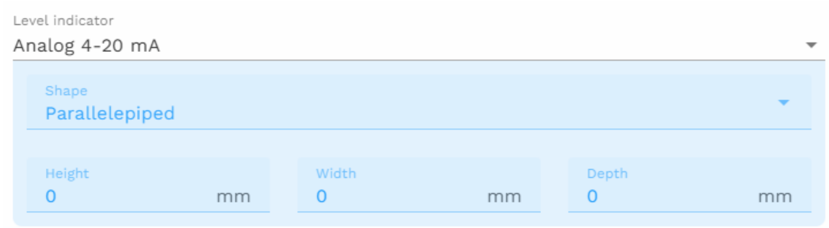
From this subsection you can modify the following parameters:

- **Level sensor**

  Type of level sensor connected to the tank, to choose from:
  - None: virtual tank (see image below)



  - OCIO 2.0
  - Analog sensor 4-20mA
  - Analog sensor 0-10V



- **Capacity:** (only if the tank is virtual)
  Indicates the capacity of the tank, expressed in the specified unit of measurement.
- **Shape:** (only if the tank **is not** virtual)
  Indicates the geometric shape of the tank, to choose from:
  - Parallelepiped
  - Horizontal cylinder
  - Vertical cylinder
  - Custom

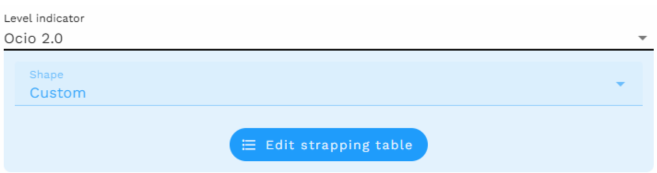
Warning!

In virtual tanks, without level sensors, the system manages the product quantity based on the recorded movements.

In particular, **the discharge movements related to dispensing are detected and applied automatically by the system**, while any changes not automatically tracked (such as **leaks or recording errors**) **must be manually compensated by entering adjustment movements**.

To ensure data reliability, **it is strongly recommended to carry out periodic checks of the actual tank level using measuring instruments** (e.g. dipstick). Based on the measured value, the virtual level must be manually updated in the system. The absence of these checks can lead to significant discrepancies between the actual and displayed levels, compromising proper operational management.

If a custom shape has been selected, it is possible to define the geometric representation of the tank by filling in a calibration table.



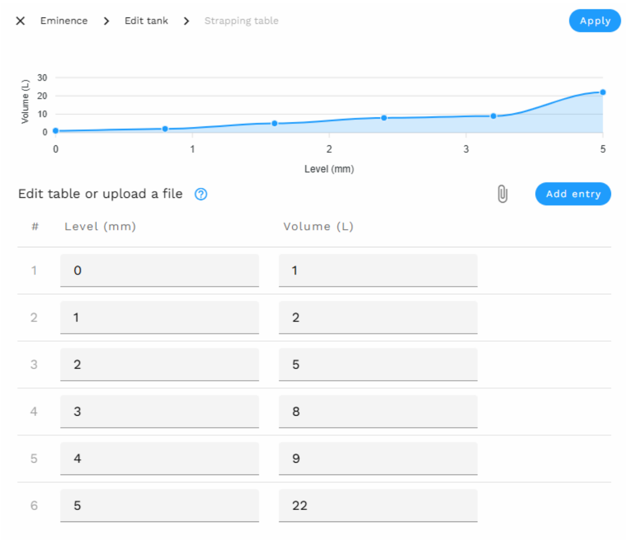
Press the button that appears below the field to fill in the table.

The calibration table consists of a series of measurements (up to 100 values) that indicate the volume present as the height varies.

You can manually enter values, delete rows, move them up or down. In case of format or value errors, an error message will appear in the relevant field.

A graph will be shown at the top representing the trend of the calibration table (x-axis: level, y-axis: volume).

It is also possible to import a calibration table by uploading a properly formatted Excel file.



The Excel file must contain two columns, height and volume respectively. Remove any table headers or units of measurement in the cells.

Below is an example of the required Excel file formatting

0	0
10	140
20	200
…	…
70	3000

In both columns, the values must always be increasing.

IdentiTank

- **Enable dispensing protected by TAG**

  By enabling this function, fluid can be transferred into the tank in question only if the RFID TAG is detected for the entire duration of the transfer operation.
  If the TAG associated with the tank is not read, the transfer will be interrupted.

- **TAG code**

  Enter the numeric string of the RFID TAG installed on the tank. This field allows the system to recognize the tank by reading the TAG with a dedicated gun during dispensing. This field is mandatory only if **dispensing protected by TAG** is enabled.

  > The TAG code can be entered manually by reading the code on the key or automatically using the appropriate reader to be connected to the PC.
  > In this case, it is necessary to install the *PIUSI IBUTTON READER* tool and, once installed, press the Read tag code *button).*
  >
  > It is possible to read the TAG and associate it directly with the smartphone App (see the TAG section of the smartphone App manual).

Alarms

From the "Alarms" subsection, you can configure two level alarms, defining for both:

- **Status**

  Switch button to enable or disable the management of the individual alarm.

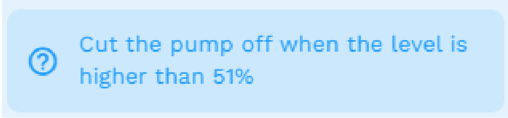
- **Threshold:**

  The threshold value that, once reached, will trigger the alarm.

- **Direction**

  The calculation direction of the alarm threshold. It can be:
  - Low: the alarm is triggered when the tank level drops **below** the set threshold.
  - High: the alarm is triggered when the tank level rises **above** the set threshold.
- **Behavior**: Action to be taken when the alarm is triggered, to be chosen from
  - Warning
  - Pump lock

Below each of the two alarm fields, there will be an information box that descriptively explains the behavior of the alarm.



11.1.2.2. MASTERSITE Section

NOTE: this section is available only if the MasterSite extension is active on the site.

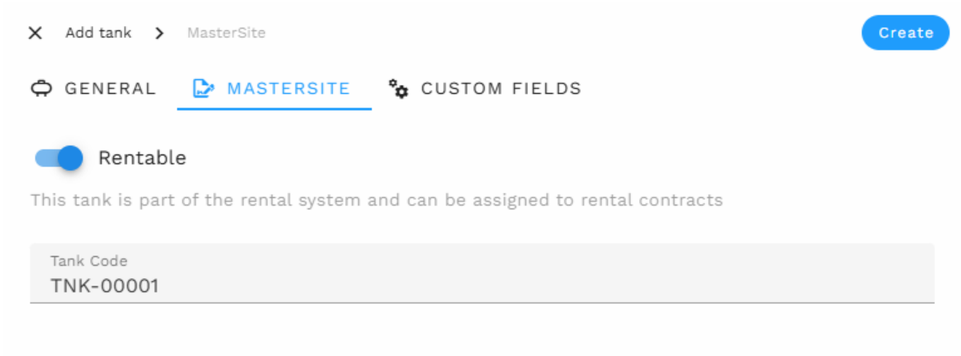
In this section you can modify the tank rental settings.

- **"Rentable" switch**

  Switch that allows you to enable or disable the possibility of making the tank rentable. A non-rentable tank is considered "internal" by the system and cannot be associated with contracts.
  A rentable tank, on the other hand, can be associated with contracts.

- **Tank code**

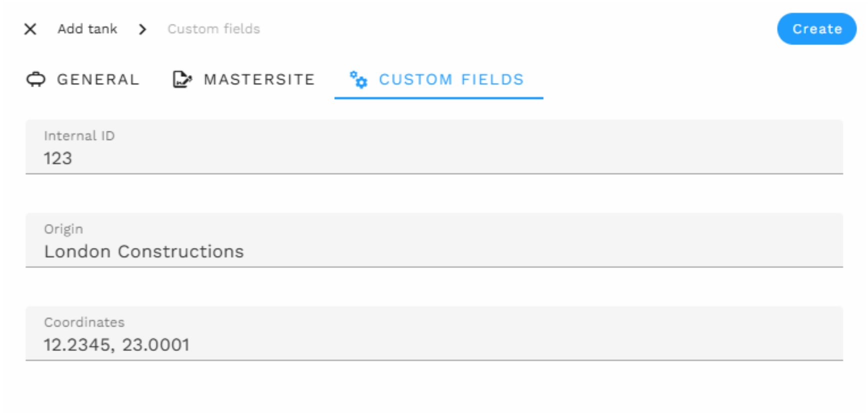
  This field is mandatory if and only if the "rentable" option is active. This field represents a unique identification code for the tank. The code is used to identify the tank during rental operations *(see MasterSite section for more information)*.



11.1.2.3. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for the tanks (see section 14.2.1)

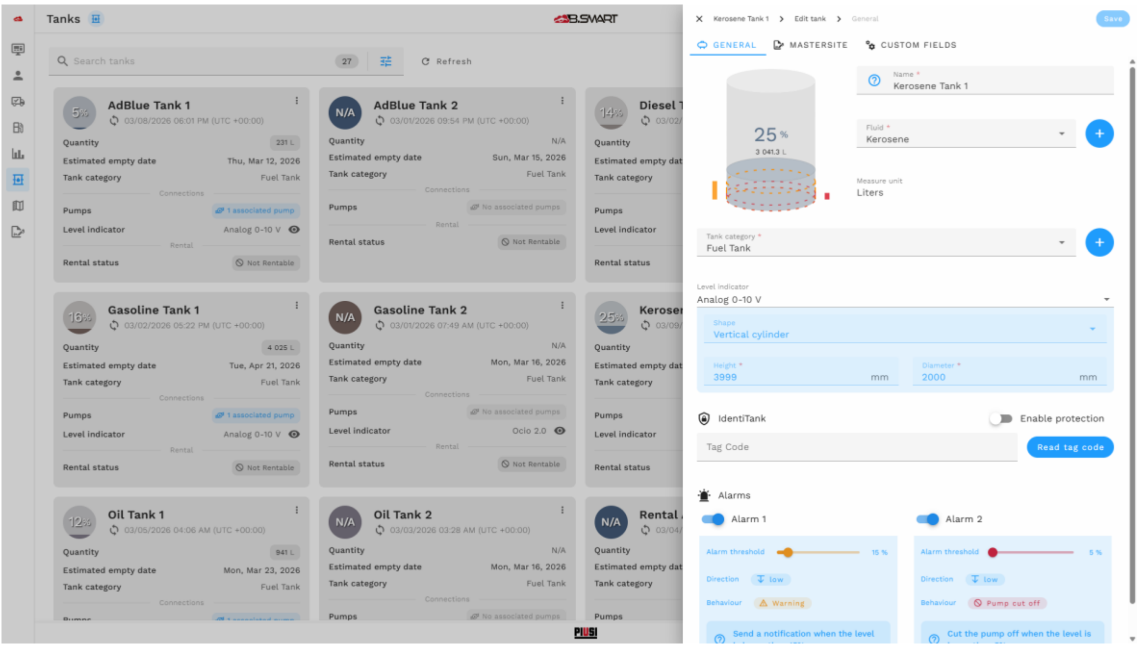
In this section you can set the values of the custom fields for the tanks.


Add tank
Custom fields
Create
GENERAL
MASTERSITE
CUSTOM FIELDS
Internal ID
123
Origin
London Constructions
Coordinates
12.2345, 23.0001

11.1.3. Edit

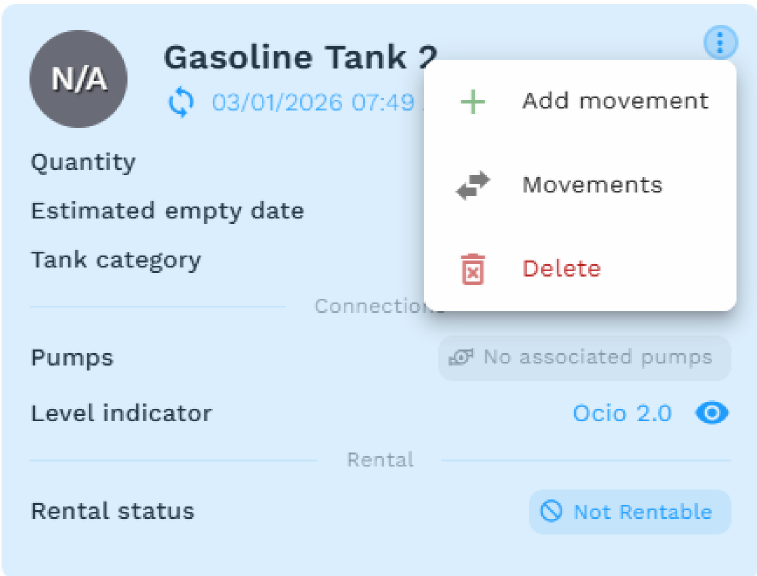
To edit a tank, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the selected tank's data and can be edited with the desired values.

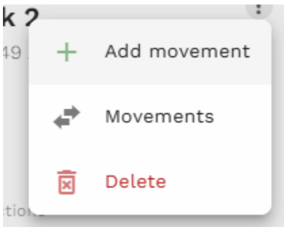


11.1.4. Management operations

By clicking on the three dots at the top right of a tank's card, the actions that can be performed on it will appear.



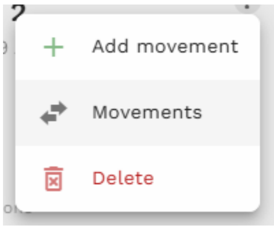
11.1.4.1. Add movement



By pressing "Add movement", the panel on the right for adding a new movement to the selected tank will open.

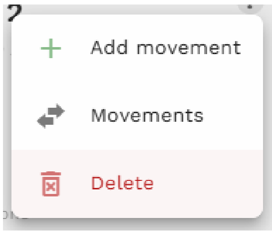
For a detailed description of the movement addition form, refer to chapter 11.6.1.

11.1.4.2. Movements



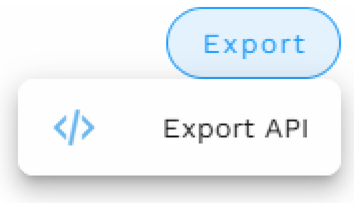
By pressing the "Movements" item, you will be redirected to the Movements page (*see chapter 11.6*) with a filter already set for the current tank.

11.1.4.3. Delete



By pressing "Delete", the tank will be deleted. Confirmation will be requested before performing a deletion.

11.1.5. Export



Tanks can be exported in only one way: API.

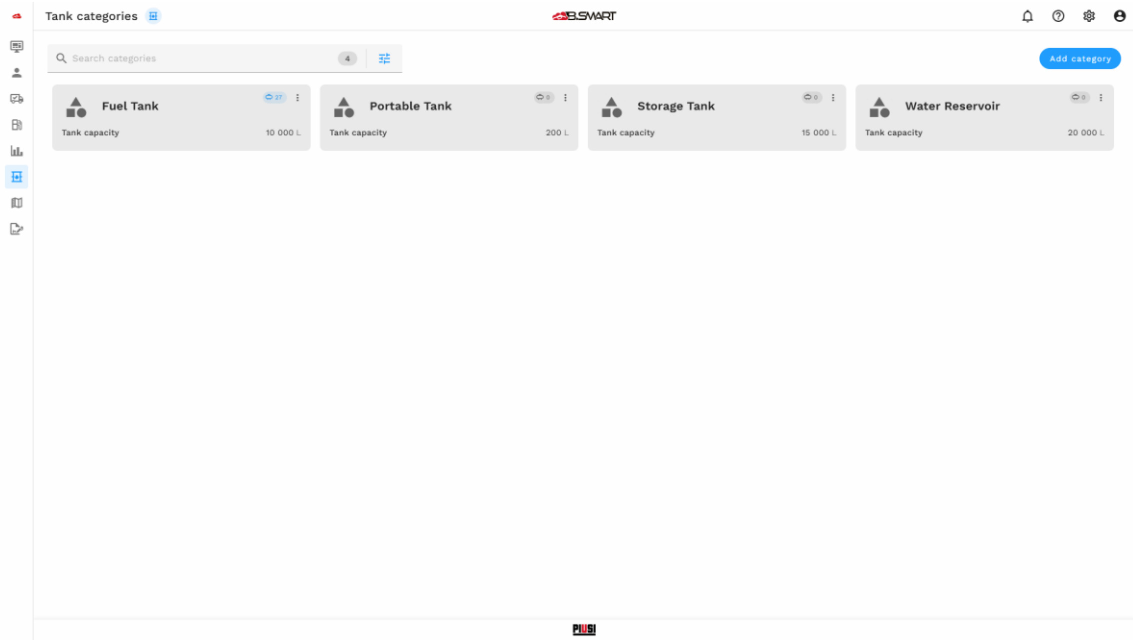
By clicking the "API Export" option, you will be redirected to the export API documentation for tanks.

Note

The "Export via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

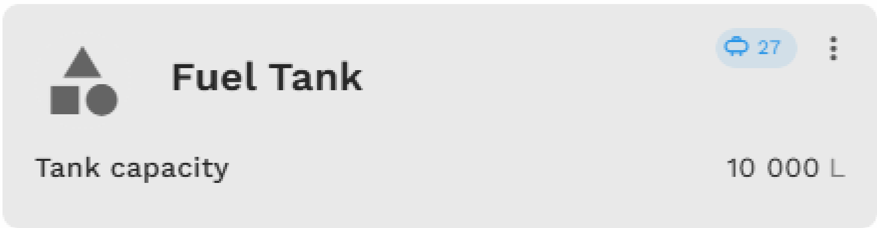
11.2. Tank categories

From this section you can manage the registry of tank categories.



11.2.1. Information

The main registry data of a tank category can be viewed directly from the card in the list.



A badge at the top right  shows the number of tanks currently associated with this category.

To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

11.2.2. Addition

To add a tank category, press the button at the top right 

.

A panel will open on the right with all the fields to fill in to create a new tank category. The fields are grouped and divided into tabs (or sections) according to the topic.

11.2.2.1. GENERAL information section

In this section you can edit the general information of a tank category. Each category is represented by:

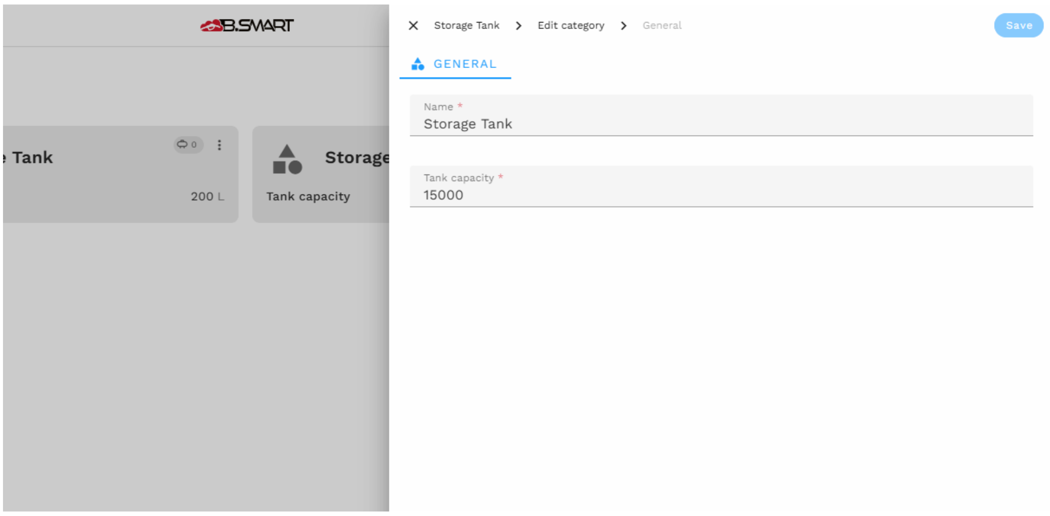
- **Name** (Required)
  Unique identifier of the category
- **Capacity** (Required)
  General capacity value of the tank category. It is a purely registry value that has no effect on the tanks that will be assigned to this category.

There is no limit to adding tank categories.

11.2.3. Edit

To edit a tank category, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the selected supplier's data and can be edited with the desired values.



11.2.4. Management operations

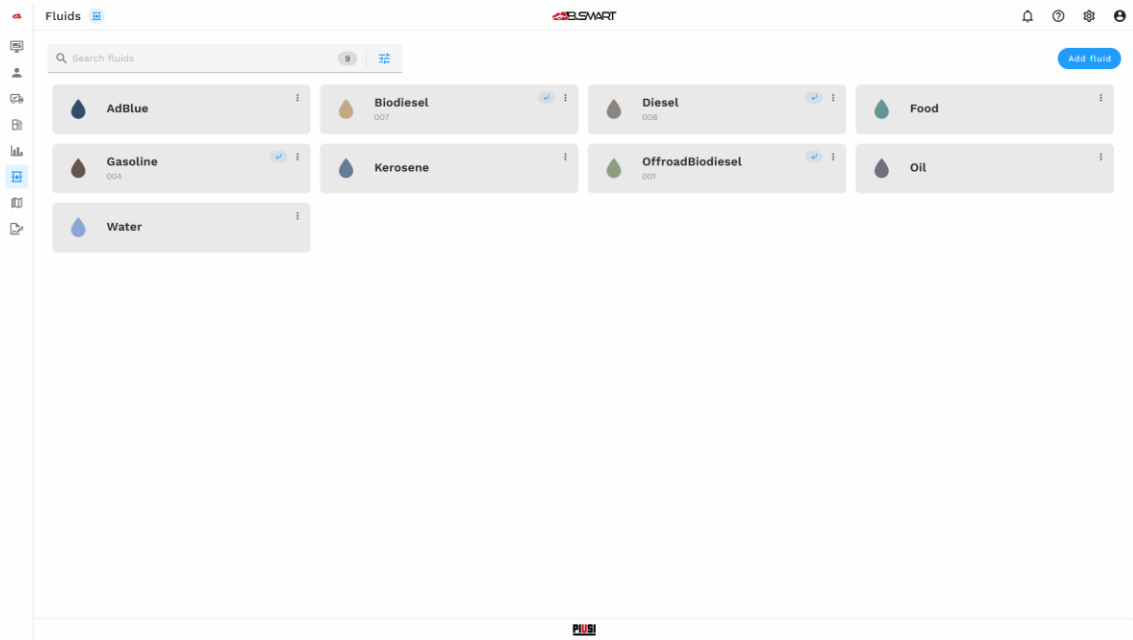
By clicking on the three dots at the top right of a tank category's card, the actions that can be performed on it will appear.

11.2.4.1. Delete

By pressing "Delete" the tank category will be deleted. Confirmation will be requested before performing a deletion.

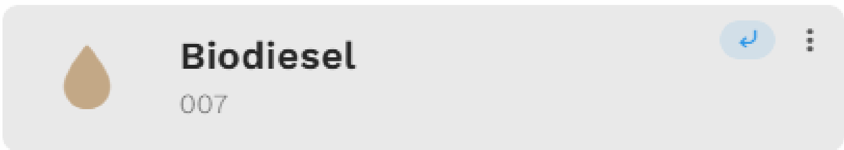
11.3. Fluids

From this section you can manage the fluids dispensed by the devices.



11.3.1. Information

The main registry data of a fluid can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

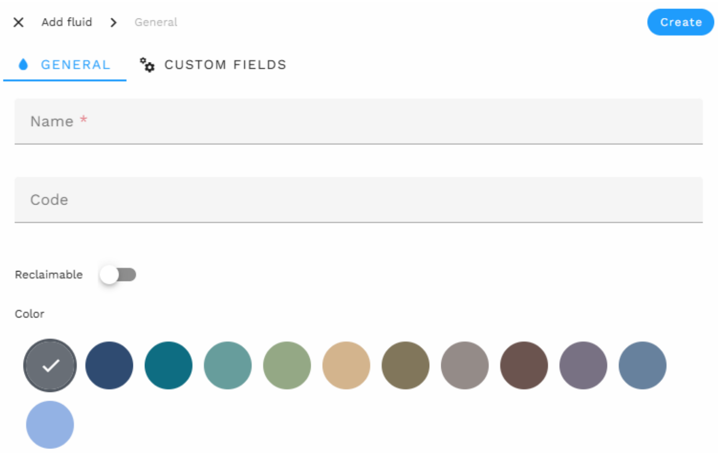
11.3.2. Addition

To add a fluid, press the button at the top right 
.

A panel will open on the right with all the fields to fill in to create a new fluid. The fields are grouped and divided into tabs (or sections) according to the topic.

