



**WEB APPLICATION**

USER MANUAL

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# 1. INTRO

This manual offers a deep dive into all the features and functionalities of the B.SMART web application (hereinafter referred to as Web App).

## 1.1. General

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. Extensions

The Web App can be extended with additional features that can be unlocked by purchasing "add-ons," or extensions, including "Fuel Economy," "Tank Watchdog," and "Maply" (see chapters and 13.3.3 13.4 for more information on add-ons).

## 1.3. 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 is now available on devices of any screen size: desktops, tablets, and mobile phones. The interface adapts to the screen size.

### **Report views**

The reporting pages have customised view management for each user: filters that the user can apply and save with a name, calling them up when desired. *For more information, see the chapter 12.1.*

### **Advanced filters**

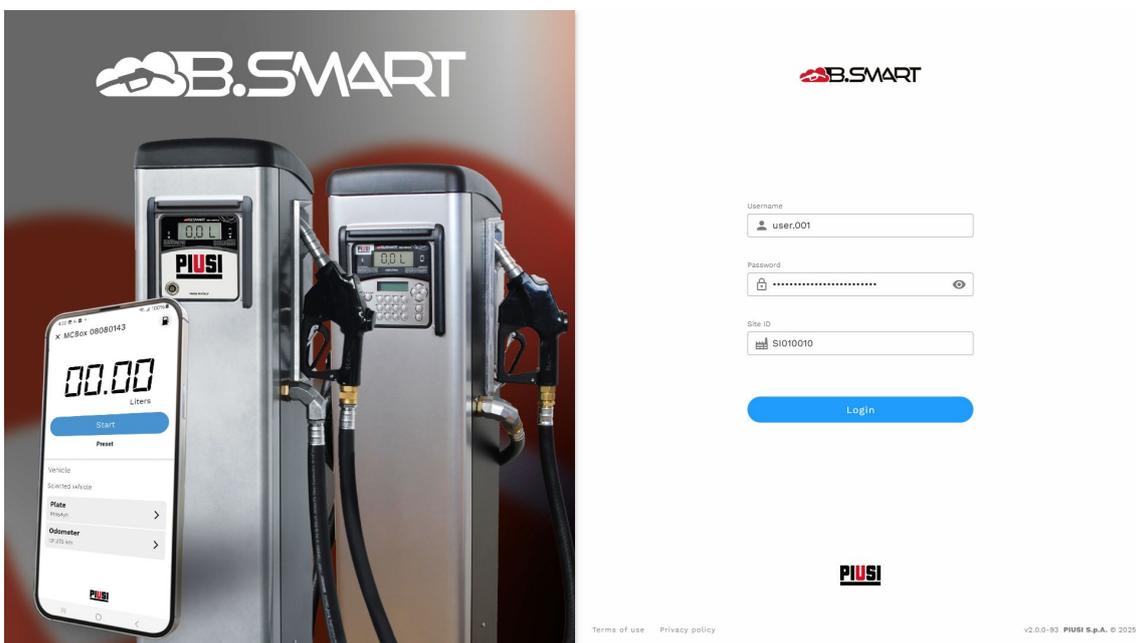
The data pages (drivers, vehicles, tanks, etc.) will be equipped with advanced filters, including sorting, grouping, and filters specific to the data currently displayed. *Refer to the chapter 5.1 for more information.*

## 2. LOGIN

To access the Web App, you must connect to the website <https://bsmart.piusi.com> and log in by entering the following in the fields on the right of the login screen:

- **Username** (the same as used to register on the portal)
- **Pass** (the same one used to register on the portal)
- **Site code** (received by email after registering on the portal)

and finally press the button  button.



## 2.1. Preliminary operations

After logging in, you may need to perform some preliminary operations, as described in the following paragraphs.

### 2.1.1. Portal data configuration

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

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

Once you have entered all the information, press the "Next" button to proceed with the initial configuration.

### 2.1.2. System data configuration

The new version of B.SMART makes the "Company name" and "Owner email" fields mandatory.

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

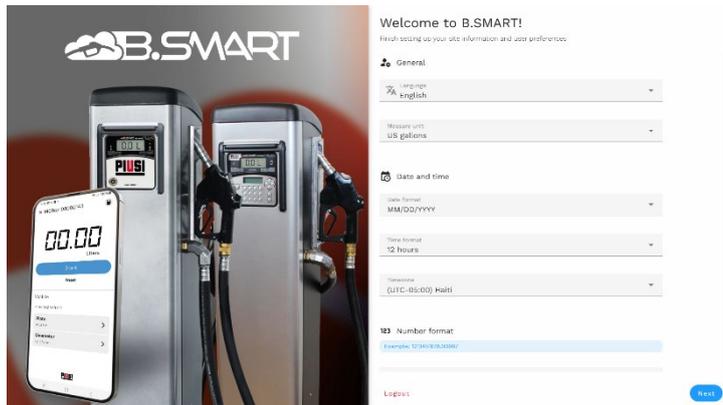
#### Note

The values entered in the "Owner company name" and "Owner email" fields during registration on the PIUSI portal will be automatically transferred and set by the system. This screen will not appear to portal users logging in for the first time.

### 2.1.3. User preferences configuration

Upon first login, this section for optional modification of user preferences will be displayed.

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

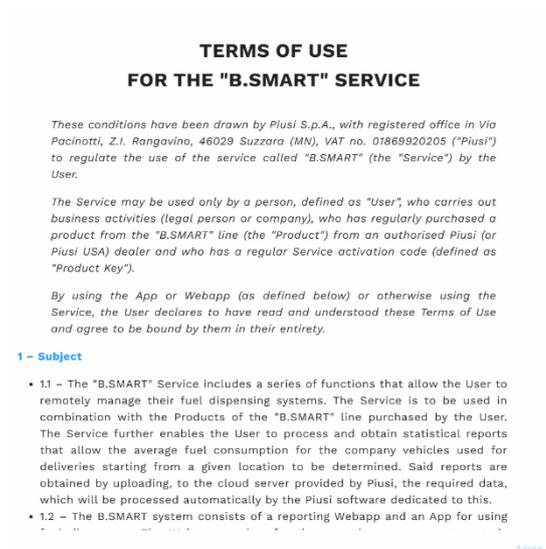


### 2.1.4. Acceptance of terms and conditions of use

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



### 3. MENU LAYOUT

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

#### 3.1. Header



The application header contains:

- On the left, the name of the page currently displayed.
- In the center, the application logo, which takes you back to the home page (*Dashboard*, see chapter 4).
- On the right:
  - The notifications menu
  - the help menu (see chapter 14)
  - the settings (see chapter 13.2)
  - the user menu (see chapter 13.1)

#### 3.2. Navigation bar

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

To switch between the two views, simply click on the logo at the top:

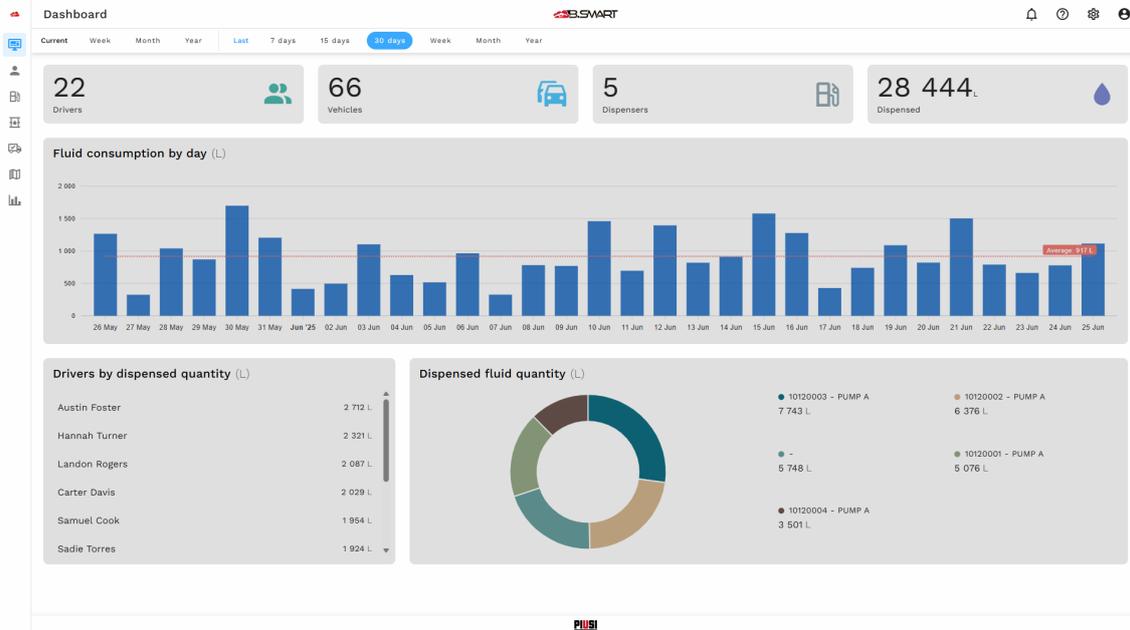


 Icon to expand the navigation bar

 Icon to collapse the navigation bar

## 4. DASHBOARD

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



Using the bar at the top, you can select the period for which you want to view the data:

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

### Please note

The time period setting for the Dashboard will be saved locally and restored to its default value in the following two cases:

- when you log out manually
- when clearing your browser data

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

## 5. DATA DISPLAY PAGES

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

All this data and its management will be explained in detail in the following chapters.

This chapter will show you the basic structure of a data display/management page and its main elements.

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

The screenshot displays a list of drivers with the following data points for each entry:

Name	Email	Total amount dispensed	Amount left
Adrian Russell	a.perez@bsmart.com	0 L	
Alexander Baker	e.green@bsmart.com	9 474 L	5 250 of 10 500 L
Austin Foster	a.foster@bsmart.com	13 484 L	300 of 1 500 L
Brandon Davis	b.davis@bsmart.com	16 020 L	6 600 of 11 000 L
Cameron Perez	c.perez@bsmart.com	12 219 L	2 450 of 3 500 L
Carson Bennett	c.bennett@bsmart.com	12 651 L	
Carter Davis	k.reed@bsmart.com	13 311 L	1 000 of 5 000 L
Christopher Gonzales	c.gonzales@bsmart.com	12 201 L	
Ethan Griffin	e.griffin@bsmart.com	10 076 L	6 400 of 6 000 L
Hannah Turner	h.turner@bsmart.com	14 565 L	450 of 4 500 L
Hayden Wright	h.wright@bsmart.com	14 181 L	1 800 of 3 000 L
Jackson King	j.king@bsmart.com	8 008 L	5 250 of 7 500 L
James Thomas	j.thomas@bsmart.com	12 235 L	2 400 of 6 000 L
Kayla Ramirez	k.ramirez@bsmart.com	12 670 L	
Landon Rogers	l.rogers@bsmart.com	13 717 L	

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

Number of items available in total.

- **Advanced filters**

*Explained in detail in the chapter 5.1.*

- **Actions**

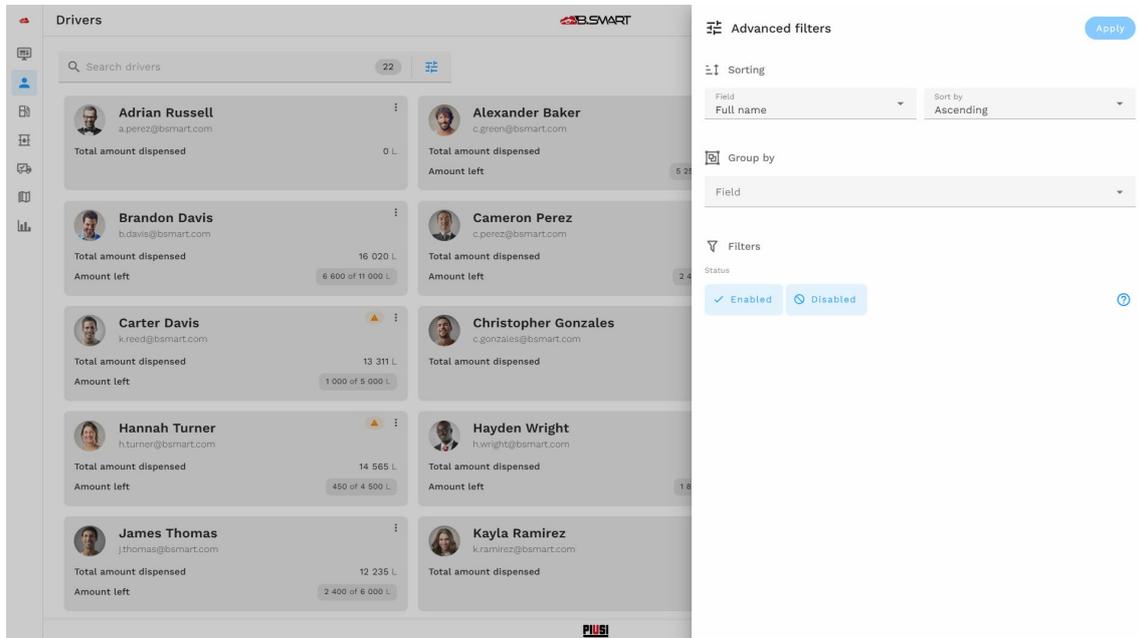
Divided into main (usually adding data) and secondary (usually importing and/or exporting, if applicable).

- **Page data**

Container showing the page data in card form (on medium-large screen devices) or list form (on mobile devices).

## 5.1. Advanced filters

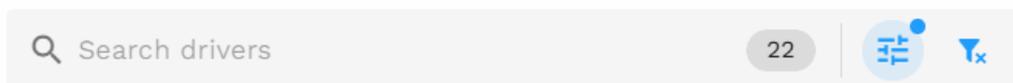
By pressing the icon  in the text search bar, a menu will open on the right allowing you to set advanced filters for a more precise search of the data.



When you change one or more advanced filters:

- The filter reset button will appear  button will appear at the top right: pressing it will reset the advanced filters to their initial values.
- The button  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 advanced filters you set.

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



- The advanced filters icon will have a blue circle to indicate a change has been applied to the original
- A filter reset button will appear. Clicking it will restore the advanced filters to their initial values without having to open the drop-down menu and press the button described above.



In general, advanced filters contain the following fields:

- **Sort field**

The fields of the currently displayed data on which you want to sort

☰ Sorting

Field: Email      Sort by: Ascending

- **Sorting direction**

Ascending or descending

📁 Group by

Field

- **Grouping field**

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

🔍 Filters

Status

✓ Enabled      ⏸ Disabled      ?

- **Advanced filters**

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

**Note**

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

## 6. DRIVERS

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

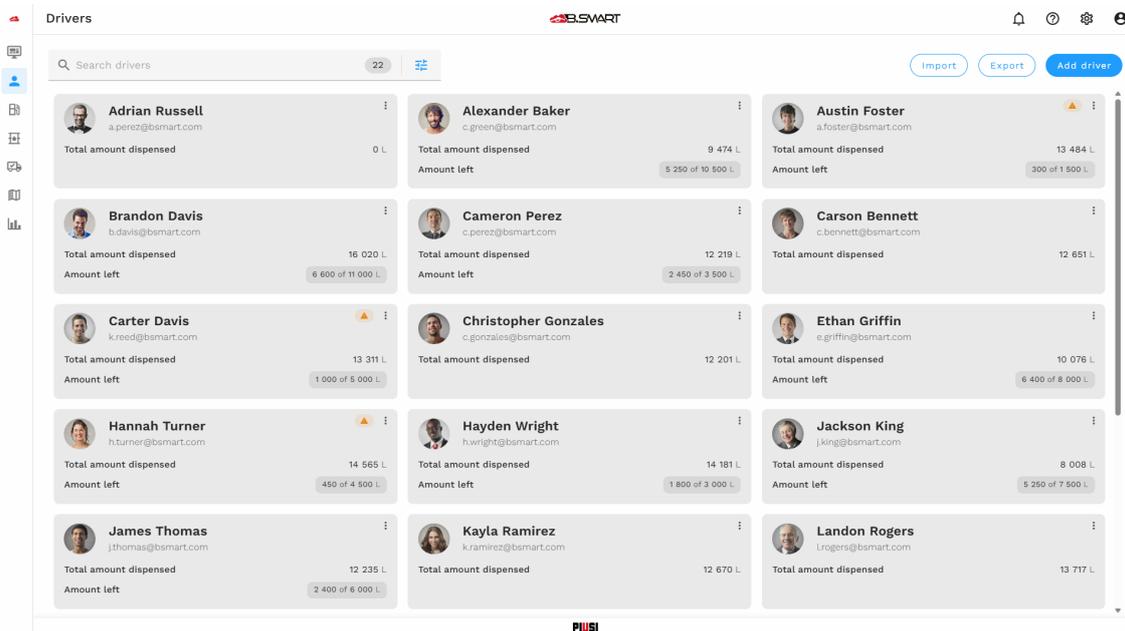


Drivers icon (compact menu)



Drivers icon (expanded menu)

From this section, you can add, edit, delete, and search for drivers in the system.

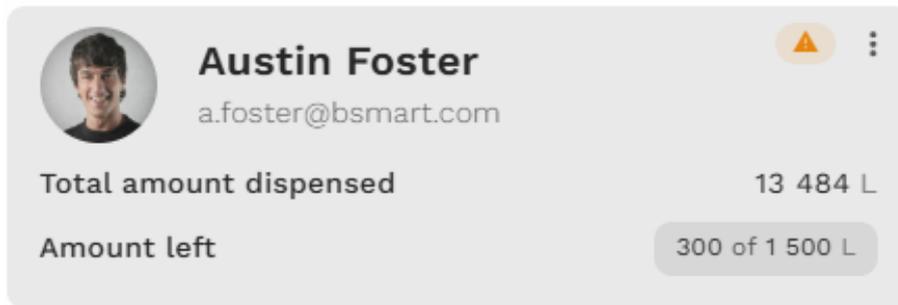


### Please note

If you wish to increase the maximum number of drivers, you must purchase a new "driver access add-on" extension and activate it from the "Add-ons" subsection of the settings (see chapter . 13.3.3).

## 6.1. Information

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



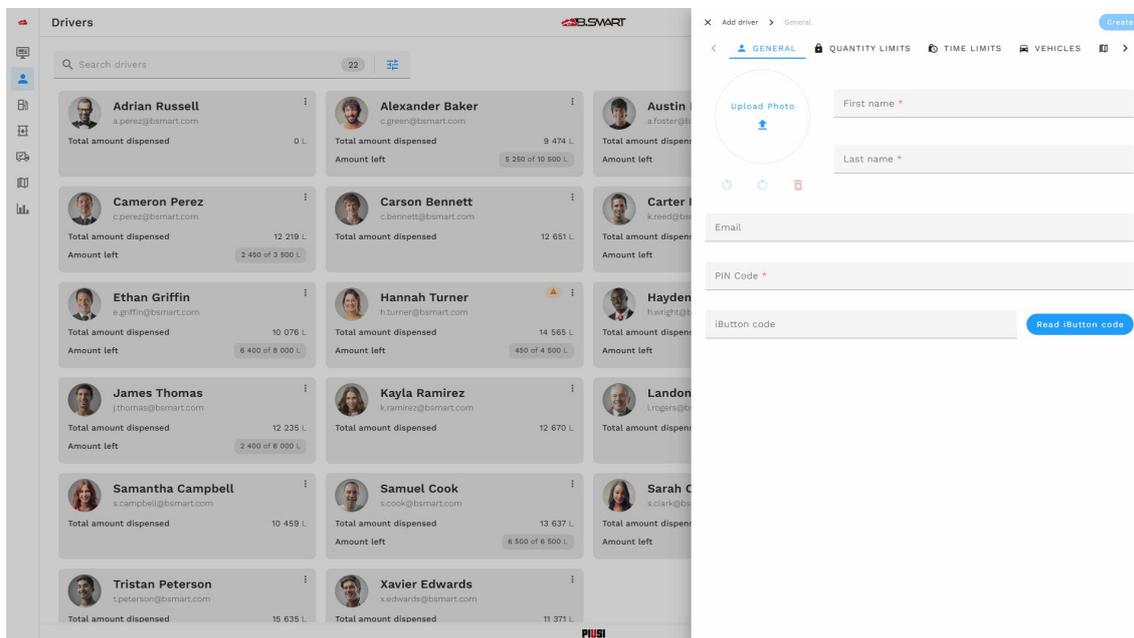
To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data, as described in the following paragraph.

## 6.2. Add

To add a driver, press the button at the top right

**Add driver**

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



## 6.2.1. GENERAL information section

In this section, you can fill in the driver's personal details:

- image (optional)

Driver identification photo. To upload an image, click on the appropriate circle.

- **Name** (Required)  
Driver's first name
- **Last** (Required)  
Driver's last name

- **Email** (Optional)  
Driver's email address.

- **PIN code** (Required)  
Unique driver code. Required by the mobile application to authenticate the driver on the site and enable them to make deliveries.

- **iButton code** (Optional)

Code shown on the iButton key. Used by the driver to authenticate themselves on the terminal instead of using their phone.

The iButton 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, you need to install the *PIUSI IBUTTON READER* and, once installed, press the .

For more information, see the chapter 14.

## 6.2.2. QUANTITY LIMITS section.

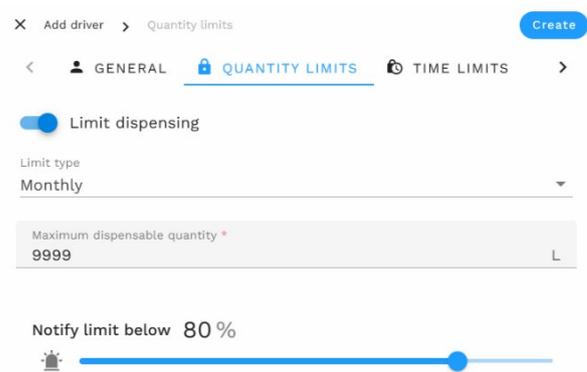
*NOTE: this section is only available if the **Fuel Economy add-on is active***

From this section, you can configure a limit on the amount that can be dispensed by the driver in a given period of time.

Once the maximum quantity that can be dispensed within the period has been reached (i.e., the remaining quantity is zero), the driver is blocked and can no longer dispense fuel from the system's fuel dispensers.

At the end of the time period, the driver's remaining quantity is reset to the maximum quantity that can be dispensed during the period.

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



- **Period type:**
  - **Monthly**  
At the beginning of each month, the remaining quantity is reset;
  - **Weekly**  
Set the day of the week on which the remaining quantity is reset;
  - **Daily**  
Set after how many days ("Number of days"), starting from a date of your choice ("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 driver.

- **Maximum dispensable quantity**

Maximum quantity of liters/gallons that can be dispensed by the driver from all fuel dispensers at the facility in a given period of time.

- **Alarm threshold** (as a percentage)

If the percentage of remaining quantity relative to the maximum quantity that can be dispensed falls below the set alarm threshold, an alarm is activated (it will appear at the top right of the driver's card ) to notify the driver that they are about to run out of fuel.



### Attention!

- If the manager decides to change the defined period or the maximum dispenseable quantity within the period, the calculation of the remaining quantity up to that point will be reset. external dispenses are not included in the residual quantity count.
- The remaining quantity can be reset manually. *The procedure is explained in paragraph 6.3.3.*

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

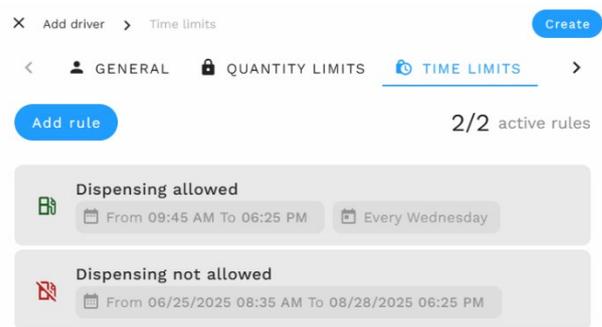
The driver is allowed to dispense 94 014 Liters every month  
 Driver dispensing availability: 94 014 L  
 ⓘ Next reset: 07/10/2025 12:00 AM  
 You will be notified when the driver's available quantity reaches 13 161.960

### 6.2.3. TIME LIMITS section

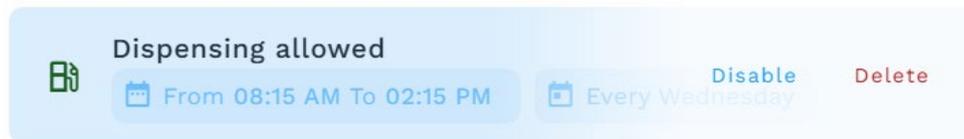
*NOTE: this section is only available if the Fuel Economy add-on is active*

From this section, you can set the driver's working hours to prevent them from dispensing fuel from the system's fuel dispensers outside the configured time limits.