11.3.2.1. GENERAL information section

In this section you can edit the general information of the fluids. Each fluid is represented by:



- **Name** (Required)

  Unique identifier of the fluid (maximum 16 characters)

- **Code**

  Code that identifies the percentage of biodiesel present in the product. The field is not mandatory, and is used exclusively during data export to produce a file that meets the criteria of the Spanish tax agency to obtain reimbursement for eligible fuels.

- **Eligible product**

  Indicates whether the product is of type GASOLEO A (code '000', 0% biodiesel), i.e. refundable by the tax agency. The field is not mandatory, and is used exclusively during data export to produce a file that meets the criteria of the Spanish tax agency to obtain reimbursement for eligible fuels.

- **Color**

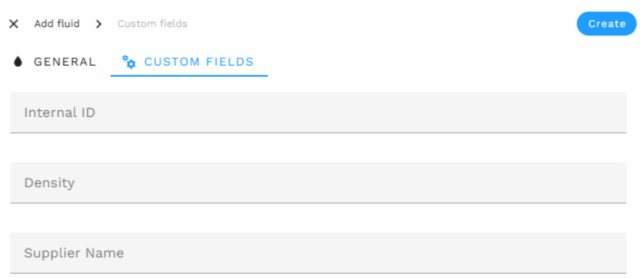
  Identifying color of the fluid

There is no limit to adding fluids.

11.3.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for the fluids (see section 14.2.1).

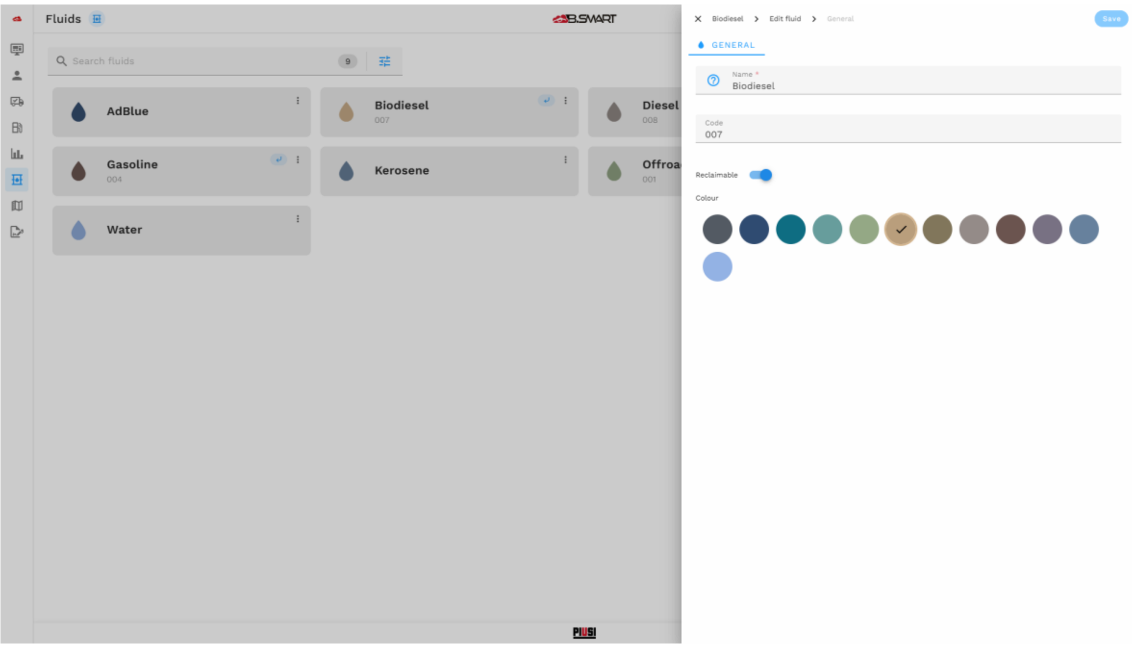
In this section you can set the values of the custom fields for the fluids.



11.3.3. Edit

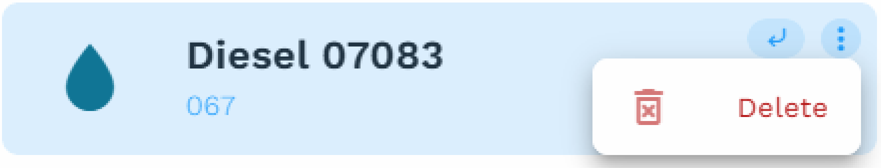
To edit a fluid, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the data of the selected fluid and can be edited with the desired values.



11.3.4. Management operations

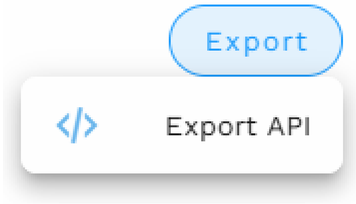
By clicking on the three dots at the top right of a fluid's card, the actions that can be performed on it will appear.



11.3.4.1. Delete

By pressing "Delete" the fluid will be deleted. Confirmation will be requested before performing a deletion.

11.3.5. Export



It is possible to export fluids in only one way: API.

By clicking the "API Export" option you will be redirected to the export API documentation for fluids.

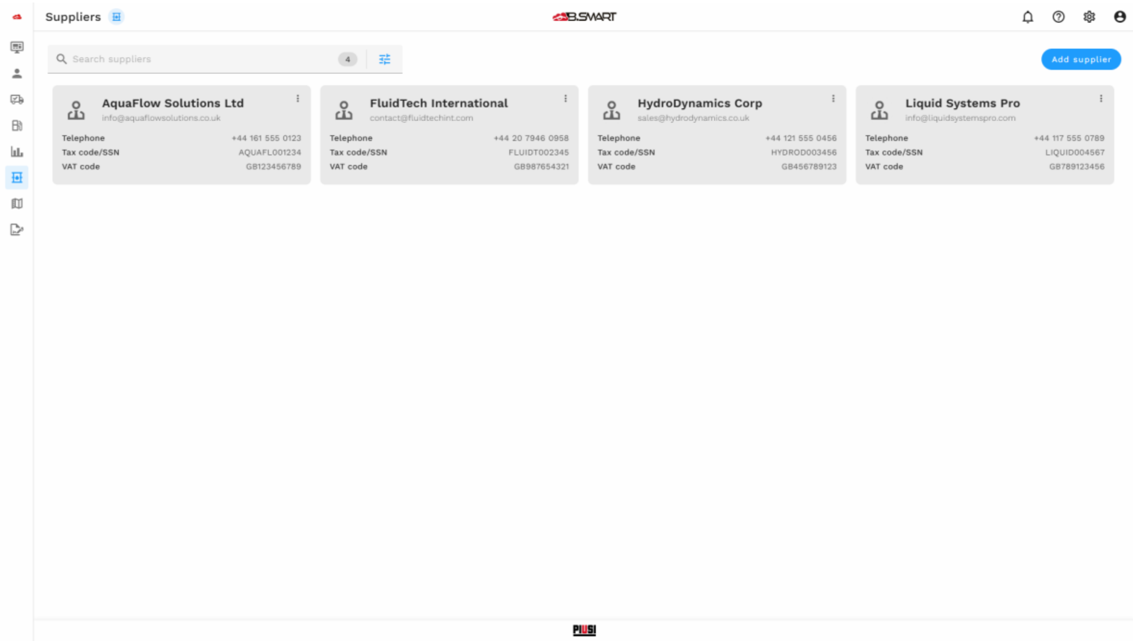
Note

The “Export via API” option is only available after enabling the “Enable export API” setting. See chapter 14.2.2.

11.4. Suppliers

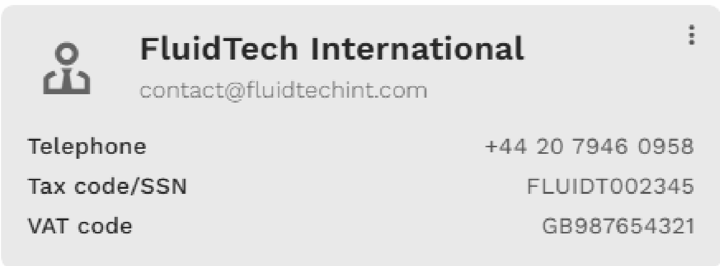
From this section you can manage the suppliers from whom the various fluids of the plant are purchased.

Supplier management is optional, it can be disabled from the *Tank Watchdog* settings (*see chapter 14.4.2*).



11.4.1. Information

The main registry data of a supplier can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

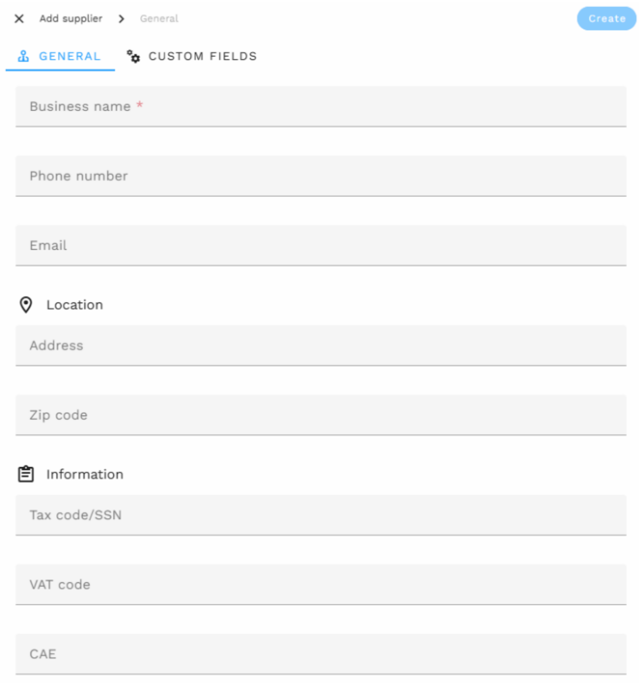
11.4.2. Addition

To add a supplier, press the button at the top right Add supplier.

A panel will open on the right with all the fields to fill in to create a new supplier. The fields are grouped and divided into tabs (or sections) according to the topic.

11.4.2.1. GENERAL information section

In this section you can edit the general information of a supplier. Each supplier is represented by:



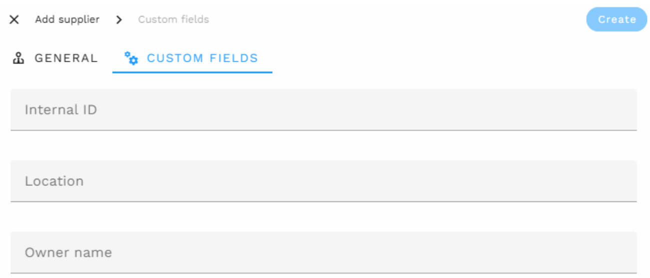
- **Company name** (Required)
  Unique identifier of the supplier
- **Phone**
  Supplier's phone number
- **Email**
  Supplier's email
- **Address, ZIP code**
  Supplier location
- **Tax code, VAT number**: Supplier's registry information

There is no limit to adding suppliers.

11.4.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for the suppliers (see section 14.2.1).

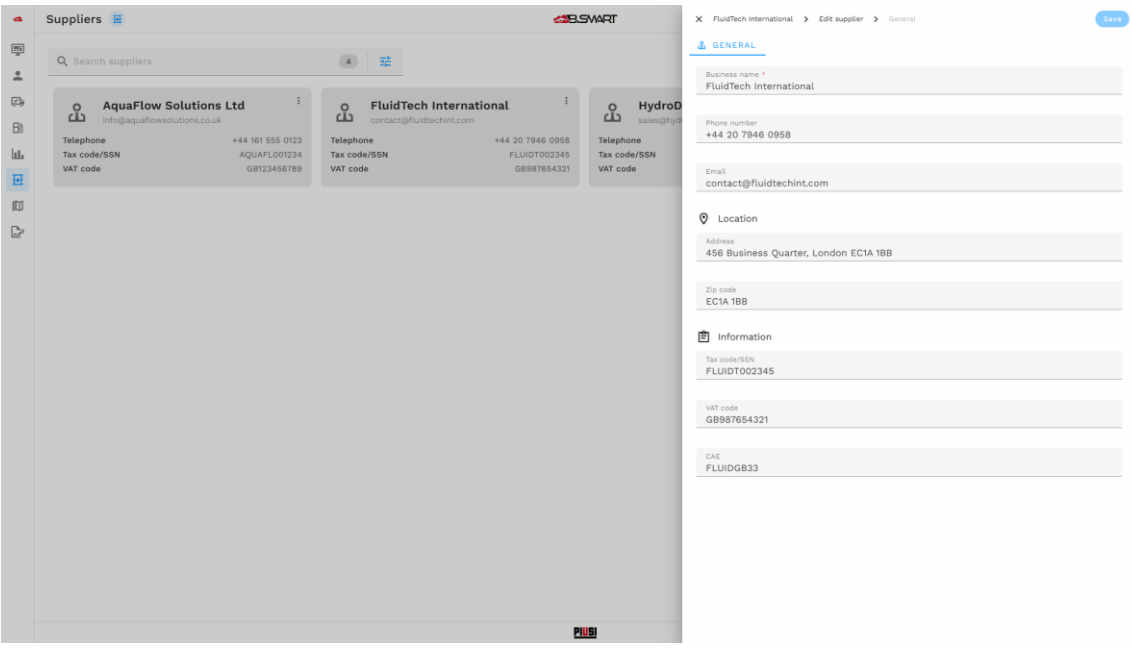
In this section you can set the values of the custom fields for the suppliers.



11.4.3. Edit

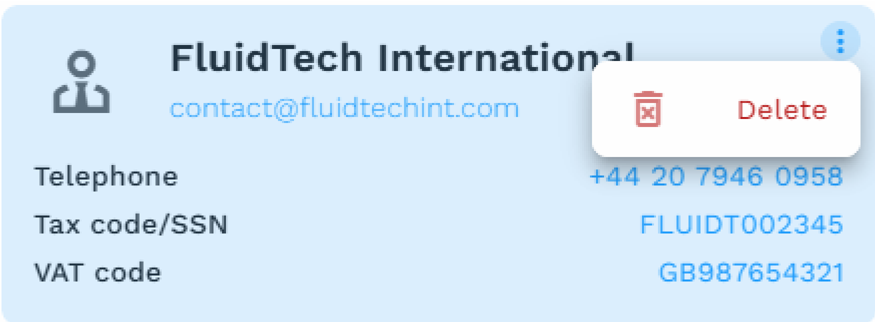
To edit a supplier, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the selected supplier's data and can be edited with the desired values.



11.4.4. Management operations

By clicking on the three dots at the top right of a supplier's card, the actions that can be performed on it will appear.



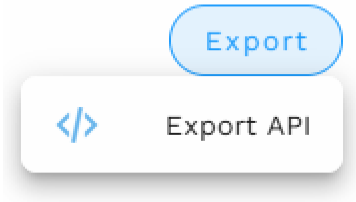
11.4.4.1. Delete

By pressing "Delete" the supplier will be deleted. Confirmation will be requested before performing a deletion.

11.4.5. Export

It is possible to export suppliers in only one way: API.

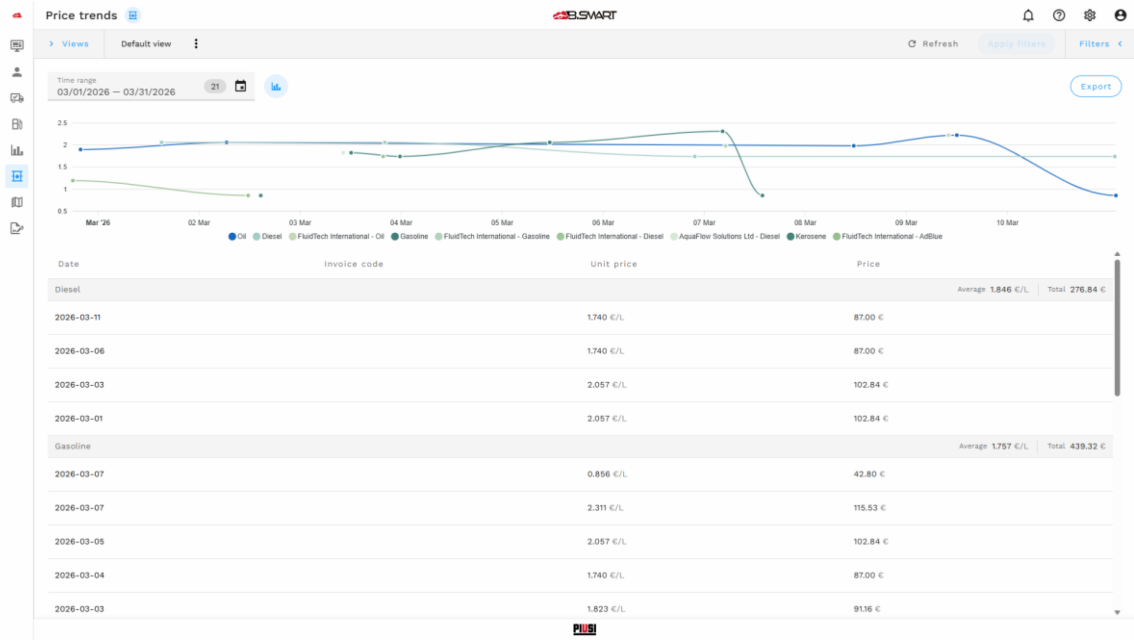
By clicking the "API Export" option you will be redirected to the export API documentation for suppliers.



11.5. Price trend

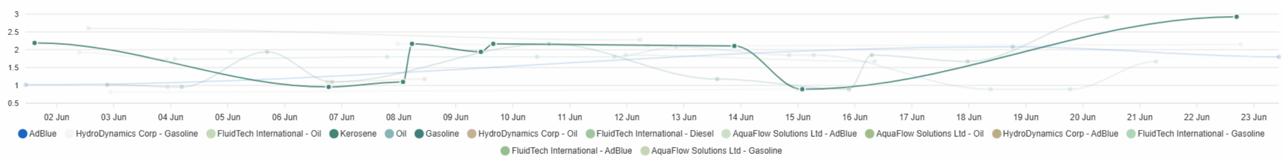
From this section you can view the trend of unit purchase prices of the various fluids.

The unit prices are calculated when new loading movements are created and a monetary value is specified.



Press the  button to show or hide the chart.

To view only one price trend, simply hover the mouse over one of the legend items. This way, the selected trend will be highlighted.



11.5.1. Edit

To modify the value of the various prices, you need to go to the movements section and edit the loads that generated the unit prices.

11.5.2. Views and filters

On the unit prices page, you can set filters on the data and save them in custom views. *For a detailed description of how views work, refer to chapter 10.1.*

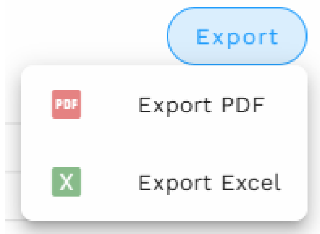
You can set the time period for the search using the field at the top left 

.

Other filters that can be set on this page are:

- Suppliers
- Fluids

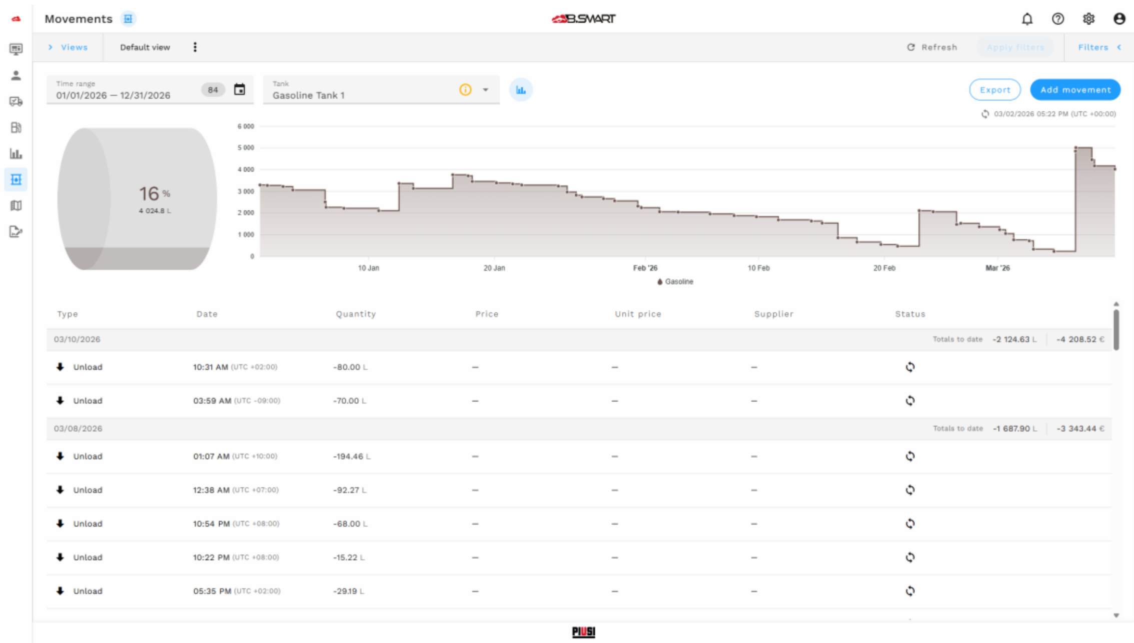
11.5.3. Export



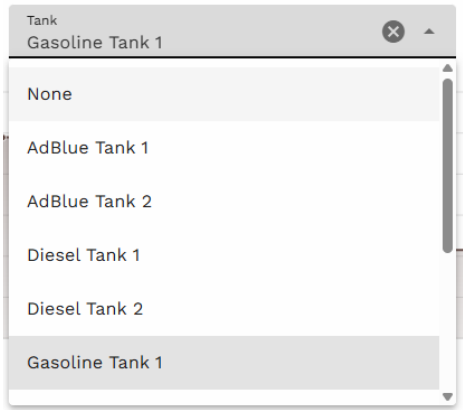
To export the price trend to a PDF or Excel file, press the export button and select one of the two options.

11.6. Movements

From this section you can view the movements made on the tank, create new ones, and view the trend of the current quantity.



Select the tank whose movements you want to view using the appropriate field (shown on the right).



Press the  button at the top to show or hide the chart.

11.6.1. Information

Each movement row shows information on: type, date, quantity, price, unit price, supplier, and status.

Movements can be of various types:

- **Load**

  Positive movement of fluid.
  If the tank is virtual, loads must be performed manually when liquid is added to the tank.
  If the tank is monitored by a level sensor, it is not necessary to perform loads, but it is still recommended if you want to keep track of the monetary trend related to the fluids (*see chapter 11.5*)

- **Unload**

  Negative movement of fluid.
  Unloads are created automatically for each dispensing operation performed by a pump connected to the tank.
  It is still allowed to perform unloads manually.

- **Adjustment**

  Correction movement of the quantity present in the tank at a given time

- **Calibration**

  Movements created as a result of calibrations performed by a dispenser connected to the tank.
  You can ignore the calibration value (if the liquid used to calibrate the pump was put back into the tank after the operation) or you can choose to track the calibration as if it were an unload movement (if the liquid used to calibrate the pump was not put back into the tank after the operation).

A movement can have one of the following synchronization states between cloud and device:

- **Pending**
  The movement has not been applied and is waiting for someone to connect to the device to synchronize the data.
- **Synchronized**
  The movement has been applied to the tank, all data has been synchronized correctly.
- **Synchronization error**

The movement cannot be applied, the loaded quantity exceeds the maximum capacity of the tank.
If a movement is in this state, all subsequent movements will not be synchronized. To solve the problem, you need to connect to the device as a manager and perform a tank level calibration.