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



Hovering the cursor over an item will display two actions:



- **Disable/Enable**

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

- **Delete**

To delete a rule from the list

Clicking on the list item will open a drop-down menu on the right for editing data.

Press the button  button to enter a new time 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) on which the driver is authorised to deliver. Outside the time set for the specified day, the driver will not be authorised to deliver.

- **Closing period**

Select a time period during which the driver is not authorised to deliver. Outside the specified period, the driver is always authorised to provide services unless other limits are set.

If no rules are defined for time limits, the driver is always authorised to provide services at any time.



## 6.2.4. VEHICLES section

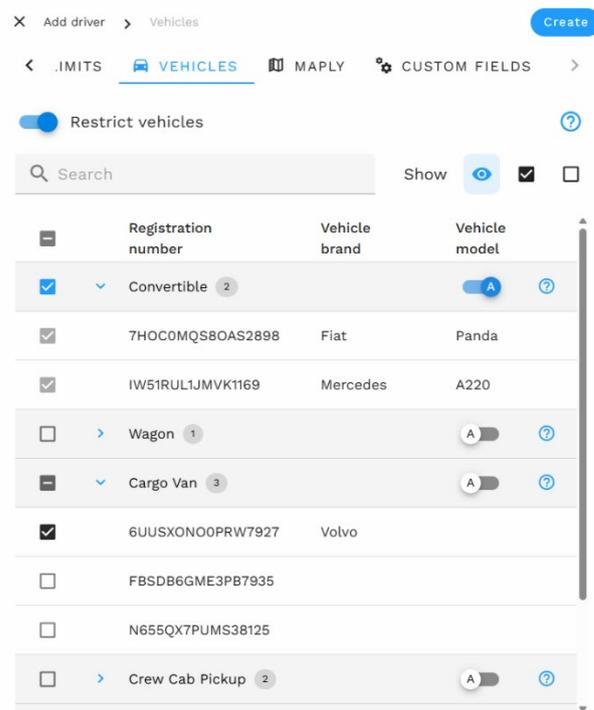
*NOTE: this section is only available if the **Fuel Economy add-on is active***

In this section, you can set which vehicles or vehicle categories the driver is authorised to dispense fuel for. By default, every driver is authorised to dispense fuel in every vehicle in the system.

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

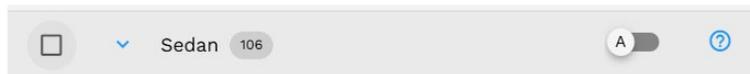
If this button is disabled, the driver will be authorised to dispense on any vehicle and vehicle category.

If the button is enabled, manual selection comes into play, where you can select one by one the vehicles (or categories) on which the driver is authorised to deliver.



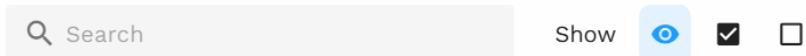
The list of vehicles is grouped and divided into categories. Each header represents a category and can be collapsed.

Each header contains:



- A checkbox to select/deselect all child vehicles.
- An arrow to collapse/expand the sub-list of vehicles.
- Category name and number of vehicles in the sub-list.
- A "toggle" button on the right for automatic category mode 
  - If enabled, the category and all its child vehicles (including any vehicles in that category that will be created from now on) will be automatically associated with the driver, meaning that the driver will be enabled to deliver on all the vehicles mentioned above.
  - If disabled, only vehicles manually selected using the checkboxes on the left will be associated with the driver, meaning that the driver will only be able to provide services on the manually selected vehicles.

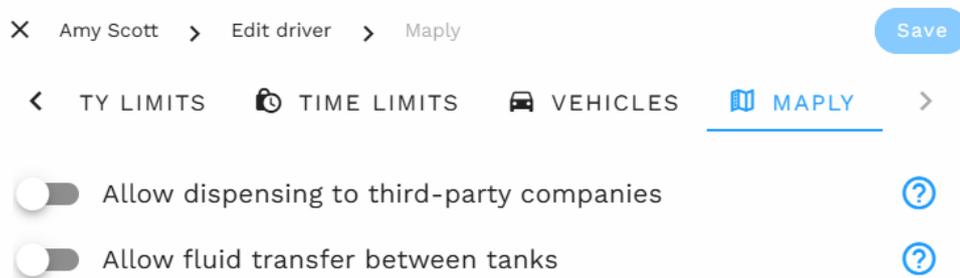
You can also search for vehicles using the search bar and filter the vehicles using



the three buttons on the right to view "all vehicles," "only selected vehicles," or "only deselected vehicles," respectively.

## 6.2.5. MAPLY section

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



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

If this option is enabled, the driver can choose to refuel third-party registration numbers during refueling (see *chapter 11.3*).

- **Allow transfer between tanks**

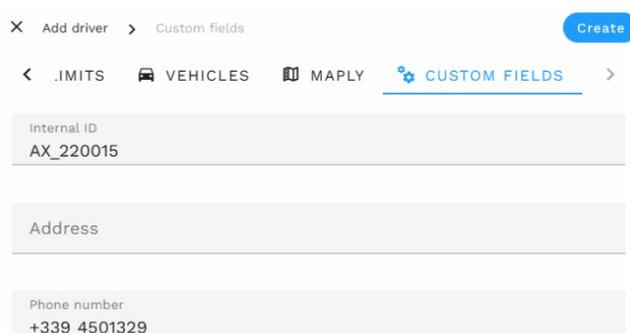
*NOTE: this option is only available if the **Tank Watchdog add-on is active***

If this option is enabled, the driver can select a tank in the system to which to transfer fuel during dispensing.

## 6.2.6. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set up for drivers (see *chapter 13.2.1*).*

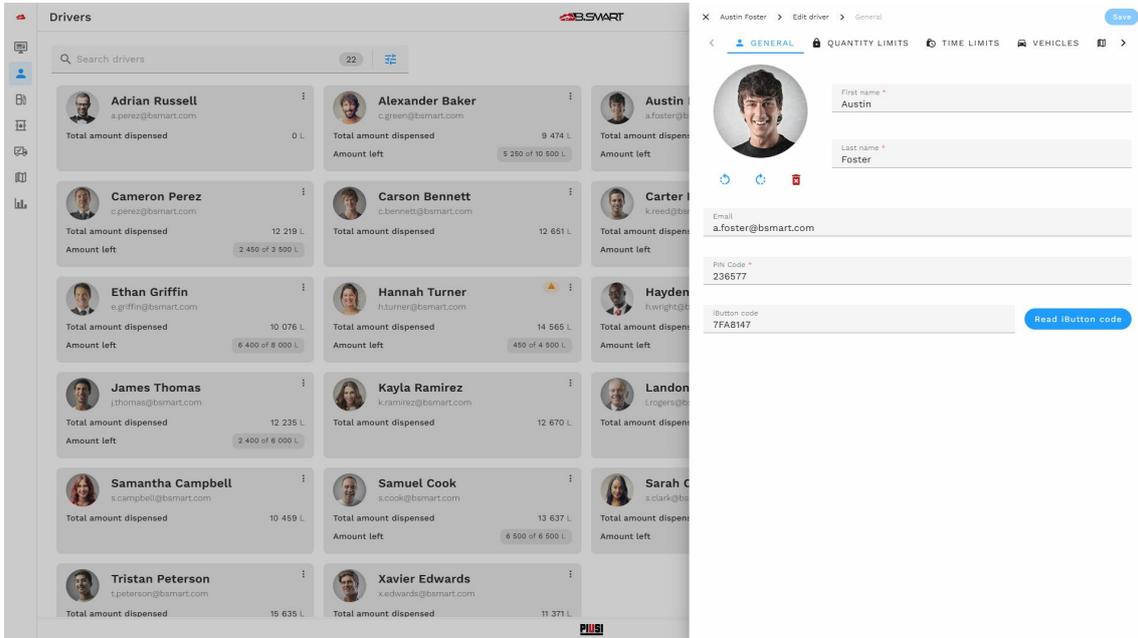
This section allows you to enter custom fields for the driver being created.



### 6.3. Edit

To edit a driver, press on the card. A menu will open on the right to edit the data.

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



## 6.4. Management operations

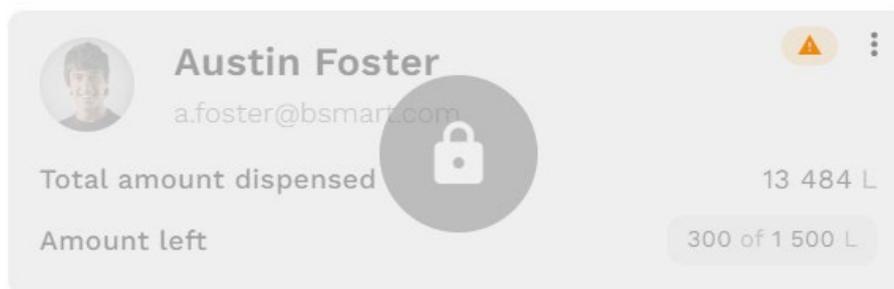
Clicking on the three dots at the top right of a driver's card will display the actions that can be performed on it.



### 6.4.1. Disabling

Pressing "Disable" will disable the driver. A disabled driver will not be able to dispense from the system. You will be asked to confirm before disabling a driver.

A disabled driver will be displayed differently, with a padlock and partial transparency.



To reactivate the driver, press the three dots in the top right corner and select the "Enable" option. You will be asked to confirm before enabling a driver.

### 6.4.2. Deletion

Pressing "Delete" will delete the driver from the system. You will be asked to confirm before deleting.

### 6.4.3. Reset dispensed quantity

*NOTE: this feature is only available if the **Fuel Economy add-on is enabled** and if the driver has a limit on the quantity that can be dispensed.*

If the alarm icon appears on the driver's badge (  ), it means that the driver has reached the maximum quantity that can be dispensed within the period.

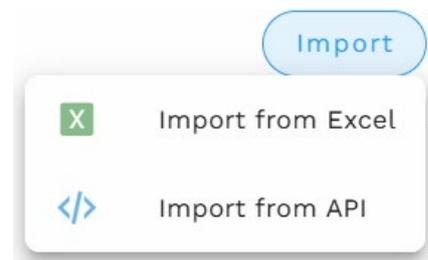
Hovering the cursor over the driver's card will display the button  which allows you to manually reassign this quantity before this operation is performed automatically by the system at the end of the set period.



## 6.5. Import

There are two ways to import drivers:

- Import via Excel
- Import via API



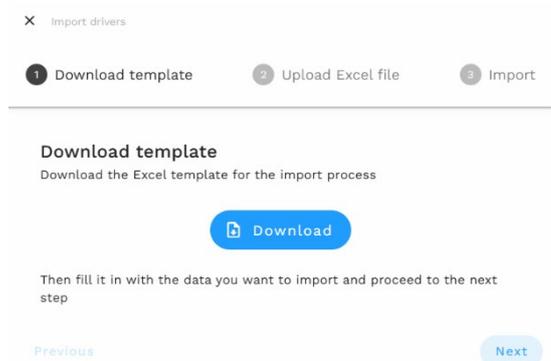
### 6.5.1. Excel import

You can import drivers from an Excel file by clicking on "Import from Excel."

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

#### Download template

Pressing the button  button, an Excel template will be downloaded with a blank table already set up for you to fill in the drivers you want to add.



	A	B	C	D	E	F	G	H
1	First Name (mandatory)	Last Name (mandatory)	Pin Code (mandatory)	email (optional)	iButton (optional)	Custom field 1 (optional)	Custom field 2 (optional)	Custom field 3 (optional)
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

The Excel sheet must be filled in with the desired information. Each row represents a driver and each column represents a field.

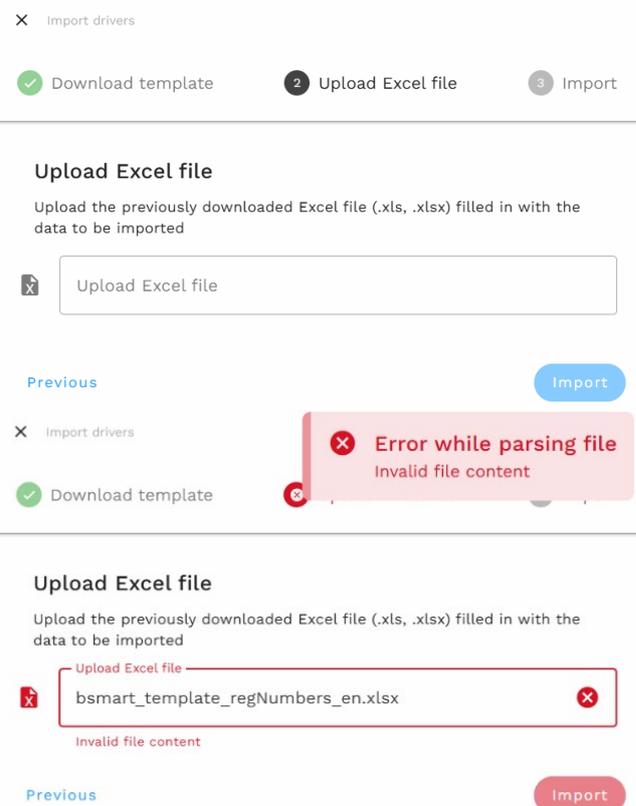
Once you have completed and saved the Excel file, press the **Next** in the driver import section.

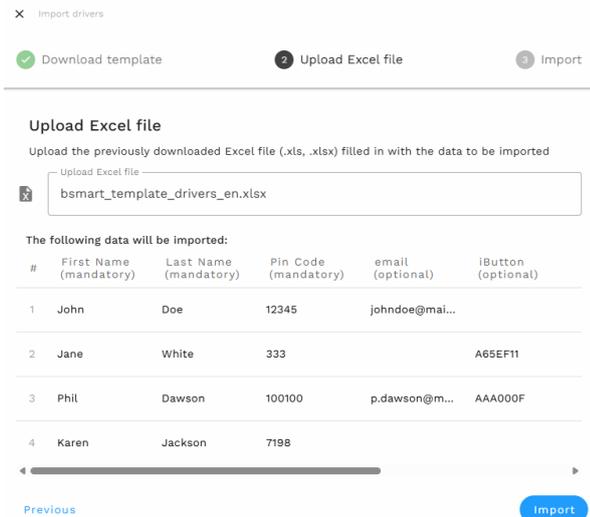
### File upload

In this second step, you can upload the file you just filled out 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:** you can only upload Excel files from the previous step. It is not possible to create a custom file with the list of drivers and upload it.

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





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

To proceed with the import, press the  button.

## Import drivers

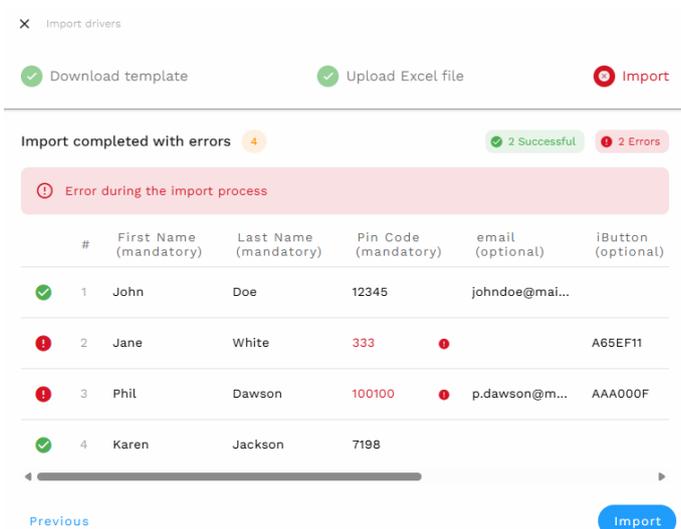
In the third and final step, you can start importing drivers.

A table will be displayed with the import results, so you can check the data you just uploaded.

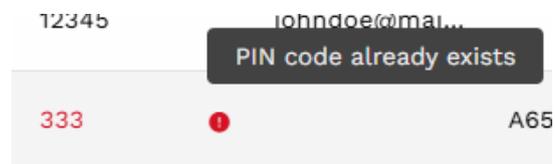
If errors occur during the import phase, they will be highlighted in the table rows, as shown on the right.

Rows relating to drivers who have been imported successfully will be preceded by the symbol , while rows relating to

drivers who have not been imported due to an error will be preceded by the symbol .



Hovering the mouse over an error indicator will display the corresponding message.



### 6.5.2. API import

*NOTE: The "Import via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

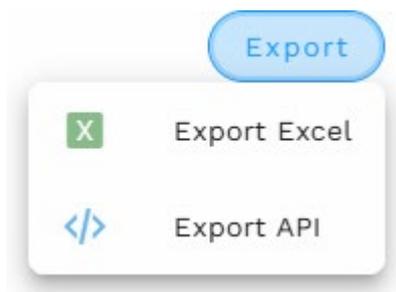
You can import drivers via API. Clicking on the "Import via API" option will redirect you to the Import/Export API documentation page in the "Drivers" section.

## 6.6. Export

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

Clicking on the "Excel export" option will generate an Excel file with the data currently displayed.

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



### Note

*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

## 7. DEVICES

The Devices section, accessible by pressing the relevant menu icon (see figures below), allows you to manage the devices in your system, configure the relevant pumps, and indicate which drivers are authorised to dispense fuel.



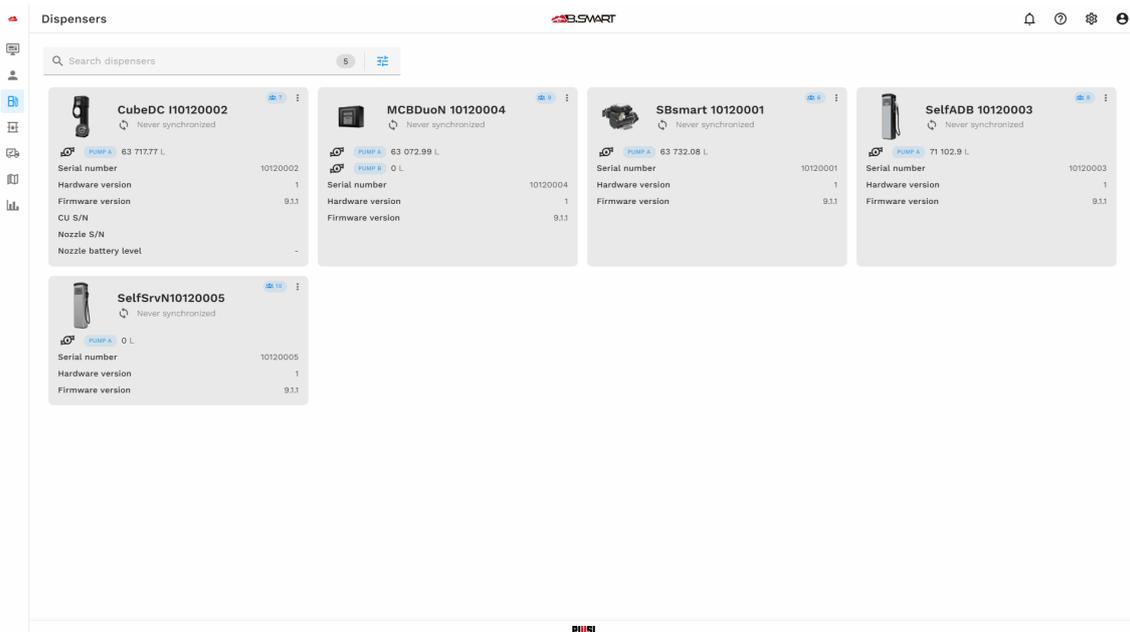
Devices icon (compact menu)



Devices icon (expanded menu)

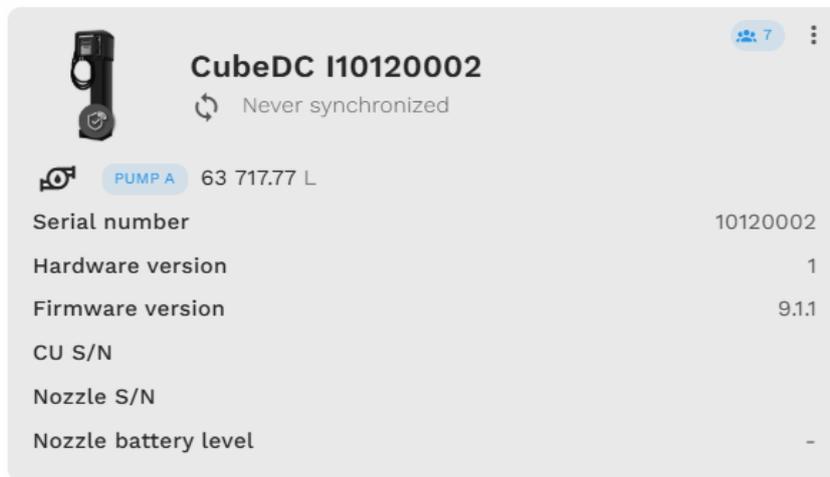
Devices are detected by the smartphone app and cannot be added manually from the Web App.

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



## 7.1. Information

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



The card also contains the following information:

- **Panel serial number**

Unique panel ID.

- **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 be displayed in the top right corner (see *paragraph 7.1.3*).

To update the firmware of the column, you must use the smartphone app and log in as a manager.

- **Additional** relating to the nozzle and RFID receiver, only for B.SMART device models equipped with an RFID receiver:
  - RFID receiver serial number
  - RFID nozzle serial number
  - Percentage of remaining battery charge in the nozzle

To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

### 7.1.1. Alarms

If alarms have been triggered on the device, the button will appear on the card  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 installed, alarms relating to the tank and connected sensors will be displayed.

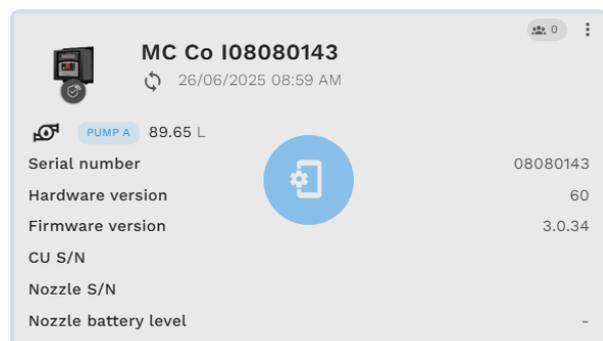
If the add-on is not present, only alarms relating to clean contacts will be displayed.

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

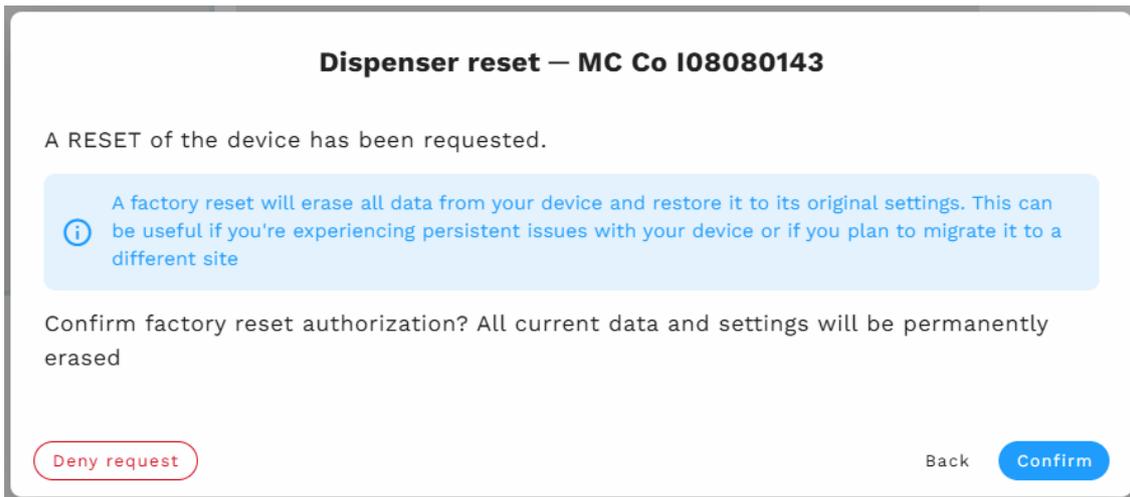
### 7.1.2. Reset request

You can initiate a reset request for the dispenser 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 "reset in progress."

In this state, you cannot make any changes to the device configuration. To resume using the device, complete the reset procedure using the mobile application.