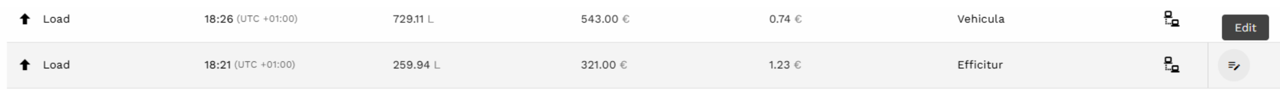
The cost displayed for each time group is calculated as the product of the quantity present in the tank at that moment by the last known unit price, as shown in the following table

Date	Movement quantity	Cost	Unit price	Tank value
05/04/2025	+1000	1600	1.6€/L	4000€
04/04/2025	-300	-	-	2250€
03/04/2025	+1000	1500€	1.5€/L	2700€
02/04/2025	-200	-	-	1200€
01/04/2025	+1000L	1500€	1.5€/L	1500€

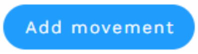
On some movements, you can perform the following operations:

- Edit
- Delete

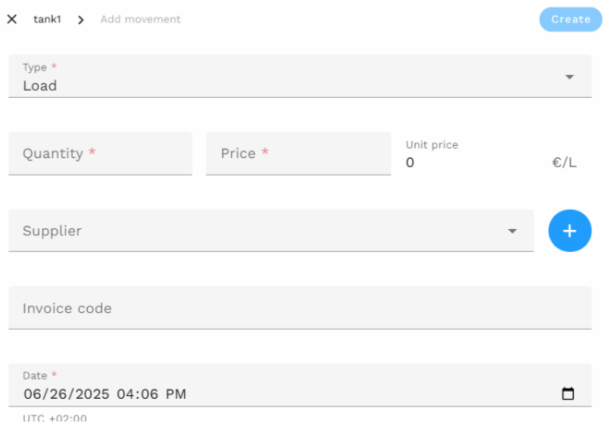
Simply hover the cursor over the row to see the available actions.



11.6.1. Addition

To add a movement, press the  button.

From this screen you can define the following properties:



- **Movement type** (Required)
  Loading or unloading
- **Supplier** (in case of loading movement)
  NOTE: this field is visible only if supplier management has been enabled in the Tank Watchdog settings (see chapter 14.4.2).
  You can select a previously created supplier, or create a new one directly by pressing the button +
- **Quantity** (Required)

Quantity loaded or unloaded.

- **Price** (In case of loading movement)

  NOTE: this field is visible only if price management has been enabled in the Tank Watchdog settings (see chapter 14.4.2).

  Purchase price related to the entered quantity.

- **Invoice**

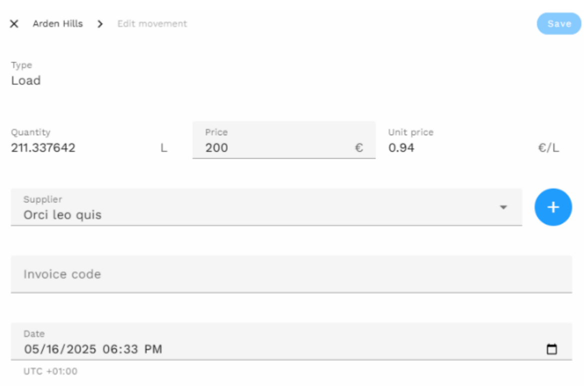
  Data field in which to indicate the invoice related to the loading, or any notes.

- **Date and Time**

  Date and time when the fluid movement was carried out.
  In case of changing the date of a movement performed on a virtual tank, the following rules apply:
  - If a movement precedes a level adjustment movement, the date you can enter must be earlier than the adjustment date;
  - If a movement follows a level adjustment movement, the date you can enter must be later than the adjustment date;
  - If there is no level adjustment movement, you cannot enter a future date.

11.6.2. Edit

When editing a movement, the same form as for adding will appear, with the fields already pre-filled.



You can make changes and save the movement.

Note: The quantity can only be modified if:

- The movement you want to modify was entered in a virtual tank and precedes an adjustment movement;
- If the movement was entered in a tank monitored by a level sensor;

11.6.3. Delete

The deletion of a previously entered movement can only be performed if:

- there is a level adjustment movement with a date later than the movement you want to delete and the movement was entered by the user;
- the movement was entered by the user and the tank is monitored by a level sensor.

11.6.4. Views and filters

On the movements page, you can set filters on the data and save them in custom views. *For a detailed description of how views work, refer to chapter 10.1.*

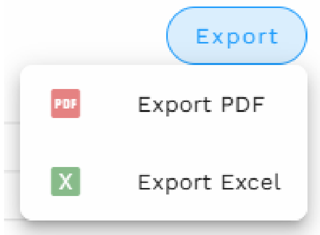
You can set the time period for the search using the field at the top left.

Other filters that can be set on this page are:

- Suppliers
- Type of movement

11.6.5. Export

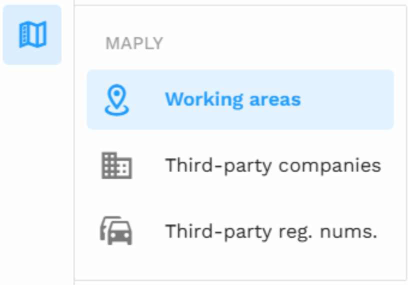
To export the movements to a PDF or Excel file, press the export button and select one of the two options.



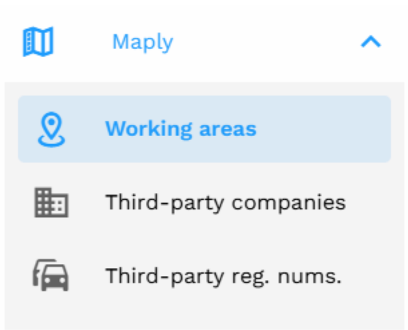
12. MAPLY

NOTE: the section is only available after activating the dedicated "Maply" add-on.

In the MAPLY section, accessible by pressing the menu icon shown below, you can manage operating areas, third-party companies, and third-party registration numbers.



Maply icon (compact menu), with submenu icons.

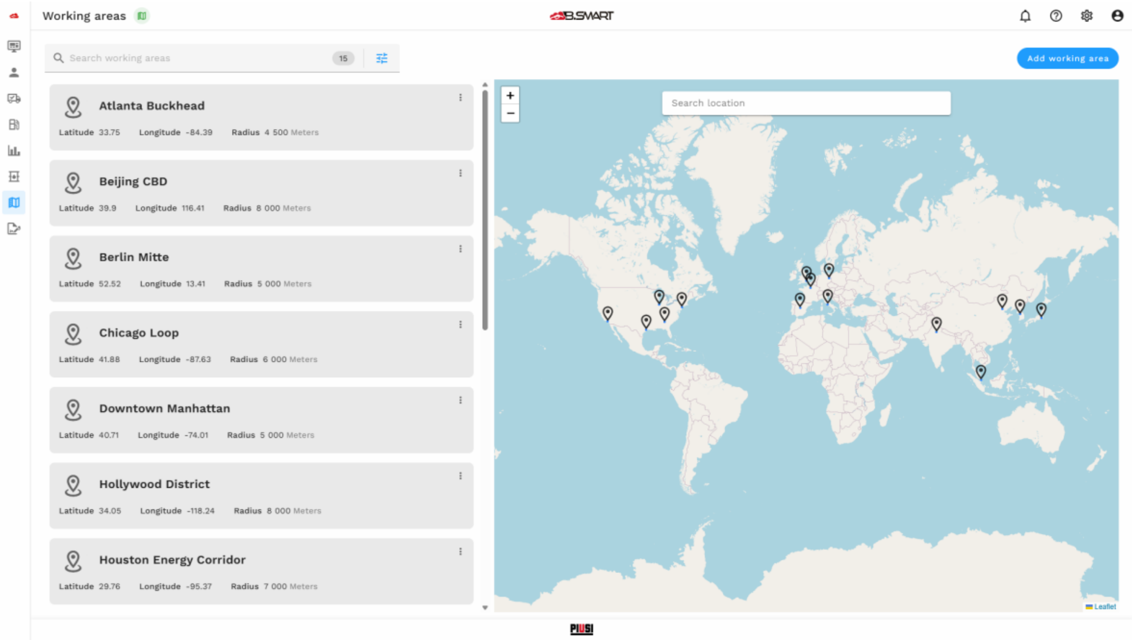


Maply icon (expanded menu), with submenu items.

12.1. Areas of operation

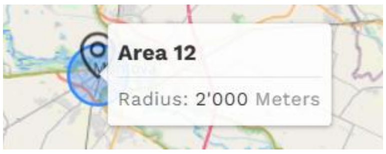
Operating areas are represented by a circle and are used to:

- Delimit an area within which dispensing is allowed;
- Group deliveries made in the same geographic area.



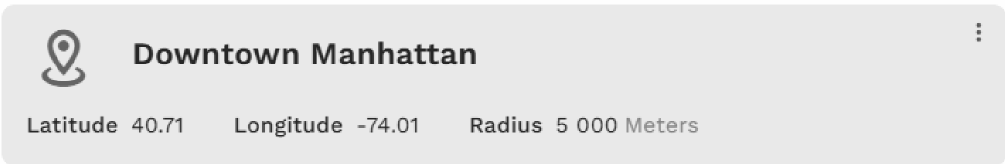
By hovering the cursor over the operating areas shown in the list, the operating area where the mouse pointer is positioned will be highlighted on the map.

By hovering the cursor over the operating areas shown on the map, a container will open with more information about the operating area: name and radius.



12.1.1. Information

The main data of an operating area can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

12.1.2. Addition

To add an operating area, press the button at the top right Add working area.

A panel will open on the right with all the fields to fill in to create a new operating area. The fields are grouped and divided into tabs (or sections) according to the topic.

12.1.2.1. GENERAL information section

In this section you can edit the general information of an operating area:

- **Name** (required)
  Name that uniquely identifies the operating area.
- **Description** (optional)
- **Radius** (required)
  Radius of the circle that describes the area. The unit of measurement is expressed in meters and its value ranges from a minimum of 150 meters to a maximum of 500 km (500,000 m).
- **Latitude** and **Longitude** (mandatory)
  Coordinates of the center of the area.

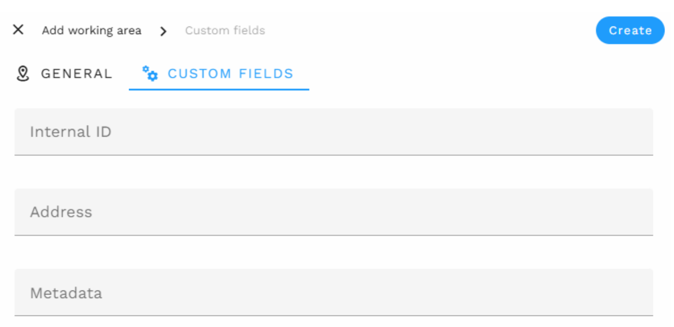
Warning!

- By reducing the operability area below 2000 m, some deliveries may not be included in the drawn area (accuracy depends on GPS readings).
- It is not possible to overlap two or more operability areas.

12.1.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for the operability areas (see section 14.2.1).

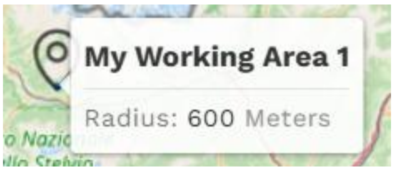
In this section you can set the values of the custom fields for external stations.



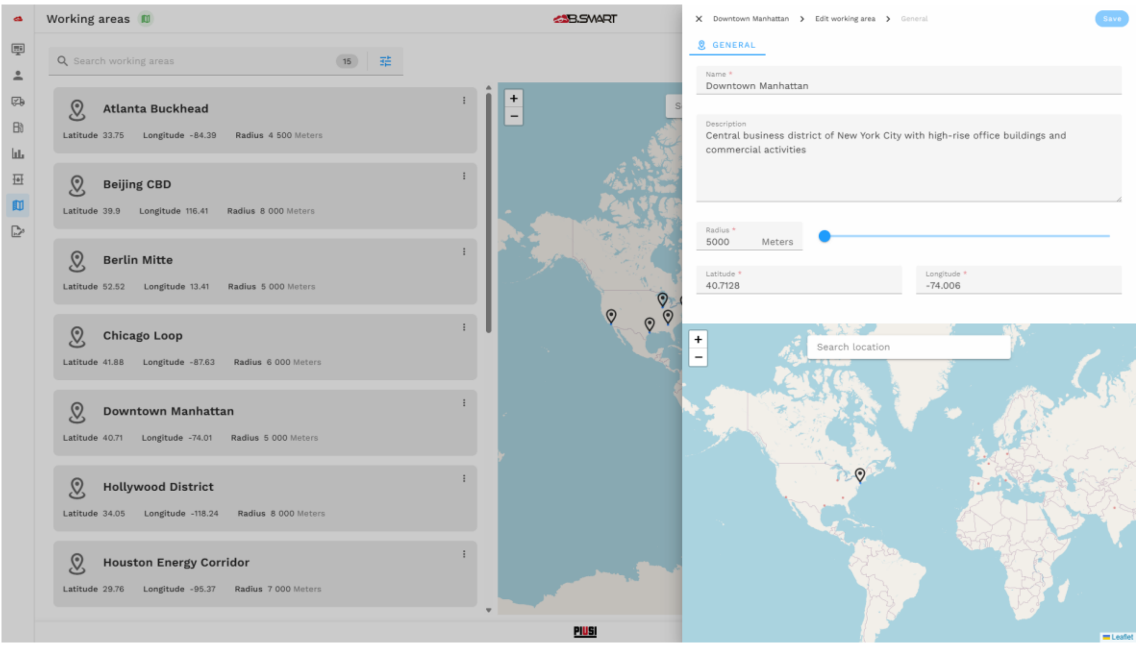
12.1.3. Edit

To edit an operability area, press on the card. A panel will open on the right for editing the data.

You can also open the edit section of an operability area by pressing the desired marker within the map.



The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the data of the selected operability area and can be edited with the desired values.



12.1.4. Management operations

By clicking on the three dots at the top right of the operability area card, the actions that can be performed on it will appear.

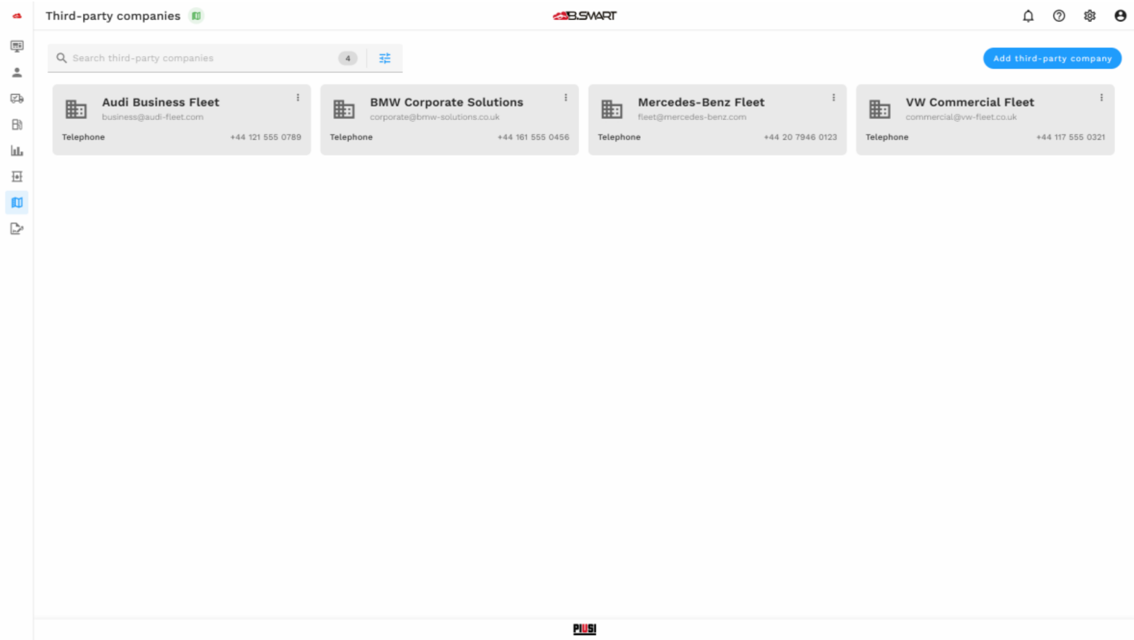
12.1.4.1. Delete

By pressing “Delete” the operability area will be deleted. Confirmation will be requested before performing a deletion.

12.2. Third-party companies

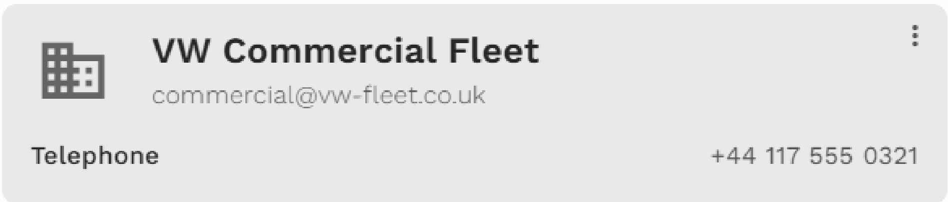
NOTE: the section is available only after activating the dedicated “Maply” add-on and if the “Enable third-party refueling” option is enabled in the Maply add-on configuration.

In this section you can manage the registry of third-party companies.



12.2.1. Information

The main registry data of a third-party company can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

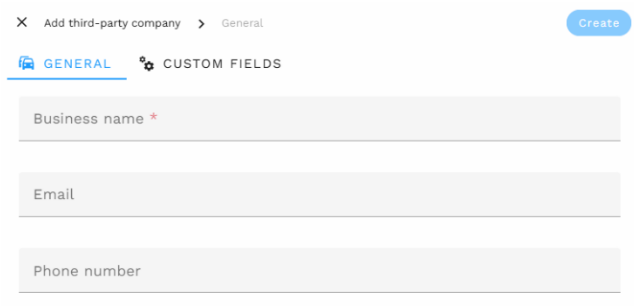
12.2.2. Addition

To add a third-party company, press the button at the top right Add third-party company.

A panel will open on the right with all the fields to fill in to create a new third-party company. The fields are grouped and divided into tabs (or sections) based on the topic.

12.2.2.1. GENERAL information section

In this section you can set the general information of a third-party company:



- **Company name** (mandatory)

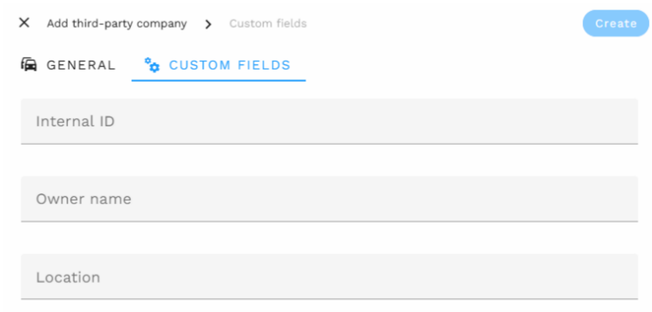
  Name that uniquely identifies the company
- **Email** (optional)
  The address of the third-party company. If specified, this will be the email address to which the driver can send the details of the delivery just performed on a third-party company registration number.

  NOTE: This email sending feature is available only if the "Enable email to third-party companies" option is active in the "Settings/Add-on/Maply" section.
- **Phone number** (optional)

12.2.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for third-party companies (see section 14.2.1).

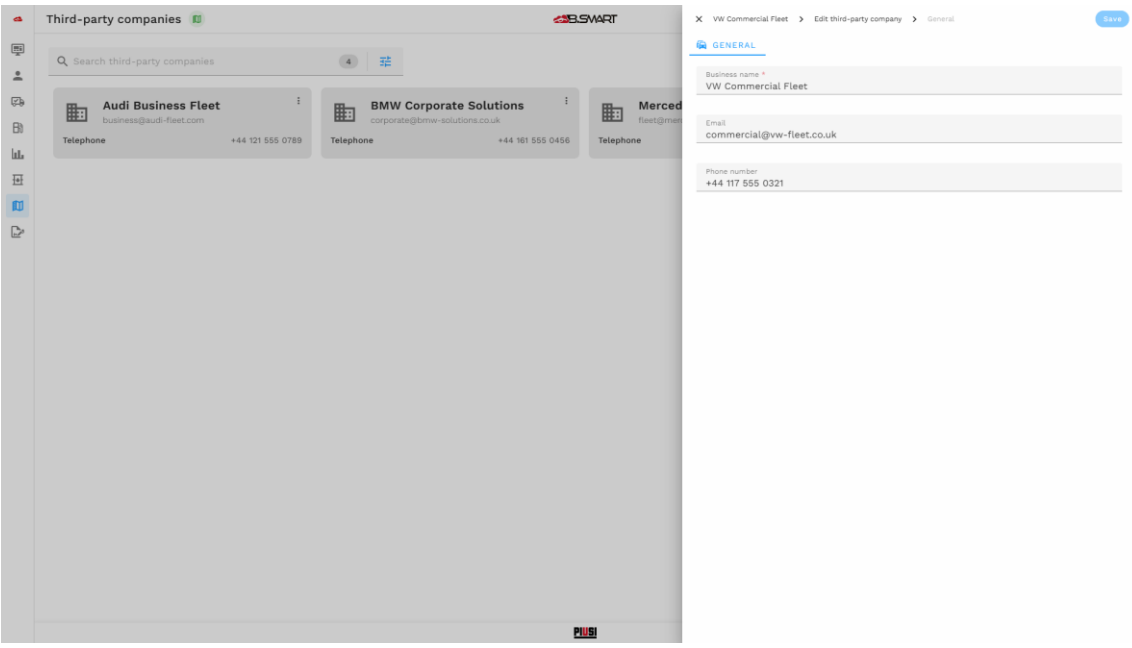
In this section you can set the values of the custom fields for third-party companies.



12.2.3. Edit

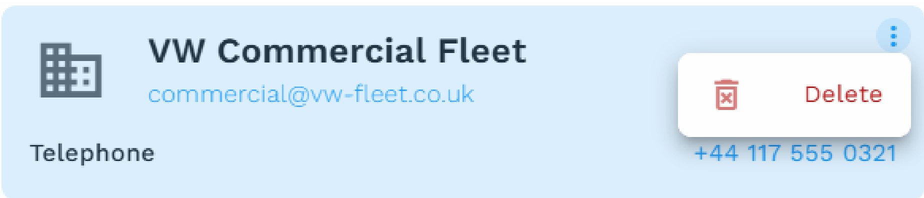
To edit a third-party company, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the data of the selected third-party company and can be edited with the desired values.



12.2.4. Management operations

By clicking on the three dots at the top right of the third-party company card, the actions that can be performed on it will appear.



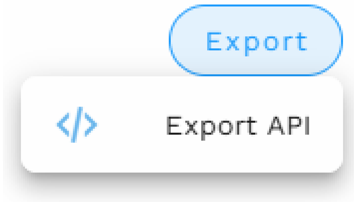
12.2.4.1. Delete

By pressing “Delete” the third-party company will be deleted. Confirmation will be requested before performing a deletion.

12.2.5. Export

It is possible to export third-party companies in only one way: API.

By clicking the “API Export” option, you will be redirected to the export API documentation for third-party companies.



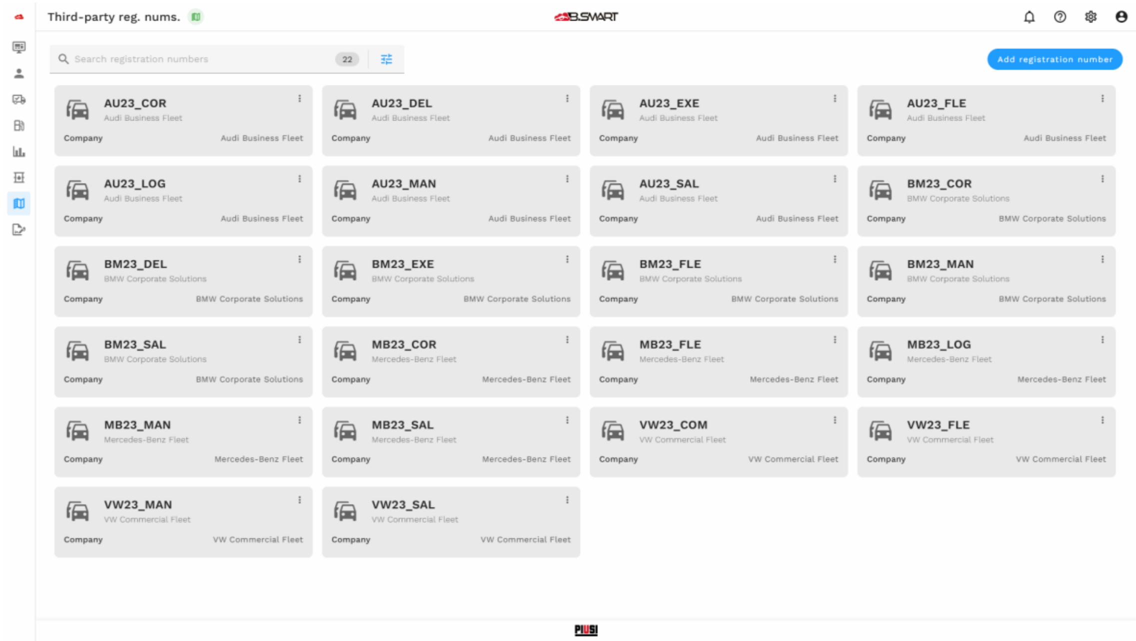
Note

The “Export via API” option is only available after enabling the “Enable export API” setting. See chapter 14.2.2.