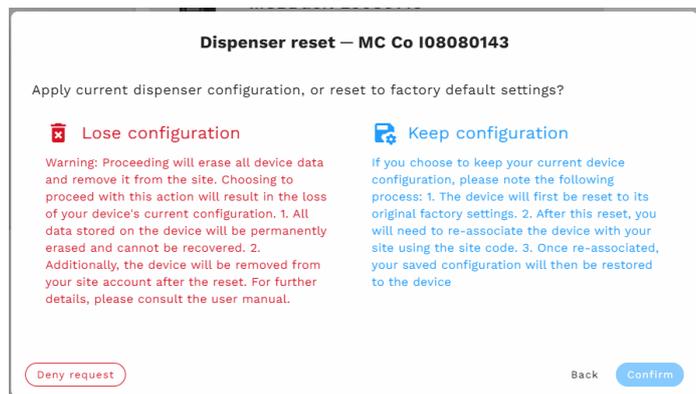
Clicking on the device in question will open a modal window with the reset wizard.



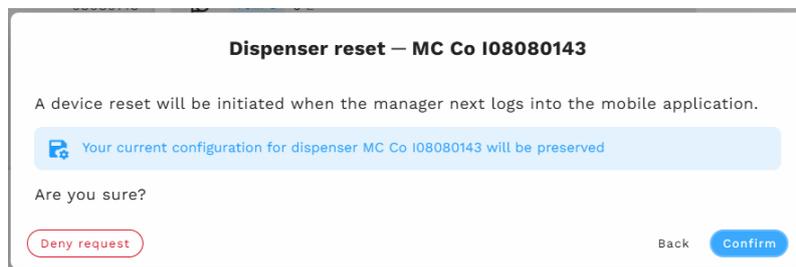
Clicking on the button on the left **Deny request**, the reset request will be denied. You will need to make a new request from the smartphone app (refer to the *B.SMART smartphone app manual on how to request device reset*).

Pressing the confirmation button will open a new screen where you can choose whether to delete or keep the device configuration after the reset.

Pressing one of the two options will highlight it. To proceed, click on the "Confirm" button.



Whichever option you select, pressing "Confirm" will display a warning asking for final confirmation before continuing and allowing you to review the option you selected previously. Once you accept this final warning, the actual device reset procedure will begin.



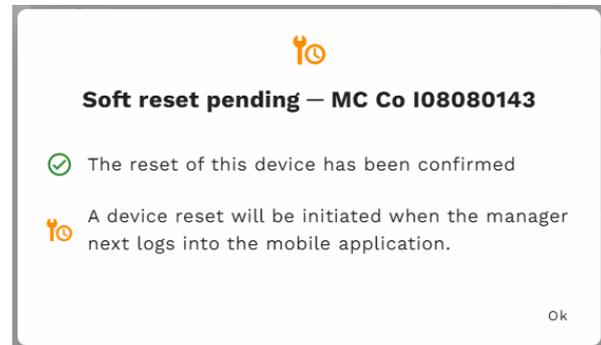
Once the reset procedure has been completed from the Web App, the device will display the following icon on the card:



Even in this state, you cannot make any changes to the device configuration.

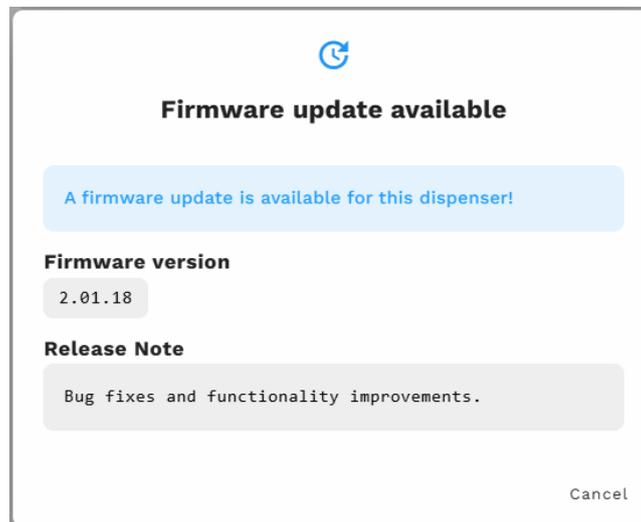
Clicking on the card will display a modal describing the status of the device reset

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



### 7.1.3. Availability of updates

If an update is available, a badge will appear next to the "Firmware version" item: **Firmware version** New!. In addition, the icon will appear at the top right, indicating that firmware updates are available. Pressing this button will open a modal window with a description of the firmware update.

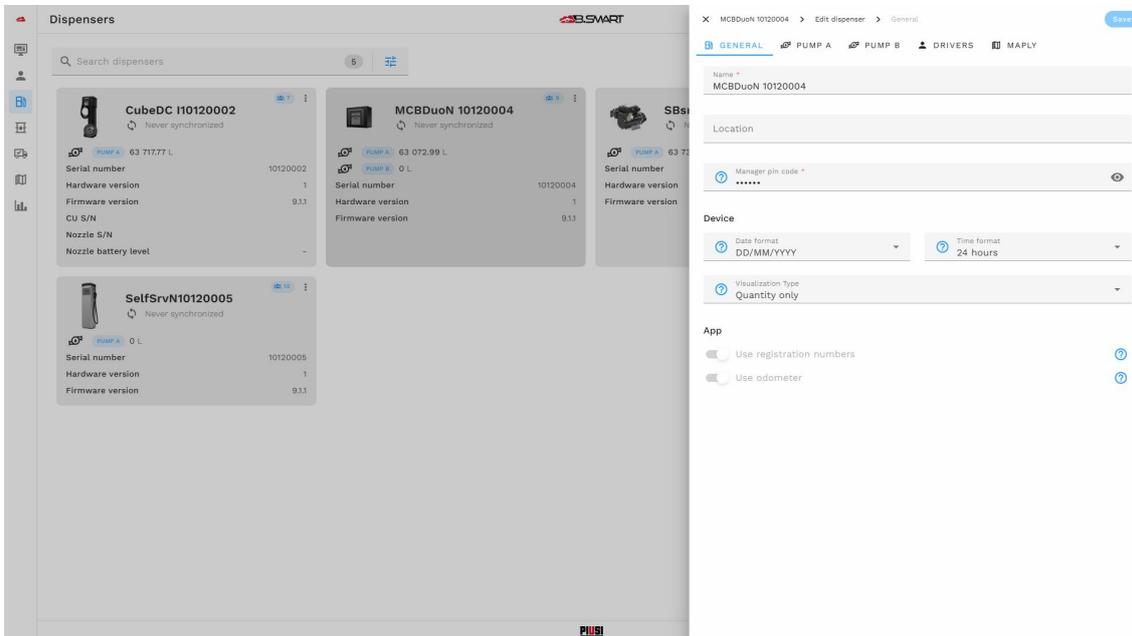


### 7.1.4. Drivers associated with the device

The icon indicates the number of drivers who are authorised 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 drivers associated, the badge will become colored and show the number of drivers associated.

## 7.2. Edit

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

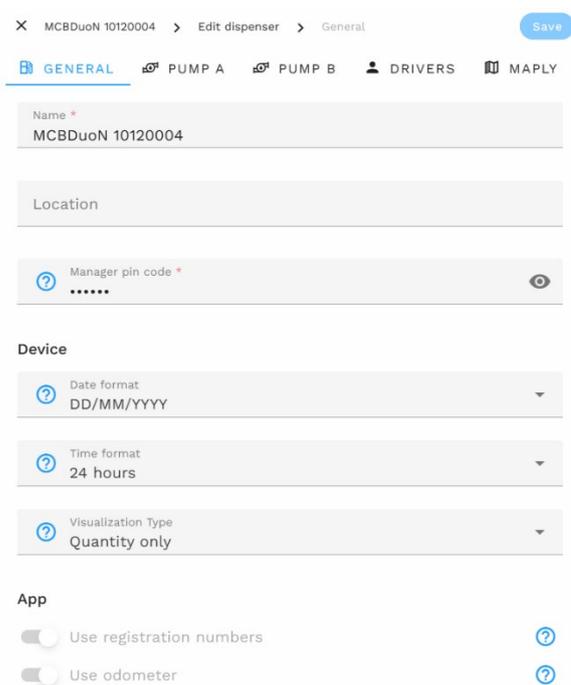


The fields are grouped and divided into tabs (or sections) according to topic.

### 7.2.1. GENERAL information section

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

- **Device name/**  
Unique identifier for recognising the device within the system.
- **Location**  
Location where the column is located.
- **Manager PIN code**  
Authentication code that the system manager will use to perform specific configurations from the mobile application (panel firmware update and dispenser calibration).
- **Date format**



Format of the date displayed on the device display.

- **Now format**

Time format displayed on the device display.

- **Use registration numbers**

Indicates whether registration number management is enabled. If enabled, the mobile application will ask you to enter a registration number before starting dispensing.

- **Use odometer**

Indicates whether odometer management is enabled. If the registration numbers represent vehicles to be refuelled, you can specify the vehicle's odometer before starting to dispense fuel.

*NOTE: This option is only available if the Use registration numbers option is enabled.*

- **Display type**

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

- **Buffer overwrite**

Behaviour that the device must follow when the internal dispensing memory space is full (only for PIUSI 3000 Supreme pumps):



- **Disable**

**Blocking** behaviour: once the space used to save dispenses within the device is full, no new dispenses can be made until the information is synchronized in the cloud;

- **Active**

**Overwritable** behaviour: once the space used to save dispensing data within the device is full, each new dispensing operation will overwrite the oldest dispensing operation in memory.

- **Enable RFID receiver**

By enabling this feature, the device will be able to recognise the vehicle to be refuelled by reading an RFID TAG (using a special nozzle). Furthermore, if protected dispensing is enabled (in the vehicle configurations), the system will prevent fluid from being dispensed outside the vehicle's tank.

This function is only available 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 "Use registration number" and "Use odometer" options are automatically activated on all control units of the system and cannot be deactivated until the add-on is deactivated.

## 7.2.2. PUMPS section

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

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

### 7.2.2.1. GENERAL information section

- **Pump enable/disable**

Switch to enable or disable the pump. When the pump is disabled, refuelling is not possible.

- **AdBlue**

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

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

- **Name**

Unique identifier for pump recognition.

- **Unit**

Unit of measurement in which the liquid is dispensed.

- **Number of decimals**

Number of digits to be displayed 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 each pulse by setting the flow meter type to *Custom*.

- **Connected tank**

If the Tank Watchdog add-on has been activated ( , ), a tank can be connected to the pump.

N.B:

- In order to manage tanks, the device firmware must be updated to version 1.4.0 or higher.
- in the case of virtual tanks, any changes related to the tank or its association with a dispenser require a correction (via the smartphone app with manager access) before any refuelling operation can be performed.

- **Tank manager**

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

If the tank is virtual, this indicates whether the tank information is stored in the memory dedicated to this pump (see the "Tank sharing" **section** below).

- **Nozzle contact**

Indicates the presence of the nozzle contact.

- **Nozzle contact type**

Indicates whether the nozzle contact is normally open or closed.

- **Dispense start timeout**

Number of seconds that elapse from when the dispensing operation starts, 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 cancelled.

- **Dispense end timeout**

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

- **Level 1 alarm input**

Enables/disables alarm input number 1.

- **Alarm contact type 1**

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

- **Level 1 alarm**

Indicates the behaviour of the device when alarm number 1 is activated:

- *Warning*: the mobile application displays a warning message indicating that alarm number 1 has been activated. In this mode, the pump is not blocked and delivery is still possible.
- *Pump lock*: the pump is blocked and delivery is no longer possible in any way until alarm number 1 is reset.

- **Level 2 alarm input**

Enables/disables alarm input number 2.

- **Alarm contact type 2**

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

- **Level 2 alarm**

Indicates the behaviour of the device when alarm number 2 is activated:

- *Warning*
- *Pump lock*

## **Tank sharing**

The same tank can be shared between multiple dispensers.

If the dispensers sharing the tank belong to different devices, a CANBUS communication network must be installed between the devices. Refer to the device manual for further information.

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

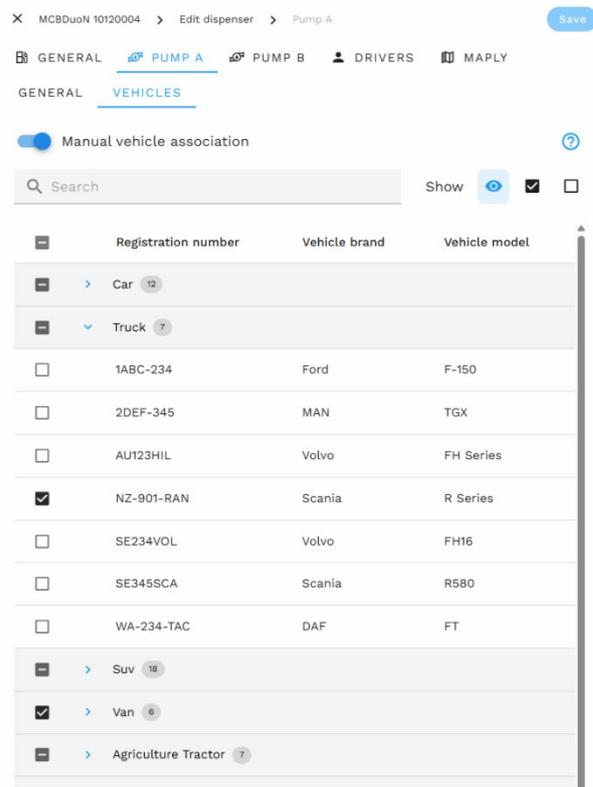
NB: If a configuration linked to a tank is modified, it must be synchronised on *the manager* before dispensing from all other pumps that share the tank.

To synchronise the configuration, simply connect to the App while you have an internet connection.

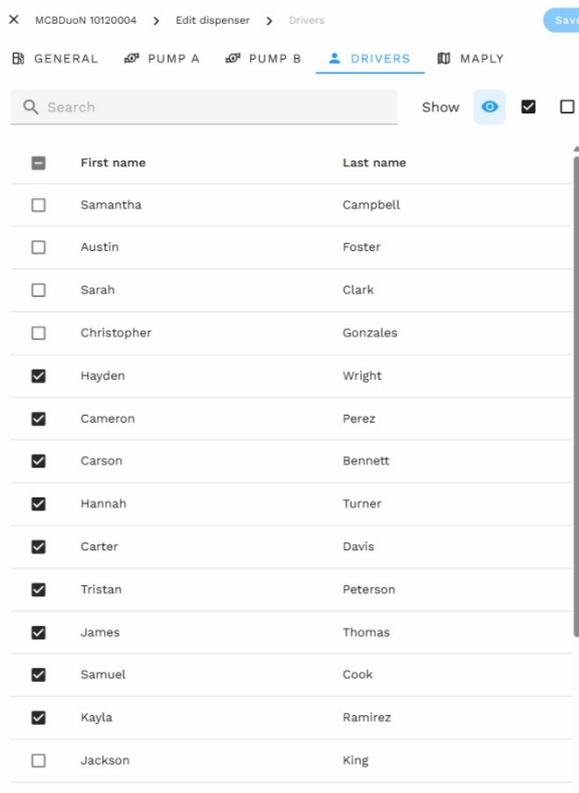
### 7.2.2.2. VEHICLE association section

*NOTE: this section is only available if the Fuel Economy add-on is active and if the "Enable vehicle association on pump" option is enabled in the "Settings/Add-ons/Fuel Economy" section (see chapter) 13.4.1*

From this screen, you can indicate 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 on multiple devices in the system; there is no limit to the number of vehicles that can be associated with a single pump.



### 7.2.3. DRIVERS section



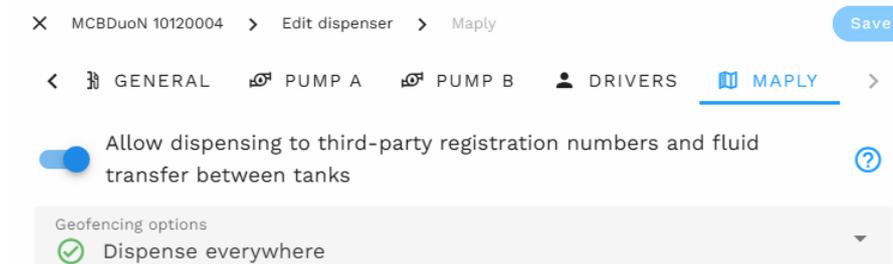
From this screen, you can indicate which drivers to associate with the fuel dispenser. Only associated drivers can authenticate themselves on the column (via mobile application or iButton) to dispense fuel. A single driver can be associated with multiple columns in the system.

#### Note

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

## 7.2.4. MAPLY section

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



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

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

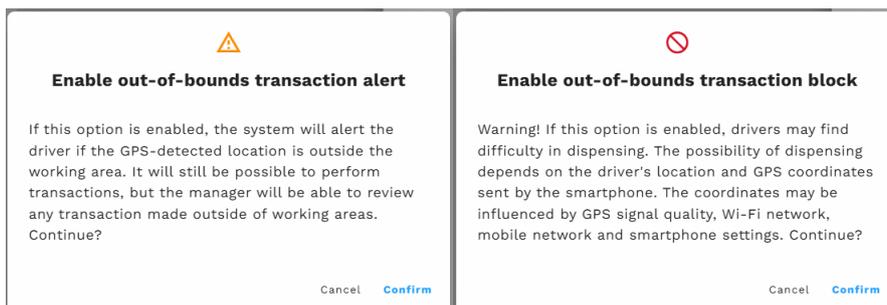
If the function is enabled, all drivers who connect to this control unit can dispense to third-party registration numbers and can also automatically manage product transfers between tanks within the system.

- **Dispensing management**

This setting specifies how dispensing is managed based on the GPS position of the dispenser. The following configurations are available:

- Dispense anywhere: dispensing from the dispenser can be started at any geographical location, no restrictions apply;
- Report dispensing outside operating areas: dispensing from the dispenser can be started at any geographical location, but the driver will be notified if they are starting dispensing outside the operating areas. If the driver proceeds with dispensing despite the warning, the dispensing report will notify the facility manager that dispensing has taken place in a location where it is not permitted.
- Block dispensing outside the operating areas: drivers can only dispense from the device if it is located within one of the operational areas. The limit allows you to operate in all existing operating areas within the facility.

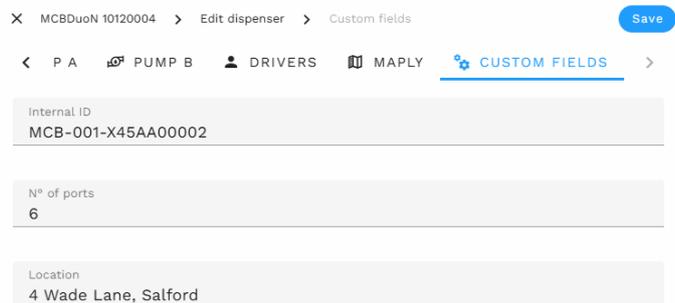
NOTE: changing the dispensing management setting will display one of the two warnings shown below, depending on whether you are switching to "notify" or "block" mode, respectively.



### 7.2.5. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set up for drivers (see chapter 13.2.1).*

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



### 7.3. Management operations

Clicking on the three dots at the top right of a device card will display the actions that can be performed on it.



### 7.3.1. Deletion

Pressing "Delete" will delete the device from the system. You will be asked to confirm before deleting.



#### Attention!

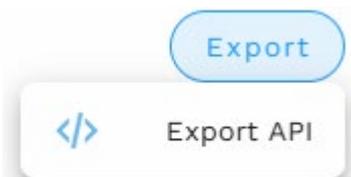
**When you delete a device, all configuration data will be lost.**

- The delete operation should only be used if you need to move the dispenser to a different site code (see the smartphone app manual for more details).
- If a device has been deleted, it is not possible to: add it to the system via discovery; synchronise data from the cloud to the smartphone application. Deleted devices can be viewed by selecting the "Deleted" button in the advanced device filter statuses (see *chapter 5.1 for more details*).

### 7.4. Export

Devices can only be exported in one mode: API.

Clicking on the "API Export" option will redirect you to the export API documentation for devices.



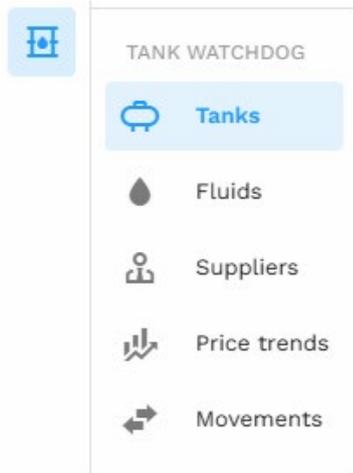
#### Note

*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

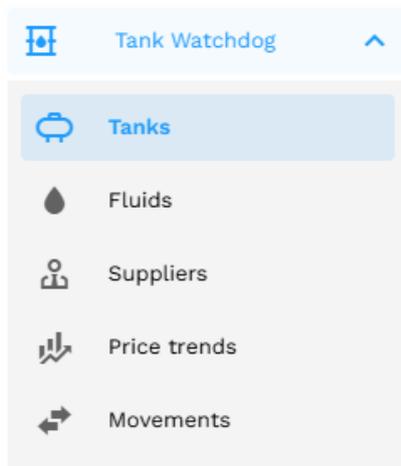
## 8. TANK MONITORING

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

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



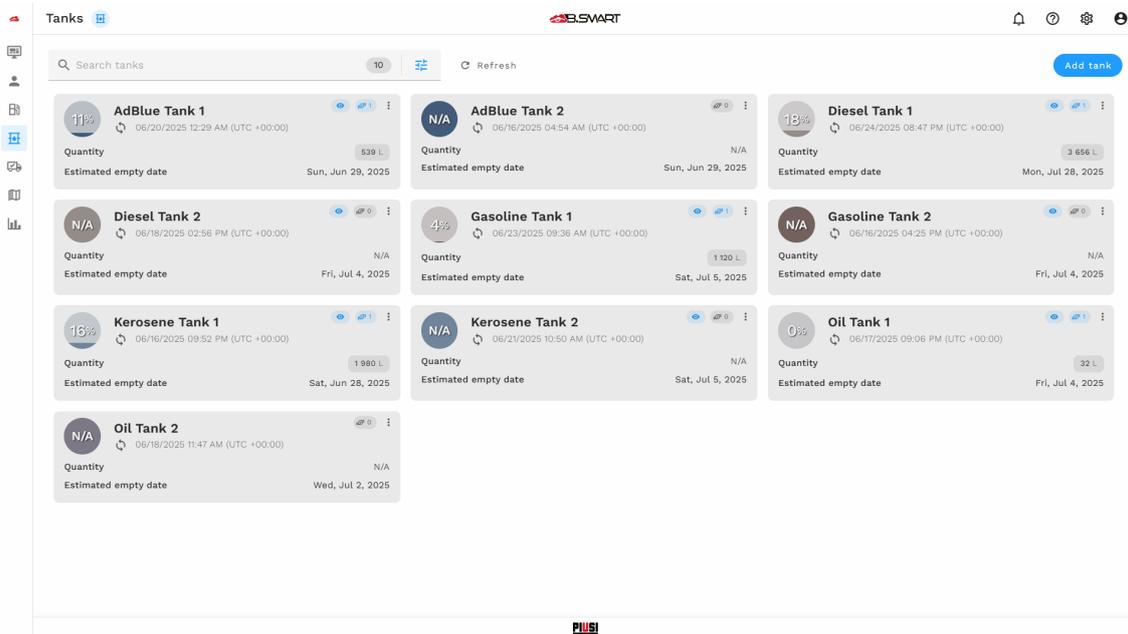
Tank Watchdog icon (compact menu), with submenu icons.



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

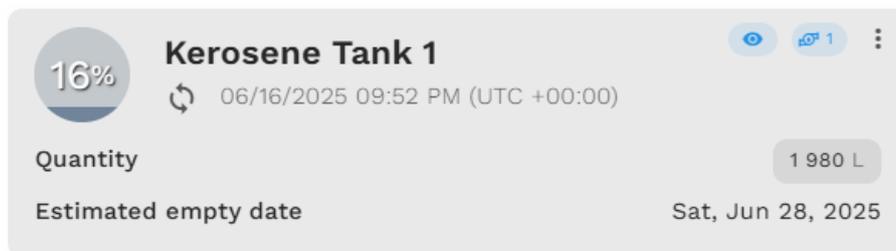
## 8.1. Tanks

From this section, you can manage the tanks in the system.



### 8.1.1. Information

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



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

- **Quantity** present in the tank
- **Alarm configuration and status**
- **Estimated date for tank reset**

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

- **Last synchronisation date**

This is the last date on which the APP synchronised the tank. All information (quantity, alarm status, movements) is to be considered relative to that date.