12.3. Third-party registration numbers

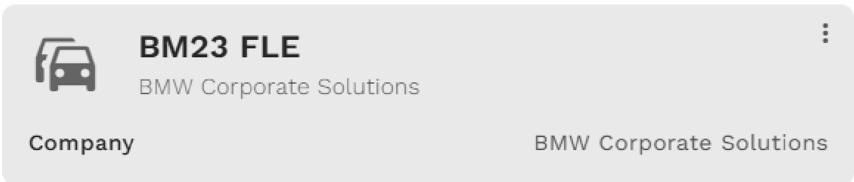
NOTE: the section is available only after activating the dedicated "Maply" add-on and if the "Enable third-party refueling" option is enabled in the Maply add-on configuration.

In this section you can manage the registry of registration numbers of third-party companies.



12.3.1. Information

The main registry data of a third-party registration number can be viewed directly from the card in the list.



To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

If the icon  is present at the top right, refueling to the third-party registration number is protected by RFID TAG.

12.3.2. Addition

To add a third-party registration number, press the button at the top right Add registration number.

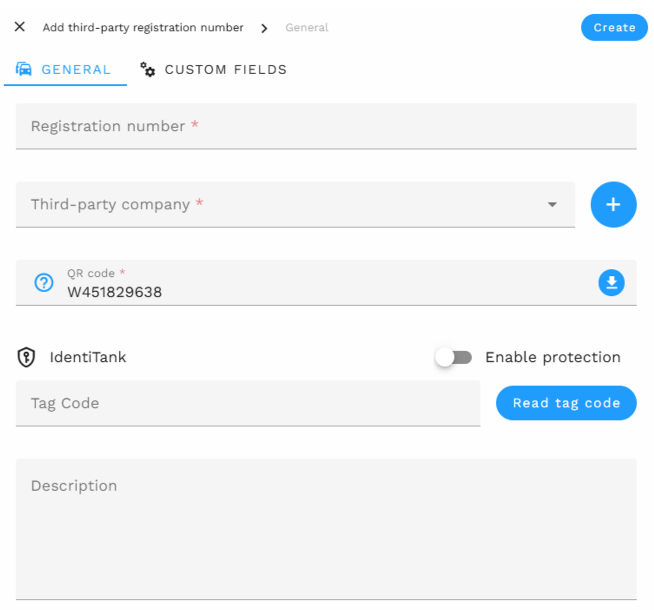
A panel will open on the right with all the fields to fill in to create a new third-party registration number. The fields are grouped and divided into tabs (or sections) according to the topic.

Note

Third-party registration numbers are created by entering only the license plate (or registration number) and selecting an associated company. It is not possible to enter values such as odometer or hours.

12.3.2.1. GENERAL information section

In this section you can manage the registry of registration numbers of third-party companies:



- **Registration number** (Mandatory)

  Unique name that identifies the registration number.
- **Third-party company** (Mandatory)
  The third-party company to which the registration number belongs
- **QR code**

  Unique alphanumeric string identifying the registration number (by default the field is pre-filled with a string automatically generated by the system). By pressing the button a printable label is generated with the entered string converted into a scannable QR code. The label can be scanned by a driver with the mobile application to more quickly select the registration number when creating a new refueling.
- **Description** (Optional)
  Text field to save additional information

- **TAG code**

  Enter the numeric string of the RFID TAG installed on the third registration number. This field allows the system to recognize the third registration number by reading the TAG with the appropriate scanner during dispensing.
  Warning: this field is required only if dispensing protected by TAG is enabled.

  > The TAG code can be entered manually by reading the code on the key or automatically using the appropriate reader to be connected to the PC.
  > In this case, it is necessary to install the *PIUSI IBUTTON READER* tool and, once installed, press the Read tag code *button).*
  >
  > It is possible to read the TAG and associate it directly with the smartphone App (see the TAG section of the smartphone App manual).

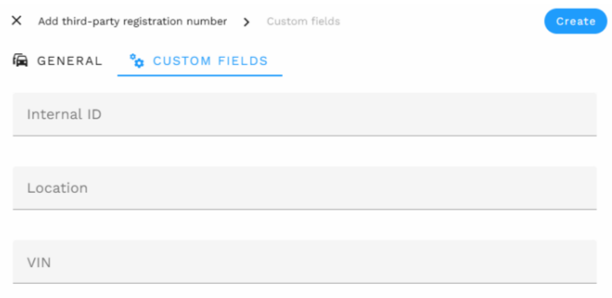
- **Enable dispensing protected by TAG**

  By enabling this function, refueling to the specified third registration number can only be performed if the RFID TAG is detected for the entire duration of the refueling operation.
  If the TAG associated with the third registration number is not read, dispensing will be interrupted.

12.3.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for third-party registration numbers (see section 14.2.1).

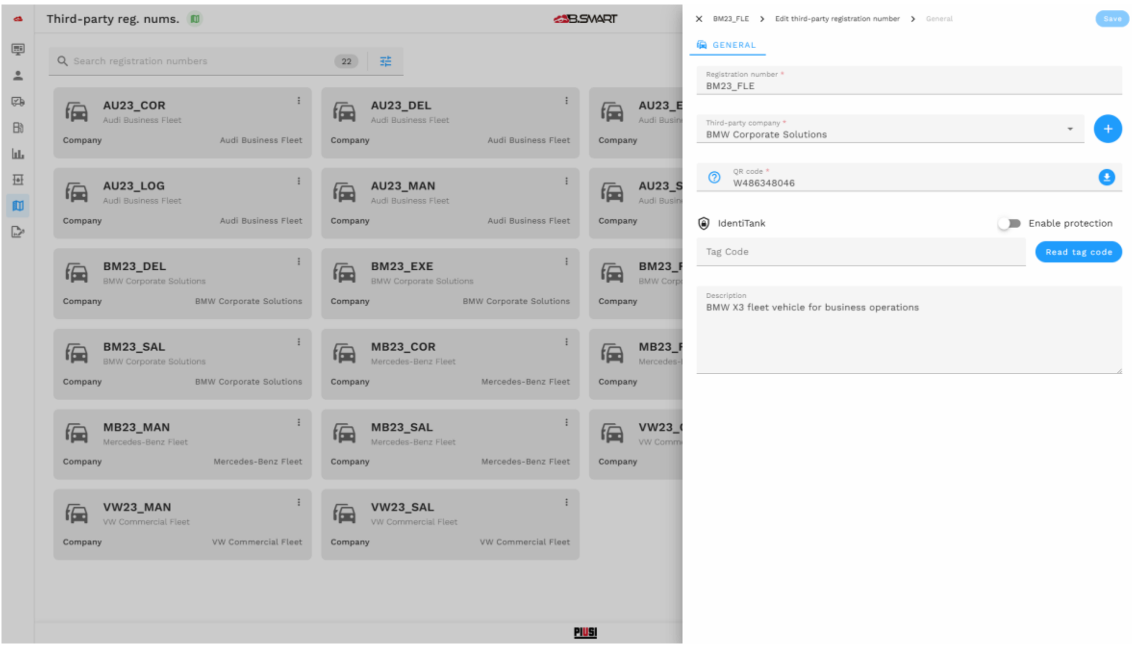
In this section, you can set the values of custom fields for third-party registration numbers.



12.3.3. Edit

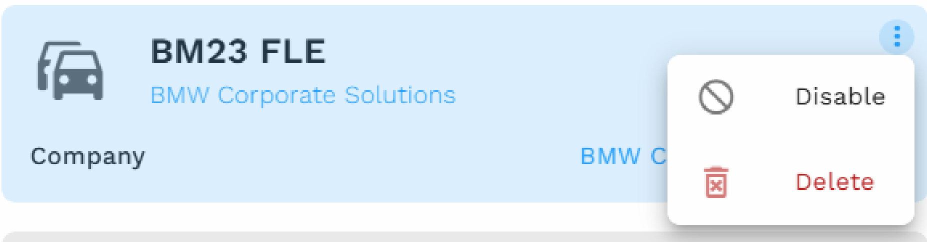
To edit a third-party registration number, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the data of the selected third registration number and can be edited with the desired values.



12.3.4. Management operations

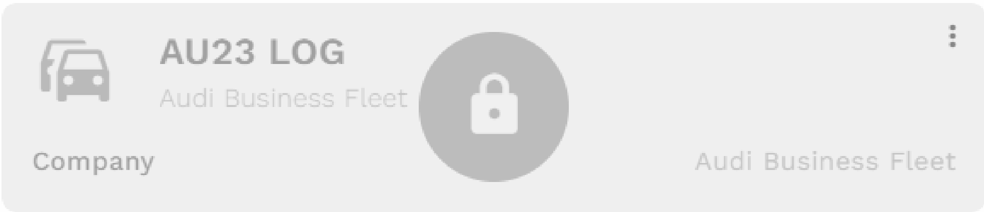
By clicking on the three dots at the top right of the card for a third-party registration number, the actions that can be performed on it will appear.



12.3.4.1. Disable

By pressing "Disable" (or "Enable"), the registration number will be disabled (or enabled). Confirmation will be requested before disabling (or enabling).

By pressing "Disable", the registration number will be disabled. A disabled registration number will be displayed differently, with a padlock and partial transparency.

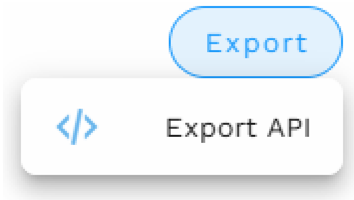


To re-enable the registration number, you need to press the three dots at the top right and select the "Enable" option. Confirmation will be requested before performing an enable action.

12.3.4.2. Delete

By pressing "Delete", the registration number will be deleted. Confirmation will be requested before performing a deletion.

12.3.5. Export



It is possible to export third-party registration numbers in only one way: API.

By clicking the "API Export" option, you will be redirected to the export API documentation for third-party registration numbers.

> **Note**
>
> *The “Export via API” option is only available after enabling the “Enable export API” setting. See chapter 14.2.2.*

13. MASTERSITE

NOTE: this section is available only after activating the dedicated "MasterSite" add-on.

The MasterSite add-on adds tank rental management features to B.SMART.

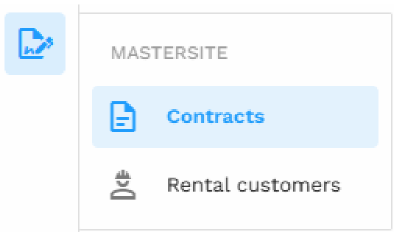
- **For tank rental companies**

  The MasterSite add-on allows the rental company to create and manage contracts, keep track of their rental customer records, manage rentals and the movement of tanks and dispensers from their own site to their customers.

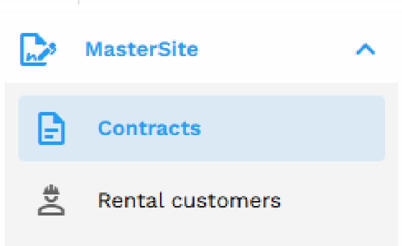
- **For rental customers**

  The MasterSite add-on allows the customer to use B.SMART features, not through direct purchase of B.SMART devices, but by receiving from the rental company:
  - one or more tanks connected to B.SMART devices;
  - an invitation to access their own temporary site where these rented devices will remain until the contract is closed.

In the MASTERSITE section, accessible by pressing the menu icon shown below, you can manage rental contracts and rental customer records.



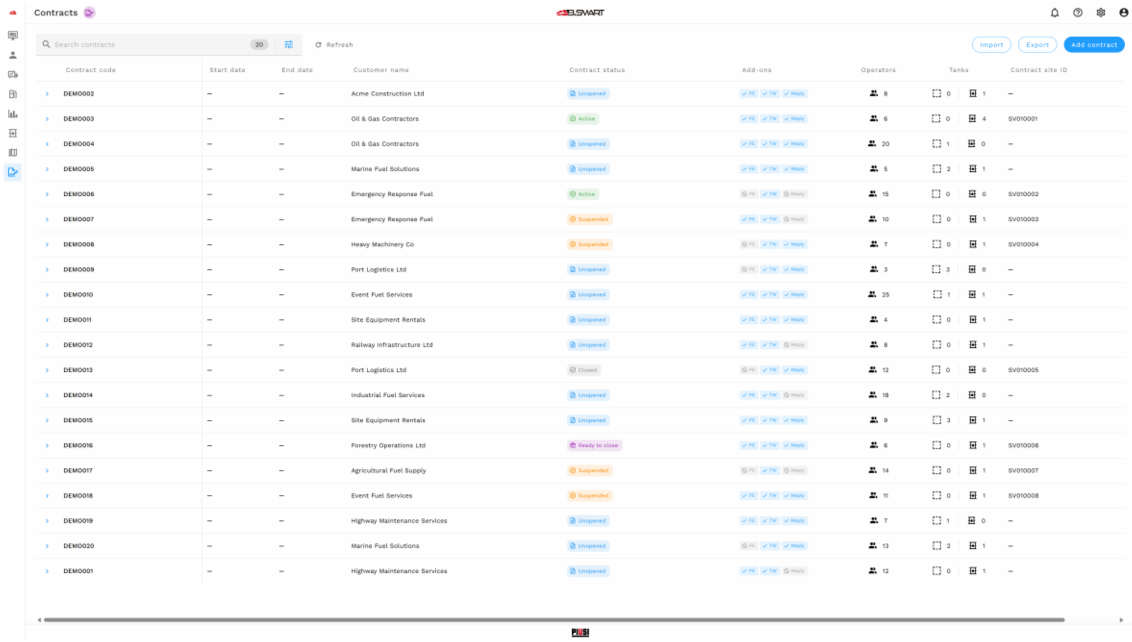
MasterSite icon (compact menu), with submenu icons.



MasterSite icon (expanded menu), with submenu items.

13.1. Contracts

From this section, you can manage rental contracts.



13.1.1. Concepts and terminology

Below are some basic concepts and terminology used during the explanation of MasterSite features:

- **Rental contract**

  Document signed between the rental company and the customer, which governs and tracks the rental of units between the main site and the contract site.

- **Unit**

  By "unit" we mean the combination of tank and control unit (dispenser).
  One of the requirements for a tank to be associated with a contract and therefore actually rentable is that it is associated with a B.SMART dispenser.
  MasterSite, in fact, requires that each tank of the rental company be physically paired with a B.SMART control unit, and that this combination be sent as a single "unit" to the customer. This association between tank and dispenser must also be recorded in your own B.SMART site.

- **Contract site**

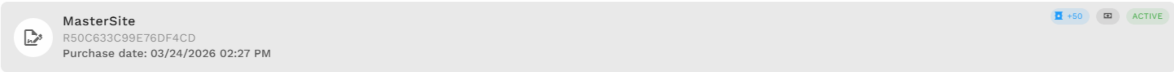
  The contract site is a fully functional B.SMART site, whose duration is temporary: this site is created when a contract is opened and is closed when the contract ends.

The site data, once closed, remain for a period of time, after which they will be permanently deleted.

13.1.2. Prerequisites for rental

To be able to rent a unit (tank + dispenser), several requirements must be met:

- The MasterSite add-on must be active on the system.



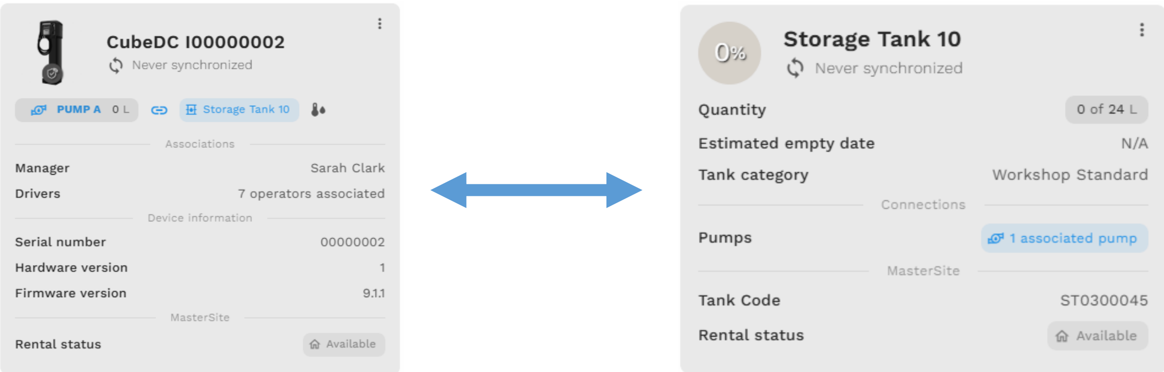
- At least one tank must have been created with:
  - a category associated with it;
  - the "Rentable" option enabled;
  - the tank code set

  The last two fields are found in the MasterSite tab of the tank creation/edit form, see chap. 11.1.2.2).

  These operations will set the tank to the "Available" status.

- The tank must be associated with a device (the field to make the association is found in the "Pumps" tab of the device creation/edit form, *see chap. 9.3.29.3.2.1*).

  This operation will also set the device to the "Available" status.



With these prerequisites met, it is possible to associate the tank with the contract. Once this operation is completed, the unit consisting of the tank and associated device will be considered "reserved" on the contract in question and the tank cannot be associated with other contracts. The tank can be released from the contract in two ways:

- If the unit is rented and follows the entire rental lifecycle before being returned, or
- By removing the tank from the contract, either through actions on the tank row (deletion allowed only if the tank is in "pending" status), or by modifying the contract in the "Tanks" tab (*see chap. 13.1.11.3*), by unchecking the box for the tank you want to disassociate.

From activation onwards, the unit will be considered rented and will change status as described in chapter 13.1.5.

13.1.3. Data display

Contracts are displayed in tabular form. Each row of the table shows the main data of the contract

Contract code	Start date	End date	Customer name	Contract status	Add-ons	Operators	Tanks	Contract site ID
CONTRACT-003	03/26/2026	03/26/2026	Oil & Gas Contractors	Active	FE TW Maply	6	0 4	SV010001

In detail:

- **Contract code**
  The unique code that identifies the contract

Contract code	Start date	End date
CONTRACT-003	03/26/2026	03/26/2026

- **Contract start date**

  Personal data of contract start date

- **Contract end date**

  Personal data of contract end date

- **Rental customer name**
  The name of the customer for whom this rental contract was opened.

Customer name	Contract status
Oil & Gas Contractors	Active

- **Contract status**

  The current status of the contract (*see chap. 13.1.4for more information*).

- **Active add-ons on the contract**
  The add-ons assigned to the site of this contract (*see chap. 13.1.6for further information*).

Add-ons	Operators
FE TW Maply	6

- **Number of operators assigned to the contract**

  The number of operators assigned to this contract (*see chap. 13.1.7for further information*).

- **Number of tank slots / tanks assigned to the contract**
  The number of tank slots and actual tanks assigned to the contract (*see respectively chaps. 13.1.9.1and 13.1.9.2 for further information*).

Tanks		Contract site ID
0	4	SV010001

- **Contract site code**

  If the contract has been activated, the contract site code accessible by the rental customer will be shown.

13.1.4. Contract statuses

Each contract has a lifecycle determined by a status. Below are the statuses a contract can have:

Status	Name	Description
Unopened	Not opened	The contract has been created, but has not yet been activated
Active	Enabled	The contract has been activated, the contract site has been created for the rental customer
Suspended	Suspended	The contract has been suspended: the contract site is not accessible and the pumps of the rented units are blocked
Ready to close	Ready for closure	The contract has been marked as "ready for closure": all rented units are marked as "to be returned", the contract site is not accessible, the pumps of the rented units are blocked
Closed	Closed	The contract is closed. This status is reached automatically after the closure of the last rental on the last tank of the contract

Note

A contract can be deleted if and only if it is in the Closed (closed) status.

13.1.4.1. Status transitions

Below are the allowed status transitions for contracts:

From		A	How to change the status
Unopened	→	Active	Press the activate button on the contract ( )
Active	→	Suspended	Press the suspend button on the contract ( )
Active	→	Ready to close	Press the "Ready for closure" button on the contract ( ). Alternatively, the contract automatically moves to this state when its last tank is moved to the "To be returned" state via the relevant action on the contract's tank.
Suspended	→	Active	Press the activate button on the contract ( )
Ready to close	→	Active	Resume the rental of any tank in the contract, bringing it back to "In progress" via the relevant action on the contract's tank.

Ready to close → Closed *(automatic transition to the return of the last unit)*

Note

Any other status change not listed in the table above is considered illegal and will be blocked by the system.

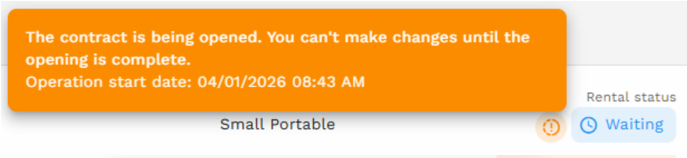
13.1.5. Rental statuses

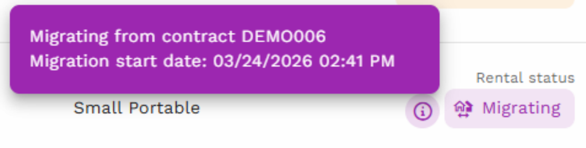
Each rented unit (tank + dispenser) has a specific rental lifecycle, for the entire duration of its presence within a contract. Each phase of the lifecycle is described by a status. Below are the statuses that a unit can have:

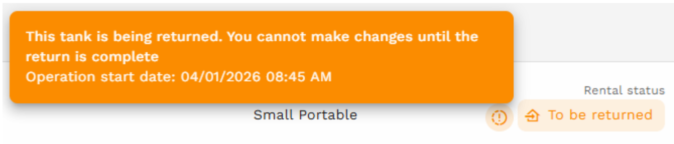
Status	Name	Description
Waiting	Pending	The unit has been associated with the contract, but the rental has not yet been started on the unit. When the unit is in this state, it will be possible to connect via the smartphone application as "Renter" to start the "rental opening" procedure.
In progress	In progress	The unit has been rented, after completing the rental process via the smartphone application
Migrating	In migration	The unit has been moved from one contract to another via an operation on the webapp. The unit is already moved to the destination contract site, however, to finalize the migration operation, it will be necessary to perform a specific procedure by connecting to the unit via the mobile application.
To be returned	To be returned	The unit is marked as "To be returned" and it will not be possible to dispense from it. When the unit is in this state, it will be possible to connect via the smartphone application as "Renter" to start the "rental closure" procedure.
Returned / Available	Returned / Available	The unit is already at the main site or has been returned and brought back to the main site. It is available for rental. NOTE: this status will display the label "Returned" on the contracts page and "Available" on the tanks and dispensers pages

The tanks, only in certain rental statuses, can have a pending operation on them. The pending operation is represented by an icon next to the status.

- Tank in status Waiting ("Pending") on which the rental procedure has been started from the app.
- Tank whose migration has been started from the webapp.
  The contract from which the migration was started and the migration start date will be displayed.
- Tank in status To be returned ("To be returned") on which the rental closure procedure has been started from the app







It is not possible to perform any operation on a tank that has a pending operation on it.

Note

The rental statuses are also shown within the cards of the entities involved in the rental (tanks and dispensers). See the respective sections 9.2 and 11.1.1 for more information.