To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

### 8.1.1.1. Status Types

A tank can have a different status. These statuses will be shown at the top right:

- **Monitored**

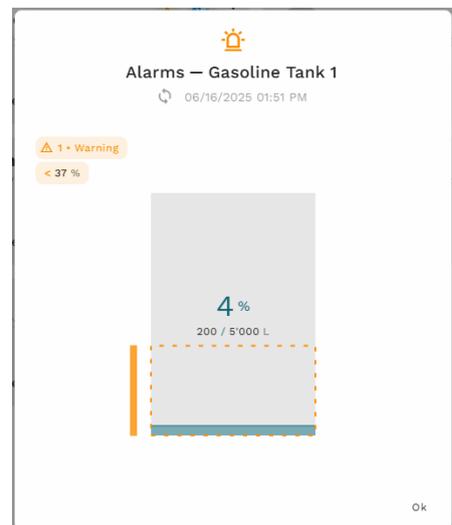
If the tank is monitored by a level sensor (OCIO, Analog, etc.), the icon will appear  icon will appear.

- **Protected**

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

- **Alarms**

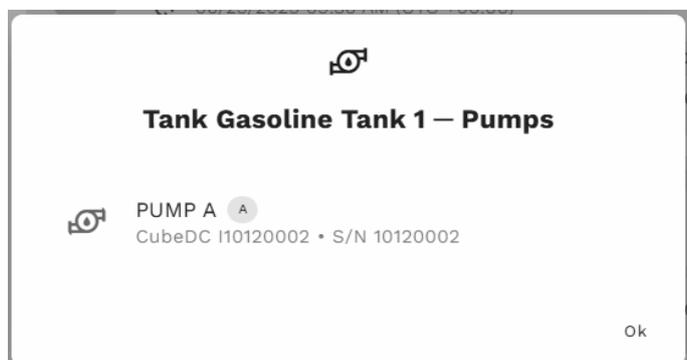
In the event of a tank alarm, the icon  will appear. Pressing the icon, you can view detailed information on the tank status and the alarm that has been triggered, as shown in the image on the side.



- **Connected dispensers**

By pressing 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 grey, display the number "0," and will not be clickable.

Clicking on the badge will open the window shown on the side, containing the list of pumps connected to the tank.



## 8.1.2. Add

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

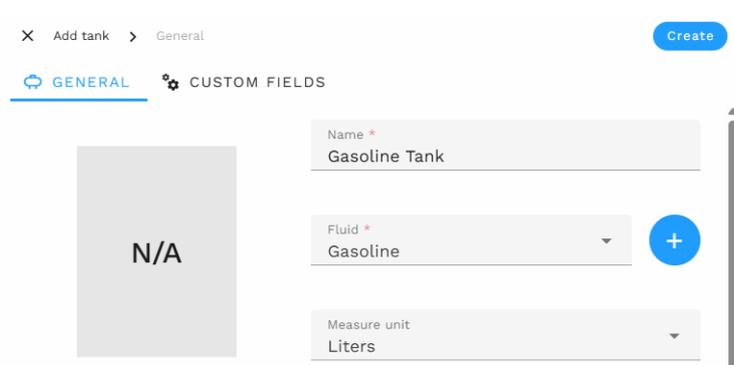
A menu will open on the right with all the fields to be filled in to create a new tank. The fields are grouped and divided into tabs (or sections) according to topic.

### 8.1.2.1. GENERAL information section

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

#### General

- **Name:** (Required)  
Unique tank ID (maximum 16 characters)
- **Fluid:** (Required)  
Fluid contained in the tank. You can select a previously created fluid or create a new one directly by clicking on the  to the right of the field.



- **Unit**

Unit of measurement in which the tank properties are expressed (capacity, values in the conversion 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 and share the same tank.

It is possible 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	Quart

Dispensers A, B, and C can all share the same tank.

**Note**

**No** 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, choose from:

- None (virtual tank)
- OCIO 2.0
- Analog sensor 4-20mA
- Analog sensor 0-10V

- **Capacity:** (only if the tank is virtual)

Indicates the tank capacity, expressed in the unit of measurement indicated.

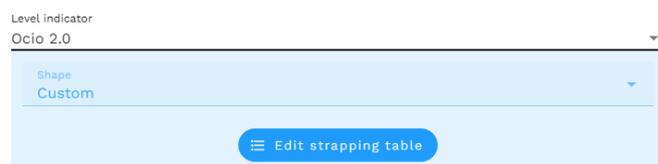
- **Shape:** (not available on virtual tanks)

Indicates the geometric shape of the tank, choosing from:

- Parallelepiped
- Horizontal cylinder
- Vertical cylinder
- Custom

If a custom shape has been selected, the geometric representation of the tank can be defined by filling in a conversion table.

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



The conversion table consists of a series of measurements (up to a maximum of 100 values) indicating the volume present as the height varies.

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

A graph will be displayed at the top showing the trend of the conversion table (x-axis: level, y-axis: volume).

It is also possible to import a conversion table by uploading a suitably formatted Excel file.

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

Below is an example of the required Excel file format

0	0
10	140
20	200
...	...
70	3000

The values in both columns must always be ascending.

## IdentiTank

- **Enable TAG-protected dispensing**

By enabling this function, fluid can only be transferred to the tank in question if the RFID TAG is detected for the entire duration of the transfer operation.

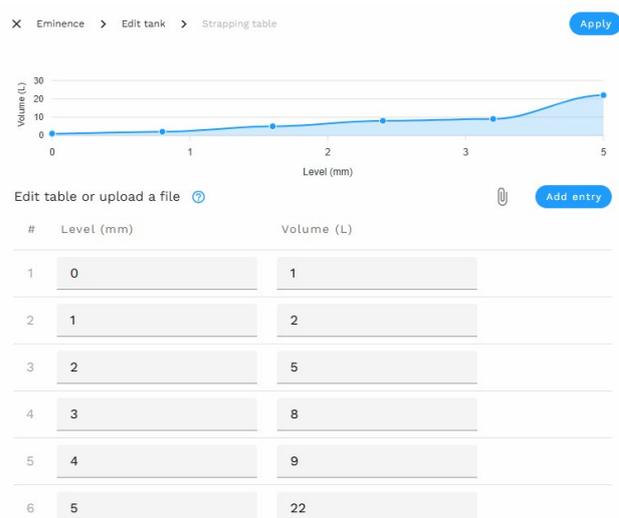
If the TAG associated with the tank is not read, the transfer will be interrupted.

- **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 special nozzle during dispensing. This field is mandatory only if **TAG-protected dispensing** 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, you must install the *PIUSI IBUTTON READER* tool and, once installed, press the button ).



You can 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 activate or deactivate the management of the individual alarm.
- **Threshold:**  
The threshold value that, once reached, will trigger the alarm.
- **Direction**  
The direction in which the alarm threshold is calculated. It can be:
  - Low: the alarm is triggered when the tank level falls **below** the set threshold.
  - High: the alarm is triggered when the tank level rises **above** the set threshold.
- **Behaviour:** Action to be performed when the alarm is triggered, choose from
  - Warning
  - Pump lock

Below each of the two alarm fields there will be an information box that explains the alarm behaviour in detail.



### 8.1.2.2. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is active and custom fields have been set for the tanks (see section 13.2.1)*

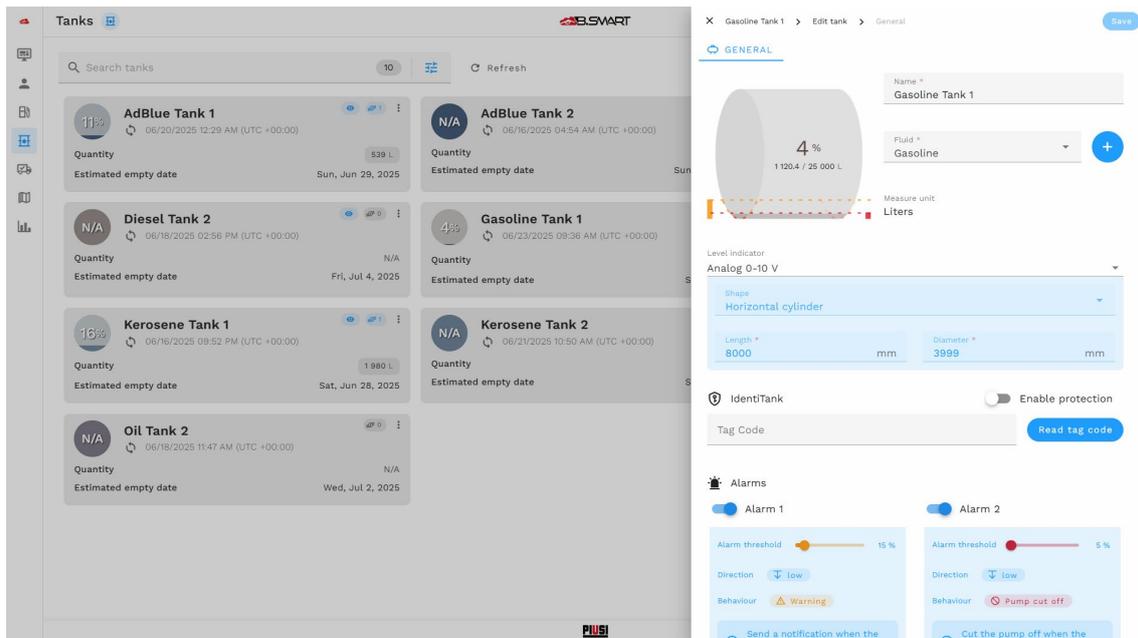
In this section, you can set the values of the custom fields for the tanks.



### 8.1.3. Edit

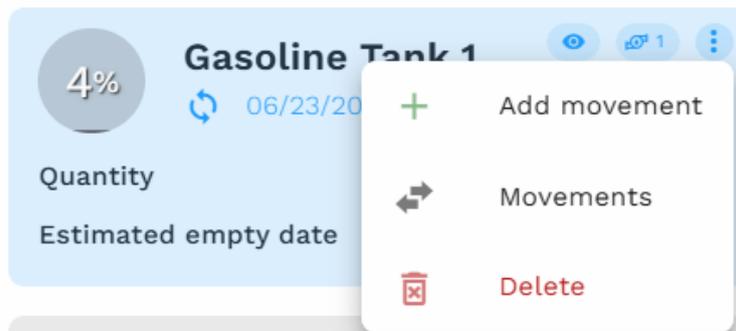
To modify a tank, press on the card. A curtain will open on the right for modifying the data.

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



### 8.1.4. Management operations

Clicking on the three dots at the top right of a tank card will display the actions that can be performed on it.



### 8.1.4.1. Add movement

Pressing "Add movement" will open the menu on the right to add a new movement to the selected tank.

*For a detailed description of the form for adding a movement, refer to chapter 8.5.1.*

### 8.1.4.2. Movements

Pressing "Movements" will redirect you to the Movements page (see chapter 8.5) with a filter already preset on the current tank.

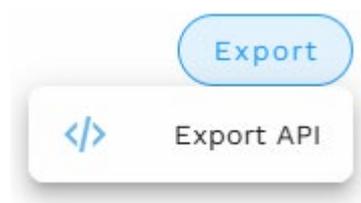
### 8.1.4.3. Deletion

Pressing "Delete" will delete the tank. You will be asked to confirm before deleting.

## 8.1.5. Export

Tanks can only be exported in one mode: API.

Clicking on the "API Export" option will redirect you to the export API documentation for tanks.

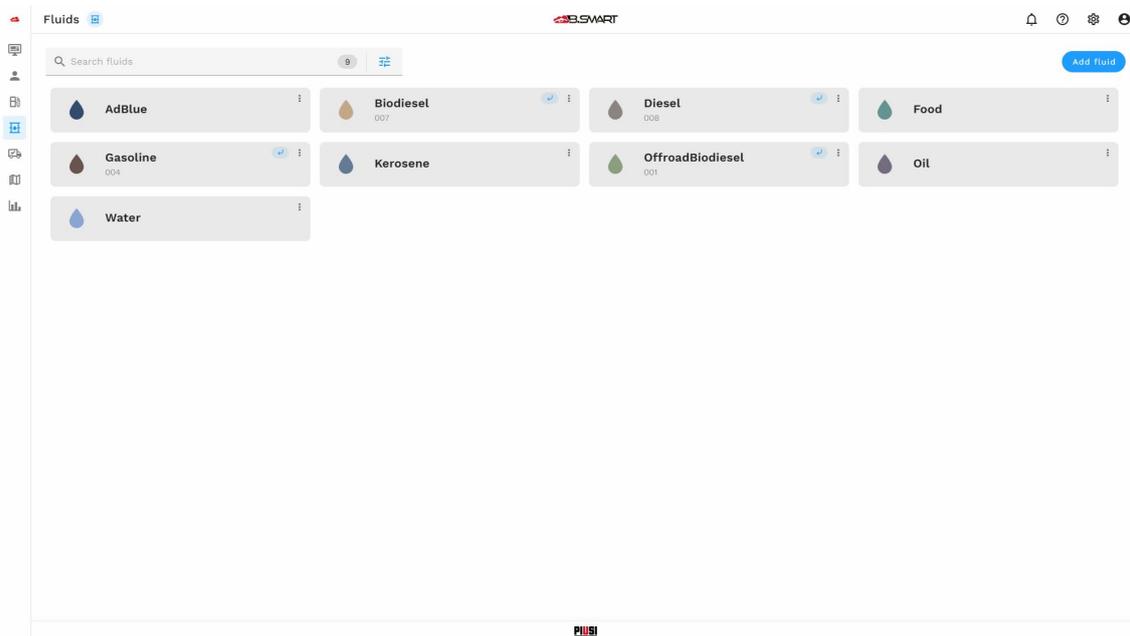


#### Note

*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

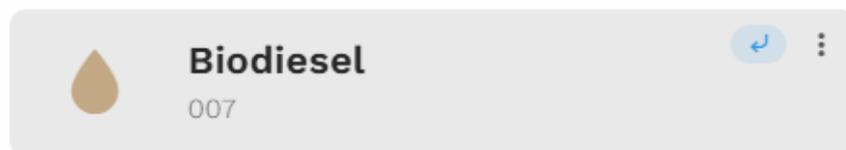
## 8.2. Fluids

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



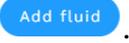
### 8.2.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

### 8.2.2. Add

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

A menu 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 topic.

### 8.2.2.1. GENERAL information section

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

- Name (required)

Unique fluid identifier (maximum 16 characters)

- Code

Code identifying the percentage of biodiesel present in the product. This field is not mandatory and is used exclusively during data export to produce a file that complies with the Spanish tax agency's criteria for obtaining a refund on eligible fuels.

- Eligible product

Indicates whether the product is GASOLEO A (code '000', 0% biodiesel), i.e., refundable by the tax agency. This field is not mandatory and is used exclusively during data export to produce a file that complies with the Spanish tax agency's criteria for obtaining a refund on eligible fuels.

- Colour

Identification colour of the fluid

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

### 8.2.2.2. CUSTOM FIELDS section

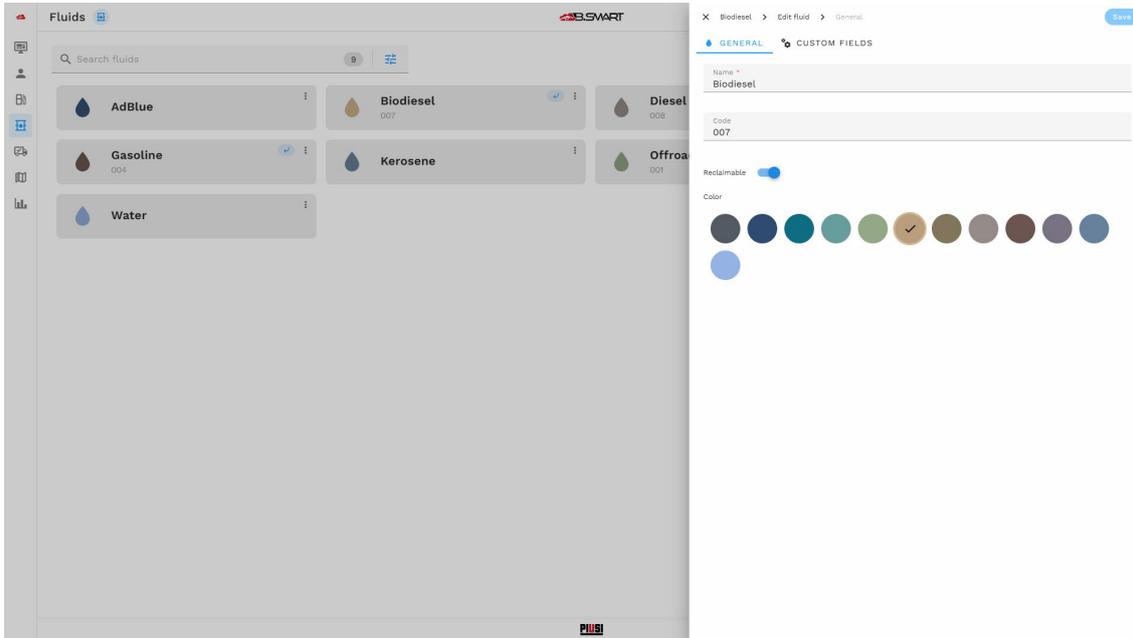
*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set up for fluids (see section 13.2.1).*

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

### 8.2.3. Edit

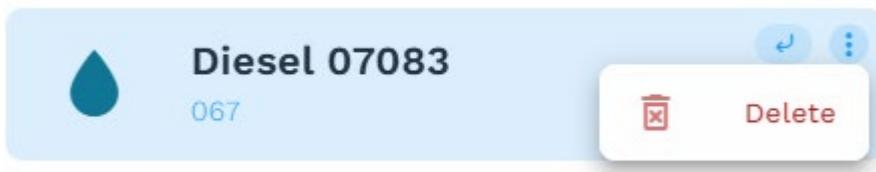
To edit a fluid, press on the card. A menu will open on the right for editing the data.

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



### 8.2.4. Management operations

Clicking on the three dots at the top right of a fluid card will display the actions that can be performed on it.



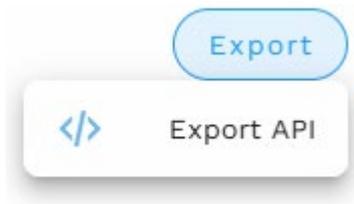
#### 8.2.4.1. Deletion

Pressing "Delete" will delete the fluid. You will be asked to confirm before deleting.

## 8.2.5. Export

Fluids can only be exported in one mode: API.

Clicking on the "API export" option will redirect you to the export API documentation for fluids.



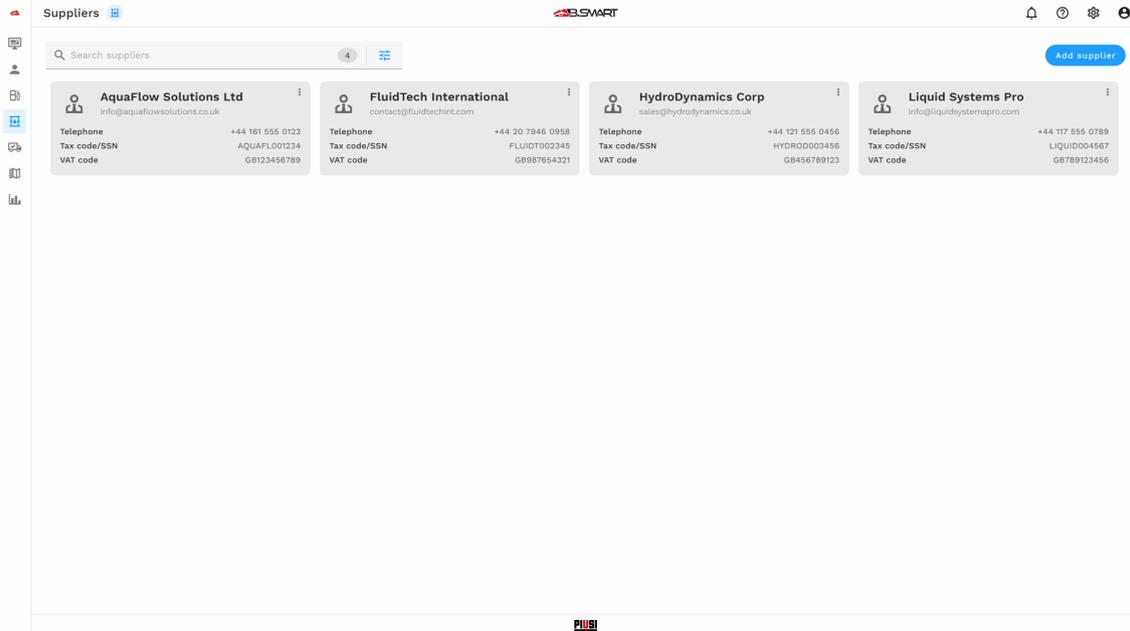
### Note

*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

## 8.3. Suppliers

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

Supplier management is optional and can be disabled in the settings of *Tank Watchdog* (see *chapter 13.4.2*).



### 8.3.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

### 8.3.2. Add

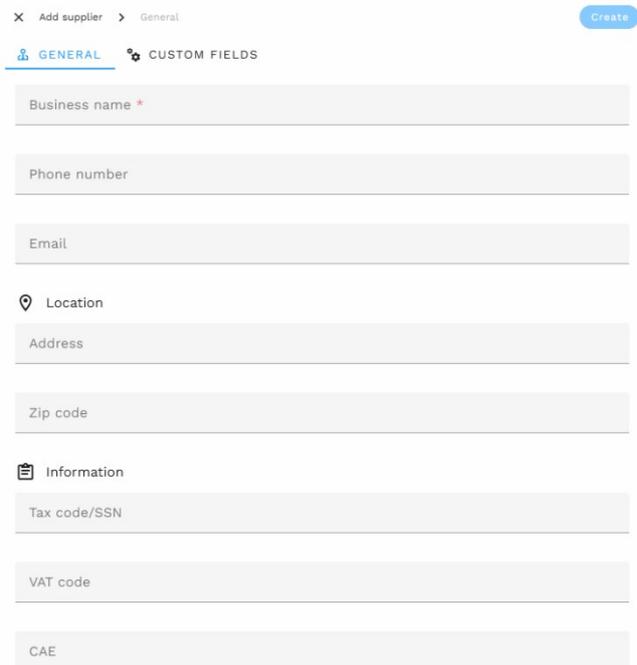
To add a supplier, press the button at the top right .

A menu 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 topic.

#### 8.3.2.1. GENERAL information section

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

- **Company name** (Required)  
Unique supplier identifier
- **Phone**  
Supplier's phone number
- **E-mail**  
Supplier email
- **Address, ZIP code**  
Supplier location
- **Tax ID, VAT number:** Supplier's personal details



The screenshot shows a web interface for adding a supplier. At the top, there is a breadcrumb trail: 'Add supplier > General'. A blue 'Create' button is in the top right corner. Below the breadcrumb, there are two tabs: 'GENERAL' (selected) and 'CUSTOM FIELDS'. The 'GENERAL' section contains several input fields: 'Business name \*', 'Phone number', 'Email', 'Location' (with a location pin icon), 'Address', 'Zip code', 'Information' (with a folder icon), 'Tax code/SSN', 'VAT code', and 'CAE'.