13.1.5.1. Status transitions

Below are the allowed status transitions for rented units:

From		To	How to change the status
Waiting	→	In progress	Start the rental opening procedure on the smartphone application after connecting to the dispenser with it as "Renter" *(see App manual for more information).*
In progress	→	Migrating	Move the unit from one active contract to another active contract, via the actions on the tank row *(see chap. 13.1.9.2for more information)*
In progress	→	To be returned	Press the "Request return" button on the tank row of a contract *(see chap. 13.1.9.2for more information)*
Migrating	→	In progress	*(automatic transition at the end of the migration procedure, see App manual for more information)*
To be returned	→	In progress	Press the "Resume rental" button on the tank row of a contract *(see chap. 13.1.9.2for more information)*
To be returned	→	Returned	Start the rental closure procedure on the smartphone application after connecting to the dispenser with it as "Renter" *(see App manual for more information).*

13.1.6. Contract add-on

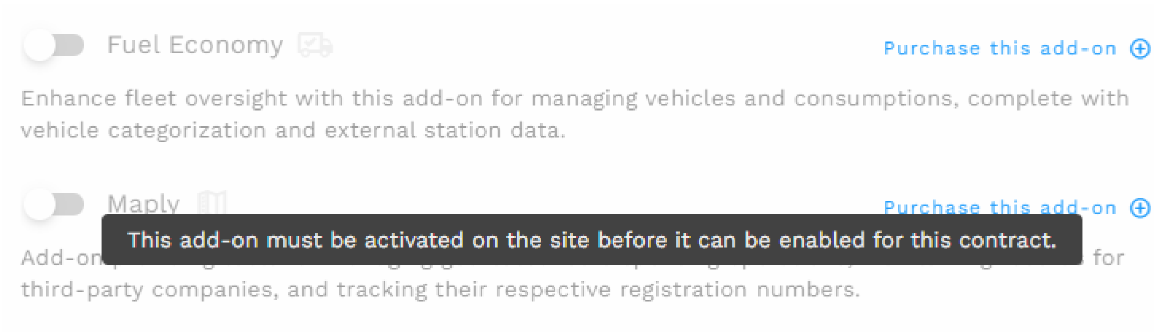
It is possible to assign B.SMART add-ons to contracts. The add-ons will be activated on the contract site and the rental customer will be able to use their features.

The contract add-ons have the following limitations:

- The Tank Watchdog add-on is activated by default on contract sites, as it is necessary for the operation of MasterSite.
- It is not possible to assign to the contract add-ons that are not present on the main site.

  That is: to be able to activate Fuel Economy on a contract, it will be necessary to have purchased and activated the Fuel Economy add-on on the main site; to be able to activate Maply on a contract, it will be necessary to have purchased and activated the Maply add-on on the main site.

  If an add-on is not active on the main site, the relevant field within the contract modification form (tab "Add-on") will be disabled and, on mouseover, a warning will be shown, as shown in the following image:



13.1.7. Contract operators

It is possible to associate operators with the contract. The number of operators assigned to the contract will determine how many operators with the "Driver" role can be created on the contract site.

You can change the number of operators associated with the contract at any time, even after the contract has been activated. The changes will be reflected on the contract site.

Note!

- Once the first operator with the "Driver" role is created on the contract site, it will no longer be possible to decrease the number of operators assigned to that contract. It will only be possible to increase it.
- **Assigning operators to a contract uses driver slots** (provided by the Plus Drivers add-on) **on the main site.** Reducing the number of operators on contracts (or closing contracts) consequently frees up driver slots on the main site.

13.1.8. Contract management operations

By hovering the mouse over the row of a contract, the actions that can be performed on it will appear at the bottom right. Below is a brief description of them:

Action icon	Action name	Description
	Activate	Activates the selected contract. Once activated, a contract site will be automatically created and a confirmation email will be sent to the rental customer with instructions on how to access it. NOTE: this button is only available if the contract is in status Unopened ("Not open") or Suspended ("Suspended").

	Edit	Allows you to edit the contract data. NOTE: this button is available in all contract statuses **except** Closed ("Ready for closure") and Closed ("Closed")
	Delete	Allows you to permanently delete the contract. NOTE: this button is only available if the contract is in status Unopened ("Not open") or Closed ("Closed")
	Resend invitation	Allows you to resend the invitation email to the contract site to the rental customer.
	Export	Allows you to export the contract data at any time NOTE: this button **is not** available when the contract is in status Unopened ("Not open").
	Suspend	Allows you to temporarily suspend a contract. NOTE: this button is only available when the contract is in status Active ("Active").
	Move to "ready for closure"	Allows you to mark the contract as "Ready for closure", moving all units to status To be returned ("To be returned"), which makes it possible to start the rental closure procedure on them. NOTE: this button is only available when the contract is in status Active ("Active").

The actions are explained in detail in the following paragraphs.

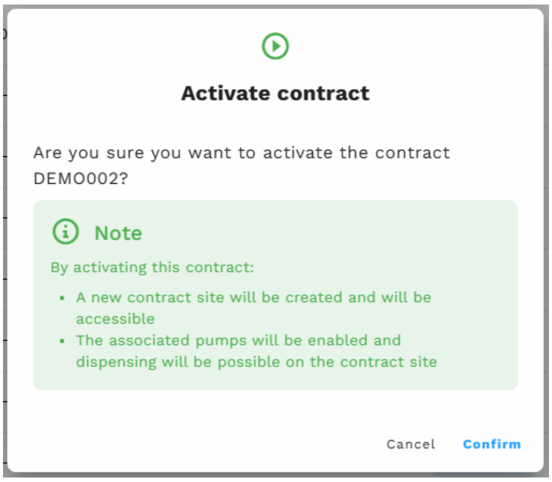
13.1.8.1. Activation

By pressing the activation button of a contract, a notice will appear briefly explaining what will happen upon activation.

- A contract site will be automatically created for the rental customer;
- The units (tank + device) will be visible on the contract site

By pressing the confirm button, the contract will be activated.

The system will send an automatic invitation email to the customer, allowing them to complete the registration process on the contract site.



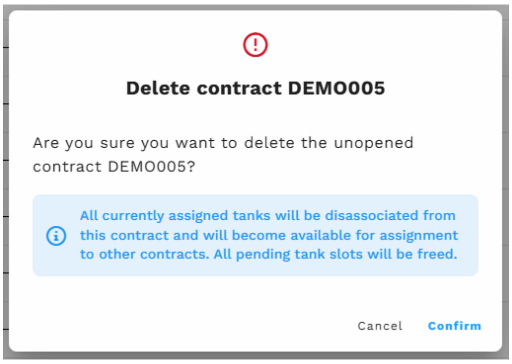
13.1.8.2. Edit

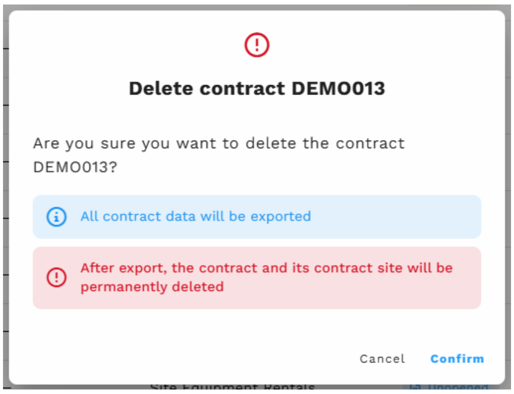
By pressing the edit button a side panel will open to edit the contract information (*see chapter 13.1.12 for more information*).

13.1.8.3. Delete

By pressing the delete button , one of two flows will occur:

- If the contract is in status Unopened ("Not open"), the tanks associated with the contract are released and become available for association with other contracts.
- If the contract is in status Closed ("Closed"), the contract data will first be exported (*see section 13.1.8.5*). Subsequently, the contract will be permanently deleted, along with all its data.



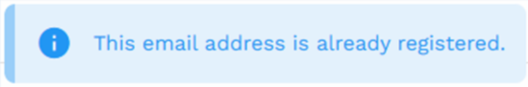


13.1.8.4. Resending an invitation

By pressing the resend invitation button, the invitation email will be resent to the rental customer. The email address to which the invitation will be sent is the address specified in the "Email" field of the rental customers' records (*see chap. 13.2.2.1*).

Note

- If the rental customer has already accessed the contract site, the invitation email will not be resent and a notice will be shown:

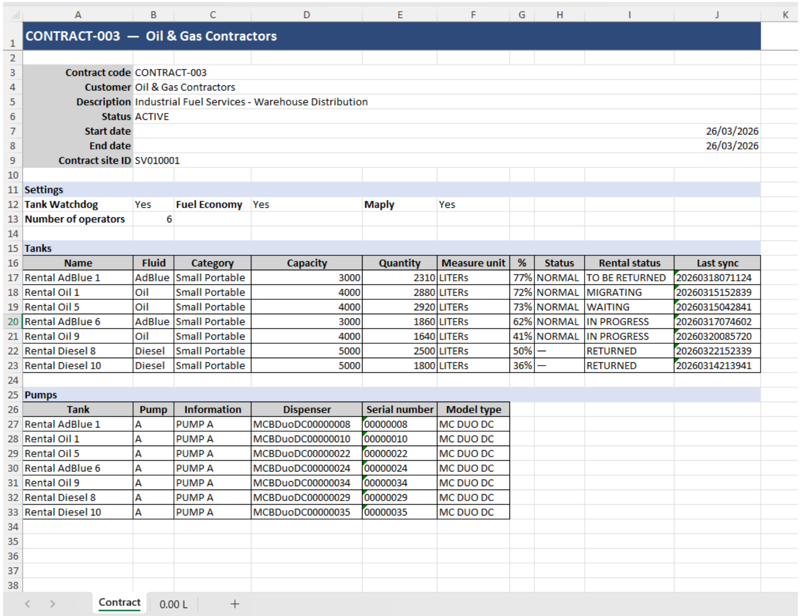


- There is a limit of one request per minute. It will not be possible to make more than one invitation request per minute for each rental customer. Consecutive request attempts will be blocked and the following error message will be displayed:

13.1.8.5. Contract data export

You can export the contract data at any time by pressing the export button.

An Excel file will be generated and downloaded containing two sheets: the first with information about the contract and the associated tanks, the second with the deliveries made on the contract site up to that moment.



CONTRACT-003 — Oil & Gas Contractors

Contract code	CONTRACT-003
Customer	Oil & Gas Contractors
Description	Industrial Fuel Services - Warehouse Distribution
Status	ACTIVE
Start date	26/03/2026
End date	26/03/2026
Contract site ID	SV010001

Settings

Tank Watchdog	Yes	Fuel Economy	Yes	Maply	Yes
Number of operators	6				

Tanks

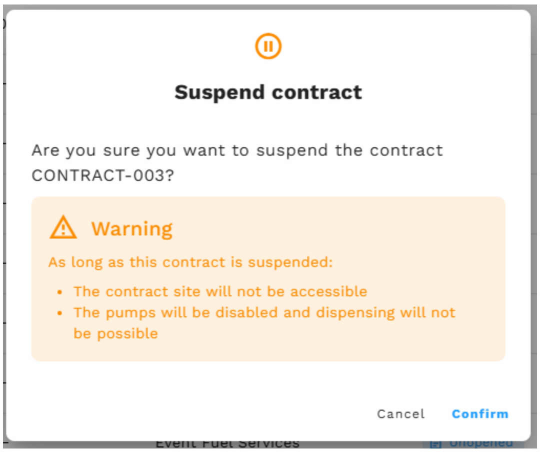
Name	Fluid	Category	Capacity	Quantity	Measure unit	%	Status	Rental status	Last sync
Rental AdBlue 1	AdBlue	Small Portable	3000	2310	LITERs	77%	NORMAL	TO BE RETURNED	20260318071124
Rental Oil 1	Oil	Small Portable	4000	2880	LITERs	72%	NORMAL	MIGRATING	20260315152839
Rental Oil 5	Oil	Small Portable	4000	2920	LITERs	73%	NORMAL	WAITING	20260315042841
Rental AdBlue 6	AdBlue	Small Portable	3000	1860	LITERs	62%	NORMAL	IN PROGRESS	20260317074602
Rental Oil 9	Oil	Small Portable	4000	1640	LITERs	41%	NORMAL	IN PROGRESS	20260320085720
Rental Diesel 8	Diesel	Small Portable	5000	2500	LITERs	50%	—	RETURNED	20260322152339
Rental Diesel 10	Diesel	Small Portable	5000	1800	LITERs	36%	—	RETURNED	20260314213941

Pumps

Tank	Pump	Information	Dispenser	Serial number	Model type
Rental AdBlue 1	A	PUMP A	MCBDuoDC00000008	00000008	MC DUO DC
Rental Oil 1	A	PUMP A	MCBDuoDC00000010	00000010	MC DUO DC
Rental Oil 5	A	PUMP A	MCBDuoDC00000022	00000022	MC DUO DC
Rental AdBlue 6	A	PUMP A	MCBDuoDC00000024	00000024	MC DUO DC
Rental Oil 9	A	PUMP A	MCBDuoDC00000034	00000034	MC DUO DC
Rental Diesel 8	A	PUMP A	MCBDuoDC00000029	00000029	MC DUO DC
Rental Diesel 10	A	PUMP A	MCBDuoDC00000035	00000035	MC DUO DC

Contract | 0.00 L

13.1.8.6. Suspension

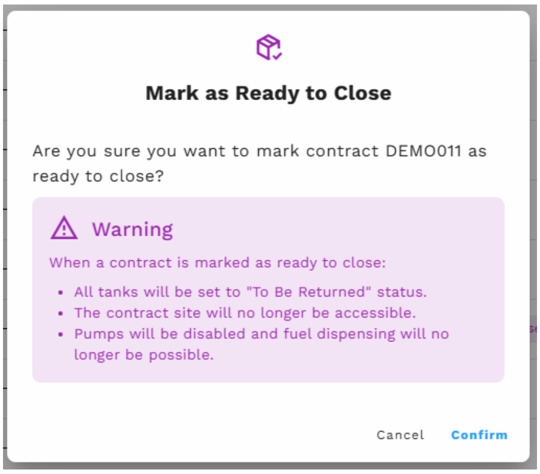


By pressing the suspension button of a contract, a notice is displayed briefly explaining what will happen upon suspension.

- The contract site will be blocked: it will not be possible to perform operations on it or to log in;
- The pumps of the devices present on the contract site will be disabled and it will not be possible to dispense from them.

By pressing the confirm button, the contract will be suspended.

13.1.8.7. Preparation for closure



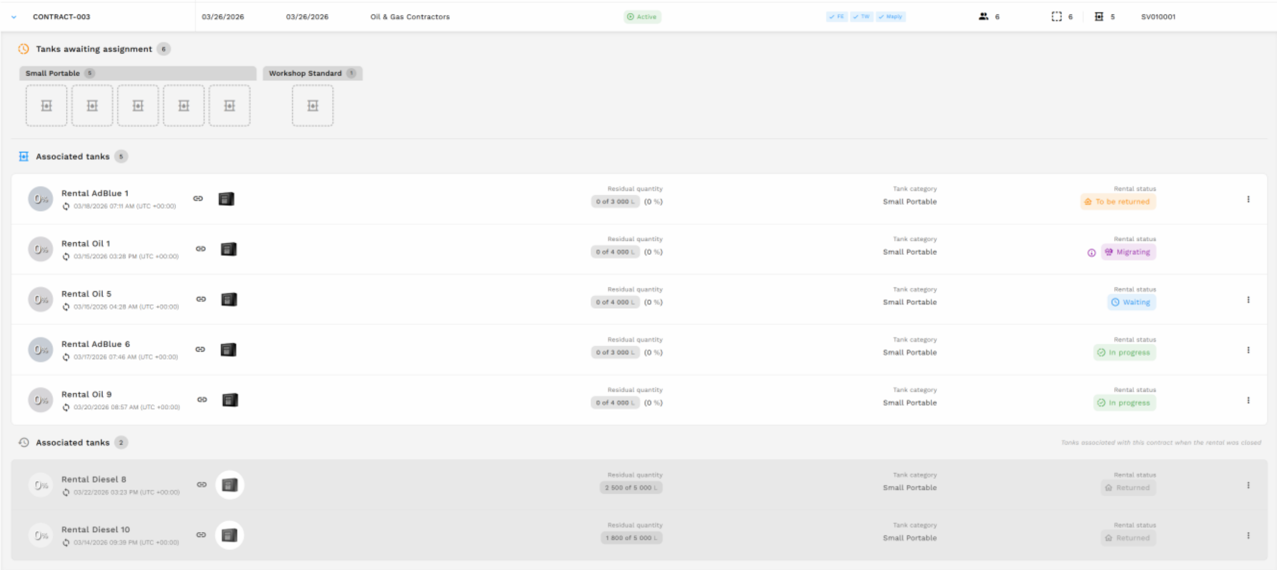
By pressing the “Ready for closure” button of a contract, a notice is displayed briefly explaining what will happen in this state.

- All tanks associated with the contract will be moved to the state To be returned (“To be returned”);
- The contract site will be blocked: it will not be possible to perform operations on it or to log in;
- The pumps of the devices present on the contract site will be disabled and it will not be possible to dispense from them.

By pressing the confirm button, the contract will be suspended

13.1.9. Contract details

By clicking the > button located at the beginning of each row, the detailed information of the contract in question will open, namely the tanks/slots associated with the contract.

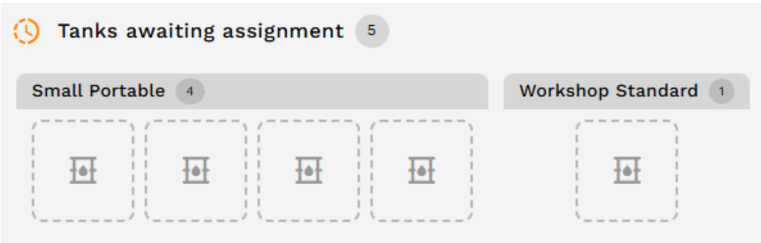


In this subsection you will be able to see (if present):

- **Tank slot** pending association
- **Tanks** actually **associated** with the contract, with information on level, synchronization, percentages, rental status, and actions that can be performed on the tank
- **History** of **tanks** associated at the time of the closure of their rental

13.1.9.1. Tanks pending association

"Pending tanks" can be added to a contract by category, which still need to be associated with the contract.



These pending tanks are grouped by category: a bar above each group indicates the name of the category and the number of tanks that remain to be associated.

Tanks pending association can be filled by accessing the smartphone application and entering the desired tank code (*see the App manual for more information*). The system:

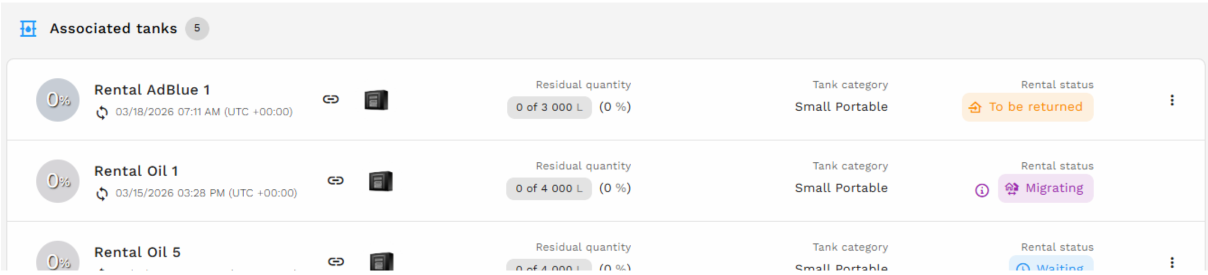
- It will verify the consistency of the tank you want to associate with the slot, checking that the tank in question is available, rentable, associated with a device, and that its category matches that of the slot you want to fill.

- It will associate the tank corresponding to the entered code with the contract
- In the contract details section, it will remove a pending slot and in its place add a row corresponding to the newly associated tank.

Note

A contract with pending slots not yet associated **cannot** be activated. All slots must first be filled by associating actual tanks to the contract via the smartphone application.

13.1.9.2. Associated tanks



Tanks can be directly associated with a contract through the “Individual tanks” subsection of the “Tanks” tab in the contract creation/edit form (*see chap. 13.1.11.3*).

Each row represents a tank associated with the contract. Tanks in state Waiting (“Pending”) are still at the main site, those in state In progress have already been started, configured, and shipped to the customer (or are about to be), while tanks in other states have already been delivered to the customer's site.

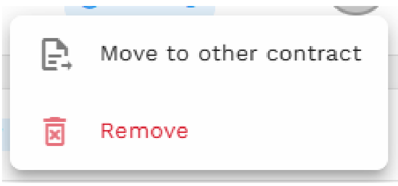
Tank information

Each row contains the following information:

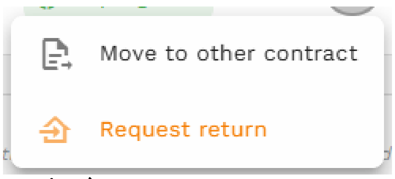
- Tank name
- Tank level (data from the customer's site)
- Last update date (data from the customer's site)
- Dispenser associated with the tank
- Remaining quantity and percentage (data from the customer's site)
- Tank category
- Rental status

Actions on the tank

Each row also has different actions based on the combination of the contract status and the tank rental status:

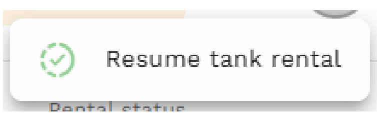
- Contract status: Unopened , rental status: Waiting
  - **Move to another contract**
    

    This operation moves the tank in question from one contract to another.
    This action, if started on a contract in state Unopened ("Not open"), can be performed <u>only</u> towards another contract with the same state Unopened ("Not open").
  - **Removal**

    This operation removes the tank from the contract, making it available for association with other contracts.
- Contract status: Active , rental status: Waiting
  - **Removal** – *See above*
- Contract status: Active , rental status: In progress
  - **Move to another contract**
    

    This operation initiates the migration of a contract to another. The tank will be moved to the destination contract / contract site. The tank will remain in a "pending" state until the migration procedure is completed via the smartphone application (*refer to the App manual for further information*).

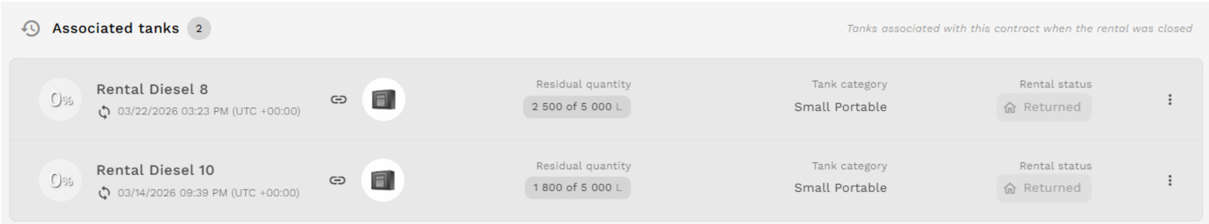
    This action, if started from a contract in Active ("Active") status, can be performed <u>only</u> towards another contract with the same status Active ("Active").
  - **Request return**

    This operation allows you to request the return of a tank, moving it to the rental status To be returned ("To be returned"). In this state, it will be possible to connect to the device via the smartphone application and start the rental closure procedure (*refer to the App manual for further information*).
- Contract status: Active , rental status: To be returned
  - **Resume rental**
    

    This operation allows you to resume the rental of a tank, moving it again to the rental status In progress ("In progress").

13.1.9.3. History of associated tanks

A contract may show a history of tanks that were initially associated with the contract and whose rental has been concluded, as shown in the figure:



All and only the tanks whose rental has been terminated through the standard rental flow with the smartphone application (*see App manual for more information*) will be shown in the list, and therefore are available again for new rentals on the main site.

They will still be shown in the contract details as history/tracking.

13.1.10. MasterSite tank slots

The MasterSite add-on is cumulative and is sold in two sizes: MasterSite +10 tanks and MasterSite +50 tanks. The tank size determines the **total** number of tanks that can be associated with contracts.

Example: having purchased three MasterSite add-ons of size +10, you will be able to associate a total of 30 tanks to the contracts. If the site contains 100 tanks, only 30 of these 100 can be associated with contracts, in any configuration (the important thing is that the sum of tanks associated with contracts does not exceed 30).

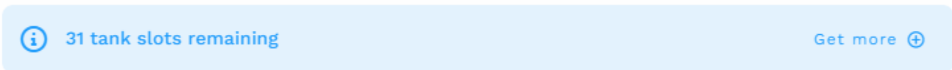
The tank size **does not** affect the total number of tanks that can be created in the "Tanks" section (*see chap. 11.1*). That number remains unlimited.

13.1.11. Addition

To add a contract, press the button at the top right Add contract.

A panel will open on the right with all the fields to fill in to create a new contract. The fields are grouped and divided into tabs (or sections) according to the topic.

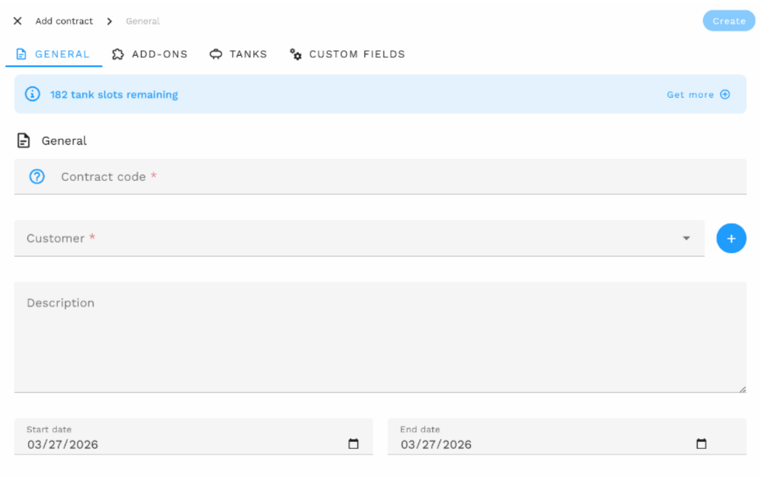
In the add and edit forms, located at the top, there is information about the remaining tank slots.



13.1.11.1. GENERAL information section

In this section, you can edit the general information of a contract:

- **Contract code** (Required)



  Unique identifier of the contract. It must be a string between 6 and 255 characters, without spaces. Special characters are allowed.

- **Customer** (required)

  Rental customer for whom to open this contract. You can select a previously created customer, or create a new one directly by pressing the + button to the right of the field.

- **Description**

  Optional contract description

- **Start date**

  Contract start date. NOTE: this field is purely for record-keeping of dates, it has no effect on the MasterSite system.

- **End date**

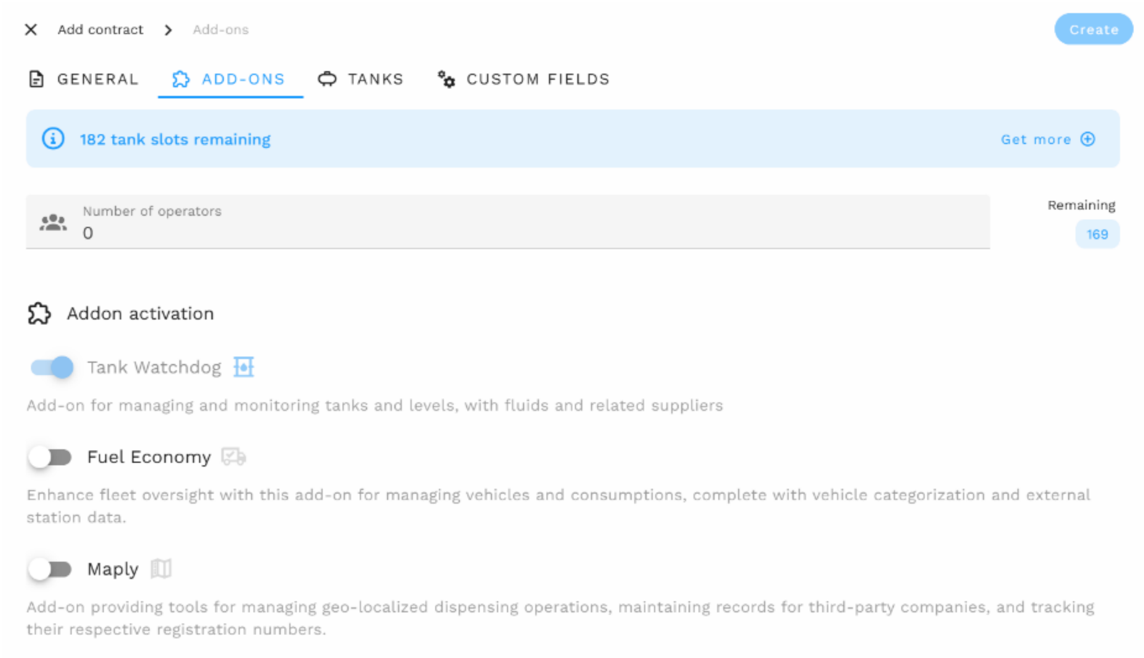
  Contract end date. NOTE: this field is purely for record-keeping of dates, it has no effect on the MasterSite system.

There is no limit to the addition of contracts.

> **Note**
>
> Contracts in "Ready for closure" Ready to close and "Closed" Closed status will not be editable (*see chap. 13.1.4for more information*).

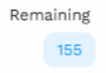
13.1.11.2. ADD-ON section

In this section, you can edit the configuration of the contract site (see chap. 13.1.1for further information).



- **Number of operators**

  The number of operators to assign to the contract site. It can be 0 at creation, but must be greater than 0 at the time of contract activation.

  A badge on the right () indicates the number of driver slots available to assign to the contract.

- **Add-on Tank Watchdog**

  Read-only field, always active. Activation of the Tank Watchdog add-on on the contract site is mandatory, since this add-on allows the management of tanks, fluids, and movements, which are necessary for the operation of MasterSite.

- **Add-on Fuel Economy**

  This field allows enabling or disabling the Fuel Economy add-on on the contract site.

- **Maply Add-on**

  This field allows enabling or disabling the Maply add-on on the contract site.

13.1.11.3. TANKS section

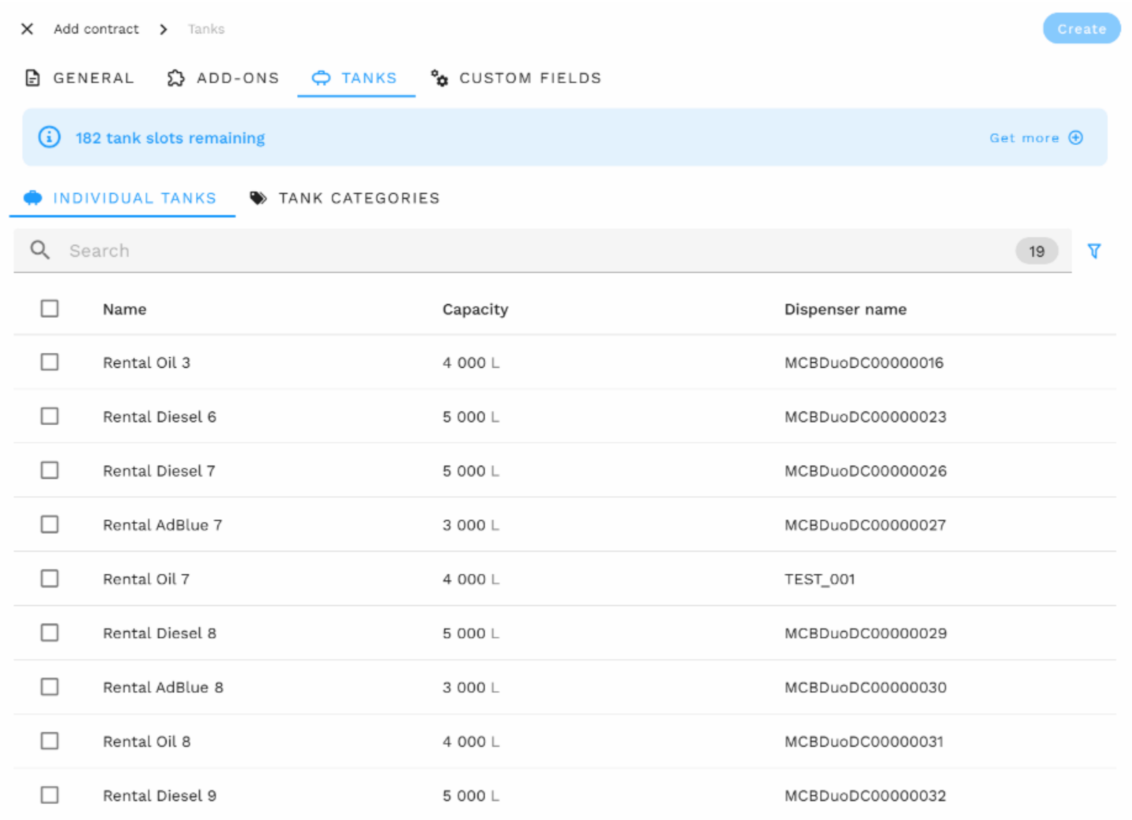
This section is divided into two subsections:

- **Individual tanks**

  It is possible to associate tanks present in the plant.

- **Tanks by category**

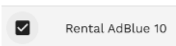
  It is possible to allocate slots to the contract by tank category. These slots will need to be filled later.



Individual tanks

In the first section, you can individually select tanks to associate with the contract.

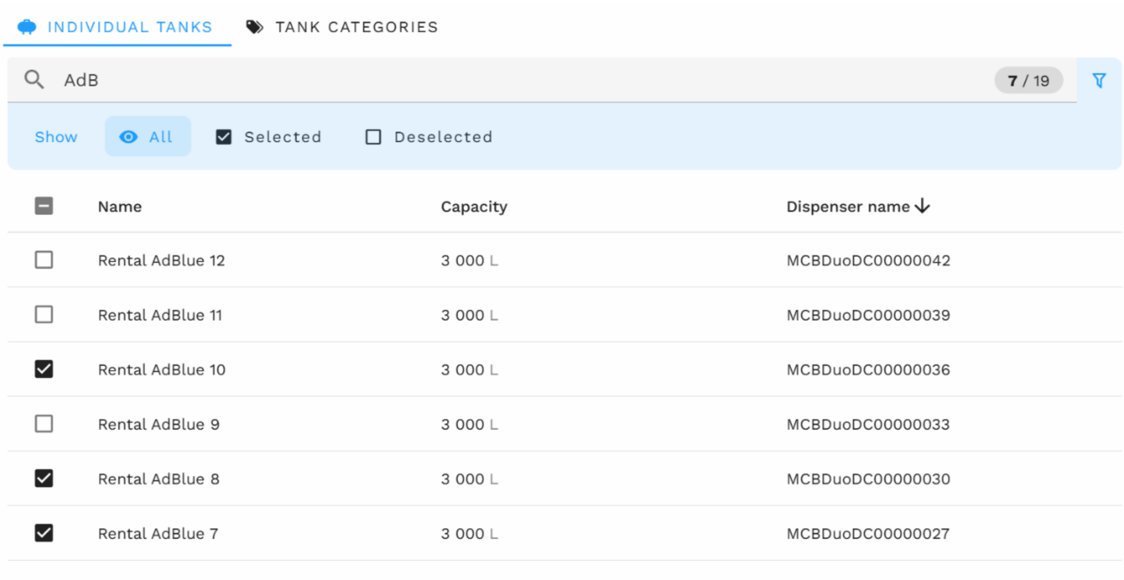
The table offers several features:

- You can select more than one tank at a time using the checkboxes to the left of each row 

- You can select all tanks at once using the checkbox in the header row 

- You can filter by tank name / capacity / dispenser name using the search bar at the top
- You can filter items by all / only selected / only deselected by clicking the advanced filter button .
- The list shows the selected items out of the total, at the top right: 10 / 19

Below is an image showing all the above-described features in use:

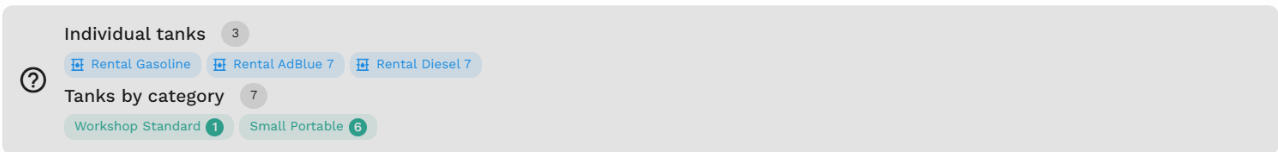


The selected tanks, upon creation, will be associated with the contract and will not be available for association with other contracts as long as they remain associated with the contract in question.

Note

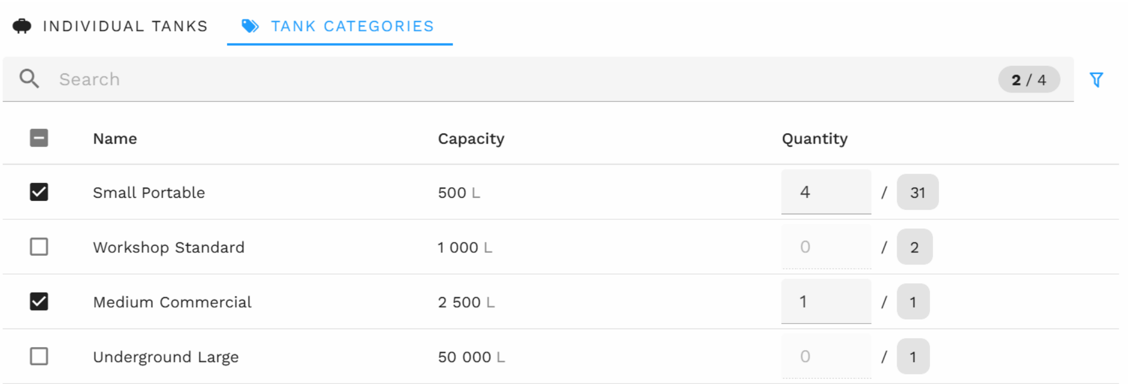
This “individual tanks” association feature is designed for plants with few tanks or for plants where tanks can be easily and accurately identified, since the tank in the B.SMART site **must** match the physical tank that will be rented.

The currently selected tanks will be shown in the information card at the bottom of the “Tanks” tab in the contract add/edit form.



Tanks by category

In the second section, you can select tanks by category.

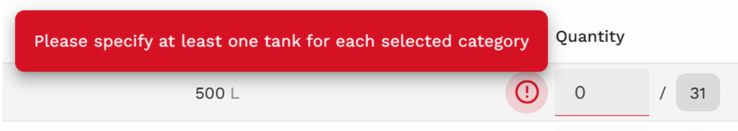


	Name	Capacity	Quantity
☑	Small Portable	500 L	4 / 31
☐	Workshop Standard	1 000 L	0 / 2
☑	Medium Commercial	2 500 L	1 / 1
☐	Underground Large	50 000 L	0 / 1

Each row represents a tank category. All categories present in the B.SMART site will be displayed (*see chap. 11.2for more information on tank categories*).

The numbers in the "Quantity" column represent how many tanks of that category you want to associate with the contract. The number on the left can be entered by the user, while the number on the right represents the total number of tanks in that category that can still be associated with a contract.

NOTES:



- It is not possible to associate 0 tanks of a given category.
- It is not possible to assign more than the maximum number of tanks for a given category.

The table in this section offers the same features as the table described in the previous section (filters, sorting, multiple selection).

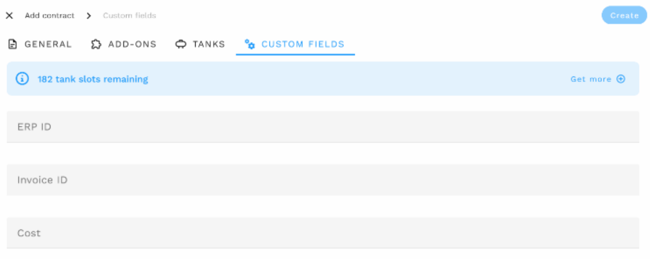
The selected categories, upon creation, will be added to the contract as "tanks awaiting association". They will require an additional step with the smartphone app, which can be performed in physical proximity to the tank, allowing you to enter or scan the unique code of the tank to automatically associate it with the desired contract (*see the app manual for more information*).

> **Note**
>
> This "association by category" feature is designed to simplify and speed up the retrieval of physical tanks for preparation for rental and/or loading onto vehicles.

13.1.11.4. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for contracts (see section 14.2.1).

In this section, you can set the values of custom fields for contracts.



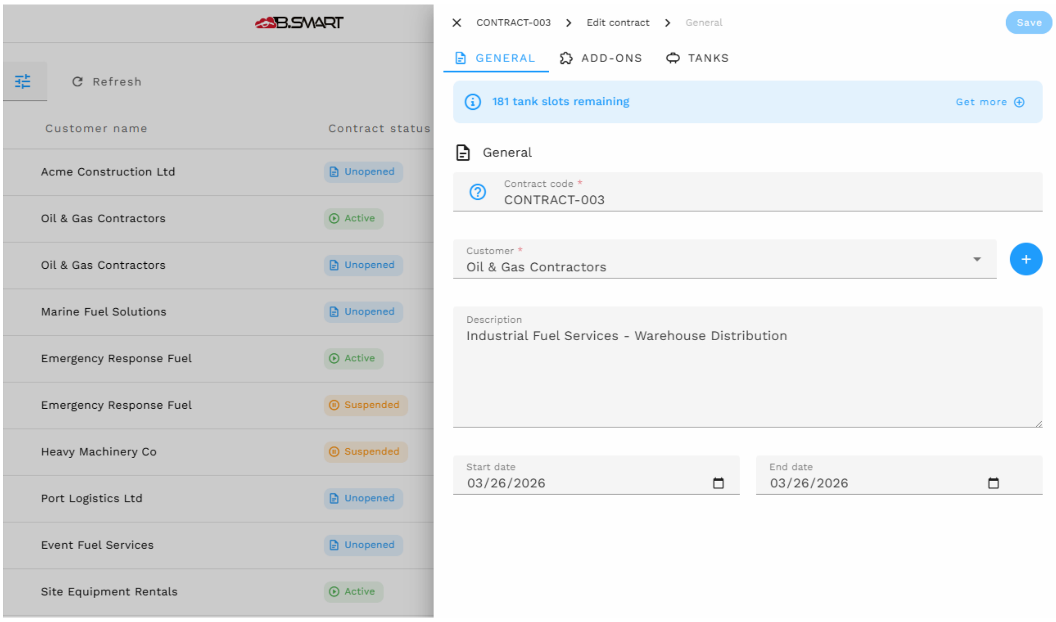
13.1.12. Edit

To edit a contract, press the button that appears when you hover the mouse over each row of the contracts table. A panel will open on the right for editing the data.

Note

Contracts in "Ready for closure" Ready to close and "Closed" Closed status will not be editable (*see chap. 13.1.4for more information*).

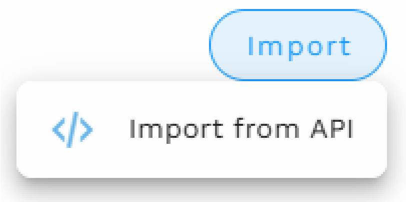
The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the selected contract's data and can be edited with the desired values.



13.1.13. Import

NOTE: the "Import via API" option is only available after enabling the "Enable export API" setting. See chapter 14.2.2.

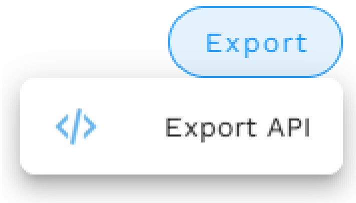
It is possible to import rental customers via API. By clicking the "Import via API" option, you will be redirected to the Import/Export API documentation page in the "Contracts" section.



13.1.14. Export

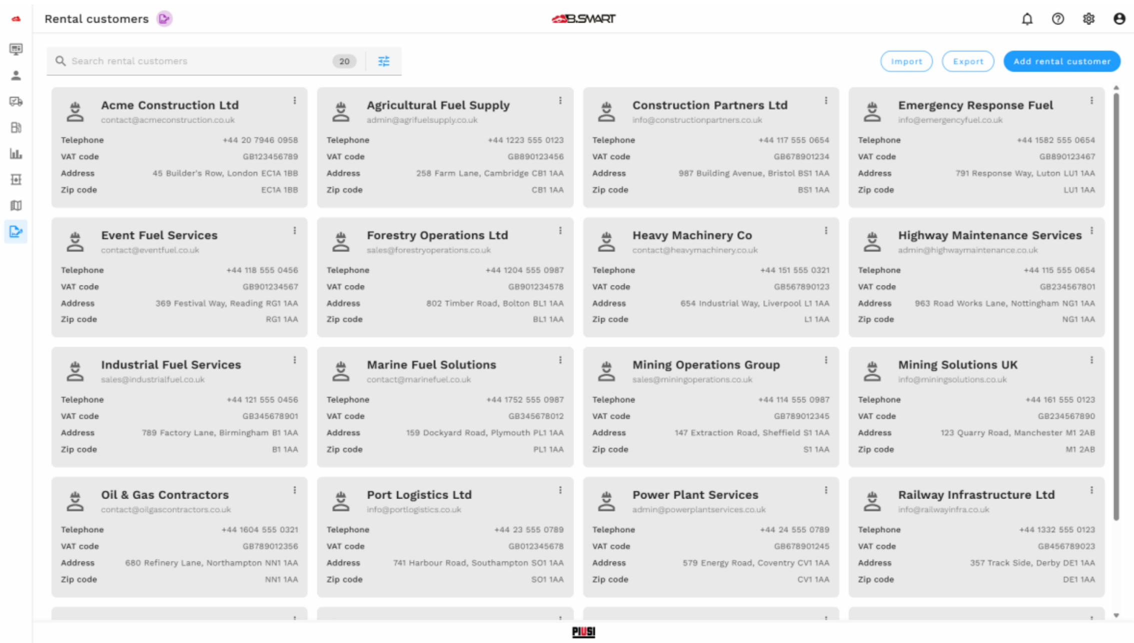
Contracts can be exported in only one way: API.

By clicking the "API Export" option, you will be redirected to the export API documentation for contracts.



13.2. Rental customers

From this section, you can manage the complete registry of rental customers. During the creation of each contract, you will need to choose a rental customer to assign.



13.2.1. Information

The main registry data of a rental customer can be viewed directly from the card in the list.

To see more details, simply click on the card: a panel will open with detailed information where you can view and edit the data.

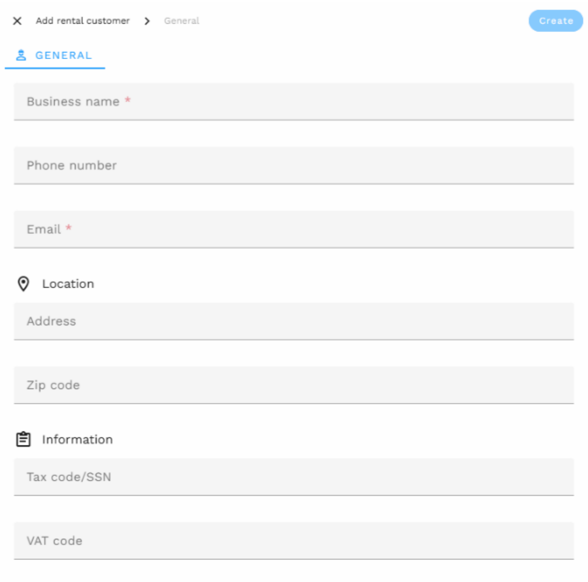
13.2.2. Addition

To add a rental customer, press the button at the top right Add rental customer.

A panel will open on the right with all the fields to fill in to create a new rental customer. The fields are grouped and divided into tabs (or sections) according to the topic.

13.2.2.1. GENERAL information section

In this section, you can edit the general information of a rental customer. Each rental customer is represented by:



- **Company name** (Required)
  Unique identifier of the rental customer
- **Phone**

  Rental customer phone number
- **Email**

  Rental customer email
- **Address, ZIP code**

  Rental customer location
- **Tax code, VAT number**

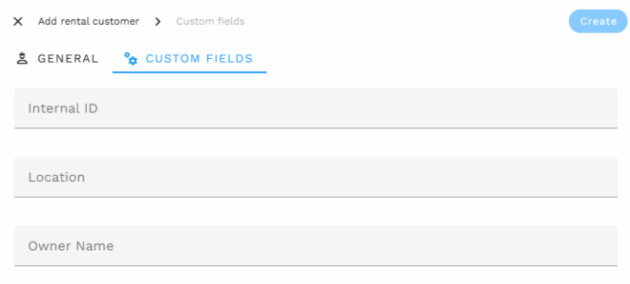
  Personal information of the rental customer

There is no limit to adding rental customers.

13.2.2.2. CUSTOM FIELDS section

NOTE: this section is available only if the "Enable custom fields" setting is active and custom fields have been set for rental customers (see section 14.2.1).