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

#### 8.3.2.2. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set up for fluids (see section 13.2.1).*

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

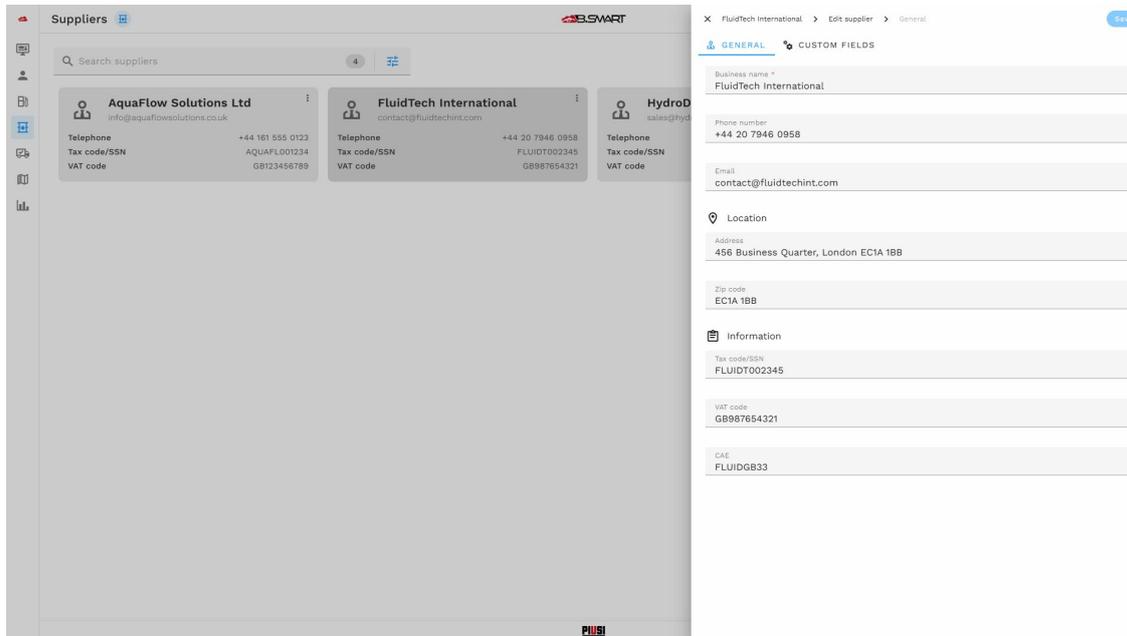


The screenshot shows a web application interface for adding a supplier. At the top right, there is a 'Create' button. Below it, there are two tabs: 'GENERAL' and 'CUSTOM FIELDS'. The 'CUSTOM FIELDS' tab is active and highlighted. Under this tab, there are three input fields: 'Internal ID', 'Location', and 'Owner name'.

### 8.3.3. Edit

To edit a supplier, click on the card. A menu will open on the right to edit the data.

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



### 8.3.4. Management operations

Clicking on the three dots at the top right of a supplier's card will display the actions that can be performed on it.



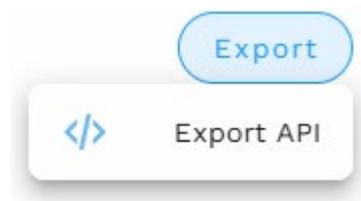
### 8.3.4.1. Deletion

Pressing "Delete" will delete the supplier. You will be asked to confirm before deleting.

### 8.3.5. Export

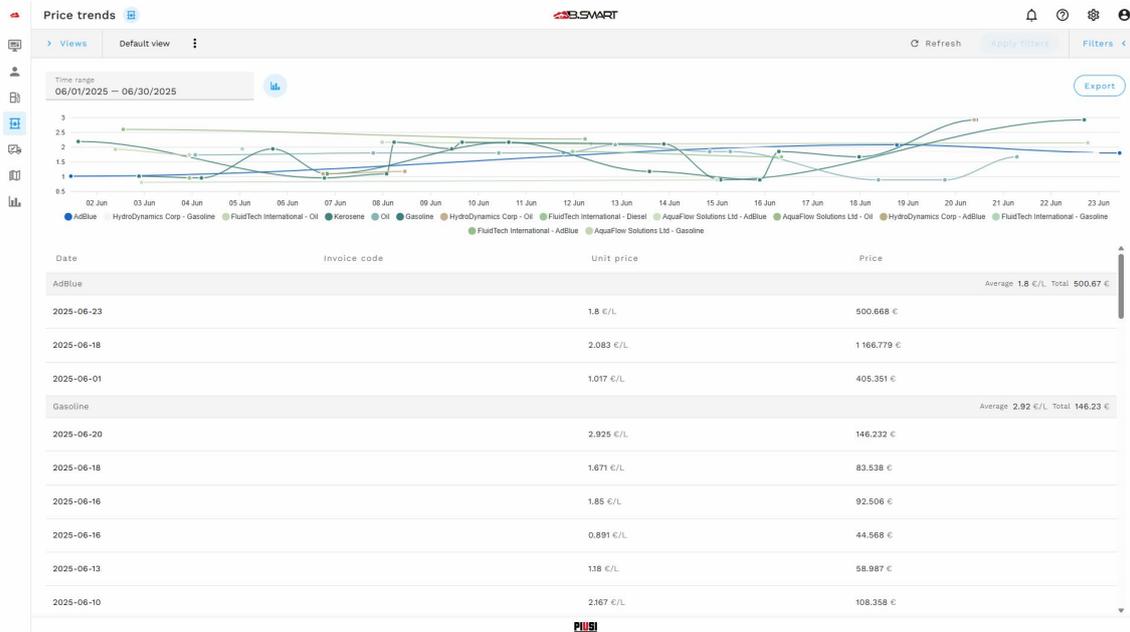
Suppliers can only be exported in one way: API.

Clicking on the "API export" option will redirect you to the export API documentation for suppliers.



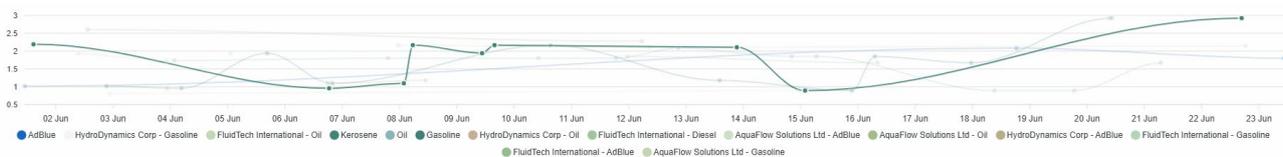
## 8.4. Price trends

From this section, you can view the trend of the unit purchase prices of the various fluids. Unit prices are calculated when new load movements are created and a monetary value is specified.



Press the button  button to show or hide the graph.

To view a single price trend, simply hover your mouse over one of the elements in the legend. This will highlight the selected trend.



### 8.4.1. Edit

To change the value of the various prices, go to the movements section and change the loads that produced the unit prices.

## 8.4.2. Views and filters

On the unit price page, you can set filters on the data and save them in custom views. For a detailed description of how the views work, refer to the chapter 12.1.

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

Time range  
01/05/2025 – 31/05/2025

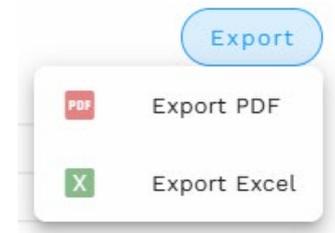
Other filters that can be set on this page are:

- Suppliers
- Fluids



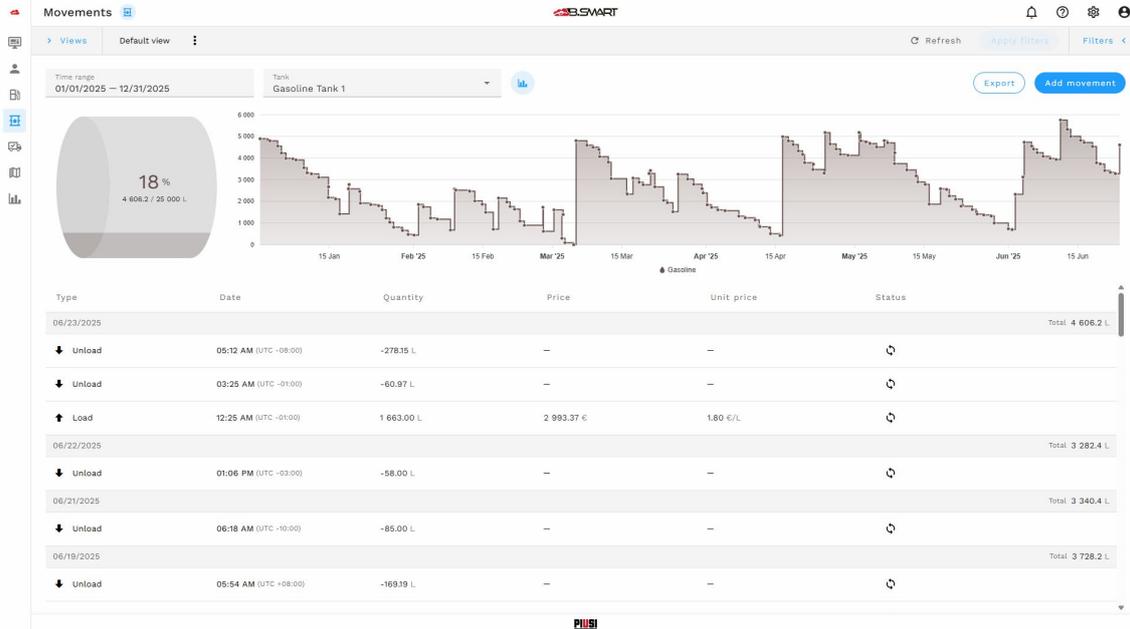
## 8.4.3. Export

To export price trends to a PDF or Excel file, click on the export button and select one of the two options.



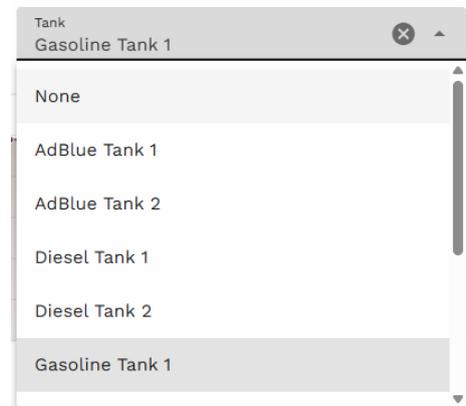
## 8.5. Movements

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



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

Press the  at the top to show or hide the graph.



### 8.5.1. Information

Each row of movements 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 carried out 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 to do so if you want to keep track of the monetary trend related to the fluids (see *chapter 8.4*)

- **Discharge**

Negative fluid movement.

Discharges are created automatically for each dispensing operation performed by a pump connected to the tank.

However, it is possible to perform discharges manually.

- **Adjustment**

Movement to correct the quantity present in the tank at a given moment

- **Calibration**

Movements created when calibrations are performed by a dispenser connected to the tank.

You can ignore the calibration value (if the liquid used to calibrate the pump has been returned to the tank after the operation) or you can decide to track the calibration as if it were a discharge movement (if the liquid used to calibrate the pump has not been returned to the tank after the operation).

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

-  **Waiting**  
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 quantity loaded exceeds the maximum capacity of the tank.

If a movement is in this state, all subsequent movements will not be synchronized. To resolve the issue, you must connect to the device as manager and calibrate the tank level.

The cost displayed for each time group is calculated as the product of the quantity present in the tank at that time and 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€

The following operations can be performed on some transactions:

- Edit
- Deletion

Simply move the cursor over the line to see the available actions.

↑ Load	18:26 (UTC +01:00)	729.11 L	543.00 €	0.74 €	Vehicula			Edit
↑ Load	18:21 (UTC +01:00)	259.94 L	321.00 €	1.23 €	Efficitur			

### 8.5.1. Add

To add a transaction, press the " " button.

From this screen, you can define the following properties:

- **Transaction type** (Required)  
Load or unload
- **Supplier** (in case of loading movement)  
*NOTE: this field is only visible if supplier management has been enabled in the Tank Watchdog settings (see chapter 13.4.2).*  
You can select a previously created supplier or create a new one directly by clicking on the button
- **Quantity** (Required)

Quantity loaded or unloaded.

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

*NOTE: this field is only visible if price management has been enabled in the Tank Watchdog settings (see chapter 13.4.2).*

Purchase price for the quantity entered.

- **Invoice**

Field for entering the invoice relating to the load, or any notes.

- **Date**

Date and time when the fluid was moved.

If the date of a movement made on a virtual tank is changed, the following rules apply:

- If a movement precedes a level adjustment movement, the date entered must be earlier than that of the adjustment.
- If a movement is subsequent to a level adjustment movement, the date that can be entered must be later than that of the adjustment;
- If there is no level adjustment movement, you cannot enter a future date.

### 8.5.2. Edit

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

You can make changes and save the movement.

N.B.: The quantity can only be modified if:

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

### 8.5.3. Deletion

A previously entered movement can only be deleted if:

- there is a level adjustment movement with a date later than that of 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.



### 8.5.4. 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 the views work, refer to the chapter 12.1.

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



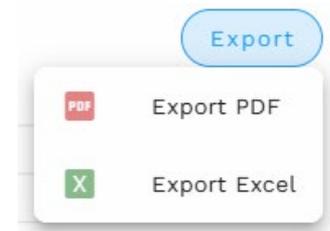
Other filters that can be set on this page are:

- Suppliers
- Movement type



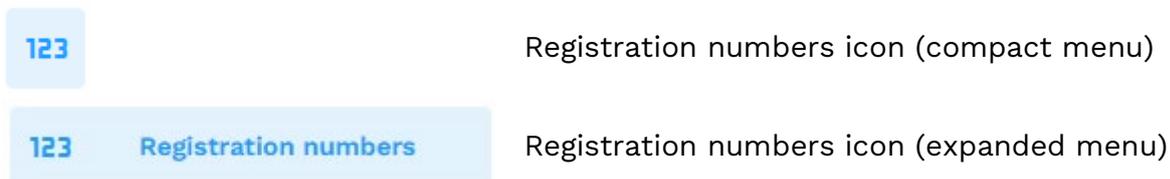
### 8.5.5. Export

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



## 9. REGISTRATION NUMBERS

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

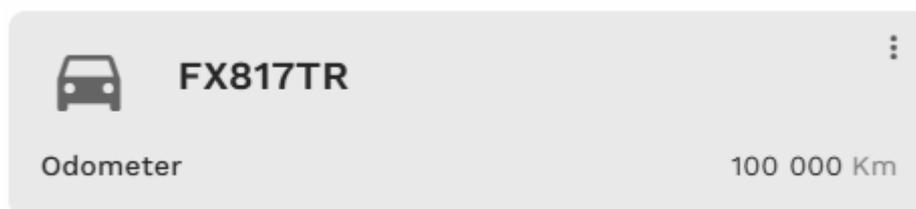


Registration numbers can represent work order codes to be executed or the license plate of a vehicle to be refuelled. If you want to use registration numbers as vehicle license plates, you can also keep track of the respective odometers.

There are no limits to the number of registration numbers that can be entered into the system.

### 9.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

#### **Attention!**

After making the first dispense 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 wish to use it.
- Modify the odometer and set a value lower than the one previously saved.

## 9.2. Add

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

[Add registration number](#)

A menu 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) according to topic.

### 9.2.1. GENERAL information section

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

- **Registration number** (Required)  
Unique identification code for the item.

- **Odometer type**

If the registration number represents a vehicle, you can define the unit of measurement for the odometer, choosing from

- Kilometers
- Miles
- Hours

- **Odometer**

You can only specify the vehicle's odometer if the odometer type is not "None."

- **Description** (Optional)  
Text field for saving additional information.

### 9.2.2. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set up for registration numbers (see section 13.2.1).*

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

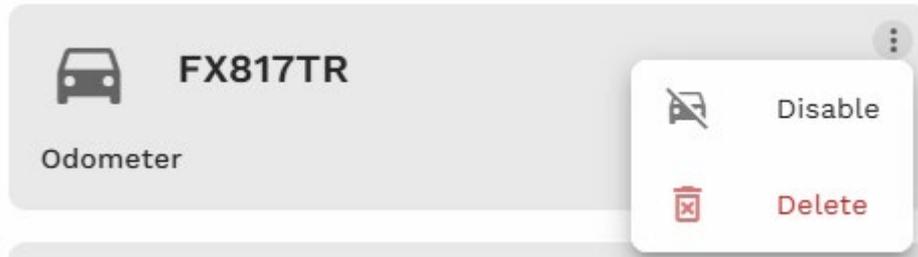
### 9.3. Edit

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

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

## 9.4. Management operations

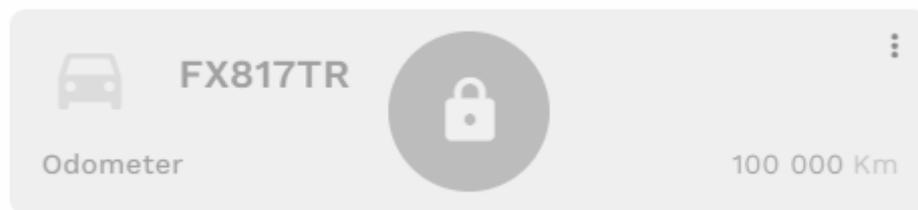
Clicking on the three dots at the top right of a registration number card will display the actions that can be performed on it.



### 9.4.1. Disabling

Pressing "Disable" (or "Enable") will disable (or enable) the registration number. You will be asked to confirm before disabling (or enabling) a registration number.

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



To re-enable the registration number, press the three dots in the top right corner and select the "Enable" option. You will be asked to confirm before enabling a driver.

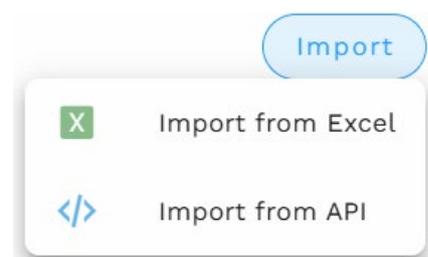
### 9.4.2. Deletion

Pressing "Delete" will delete the registration number. You will be asked to confirm before deleting.

## 9.5. Import

There are two ways to import registration numbers:

- Import via Excel
- Import via API



### 9.5.1. Excel import

Importing registration numbers from Excel follows the same process as importing drivers. See the chapter 6.5.1 for more information.

### 9.5.2. API import

*NOTE: The "Import via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

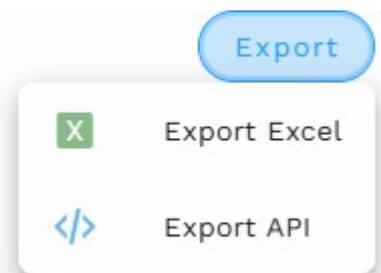
You can import registration numbers via API. By clicking on the "Import via API" option, you will be redirected to the Import/Export API documentation page in the "Registration numbers" section.

## 9.6. Export

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

Clicking on the "Excel export" option will generate an Excel file with the data currently displayed.

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



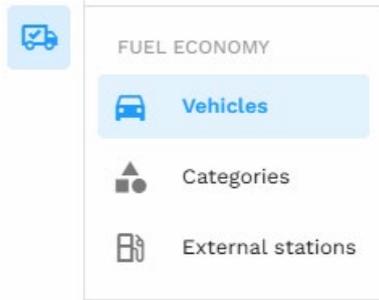
#### Note

*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

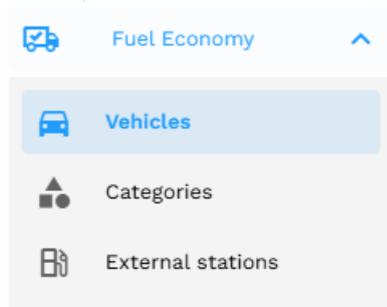
## 10. FUEL ECONOMY

*NOTE: this section is only available 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 9. From this section, you can manage your fleet of vehicles 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.

### 10.1. Vehicles

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

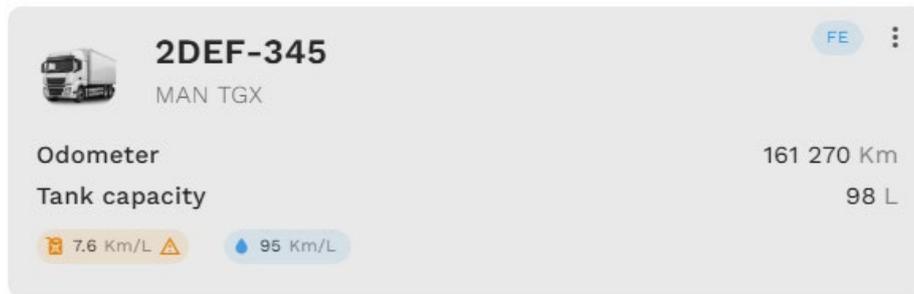
In this section, you can manage information about vehicles, their tanks, and their consumption.

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

There are no restrictions on the number of vehicles that can be entered in the system.

### 10.1.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.



#### Attention!

- 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 refuelled at least once at the facility. In this case, it is recommended to disable it if you no longer wish to use it.

### 10.1.2. Add

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

A menu 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) according to topic.

### 10.1.2.1. GENERAL information section

In this section, you can set the general information for the vehicle.

- **Category**

Each vehicle must be grouped under a category to which it belongs so that it can be easily found within the fleet. See chapter 10.3 for information on 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.

- **Number Plate**

- **QR code**

Unique alphanumeric string identifying the vehicle (by default, the field is pre-filled with a string automatically

generated by the system). Pressing the  button, a printable label is generated with the string entered translated into a scannable QR code. The label can be scanned by a driver using the phone app to select the vehicle more quickly when creating a new refuelling.

- **Odometer type**

Unit of measurement in which the vehicle's odometer must be recorded. If you select "None," the vehicle's odometer values will not be tracked over time.

- **Odometer**

It is mandatory to provide the current odometer value if you want to activate the advanced "Fuel Economy" management on the vehicle. This will prompt you to enter the latest vehicle odometer value each time you refuel. The information will then be used to calculate the vehicle's fuel consumption.

*Warning: Changing the unit of measurement of a vehicle's odometer will result in the loss of all consumption reports calculated up to that point.*

- **Enable TAG-protected dispensing**

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

- **TAG code**

Enter the numeric string of the RFID TAG installed on the vehicle. This field allows the system to recognise the vehicle by reading the TAG with a special nozzle during dispensing. This field is mandatory only if **TAG-protected dispensing** 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, you must install the *PIUSI IBUTTON READER* tool and, once installed, press the button ).

You can read the TAG and associate it directly with the smartphone app (see the TAG section of the smartphone app manual).

- **Vehicle make**
- **Vehicle model**
- **Description** (optional)  
Free text field for storing additional information about the vehicle.

### 10.1.2.2. TANKS section

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

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

- **Enable FUEL ECONOMY**

Enables fuel consumption calculation for the vehicle. In this case, you will need to complete the vehicle details by entering information about the vehicle's fuel tank.

- **Capacity**

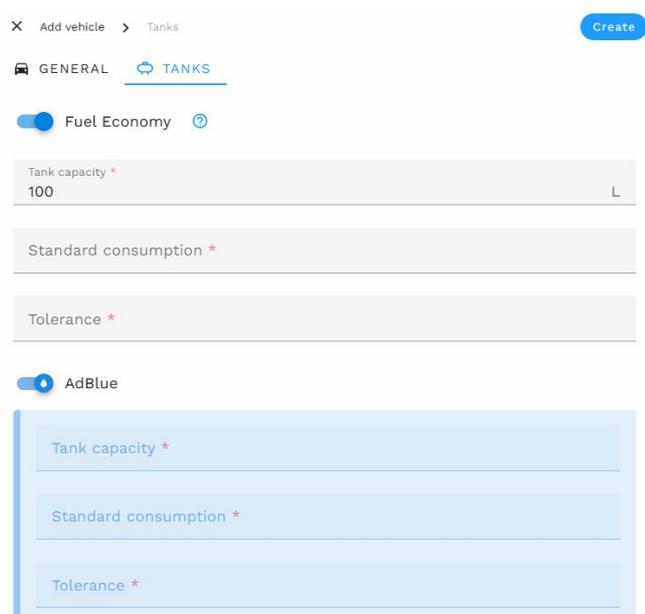
Capacity of the vehicle's main tank. This value limits the maximum amount of fuel that can be dispensed in a single filling from any pump on the system.

- **Standard consumption**

Theoretical average fuel consumption of the vehicle.

- **Tolerance**

Percentage value that is an approximation of the nominal consumption value and within which consumption is considered normal. The percentage tolerance on consumption is used to track vehicles that consume abnormally.



- **Enable AdBlue**

Indicate whether the vehicle contains an AdBlue tank and specify its capacity and average consumption. It is also necessary to indicate a consumption tolerance, i.e., a percentage that is an approximation of the nominal consumption value and within which consumption is considered normal. Both the calculation and evaluation of AdBlue consumption status are the same as those applied to consumption relating to the main tank.