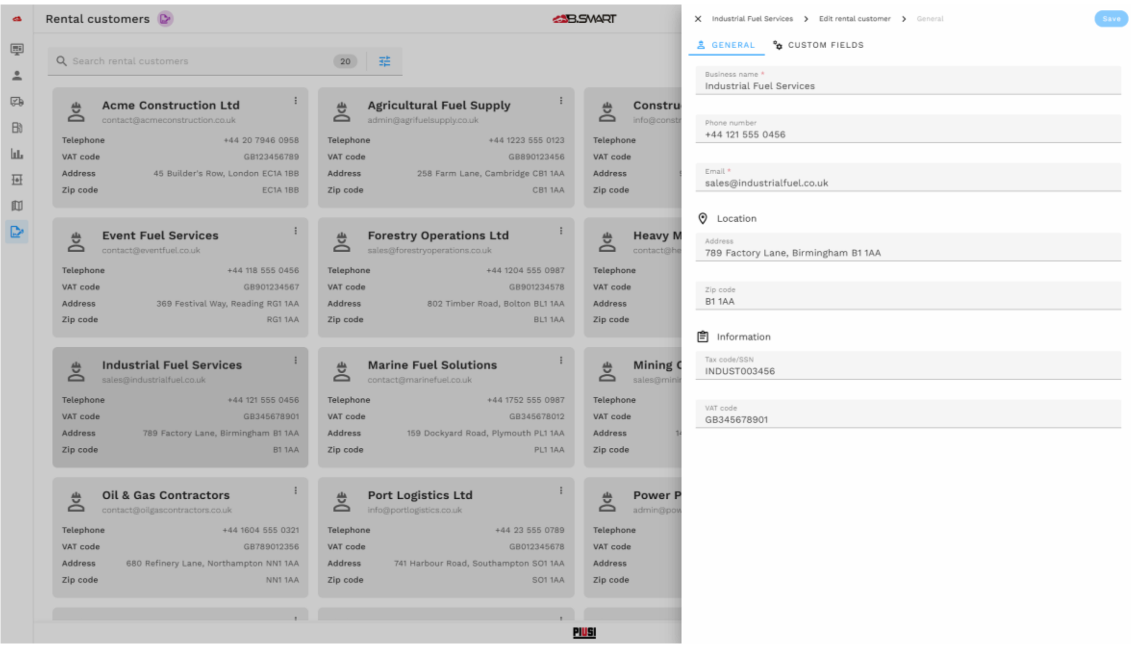
In this section you can set the values of custom fields for rental customers.



13.2.3. Edit

To edit a rental customer, press on the card. A panel will open on the right for editing the data.

The edit section contains the same forms and fields as seen in the previous chapter. The only difference is in the displayed data: the fields will be pre-filled with the selected rental customer's data and can be edited with the desired values.



13.2.4. Management operations

By clicking on the three dots at the top right of a rental customer's card, the available actions for that customer will appear.

13.2.4.1. Delete

By pressing "Delete", the rental customer will be deleted. Confirmation will be requested before performing a deletion.

13.2.5. Import

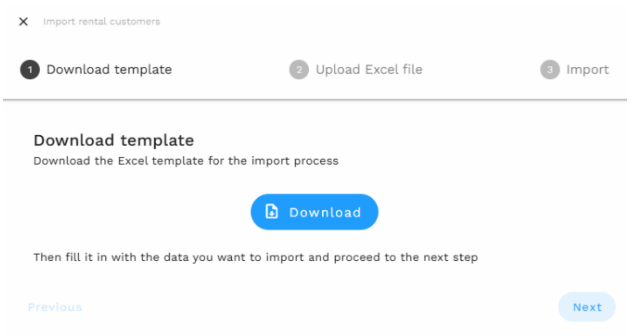
There are two ways to import rental customers:

- Import via Excel
- Import via API

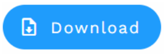
13.2.5.1. Excel Import

You can import rental customers from an Excel file by clicking on "Import from Excel".

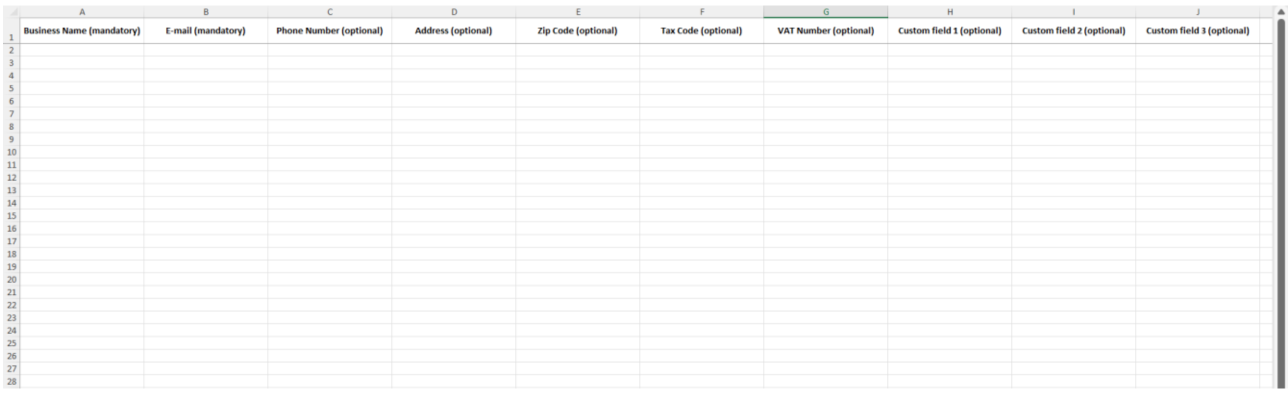
A panel will open on the right with a three-step process.



Download template

By pressing the 

button, an Excel template with a pre-set empty table for entering rental customers will be downloaded.



Business Name (mandatory)	E-mail (mandatory)	Phone Number (optional)	Address (optional)	Zip Code (optional)	Tax Code (optional)	VAT Number (optional)	Custom field 1 (optional)	Custom field 2 (optional)	Custom field 3 (optional)

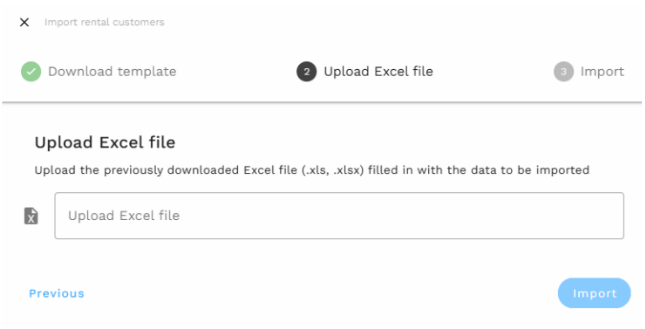
The Excel sheet must be filled in with the desired information. Each row represents a rental customer and each column represents one of their fields.

Once the Excel file has been filled in and saved, press the

button in the operator import section.

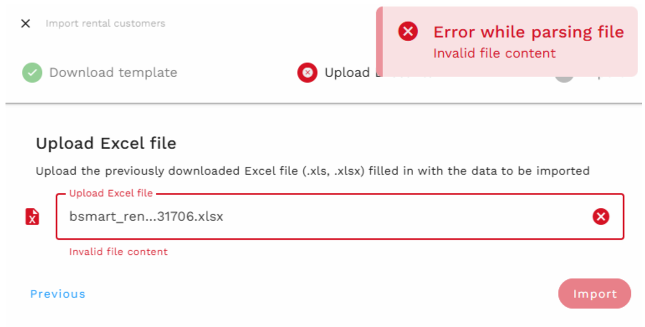
File upload

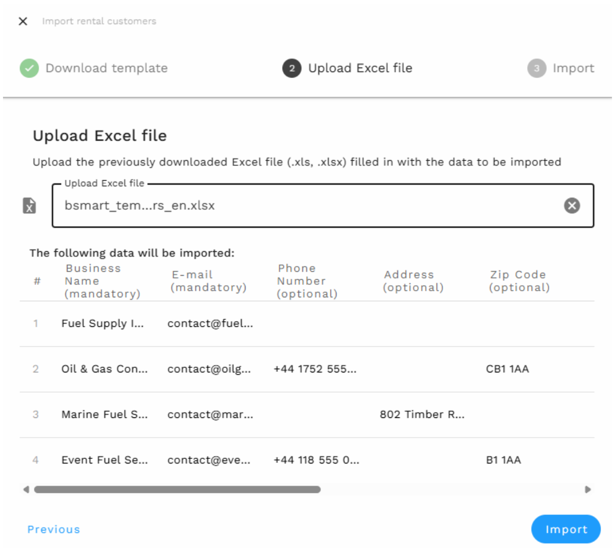
In this second step, you can upload the file you just filled in, either by clicking on the upload field and selecting the file from your PC, or by dragging and dropping the desired file onto the upload field.



NOTE: only Excel files from the previous step can be uploaded. It is not possible to create a custom file with the list of rental customers and upload it.

Uploading an incompatible file will result in an error shown in the image on the side.





Once the Excel file is uploaded, if it is valid, a table will be displayed to review the data before importing.

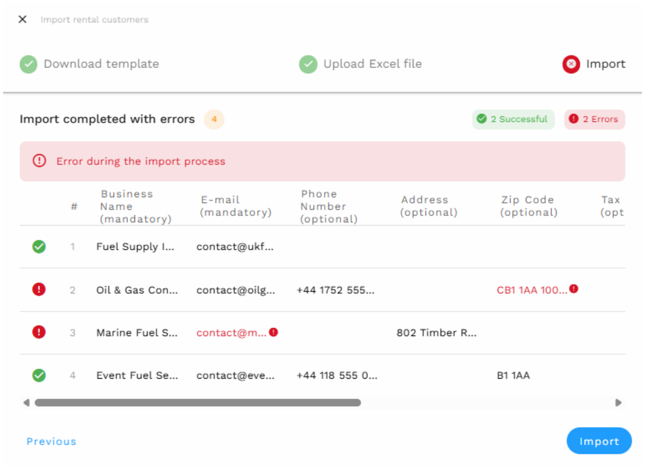
To proceed with the import, press the Import button.

Rental customer import

In the third and final step, you can start importing the operators.

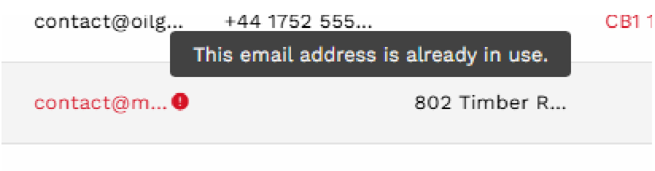
A table will be displayed with the result of the import, so you can review the data just uploaded.

If there are errors during the import phase, they will be highlighted in the table rows, as shown on the right.



The rows for successfully imported rental customers will be preceded by the symbol ✅, while the rows for customers not imported due to an error will be preceded by the symbol ❗.

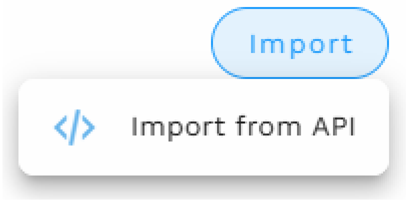
By hovering the mouse over an error indicator, the corresponding message will be displayed.



13.2.5.2. API Import

NOTE: the “Import via API” option is only available after enabling the “Enable export API” setting. See chapter 14.2.2.

It is possible to import rental customers via API. By clicking the "Import via API" option, you will be redirected to the Import/Export API documentation page in the "Rental Customers" section.

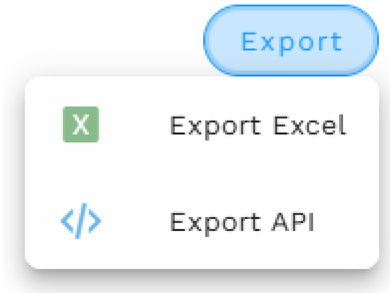


13.2.6. Export

You can export rental customers in two different ways: Excel or API.

By clicking the “Excel Export” option, an Excel file will be generated with the currently displayed data.

By clicking the "API Export" option, you will be redirected to the export API documentation for rental customers.

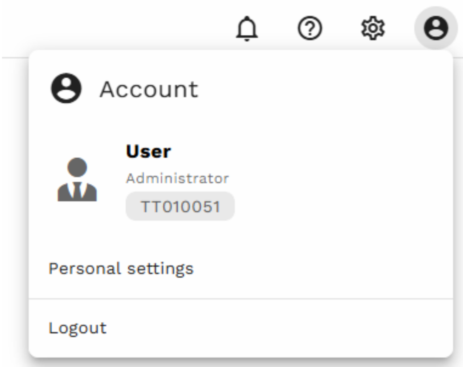


14. SETTINGS

This section contains all the user, system, and add-on settings. In this section you can also manage plant information, manage web app users, and add new add-ons for your plant.

The section can be accessed by pressing the gear icon always present at the top right of the Web App header and choosing one of the menu items. *For more details, see chapter 14.2*.

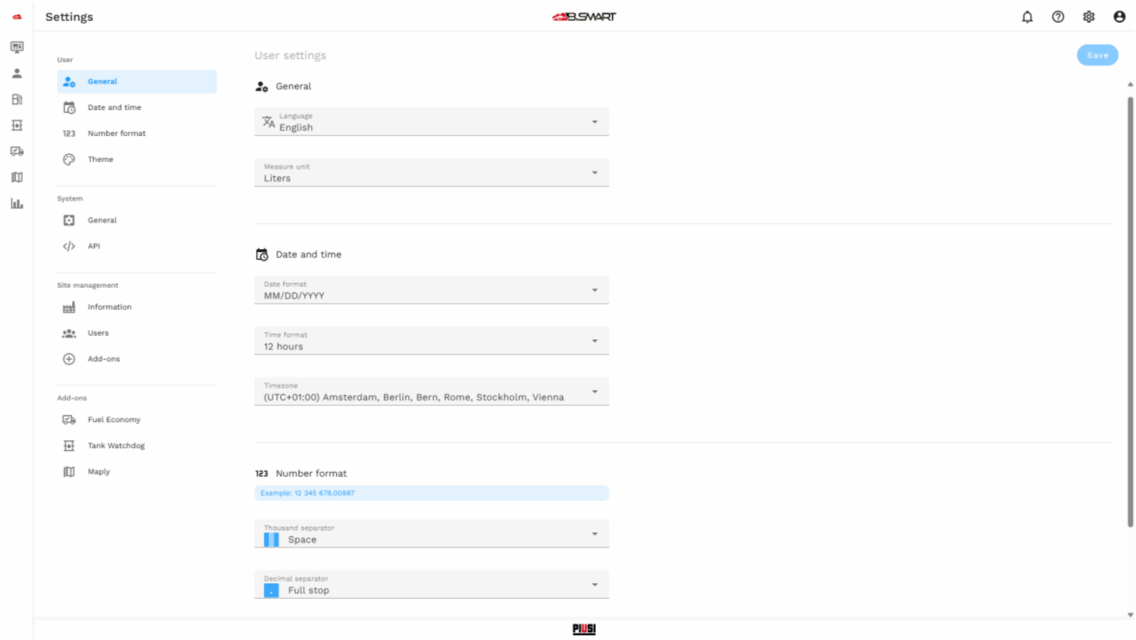
Alternatively, the section can be accessed by pressing the user icon always present at the top right of the Web App header and choosing the first option "Personal settings" (see figure on the side).



This operation will open the settings subsection called "User settings", as described in the next paragraph.

14.1. User settings

From this screen you can configure the user settings.



Once any setting is changed compared to those already saved, the Save button at the top right will be enabled, allowing you to save the newly modified settings.

14.1.1. General

The "General" subsection contains the user's general settings:

- **Language**

  Language in which to display the Web App.

- **Unit of measurement**

  Unit of measurement for displaying dispensed quantities.

14.1.2. Date and time

The "Date and time" subsection contains the settings related to date and time formats and the time zone:

- **Date format**

Date display format (DD/MM/YYYY, MM/DD/YYYY).

- **Time format**

  Time display format (12-hour, 24-hour).

- **Time Zone**

  Time zone setting. This preference is used to identify the geographical area from which the Web App is being used.

14.1.3. Numeric format

In this subsection you can change the settings related to number display formats within the Web App:

- **Thousands separator**

  Type of thousands separator (space, apostrophe, comma, period, etc.)

- **Decimal separator**

  Type of decimal separator (period, comma, etc.).

14.1.4. Theme

In this subsection you can set the theme (Light mode or Dark mode).

Note

The dark mode setting will be saved locally and reset to its default value in these two cases:

- upon manual logout
- when clearing browser data

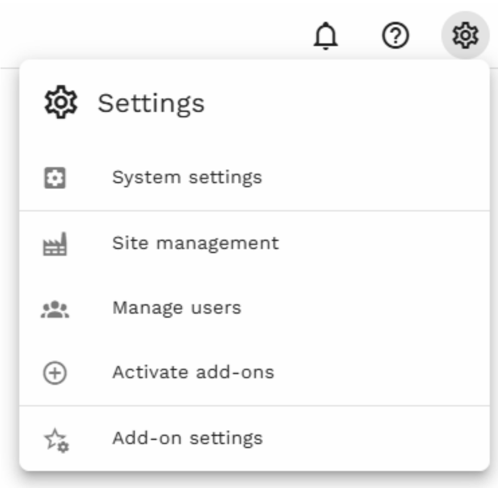
This data is not saved at the B.SMART user level.

14.2. System settings

The system settings section can be accessed via the gear icon at the top right of the application header.

The menu items inside the panel that opens when the button is pressed are divided by category and reflect the structure found on the Settings page, in order:

- System settings
- System settings
- Add-on settings



14.2.1. General

From this section you can modify the general system settings:

- **Manual registration numbers**

  You can choose whether to manually enter registration numbers from the mobile app or allow them to be created only from the web app.
  Warning: if the "Fuel Economy" add-on is active, this preference is automatically set to "NO" and cannot be changed as long as the add-on remains active.

- **Optional fields**

  Enable this preference if you want to manage two additional registry fields for dispensing.
  You can assign any name you like to identify the new fields.
  The additional fields are of two different types: optional field 1 accepts only positive integers (the maximum allowed value is 65535) and optional field 2 is alphanumeric (maximum 16 characters).

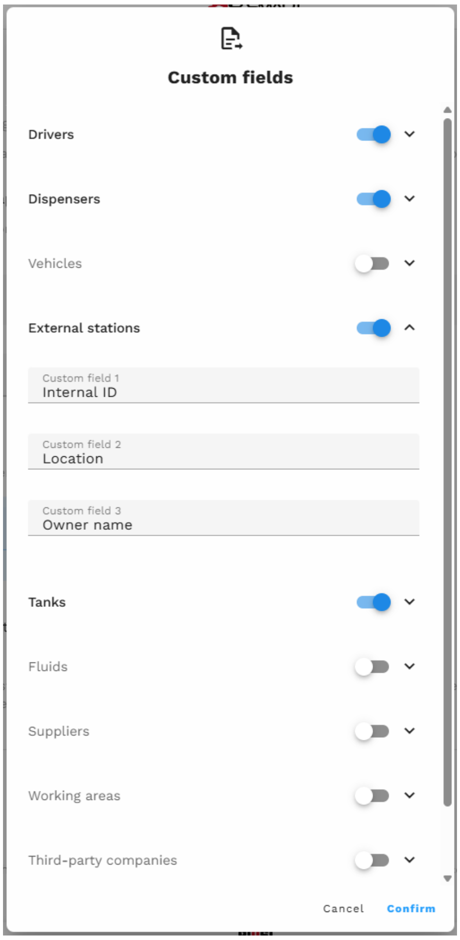
- **Enable receipt delivery on the mobile app?**

  If you disable this function, receipts will no longer be generated on the mobile app after a dispensing operation.

- **Enable custom fields for Export APIs**

  By enabling this function, you can assign custom fields to the main entities via the web app. These values are added to the entities in Export API read calls and in export files (*see chapter 10.4*). They are not displayed in any reports. They are useful for mapping B.SMART entities with ERP.

  Through the configuration form, you can choose which entities to enable this function for, and for each one you can customize the name of the custom fields.



When custom fields are enabled, you can assign for each entity **3 attributes,** each with a maximum of **40 alphanumeric characters.**

After enabling, a new tab is available for each entity. The entities subject to custom fields are:

- Drivers;
- Devices;
- Registration Number;
- Fluids *(with Tank Watchdog active)*;
- Suppliers *(with Tank Watchdog active)*;
- Tanks *(with Tank Watchdog active)*;
- External Stations *(with Fuel Economy active)*.

You can assign custom fields directly to the new entities (drivers and Registration Number) via import from Excel file (see chap. 8.7) or via import from Export API.

These fields are added to the model in read mode via the Export APIs:

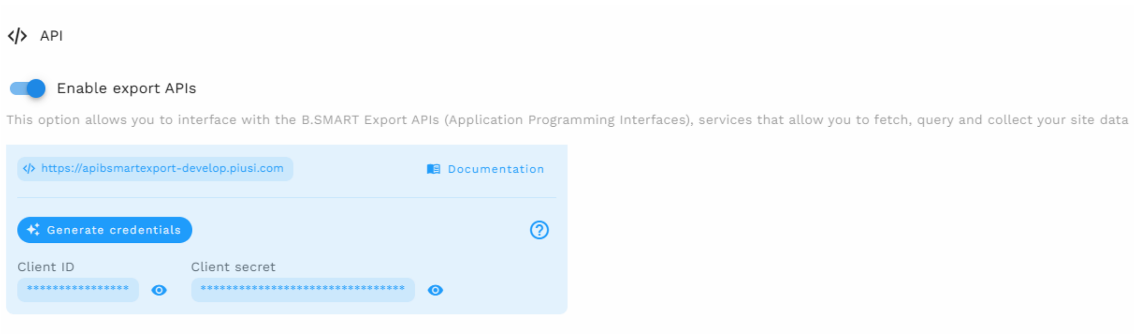
```
DRIVER
{
  "email": "string",
  "firstName": "string",
  "iButtonCode": "string",
  "id": 0,
  "idImage": 0,
  "image": "string",
  "lastName": "string",
  "pinCode": "string",
  "status": "O_ENABLED",
  "totQtDispensed": "string"
  "customFields":
    {
      "customField1": "string"
      "customField2": "string"
      "customField3": "string"
    }
}
```

NOTE: If all 3 custom fields are empty strings, the *customFields* field will be set to **null**.

```
  "customFields": null
```

It is also possible to export custom attributes within the Export tool.

14.2.2. API



From this section, you can enable interfacing with the APIs. The APIs (Application Programming Interfaces) are a service that allows you to obtain data from your system.

To make calls, you need to use the provided credentials and generate a token.

The procedure is described in detail on the documentation page, along with the list of data structures that can be obtained.

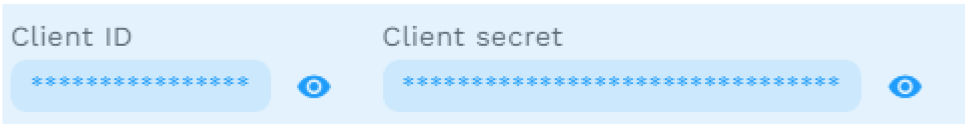
The links above represent respectively:

- the URL path of the Export APIs
- the link to the Export API documentation

By pressing the 

button, new credentials will be generated to authenticate and use the Export APIs.

The two sensitive fields, “Client ID” and “Client Secret”, will be hidden. Simply press the eye icon on the right to temporarily display the underlying values.

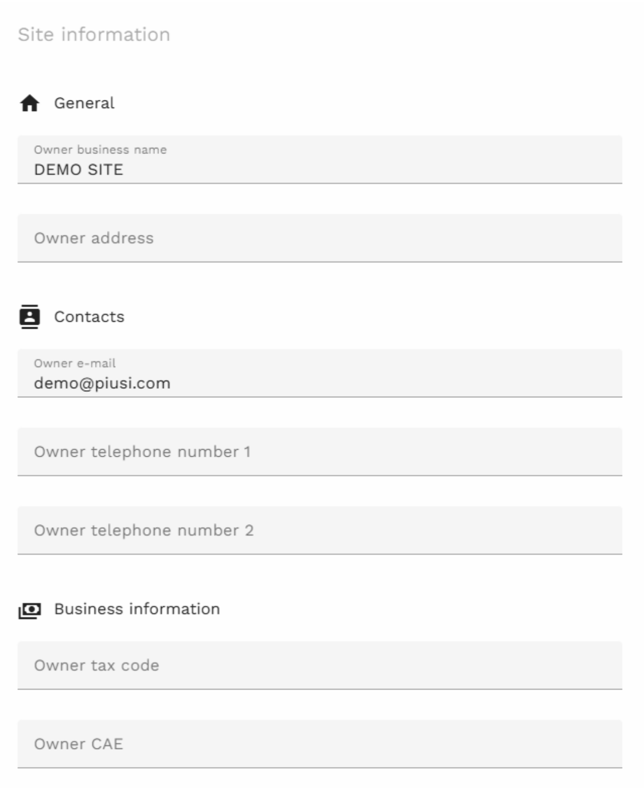


14.3. Site management

14.3.1. Information

In this section, you can enter the system information:

- Owner company name
- Owner address
- Owner email
- Owner phone number 1
- Owner phone number 2
- Owner tax code
- Owner CAE



14.3.2. Users

From this screen, you can add, edit, disable, and delete users who have access to the Web Application. A disabled or deleted user will no longer be able to access the system from the Web Application.