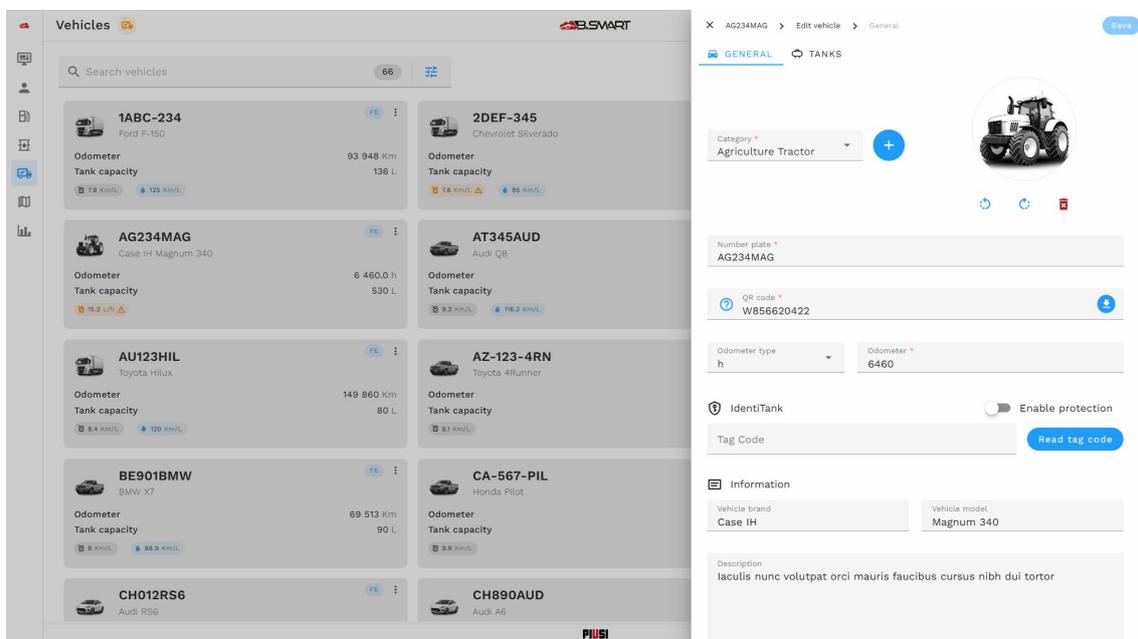
The fields below the AdBlue enable button are also "Capacity," "Standard consumption," and "Tolerance," but these are related to AdBlue.

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

### 10.1.3. Edit

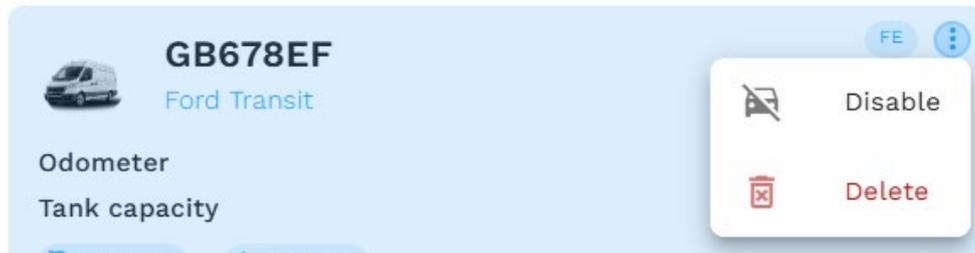
To modify a vehicle, press on the card. A menu will open on the right for modifying the data.

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



### 10.1.4. Management operations

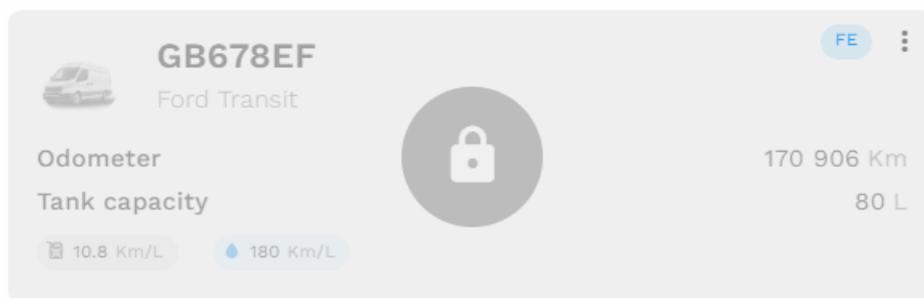
Clicking on the three dots at the top right of a vehicle card will display the actions that can be performed on it.



#### 10.1.4.1. Disabling

Pressing "Disable" (or "Enable") will disable (or enable) the vehicle. You will be asked to confirm before disabling (or enabling) a registration number.

Pressing "Disable" will disable the vehicle. A disabled vehicle will be displayed differently, with a padlock and partial transparency.



To re-enable the vehicle, press the three dots in the top right corner and select the "Enable" option. You will be asked to confirm before enabling a driver.

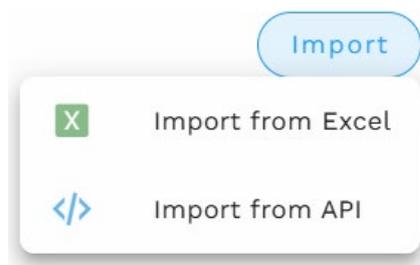
#### 10.1.4.2. Deletion

Pressing "Delete" will delete the vehicle. You will be asked to confirm before deleting.

### 10.1.5. Import

There are two ways to import vehicles:

- Import via Excel
- Import via API



### 10.1.6. Excel import

Importing vehicles from Excel follows the same process as importing drivers. See *the chapter 6.5.1 for more information.*

### 10.1.7. API import

*NOTE: The "Import via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

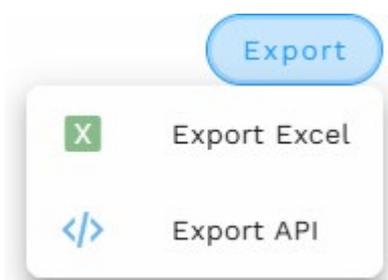
You can import vehicles via API. Clicking on the "Import via API" option will redirect you to the Import/Export API documentation page in the "Vehicles" section.

## 10.2. Export

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

Clicking on the "Excel export" option will generate an Excel file with the data currently displayed.

By clicking on 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 activating the "Enable export API" setting. See chapter 13.2.2.*

## 10.3. Vehicle categories

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

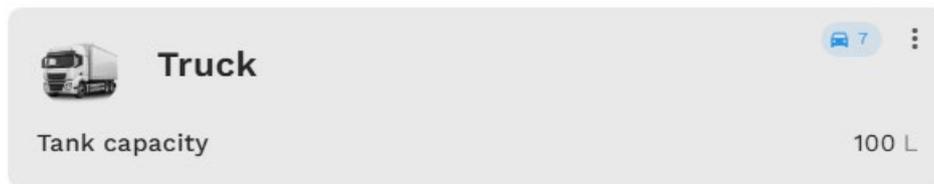
Categories are used to organize vehicles into groups. In this section, you can manage the vehicle category database.

Once the categories have been set up, you can filter vehicles by category and enable drivers to deliver to specific categories.

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

### 10.3.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

### 10.3.2. Add

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

A menu 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) according to topic.

### 10.3.2.1. GENERAL information section

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

- **Category name**

- **Tank capacity**

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

- **Image**

The category image

### 10.3.3. Edit

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

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

### 10.3.4. Management operations

Clicking on the three dots at the top right of a category card will display the actions that can be performed on it.



#### 10.3.4.1. Deletion

Pressing "Delete" will delete the driver. You will be asked to confirm before deleting.

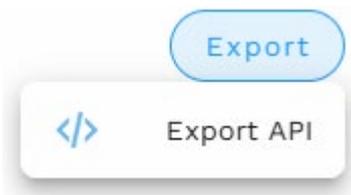
#### Attention!

You cannot delete a category if it is assigned to at least one vehicle in the system

### 10.3.5. Export

You can export categories in one mode only: API.

Clicking on the "API Export" option will redirect you to the export API documentation for categories.



## 10.4. External stations

*NOTE: this section is only visible if the Fuel Economy add-on is enabled and if the "Enable external stations" option is enabled in the "Settings/Fuel Economy" section (see chapter 13.4.1).*

In this section, you can enter and manage the details of the service stations where vehicles go to refuel outside the facility.

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

For each service station, the following is calculated:

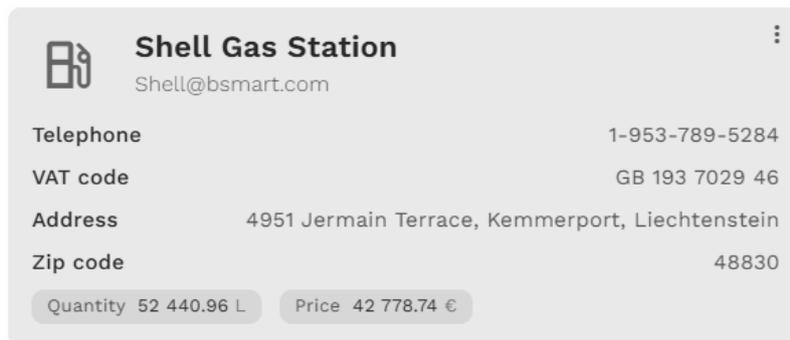
- The amount of fuel that the facility's drivers have dispensed from the station.
- The total cost of all refuelling carried out by the service station.

The screenshot displays the 'External stations' management page in the B.SMART application. The page features a search bar at the top, a list of gas stations, and a sidebar with navigation icons. Each station card includes the following information:

Station Name	Contact Email	Telephone	VAT code	Address	Zip code	Quantity (L)	Price (€)
BP Gas Station	BP@bsmart.com	205.271.9434 x9751	GB 593 8195 89	14174 Keenan Mountain, Rachaelland, Senegal	78924	0 L	0 €
Chevron Gas Station	Chevron@bsmart.com	556-675-8531	GB 867 8514 72	5288 Bartholome Ferry, East Cathy, Ireland	54126-7083	0 L	0 €
ExxonMobil Gas Station	ExxonMobil@bsmart.com	(207) 596-9338 x92154	GB 335 8285 37	61822 Melany Bypass, Lake Enos, Antigua and Barbud	53107-7555	0 L	0 €
Marathon Gas Station	Marathon@bsmart.com	399-491-9861 x15758	GB 362 2476 57	7509 Armand Mission, East Catalina, Liechtenstein	54120	0 L	0 €
Mobil Gas Station	Mobil@bsmart.com	1-816-276-9357 x08590	GB 041 1484 85	8297 Swift Mountains, Lake Roma, French Southern T	88241	0 L	0 €
Shell Gas Station	Shell@bsmart.com	788.530.0354 x7643	GB 279 8294 89	66287 Aubrey Forest, New Lornchester, Brunel Daru	81981-3791	51 664.59 L	41 932.61 €
Sunoco Gas Station	Sunoco@bsmart.com	611.218.8031	GB 998 7579 14	967 Heidenreich Harbor, West Lelafurt, Seychelles	26143	0 L	0 €
Texaco Gas Station	Texaco@bsmart.com	264-436-6801 x717	GB 320 3026 26	333 Omari Junction, New Jenningside, Venezuela	07042-4293	0 L	0 €
Total Gas Station	Total@bsmart.com	689.370.5377 x5065	GB 672 8195 04	263 Funk Creek, Port Lorenzoside, South Georgia an	83800-3128	0 L	0 €
Valero Gas Station	Valero@bsmart.com						

### 10.4.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

### 10.4.2. Add

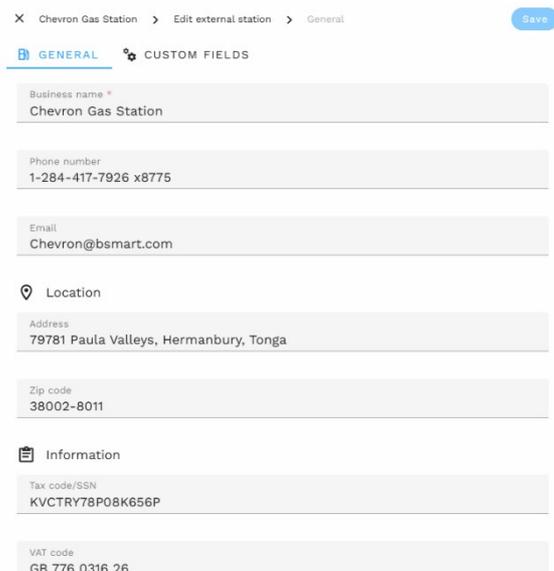
To add an external station, press the button at the top right .

A menu 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) according to topic.

#### 10.4.2.1. GENERAL information section

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

- **Company name**  
Unique identifier of the service station
- **Address, ZIP code**  
Location of the service station
- **Phone number, email**  
Service station contacts
- **Tax ID number, VAT number**  
Service station business details



### 10.4.2.2. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set for external stations (see section ) 13.2.1*

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

X Add external station > Custom fields Create

GENERAL CUSTOM FIELDS

Internal ID  
AAX-00001

Location  
London, UK

Owner name  
Frank Johnson

### 10.4.3. Edit

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

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

External stations BSMART

Search external stations 10

BP Gas Station BP@bsmart.com  
Telephone 1-489-856-5459 x287  
VAT code GB 441 0888 56  
Address 08939 Rebeca Station, Richardland, Romania  
Zip code 01618-5217  
Quantity 0 L Price 0 €

Chevron Gas Station Chevron@bsmart.com  
Telephone 1-284-41  
VAT code  
Address 79781 Paula Valleys, Herme  
Zip code  
Quantity 0 L Price 0 €

Marathon Gas Station Marathon@bsmart.com  
Telephone (279) 484-8085 x231  
VAT code GB 571 8425 27  
Address 7479 Jerod Crossroad, Orinville, Turkey  
Zip code 43120  
Quantity 0 L Price 0 €

Mobil Gas Station Mobil@bsmart.com  
Telephone 1-1  
VAT code  
Address 1580 Schumm Plains, North Domenicb  
Zip code  
Quantity 0 L Price 0 €

Sunoco Gas Station Sunoco@bsmart.com  
Telephone 656-560-2204 x569  
VAT code GB 966 3639 93  
Address 6059 Erika Crossroad, Walkerview, Congo  
Zip code 90755  
Quantity 0 L Price 0 €

Texaco Gas Station Texaco@bsmart.com  
Telephone 203.53  
VAT code  
Address 89901 Rutherford Fields, South Trema  
Zip code  
Quantity 0 L Price 0 €

Valero Gas Station Valero@bsmart.com

X Shell Gas Station > Edit external station > General Save

GENERAL CUSTOM FIELDS

Business name \*  
Shell Gas Station

Phone number  
1-953-789-5284

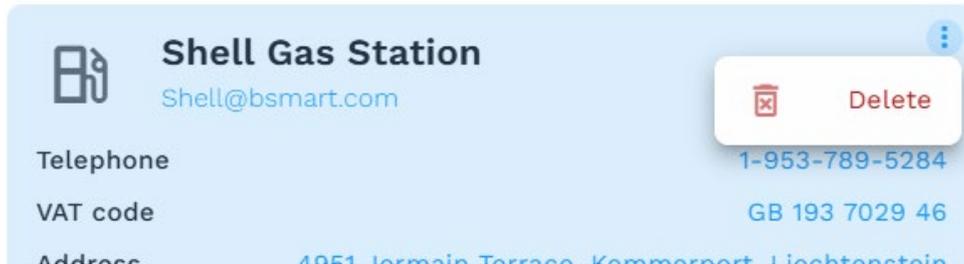
Email  
Shell@bsmart.com

Location  
Address  
4951 Jermain Terrace, Kemmerport, Liechtenstein  
Zip code  
48830

Information  
Tax code/SSN  
KVCTRY78P08K656P  
VAT code  
GB 193 7029 46

### 10.4.4. Management operations

Clicking on the three dots at the top right of an external station card will display the actions that can be performed on it.



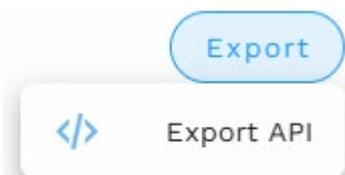
#### 10.4.4.1. Deletion

Pressing "Delete" will delete the external station. You will be asked to confirm before deleting.

### 10.4.5. Export

External stations can only be exported in one mode: API.

Clicking on the "API export" option will redirect you to the export API documentation for external stations.



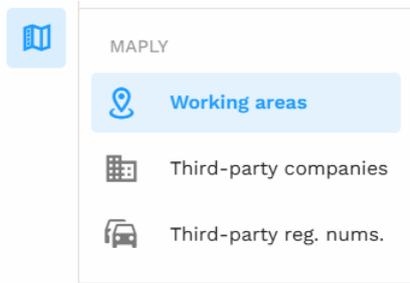
#### Note

*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

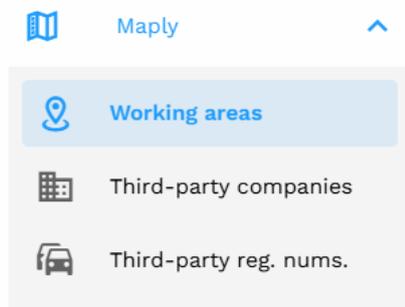
## 11. MAPLY

*NOTE: this 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 the areas of operation, third-party companies, and third-party registration numbers.



Maply icon (compact menu), with submenu icons.

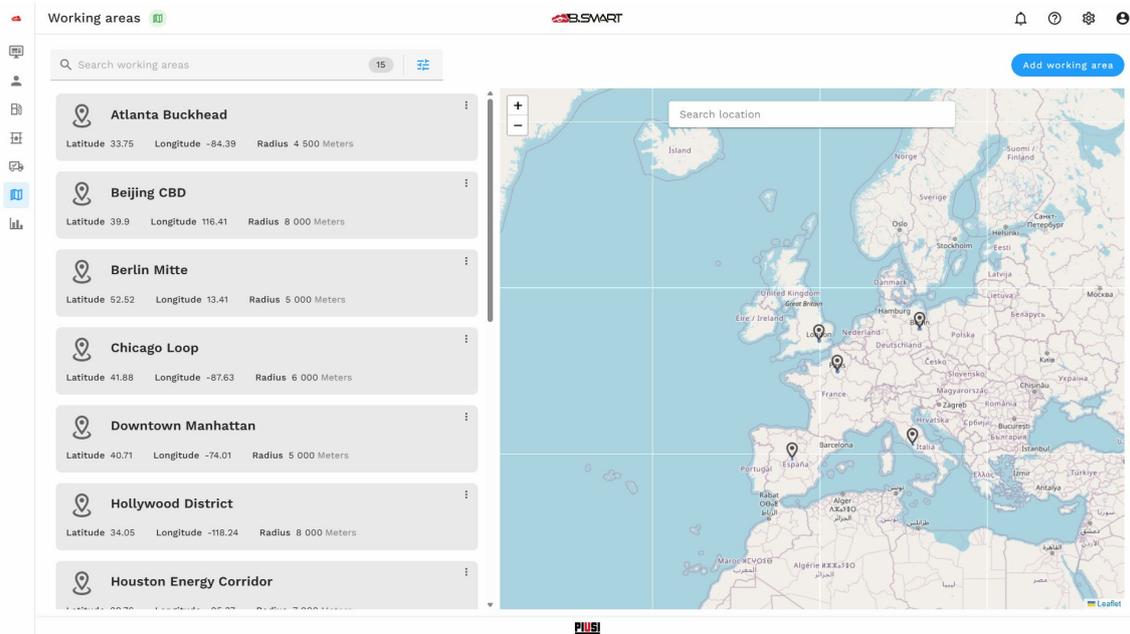


Maply icon (expanded menu), with submenu items.

## 11.1. Operating areas

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

- Delimit an area within which delivery is permitted;
- Grouping deliveries made in the same geographical area.



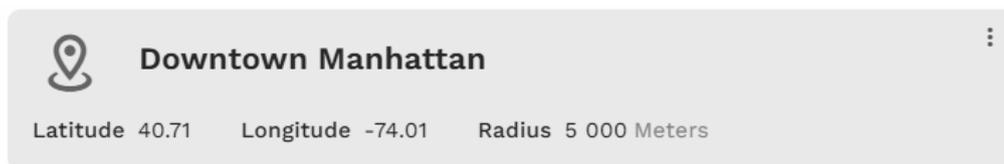
By moving the cursor over the operating areas shown in the list, the operating area where the mouse pointer is positioned will be highlighted on the map.

Moving the cursor over the operability areas shown on the map will open a box with more information about the operability area: name and radius.



### 11.1.1. Information

The main details of an operability area can be viewed directly from the card in the list.



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

## 11.1.2. Add

To add an operability area, press the button at the top right

A drop-down menu will open on the right with all the fields to be filled in to create a new operability area. The fields are grouped and divided into tabs (or sections) according to topic.

### 11.1.2.1. GENERAL information section

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

- **Name** (required)  
Name that uniquely identifies the operability area.
- **Description** (optional)
- **Radius** (required)  
Radius of the circumference describing 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 centre of the area.



#### Attention!

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

### 11.1.2.2. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set for the operating areas (see section 13.2.1)*

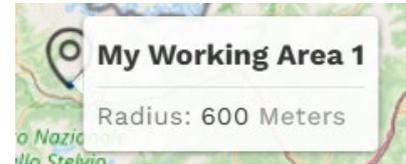
In this section, you can set the values of the custom fields for external stations.

The screenshot shows the 'Add working area' screen with the 'CUSTOM FIELDS' tab selected. It features three input fields: 'Internal ID', 'Address', and 'Metadata'. A 'Create' button is visible in the top right corner.

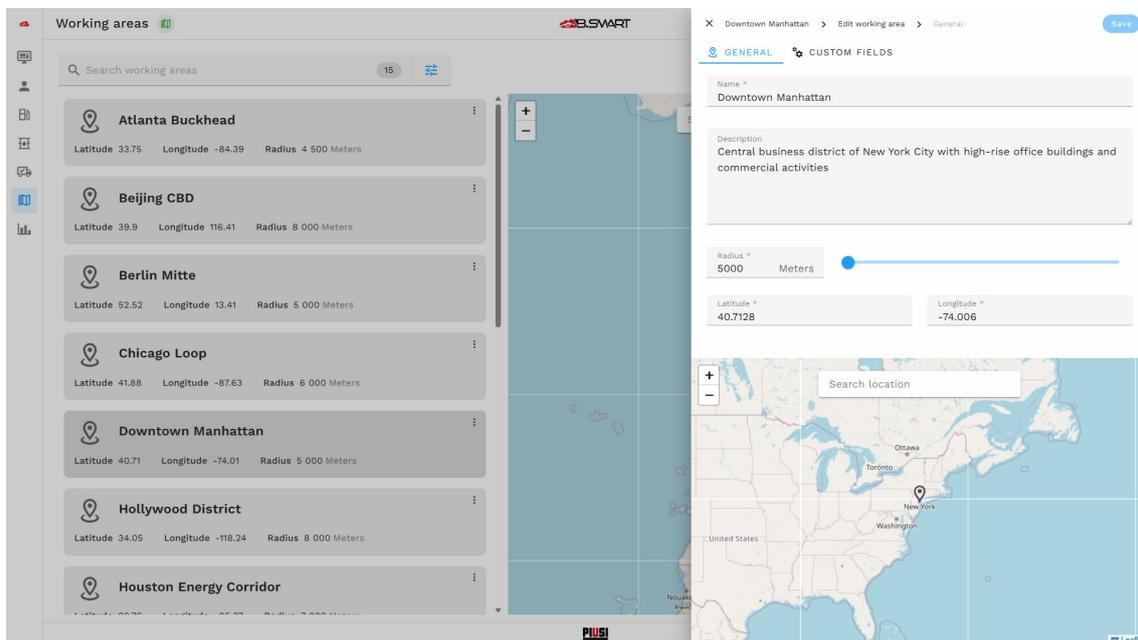
### 11.1.3. Edit

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

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



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



### 11.1.4. Management operations

Clicking on the three dots at the top right of an operability area card will display the actions that can be performed on it.



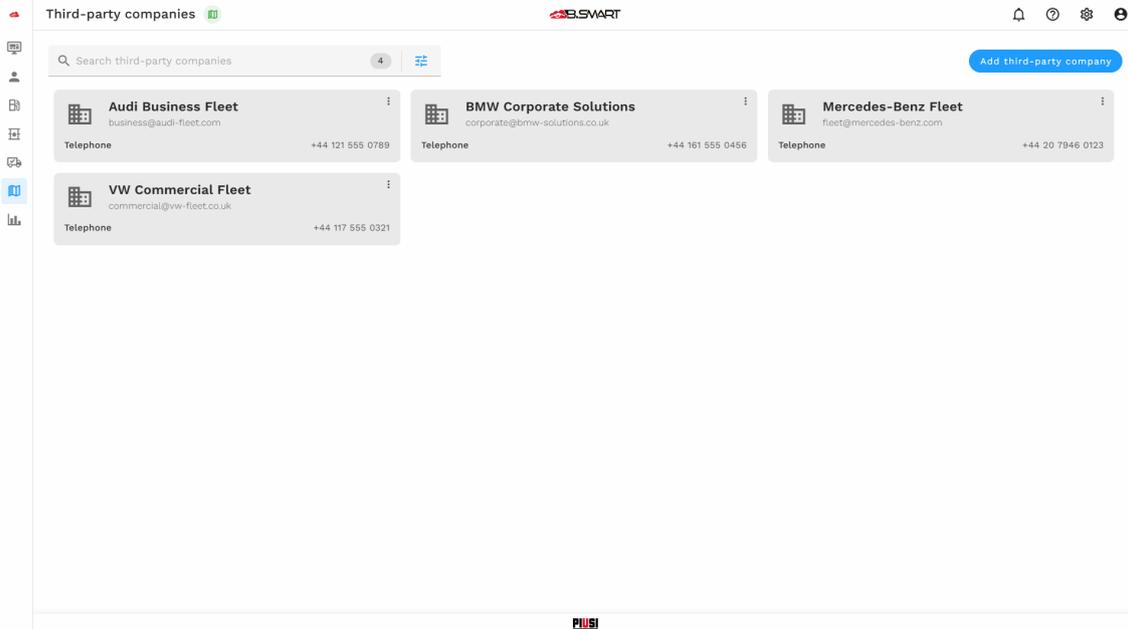
#### 11.1.4.1. Deletion

Pressing "Delete" will delete the operational area. You will be asked to confirm before deleting.

## 11.2. Third-party companies

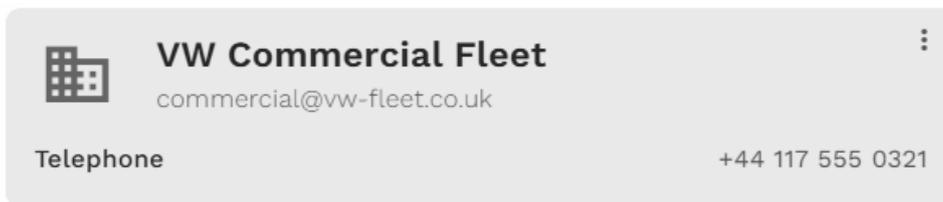
*NOTE: this section is only available after activating the dedicated "Maply" add-on and if the "Enable third-party refuelling" option is enabled in the Maply add-on configuration.*

In this section, you can manage the master data of third-party companies.



### 11.2.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

## 11.2.2. Add

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

A drop-down menu 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) according to topic.

### 11.2.2.1. GENERAL information section

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

- **Company name** (required)

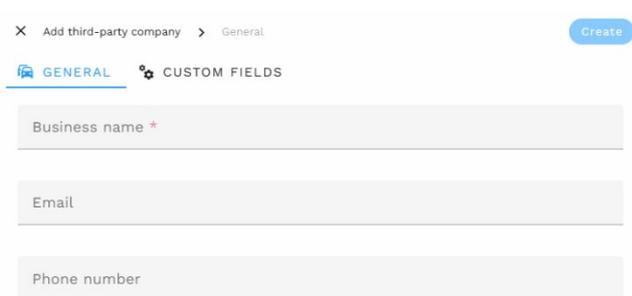
Name that uniquely identifies the company

- **Email** (optional)

The address of the third-party company. If specified, this will be the email address to which the driver can send details of the delivery just made on a third-party company registration number.

*NOTE: This email sending feature is only available if the "Enable emails to third-party companies" option is enabled in the "Settings/Add-ons/Maply" section.*

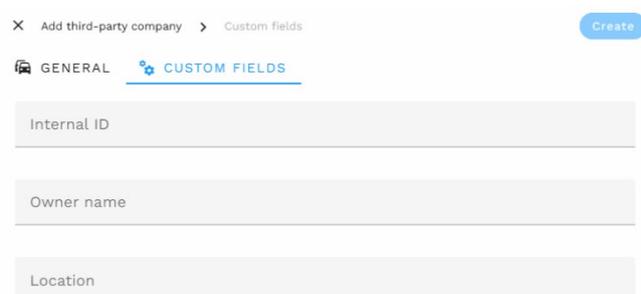
- **Phone** (optional)



### 11.2.2.2. CUSTOM FIELDS section

*NOTE: This section is only available if the "Enable custom fields" setting is enabled and custom fields have been set up for third-party companies (see section 13.2.1).*

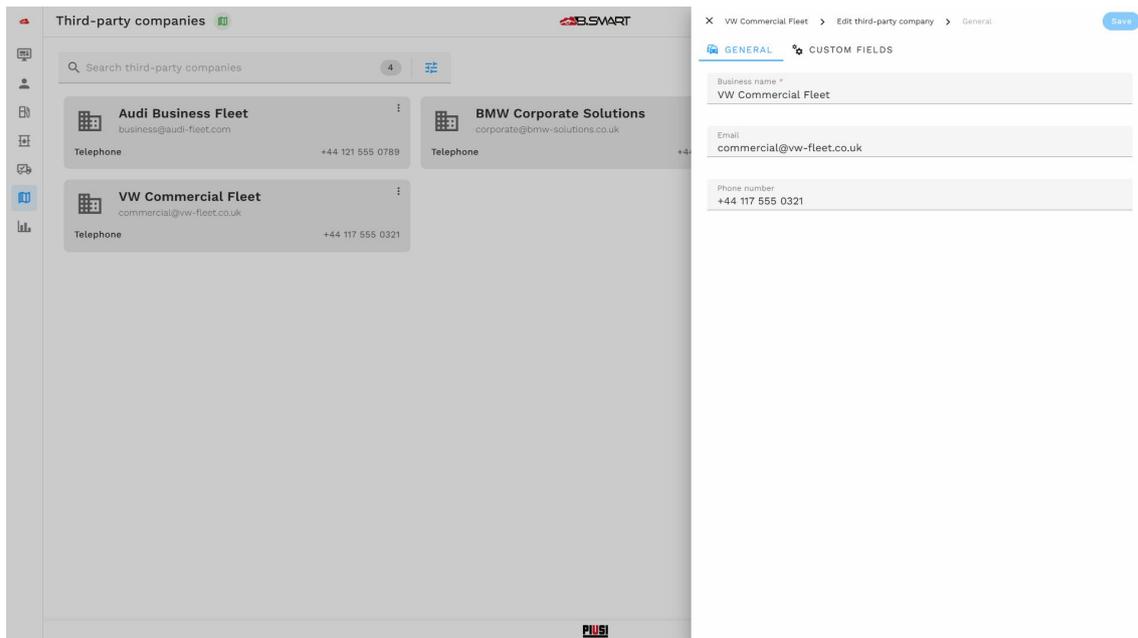
In this section, you can set the values of the custom fields for third-party companies.



### 11.2.3. Edit

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

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



### 11.2.4. Management operations

Clicking on the three dots at the top right of a third-party company card will display the actions that can be performed on it.



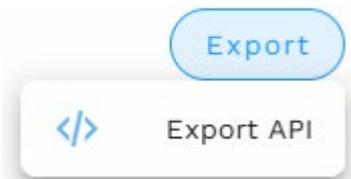
#### 11.2.4.1. Deletion

Pressing "Delete" will delete the third-party company. You will be asked to confirm before deleting.

## 11.2.5. Export

Third-party companies can only be exported in one way: API.

Clicking on the "API Export" option will redirect you to the export API documentation for third-party companies.



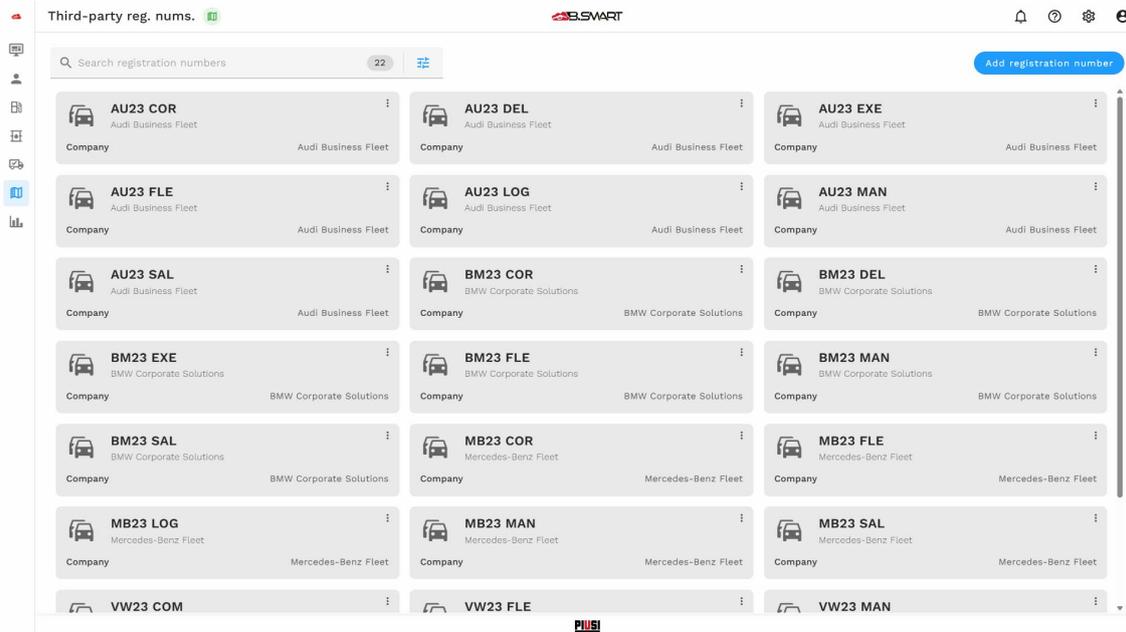
### Note

*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

## 11.3. Third-party registration numbers

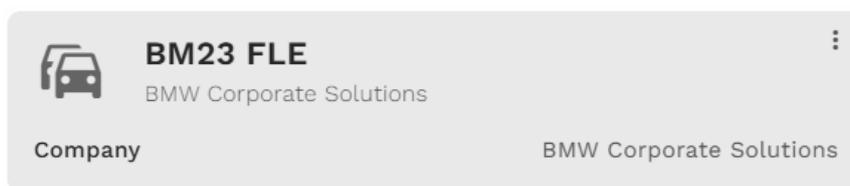
*NOTE: this section is only available after activating the dedicated "Maply" add-on and if the "Enable third-party refuelling" option is enabled in the Maply add-on configuration.*

In this section, you can manage the master data of third-party registration numbers.



### 11.3.1. Information

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



To view further details, simply press on the card: a window will open with detailed information where you can view and edit the data.

If the icon  is present in the top right corner, replenishment to the third-party registration number is protected by RFID TAG.

## 11.3.2. Add

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

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

### Please note

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

### 11.3.2.1. GENERAL information section

In this section, you can manage the master data of third-party registration numbers:

- **Registration number** (Required)

A unique name that identifies the registration number.

- **Third-party company** (Required)

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 button, a printable label is generated with the string entered translated into a scannable QR code. The label can be scanned by a driver using the phone app to quickly select the registration number when creating a new refuelling.

- **Description** (Optional)

Text field for saving 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 a special nozzle during dispensing.

Warning: this field is mandatory only if TAG-protected dispensing 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, you must install the *PIUSI IBUTTON READER* tool and, once installed, press the button ).

You can read the TAG and associate it directly with the smartphone app (see the TAG section of the smartphone app manual).

- **Enable TAG-protected dispensing**

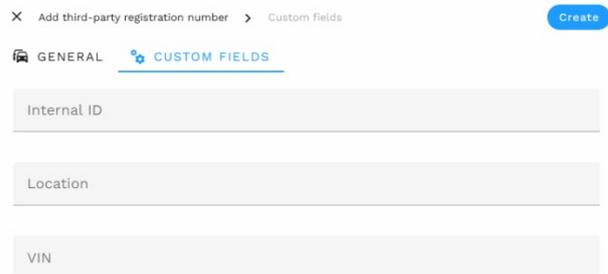
By enabling this function, refuelling to the third registration number in question can only be carried out if the RFID TAG is detected for the entire duration of the refuelling operation.

If the TAG associated with the third-party registration number is not read, dispensing will be interrupted.

### 11.3.2.2. CUSTOM FIELDS section

*NOTE: this section is only available if the "Enable custom fields" setting is enabled and custom fields have been set up for third-party registration numbers (see section 13.2.1).*

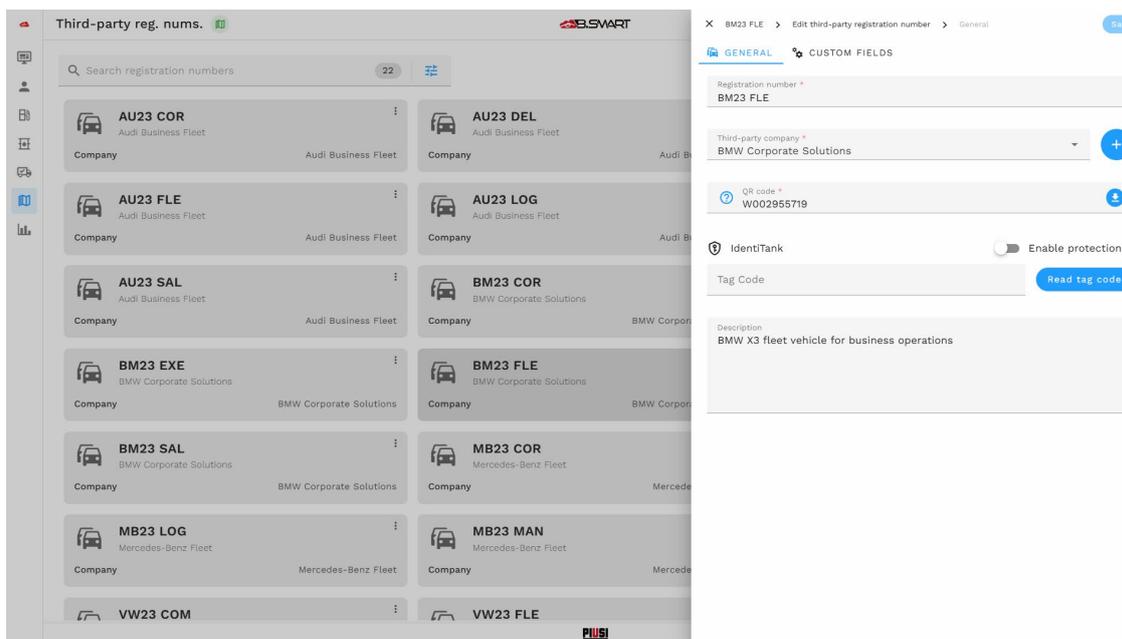
In this section, you can set the values of the custom fields for third-party registration numbers.



### 11.3.3. Edit

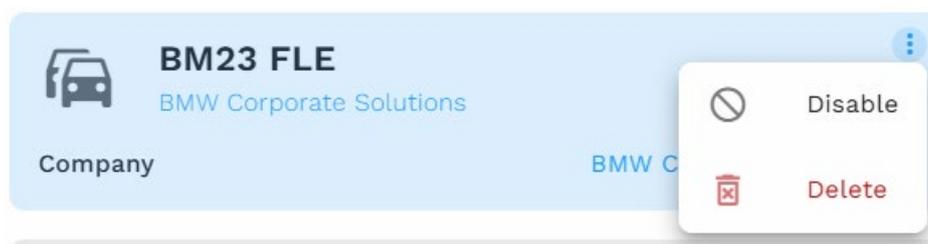
To edit a third-party registration number, press on the card. A menu will open on the right for editing the data.

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



### 11.3.4. Management operations

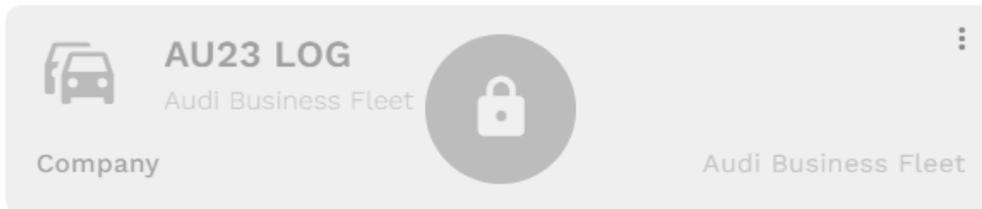
Clicking on the three dots at the top right of a third-party registration number card will display the actions that can be performed on it.



### 11.3.4.1. Disabling

Pressing "Disable" (or "Enable") will disable (or enable) the registration number. You will be asked to confirm before disabling (or enabling) a registration number.

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



To re-enable the registration number, press the three dots in the top right corner and select the "Enable" option. You will be asked to confirm before enabling a driver.

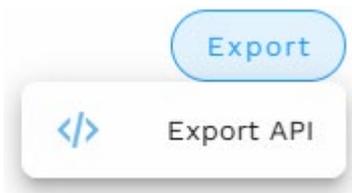
### 11.3.4.2. Deletion

Pressing "Delete" will delete the registration number. You will be asked to confirm before deleting.

### 11.3.5. Export

Third-party registration numbers can only be exported in one way: API.

Clicking on the "API export" option will redirect you to the export API documentation for third-party registration numbers.

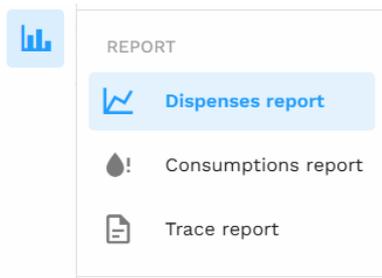


#### Note

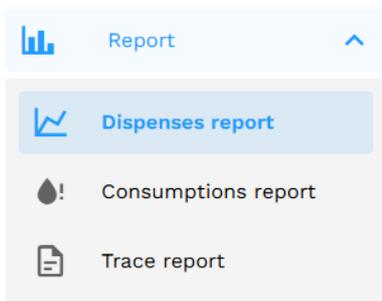
*The "Export via API" option is only available after activating the "Enable export API" setting. See chapter 13.2.2.*

## 12. 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 per vehicle or per driver, and manage the route reports.



Report icon (compact menu), with submenu icons.

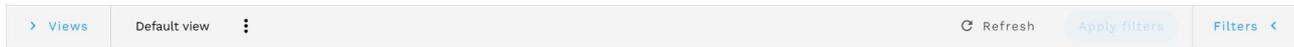


Report icon (expanded menu), with submenu items.

## 12.1. View

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

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



The view bar is composed as follows:

- **"Views" button:**

Pressing this button will open a drop-down menu on the left containing a list of currently saved views.

If no views have been saved yet, the only item in the list will be "Default view."

In this section, you can filter the views by name

- **View name:**

This indicator of the currently selected view name is clickable. Clicking on the name will open the left-hand menu containing the saved views.

- **Options:**

The options, accessible by pressing the three dots, allow you to save a new view from the current one, modify the view, or delete the view.

- **Update:**

The refresh button ( Refresh ) button, when pressed, will update the data on the page without reloading the page.

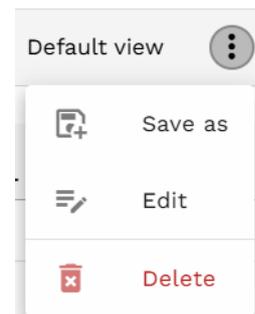
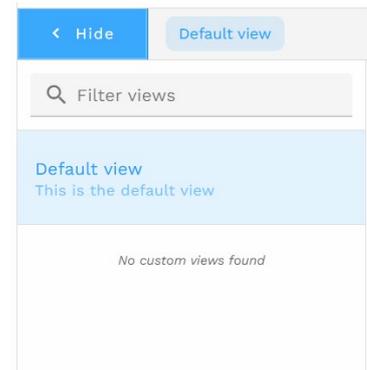
- **Apply filters:**

The apply filters button will be clickable if and only if the filters have changed from the previously applied filters. If there is a change that can be applied, the button will become solid and coloured: .

*NOTE: applying filters does not save them, but only applies them and updates the data using the currently selected filters.*

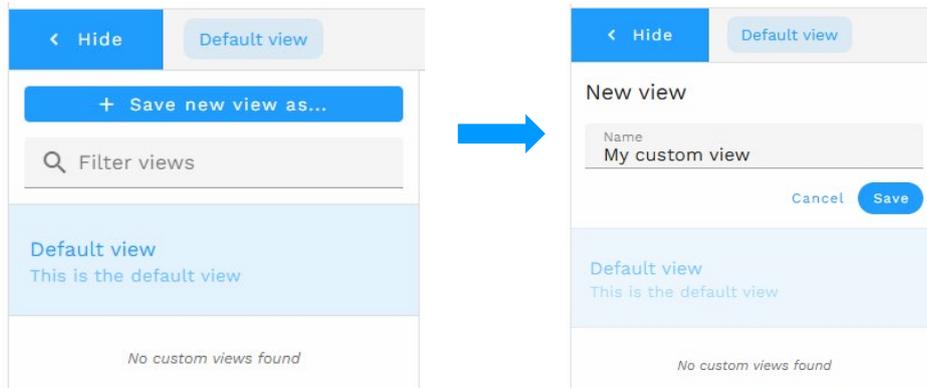
- **Filters:**

Pressing this button will open a drop-down menu on the right containing the filters that can be applied to the data.



### 12.1.1. Creating a view

Once you have modified any filter, a save button will appear in the left-hand view container. Clicking on this button will turn it into a field where you can enter the name of the view to be created, as shown below.

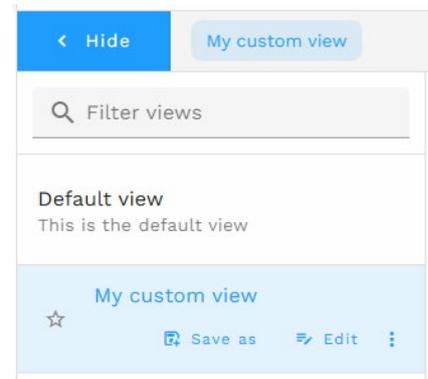


Once you have entered the name, simply click the "Save" button to create a new view.

Once a new view has been created, it will appear in the list of views in the current report.

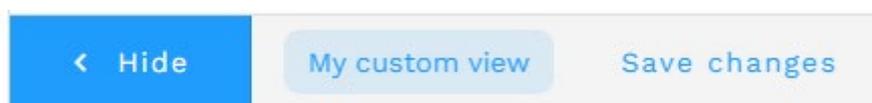
You can then select it to apply its filters to the report page or perform a variety of actions on it, as described in the chapter 12.1.3.

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



### 12.1.2. Editing a view

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



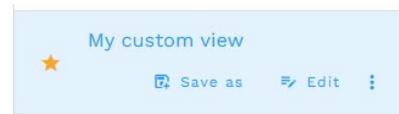
By clicking on the save changes button, the view will be saved with the currently set filters.

### 12.1.3. Operations on views

You can perform various operations on each view:

- **Set as favourite:**

To set a view as a favourite, click on the star icon on the left. The list of views will be sorted according to their "favourite" status: your favourites will appear at the top of the list.



- **Save as:**

This button allows you to create a new view based on the selected view. The new view will be a complete copy of the current view. You can set a name for the new copy, as specified in the previous chapter.

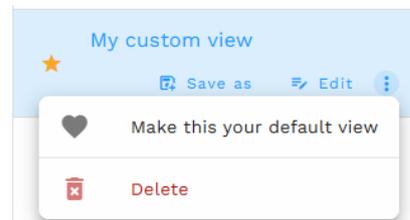
- **Edit:**

Allows you to change the name of the view

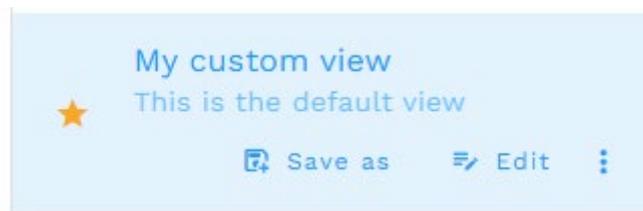
- **Additional actions:**

By pressing the three dots icon, you can perform additional actions:

- Set the view as default
- Delete the view



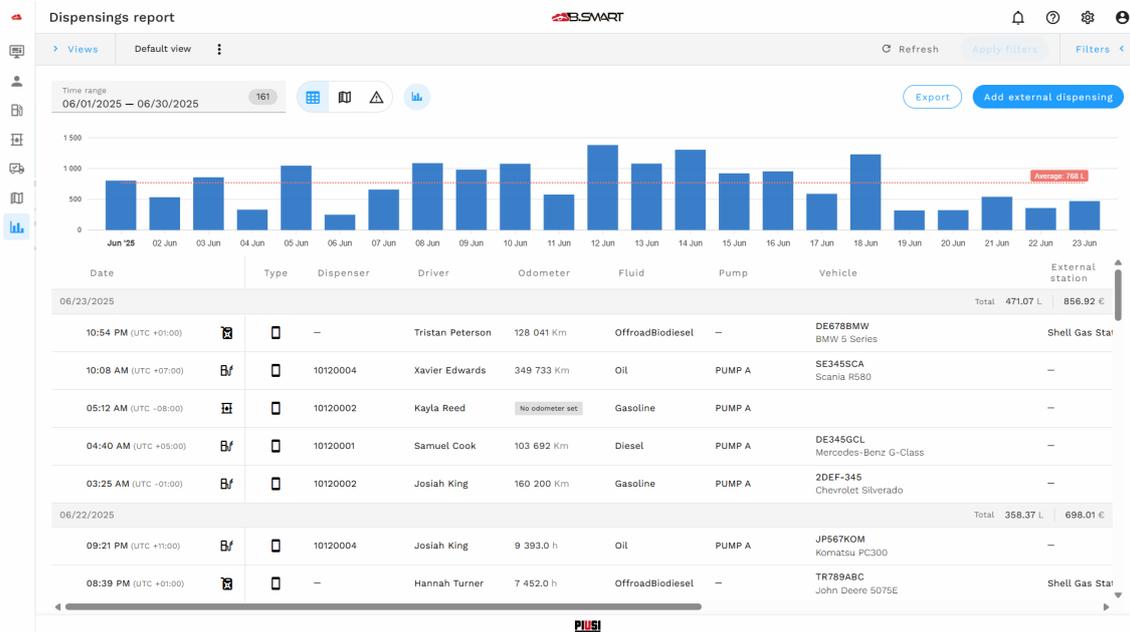
A view set as "default" will be marked with a special description below its name:



The default view will be loaded and applied each time the reporting page is reloaded. To change the default view, simply move to a different view, click on the three dots icon at the bottom right and select the option Make this your default view .