In particular, the following information is displayed:

- **Username**

  Unique identifier of the user used to access the Web Application.

- **Nickname**

  Identifier to recognize the user.

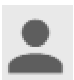
- **Email**

  User email

- **User role**

  User privilege level:

Administrator user. Has full control over the system



Viewer user. Can only view data, but cannot add, edit, or delete system elements (drivers, registration numbers, devices)

The details of user privileges are described in the following table (**A**: administrator, **V**: viewer):

Section	Action	A	V
Drivers	Driver viewing	YES	YES
	Add driver	YES	NO
	Edit driver	YES	NO
	Delete driver	YES	NO
	Disable/Enable driver	YES	NO
Reg. Numb.	Reg. viewing Numbers	YES	YES
	Add Reg. Number	YES	NO
	Edit Reg. Number	YES	NO
Plant	Dispenser view	YES	YES
	View pumps of a dispenser	YES	YES
	View drivers associated with a dispenser	YES	YES
	Edit dispenser	YES	NO
	Edit pump	YES	NO
	Edit dispenser/drivers association	YES	NO
	Edit dispenser/vehicles association	YES	NO
	Disable/Enable pump	YES	NO
	Delete dispenser	YES	NO
Users	View users	YES	NO
	User invitation	YES	NO
	Edit user	YES	NO
	Disable/Enable user	YES	NO
	Delete user	YES	NO
System preferences	View user preferences	YES	YES
	Edit user preferences	YES	YES
	View active Add-Ons	YES	YES
	Activate new Add-On	YES	NO
	Activate a deleted device	YES	NO
Report	View dispensing list	YES	YES
	View chart	YES	YES
	Edit dispensing	YES	NO
Tank watchdog	Manage tanks, movements, suppliers, and prices	YES	NO
	View movement and price trend reports	YES	YES
Fuel economy	Edit vehicle, category, and external station records	YES	NO
	Enter an external dispensing	YES	NO
	Reset remaining quantity	YES	NO
	Edit module preferences	YES	NO
	View reports of vehicle consumption and driver consumption	YES	YES
Maply	Edit records of operational areas, third-party companies, and third-party registration numbers	YES	NO
	View dispensing report on the map	YES	YES

	Edit Maply Add-on preferences	YES	NO
MasterSite	View rental contracts and customers	YES	YES
	Edit/delete/operate on rental contracts and customers	YES	NO

14.3.2.1. Invitation of a user

A B.SMART user with the Administrator role can invite other users to their site.

To invite a user, press the Invite user button.

A side panel will open where you can enter the following information:

- **Personal name**

  The personal name of the user being invited.

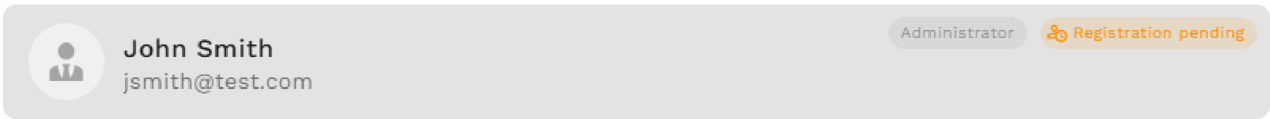
- **Email**

  The email of the user who will be invited.

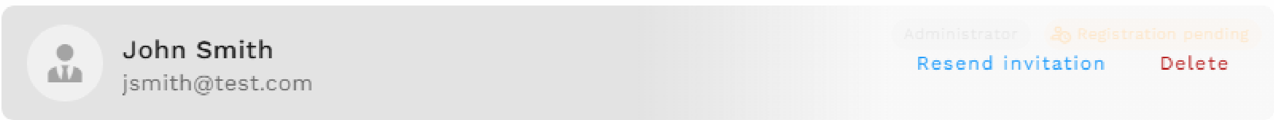
- **Role**

  The role of the user who will be invited. It can be Viewer or Administrator.

Once the user has been invited, a row will appear in "pending" status, waiting for the invited user to accept the invitation and complete the registration process, as shown in the following figure:



By hovering the cursor over the row, it will be possible to resend the invitation to the user or delete the pending user.



Note

- Deleting a user in "pending" status will also delete the related invitation. In other words, the link sent to the deleted user's email address will become invalid and it will be necessary to invite the user again by following the procedure described above.
- It is not possible to make more than one "resend invitation" request per minute. Once the "resend invitation" request has been made, you must wait one minute before making another one.
- The invitation link in the email sent to the invited user is valid for 15 minutes. 15 minutes after the invitation is created, the link will expire and a new invitation to the user will be required.

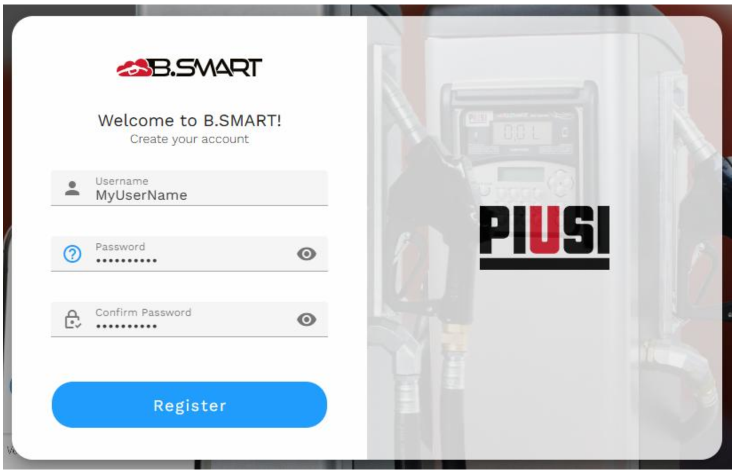
14.3.2.2. Completion of the invitation procedure

The invited user will receive an invitation email from **noreply-bsmart** with the link to click and instructions to follow to complete the registration to B.SMART.

By following the link, the invited user will be redirected to the following page:

This page will allow the user to create their B.SMART account, thus completing the registration process.

Within the form, the following fields must be entered:



- **Username**
  The desired username. This will become the username used to access the web app.

  NOTE: The username **cannot** contain spaces and must be between **3** and **30** characters long.

- **Password**

  The user's password.

  NOTE: The password must be between 8 and 50 characters long and must contain at least one lowercase letter (a-z), one uppercase letter (A-Z), one number (0-9), and one special character from this set: ! # $ % & ( ) * + , - . / : ; < = > ? @ [ ] ^ _{ | } ~

- **Confirm password**

  You are asked to confirm the password before proceeding.

Once the data has been entered, press the "Register" button to complete the registration.

It will then be possible to access the B.SMART site with the credentials just created.

14.3.3. Add-on

From this screen you can view the list of active add-ons for your system and activate new ones.

After purchasing a new add-on, to activate it you need to press the New add-on button.

A modal will open (see figure below) in which you will need to enter the code of the purchased add-on in the text field. You will then need to press the **Confirm** button at the bottom right to confirm activation.

You must follow the same procedure if you want to renew an expiring add-on code.

> **Warning!**
>
> It is not possible to activate the same add-on code on different systems.

14.3.3.1. Add-on expiration and renewal

The lifecycle of any expiring Add-on is represented by the following diagram:

Valid
- Valid ADD-ON
- It is possible to use all the new features.
- It is possible to renew the ADD-ON by entering a new code in the Settings > ADD-ON section.

Expired
- Expired ADD-ON (the validity period of the add-on varies depending on the type of add-on purchased)
- The ADD-ON features are disabled.
- Renewal is allowed for an additional period of 30 days after the expiration date.

Deleted
- ADD-ON Deleted
- The data entered thanks to the new features enabled by the add-on are **permanently** deleted.

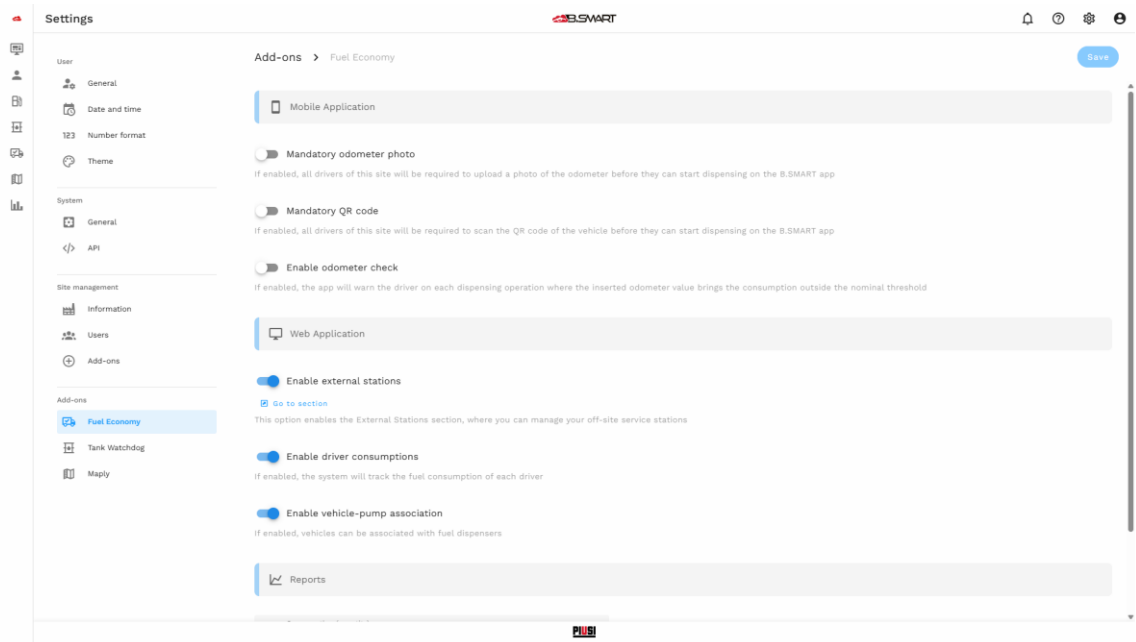
Note

- When the Add-on is close to expiration, a reminder is sent to the portal user's email.
- Add-ons of the "One-time fee" type never expire.
- When an Add-on expires (but is still renewable), a warning indicator will be displayed on the pages dependent on that Add-on and a warning message will be shown within each of those pages.
- When the "Tank Watchdog" Add-on expires, the tank levels are not synchronized. Therefore, if you decide to renew the Add-on, it will be necessary to make an adjustment with the correct quantity on all virtual tanks.

14.4. Add-on settings

14.4.1. Fuel Economy

From this section you can modify the system configurations that regulate the functionalities of the "Fuel Economy" add-on.



The preferences you can act on are as follows:

- **Enable mandatory upload of odometer photo**

  If this preference is enabled, the mobile application will always require attaching a photo of the vehicle's odometer to the fueling operation.

- **External stations**

  Enable this preference to allow management of the service station registry, where fuelings outside the system are performed.

- **Mandatory QR code**

  If this preference is enabled, the driver is required to scan the vehicle's QR code before starting to fuel.

- **Enable consumption tracking for individual drivers**
  If this preference is enabled, fuel consumption will be tracked for each individual driver of the system.
- **Enable vehicle association on charging station**
  If the preference is enabled, it is possible to associate vehicles with the charging station.

Warning: by enabling this function, all vehicles are initially associated with all charging stations.

- **Unit of measurement for consumption**
  Select in which unit of measurement to display the data in the consumption report.
- **Time unit for consumption**

  Select in which time unit to display the data in the consumption report.

- **Enable control on odometer entry**

  If the preference is enabled, a check is performed on the odometer entered by the driver. The entered number must not exceed the maximum distance or time that a vehicle can travel on a full tank.
  Example: If a vehicle has a tank capacity of 50 L and a standard consumption of 20 Km/L with a 5% tolerance, the entered odometer value cannot be greater than

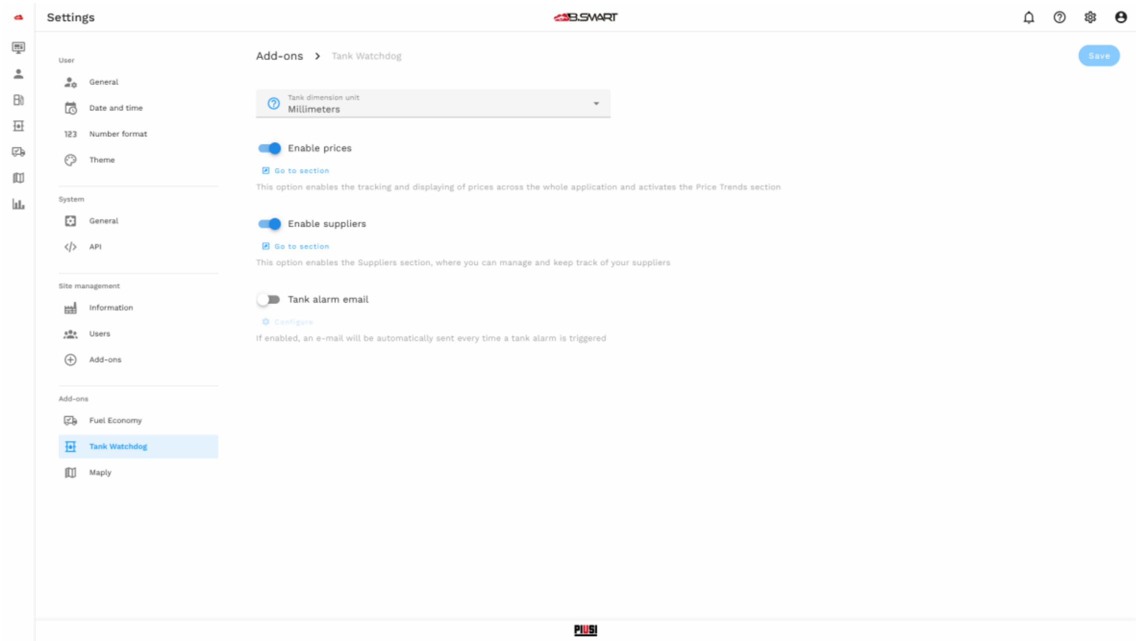
$$50\,L \cdot (20\,Km/L + 1\,Km/L) = 1050\,Km$$

compared to the previously entered value.

In this case, the driver performing the fueling is notified that they are entering an abnormal value. The driver can always force the entry of the value.

14.4.2. Tank Watchdog

From this section you can modify the preferences of the Tank Watchdog add-on.



- **Unit of measurement for tanks**

  Unit of measurement used to express the dimensions that characterize the geometry of the tanks, to choose from:
  - Millimeters
  - Inches

- **Enable prices**

  If the option is enabled, when creating a loading transaction you will be asked to enter the total cost of the fuel purchased. This data is used to calculate the unit price of the fuel, which can be viewed in the “Unit Price Trend” section (*see chapter 11.5*).

- **Enable suppliers**

  Ability to enable or disable supplier management within the Tank Watchdog add-on

- **Email enablement**

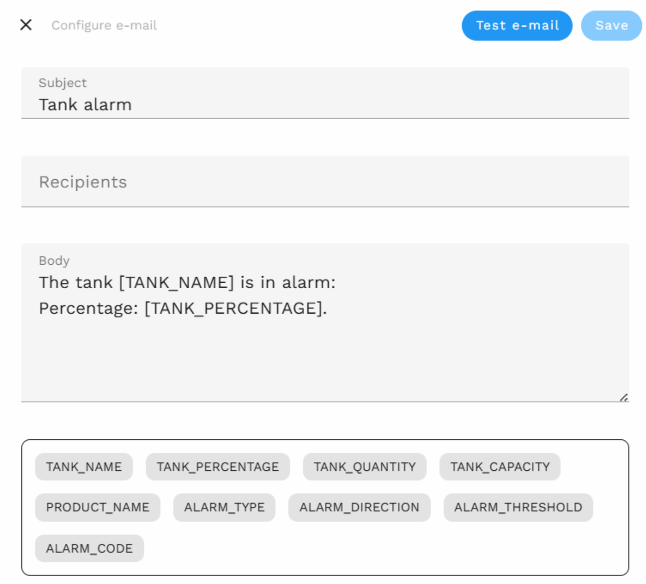
  Ability to enable sending emails that notify the status of the tanks.
  By enabling this option, an email will be sent every time a tank changes from a normal state to an alarm state.

  Press the Configure button to configure email sending options.

  From this section you can specify the information regarding the emails that are sent:

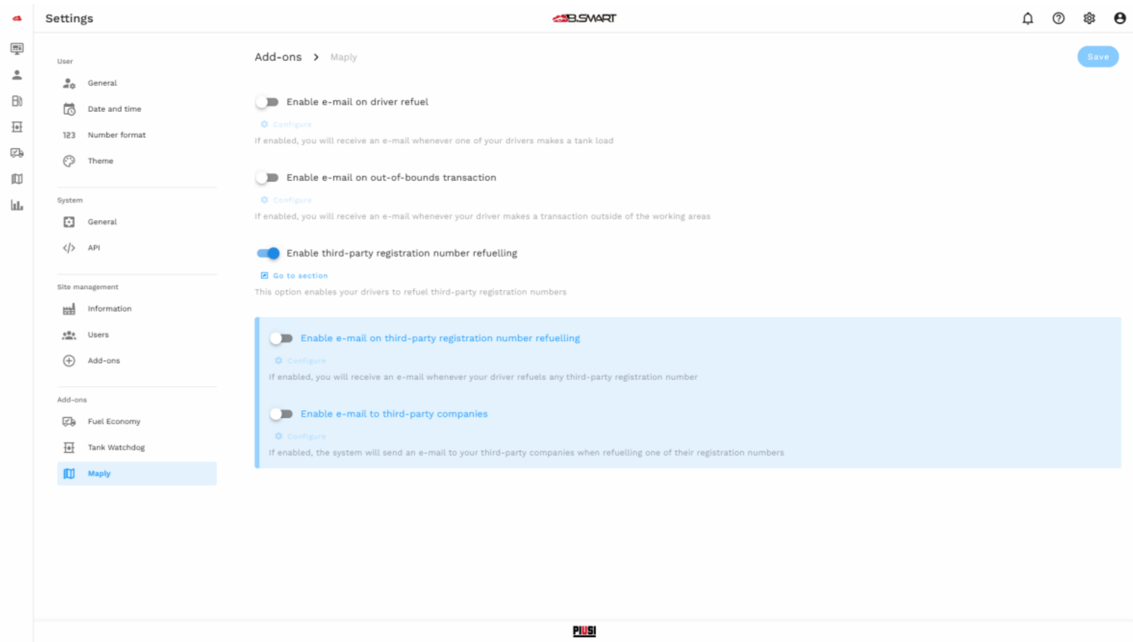
  - **Email subject**
  - **Recipients**
  - **Email body**

    In the email body you can use shortcuts, which will be replaced with the actual values of the tank properties.



14.4.3. Maply

From this section you can modify the preferences of the Maply add-on:



- **Receive an email if your driver performs a transfer:**

By clicking the Configure button you can set:

- The subject of the email
- The recipients of the email
- The body of the email
- Date format
- Time format
- Unit of measurement for quantities

- **Receive an email if your driver performs a fueling to a third registration number:**

By clicking the Configure button you can set:

- The subject of the email
- The recipients of the email
- The body of the email
- Date format
- Time format
- Unit of measurement for quantities

- **Allow your operators to refuel third-party registration numbers:**

If enabled, it allows you to manage the registry of third-party companies and third-party registration numbers.

- **Send an email to third-party companies when a refueling is performed on one of their registration numbers:**

If enabled, at the end of a fueling performed for a third-party registration number, the driver can choose to send an email to notify the company that a fueling has been performed on one of their registration numbers.

By clicking the Configure button you can set:

- The subject of the email
- The body of the email
- Date format
- Time format
- Unit of measurement for quantities

The recipient's email address for these notifications can always be set by the driver; by default, the address entered in the company's registry is suggested.

Warning!

To use this feature, it is necessary to enable receipt of receipts on the mobile application

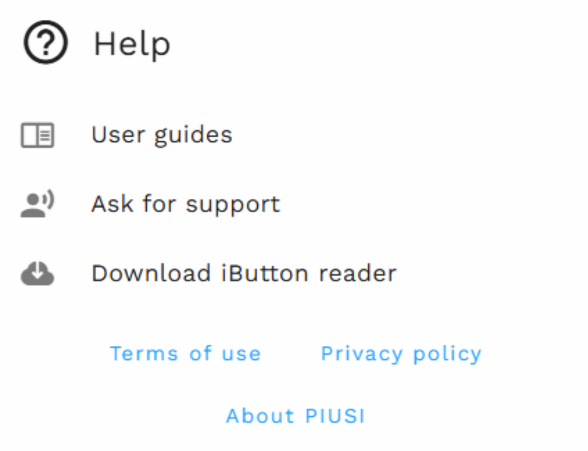
- **Receive an email if your driver performs a fueling outside the area of operation**:

If this option is enabled, for fuelings performed outside the areas of operation from devices with the "Fueling Management" option set to "Report fuelings outside the areas of operation" (*see chapter 6.2.5*), a notification email will be sent.
The email sent will contain the information of the performed dispensing and the distance from the nearest area.

By clicking on the Configure button, you can perform the following actions:

- Configure the email recipients;
- Configure the language of the email content;
- View a preview of the email;
- Send a test email to verify that the recipients are correct.

15. SUPPORT



From the "Support" section, accessible via the button in the system header, you can perform various operations:

- Download the manuals
- Request support (you will be redirected to the official PIUSI support page)
- Download the "*PIUSI iButton Reader*" tool

NOTE: The tool "*PIUSI iButton Reader*" works exclusively on Windows platform and can also be downloaded from the following link: https://wswebssm.piusi.com/ibuttonreaderpiusi/setup.exe.

There are also buttons to view:

- Terms and conditions of the Web App
- Privacy policy of the Web App
- Information about PIUSI

16. FAQ

- **How do I activate the Maply add-on?**

To activate the MAPLY Add-on, you must have purchased an activation code for the MAPLY Add-on. The code must be entered in the Add-On section (see chapter 8.3).

- **What features are introduced by the Maply add-on?**

With the MAPLY Add-on you can:

- Geolocate the dispensing events and view them on the map.
- Track not only dispensing on your own vehicles but also on third-party vehicles.
- Group dispensing events into defined areas, restricting their operability (geo-fencing).
- Manage the transfer from one storage tank to another storage tank (only if the Tank Watchdog add-on is active)
- Filter in the reports the dispensing events made in a specific operational area or to a specific company.
- Export GPS coordinates and other dispensing data to third-party systems.

- **Can I use the Maply add-on without the Fuel Economy add-on?**

Yes, the absence of the Fuel Economy Add-On does not prevent the use of the features introduced by the Maply Add-On.

- **Maply: how do you configure an operational area?**

Operational areas can be configured from the specific submenu “Operational Areas” in the Maply Add-On section (*for more information see chapter 12.1*).

- **Maply: is there a maximum number of third-party companies and third-party registration numbers that can be entered?**

No, there is no maximum number. You can enter as many third-party companies and third-party registration numbers as you wish.

- **Does the Maply add-on allow me to view/track the complete route of the vehicles?**

No, the Maply Add-On allows you to know where each dispensing event took place, but does not introduce any functionality to record vehicle route tracks.

- **Are the settings of the Maply add-on editable?**

You can always modify the settings of the Maply Add-On through the configuration submenu.

- **Where can I find the iButton key code?**

The iButton key code is printed on the back of the key. The code consists of 7 alphanumeric digits highlighted in the image:

- **How can I change the email of the B.SMART Web App user?**
- **How can I add other users to the Web App?**
- **How can I enable a driver for dispensing?**

You need to associate the driver with the desired dispenser to allow them to perform dispensing from it.