## 12.2. Dispensing reports

This page shows the table of dispenses made in the system.



This is a reporting page, so it will have its own views section (see *chapter.12.1 for 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 display (see *chapter.12.2.1 for a detailed explanation*).



Finally, the last button on the left side , which will only appear if the current display includes a graph, allows you to show or hide the graph in order to save space on smaller screens or if you want to temporarily give more space to the tabular data.

## 12.2.1. Display mode

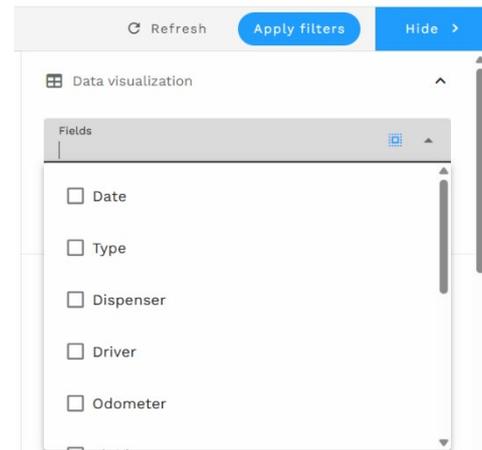
### 12.2.1.1. Table



The table display mode, which can be selected by clicking on the button with the table icon, is the classic table view of the payments made. It is accompanied by a graph that can be temporarily hidden.

You can select the columns you want using the filter called "Fields," which can be found in the "Filters" section of the view bar.

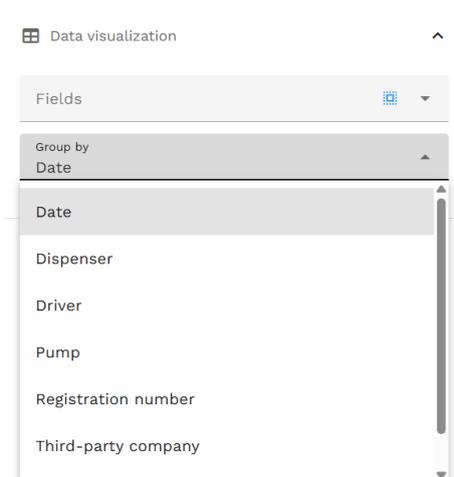
Clicking on the field opens a multiple selection menu that allows you to select one or more fields (or columns).



#### Please note

- if you do not select any values from the field described above, all fields (or columns) will be displayed in the table
- the selected fields affect the table and the file exported in PDF format. **Not** affect the file exported to 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 within the table and the PDF file will be grouped by the selected field. Basically, disbursement data is grouped by date.



## Filters

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

### General

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

*Attention: this field only appears if the "Enable optional fields" setting is enabled.*

### Anomalies

- **Anomalies**

You can choose one or more of the following anomalies:

- Power interruption
- Supply outside the operating area

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

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

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

- **Fluids**

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

- **Third-party companies**
- **Third-party registration numbers**
- **Operating areas**

The screenshot shows a vertical list of filter categories, each with a header and a list of sub-filters. Each sub-filter has a small grid icon and a dropdown arrow.

- General**
  - Drivers
  - Vehicles
  - Dispensers
  - Pumps
  - Optional Field 2
- Anomalies**
  - Anomalies
- Fuel Economy**
  - Categories
  - Vehicle companies
  - External stations
- Tank Watchdog**
  - Fluids
- Maply**
  - Third-party companies
  - Third-party registration numbers
  - Working areas

## Fuel delivery details

The following information is displayed in the row of a single payment:

- **Status icon**

Indicates whether the payment was successful or if there was a problem during the transaction:

The presence of the symbol  at the beginning of the line indicates that an anomaly occurred during dispensing. Possible problems are:

- Incorrect date

All dispenses made in this abnormal condition have an incorrect or invalid value in the date field.

*See chapter 12.2.1.3 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 issue, check the connections and configuration of the device.

- **Authentication type**

Indicates how the driver authenticated themselves on the terminal:



Access was granted via iButton key



Access was granted via the smartphone app



Access was granted via the keypad (charging station)

- **Date**

The date and time (shown according to the time zone of the terminal) when the fuel was dispensed.

- **Type of fuelling**

Indicates whether the dispensing represents a calibration or a refuelling:



Refuelling of a vehicle



Refuelling of a third-party company



Transfer of fluid 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 a TAG, the icon will appear  will appear next to the dispensing type icon.

- **Device**

Name of the column 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 only visible if the "Enable optional fields" system preference is enabled.*

- **Optional field 2**

Value entered by the mobile application for optional field 2.

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

- **Calibration factor**

Calibration factor of the device at the time of dispensing.

- **Odometer**

Value of the odometer entered.

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

- **Pump**

Name of the pump used for dispensing.

- **Quantity**

Quantity dispensed reported in the unit of measurement selected in the configuration section (see chapter 13.1.1).

- **Tank refilled**

Indicates the tank into which the dispensed fluid has been transferred.

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

- **Operating area**

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

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

- **Company**

Third-party company for which the delivery was made

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

- **Registration number**

Registration number entered at the time of dispensing.

- **Fluid**

Fluid dispensed

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

## Actions on dispenses

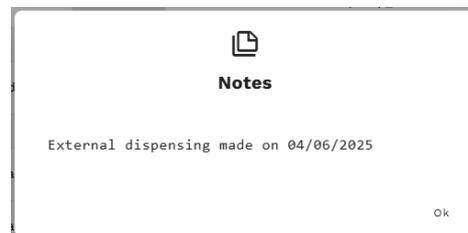


Various actions can be performed on dispenses, which will appear when you hover the mouse over the end of each row, in order:

- **Show note**

: *this option only appears if the dispensing is external.*

Once this option is clicked, a modal window opens containing the text of the external payment note (if present).



- **View payment photo**

*NOTE: this option only appears if the payment has at least one associated photo.*

Once this option is clicked, a modal window will open containing the photo(s) associated with the payment.

- **View odometer photo**

*NOTE: this option only appears if a photo of the odometer was taken during the delivery.*

Once you click on this option, a modal window will open containing the photograph of the odometer.

- **Print receipt**

*NOTE: this option only appears if the dispensing has an associated receipt.*

Clicking this option will download the PDF of the receipt associated with the dispensing.

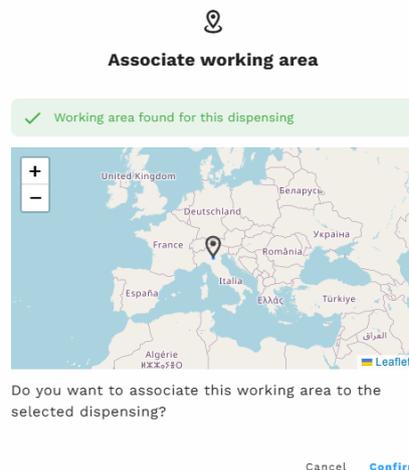
- **Associate operating area**

*NOTE: This option only appears if the Maply add-on is active and not expiring, and if no operating area is associated with the service.*

Clicking on this option will open a modal window in which an operability area will be automatically searched for and associated (based on the delivery coordinates).

If an area is found, you can press the confirmation button to associate the service with the operational area.

If no operational area containing the selected service is found, the system will allow you to create a new operational area based on the service coordinates. Once the new operating area has been created, it will be automatically associated with the service.



- **View on map**

: *This option only appears if the Maply add-on is active, the supply is not external, and the supply coordinates are valid.*

Clicking this option will redirect you to the map view of the dispatches, with the current dispatch highlighted (see *chapter . 12.2.1.2* for more information).

- **Edit delivery**

Any non-calibration delivery can be modified by an administrator user.

### Modifying a refuelling to a vehicle

This form allows you to modify the odometer (if the odometer type is not null) and the optional fields (if the "Enable optional fields" setting is enabled).

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

### Modifying a refuelling to a third party

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

This form allows you to edit the third-party company and third-party registration number. In addition, if the "Enable optional fields" setting is enabled, you can edit the two optional fields.

### Editing a transfer

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

This form allows you to edit the tank linked to the transfer. In addition, if the "Enable optional fields" setting is enabled, you can edit the two optional fields.

**Warning:** making this change automatically creates a discharge movement on the old tank and a load movement on the new one.

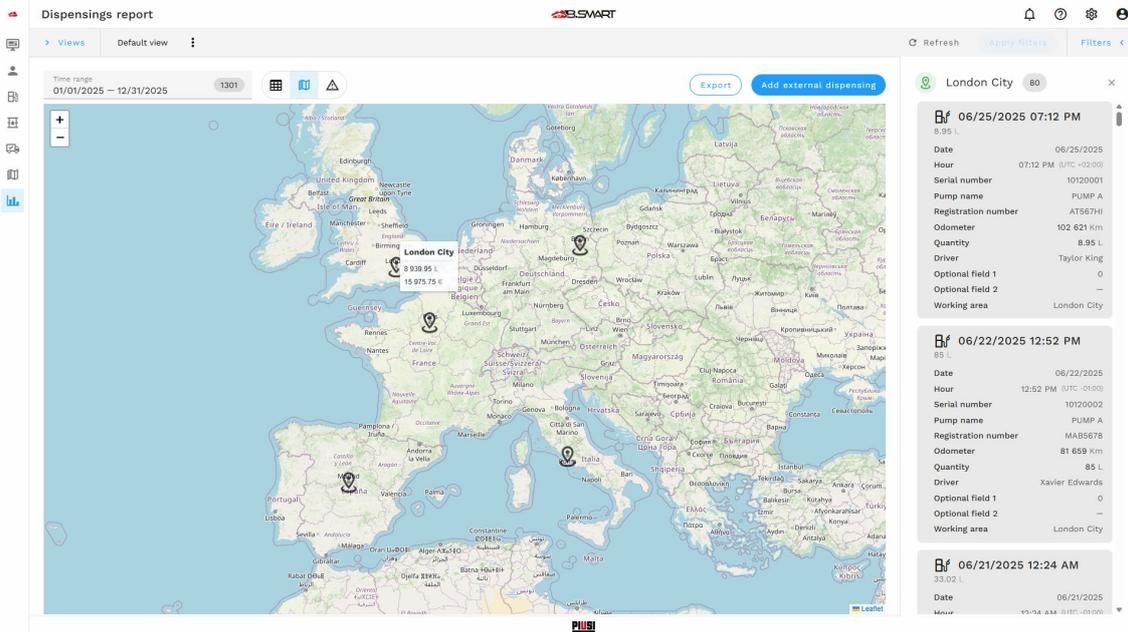
### Modifying an external dispensing

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

*Refer to the chapter 12.2.2 for a description of the fields in the form for adding/modifying an external dispensing.*

## 12.2.1.2. Map

The map display mode, which can be selected by clicking on the map icon button, shows the dispenses geolocated on the map.



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

- 

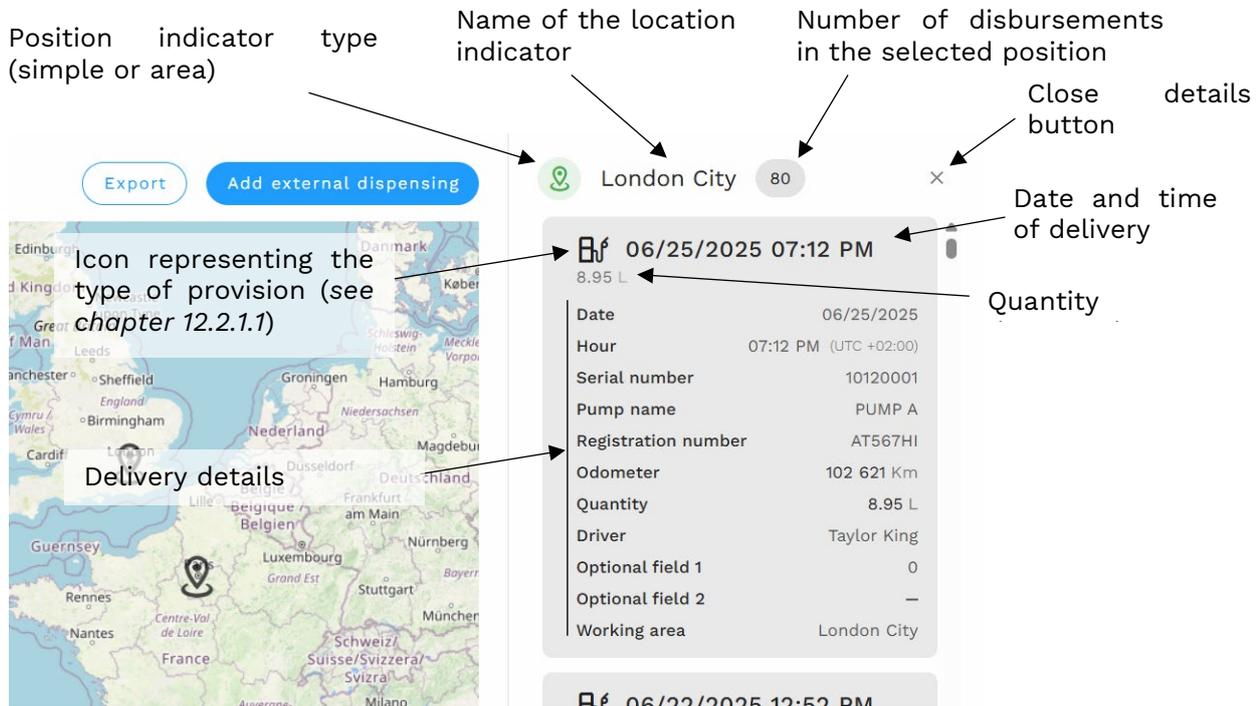
Identifies a single payment that is not within any area. This location indicator appears in yellow if the option "*Dispensing management*" is set to "Report dispenses outside operating areas" (see *chapter 7.2.4*) and the column was in a position where dispensing was not permitted during dispensing.
- 

Identifies an operating area, which groups together all dispenses that have been made within that area.

If there are many position indicators in a small area of the map, they will be grouped automatically . 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 marker will open a window on the right containing the details of the delivery if the marker represents a single delivery, otherwise the details of all deliveries made in the area.





### 12.2.1.3. Anomalies

The display mode for anomalies, which can be selected by clicking on the warning icon button, is a filter on the dispensing table that shows only those with an anomaly on the date.



Dispensings report B.SMART

Time range: 01/01/2025 — 12/31/2025 Export

Invalid dates detected for some dispensing operations

Date	Type	Dispenser	Driver	Odometer	Fluid	Pump	Vehicle	Transfer tank
Total: 275.11 L   0 €								
06/16/2025								
05:09 PM (UTC +02:00)	Bf	24090101	Eveline Gerard	No odometer set	Methanol 92647	PUMP A	123321 IVECO	-
05:07 PM (UTC +02:00)	Bf	24090101	Eveline Gerard	No odometer set	Methanol 92647	PUMP A	123321 IVECO	-
05:06 PM (UTC +02:00)	Bf	24090101	Eveline Gerard	No odometer set	Methanol 92647	PUMP A	123321 IVECO	-
04:55 PM (UTC +02:00)	Bf	24090101	Eveline Gerard	No odometer set	Methanol 92647	PUMP A	123321 IVECO	-
04:22 PM (UTC +02:00)	Bf	24090101	Eveline Gerard	No odometer set	Methanol 92647	PUMP A	123321 IVECO	-
02:14 PM (UTC +02:00)	Bf	24090101	Eveline Gerard	No odometer set	Methanol 92647	PUMP A	123321 IVECO	-
01:36 PM (UTC +02:00)	Bf	24090101	Eveline Gerard	70701.0 h	Gasoline 23340	PUMP A	AWWALUT322FRW4292	-

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

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

## 12.2.2. Adding an external payment

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

You can add an external payment by pressing the button . This will open the form for entering a new external payment, which is structured as follows:

- **Date**

Date and time when the payment was made.

Warning: it is not possible to enter a payment with a date in the future.

- **Vehicle**

Indicate the vehicle that made the payment.

- **External station**

*NOTE: this field is only available if the "External Stations" option is enabled in the Fuel Economy add-on*

The service station where the fuel was dispensed.

You can add an external station directly from this form by pressing the button  (see chapter 10.3.2 for a detailed description of how to enter a new external station).

- **Quantity dispensed**

- **Cost**

Indicate the total cost of the fuel.

- **Fluid**

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

The fluid with which the vehicle was refuelled.

You can add a fluid directly from this form by pressing the button  (see chapter 8.2.2 for a detailed description of how to enter a new fluid).

- **Ad-blue refuelling**

Indicate whether AdBlue has been refuelled.

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

- **Odometer**

Indicate the vehicle's odometer reading on the date of refuelling.

*Warning:* for the correct calculation of consumption, it is not recommended to enter an odometer reading lower than the last odometer reading entered for the selected vehicle (in this case, consumption is calculated as 0).

- **Notes**

Enter a text note to provide more information about the dispensing carried out outside the system.

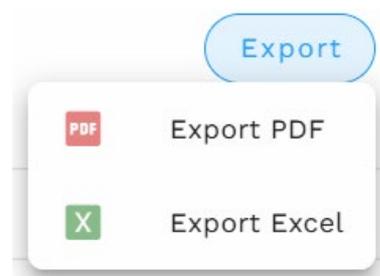
- **Images of external fuelling**

Enter a maximum of two images relating to the external fuelling.

### 12.2.3. Export

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

- Export fuelling in PDF format
- Export payments in Excel format



## 12.3. Consumption report

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

This page shows the consumption table for the vehicles in the fleet.

Date	Distance	Quantity	Price	Consumption rate
<b>1ABC-234</b> Ford F-150				
Traveled distance 136 Km Actual consumption 5.28 Km/L Standard consumption 7.8 Km/L ± 10 % Cost 188.39 €				
Average consumption 5.28 Km/L				
06/18/2025 01:16 AM (UTC -09:00)	114 Km	136 L	149.92 €	0.84 Km/L
06/15/2025 02:25 AM (UTC +03:00)	148 Km	15.73 L	15.21 €	9.41 Km/L
06/10/2025 03:32 AM (UTC -04:00)	151 Km	136 L	144.08 €	5.43 Km/L
06/07/2025 09:07 PM (UTC -07:00)	136 Km	100.86 L	188.39 €	1.35 Km/L
05/30/2025 05:13 PM (UTC -11:00)				
<b>2DEF-345</b> Chevrolet Silverado				
Traveled distance 330 Km Actual consumption 8.88 Km/L Standard consumption 7.6 Km/L ± 10 % Cost 438.5 €				
Average consumption 8.88 Km/L				
06/25/2025 08:37 PM (UTC +11:00)	164 Km	98 L	95.49 €	5.04 Km/L
06/16/2025 04:07 AM (UTC -03:00)	159 Km	98 L	179.4 €	1.62 Km/L
06/04/2025 06:51 AM (UTC +07:00)	171 Km	98 L	259.11 €	3.36 Km/L
06/04/2025 06:51 AM (UTC +07:00)				
06/30/2025 07:02 PM (UTC -07:00)				
<b>ABC-1234</b> Toyota Camry				
Traveled distance 466 Km Actual consumption 13.25 Km/L Standard consumption 13.9 Km/L ± 10 % Cost 170.7 €				
Average consumption 13.25 Km/L				
06/22/2025 07:57 PM (UTC +01:00)	108 Km	49.45 L	20.44 €	2.18 Km/L
06/16/2025 05:44 AM (UTC +00:00)	165 Km	2.06 L	3.77 €	80.14 Km/L
06/16/2025 05:44 AM (UTC +00:00)				

This is a reporting page, so it will have its own views section (see *chapter.12.1 for a detailed explanation*).

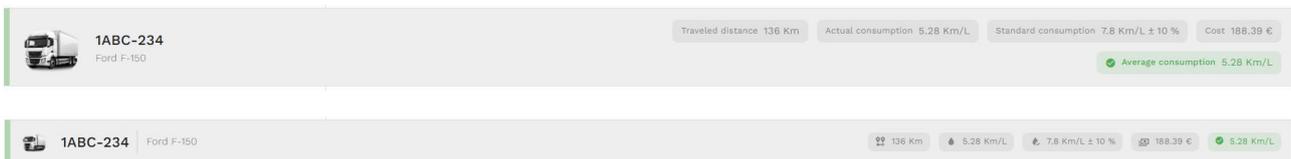
At the top left, there is a selection field for the time period. This will be the time period in which the data will be searched and displayed.



Next to the time search field, there is a button selector for changing the display (see *chapter.12.2.1 for a detailed explanation*).



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



### Please note

Consumption is only calculated for vehicles with the "Fuel Economy" function enabled (see *chapter 10.1.2.2*) and based on the fuel dispensed **after** the activation of this function.

### 12.3.1. Fuel consumption calculation logic

The fuel consumption for each journey, if the odometer is expressed in kilometres or miles, is calculated by dividing the distance travelled since the last refuelling 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 refuelling. These calculations assume that the vehicle's tank is always filled to capacity.

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

#### Example

Analysing the consumption report shown in the image below, the vehicle has travelled five routes.

<b>DE012FEN</b> 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	Δ 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	65.38 L	193.34 €	0.48 L/h	Δ 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	Δ 1 L/h

Each row of the table represents a route:

Arrival time of the route	Distance travelled	Odometer at arrival	Odometer at departure	Fuel consumed	Price	Average consumption
→ 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 €	Δ 0.09 L/h

Since each row represents a vehicle route, the information relating to departure in one row is the same as the information relating to arrival in the row below

In the example below:

- The departure date in row 1 is the same as the arrival date in row 2
- The departure odometer reading in line 1 is the same as the arrival odometer reading in line 2

<ul style="list-style-type: none"> <li>→ 06/19/2025 07:00 PM (UTC -01:00)</li> <li>← 06/16/2025 05:14 PM (UTC +01:00)</li> <li>→ 06/16/2025 05:14 PM (UTC +01:00)</li> <li>← 06/13/2025 07:42 PM (UTC -10:00)</li> </ul>	159.0 h	<ul style="list-style-type: none"> <li>→ ODO 7 380.0 h</li> <li>← ODO 7 221.0 h</li> </ul>	21.33 L	23.51 €	0.08 L/h
	113.0 h	<ul style="list-style-type: none"> <li>→ ODO 7 221.0 h</li> <li>← ODO 7 108.0 h</li> </ul>	19.96 L	131.56 €	△ 0.09 L/h

Let's now analyse the consumption calculation by looking at the header of a vehicle and a row representing a route travelled:

<b>CH012RS6</b> Audi RS6		Traveled distance 351 Km		Actual consumption 9.21 Km/L		Standard consumption 8.5 Km/L ± 10 %		Cost 390.33 €	
		<b>A</b>				<b>B</b>		<b>C</b>	
<ul style="list-style-type: none"> <li>→ 06/20/2025 09:27 PM (UTC -06:00)</li> <li>← 06/07/2025 11:44 PM (UTC +01:00)</li> </ul>		124 Km	<ul style="list-style-type: none"> <li>→ ODO 92 189 Km</li> <li>← ODO 92 065 Km</li> </ul>	75 L	191.49 €	1.65 Km/L			
<ul style="list-style-type: none"> <li>→ 06/07/2025 11:44 PM (UTC +01:00)</li> <li>← 06/01/2025 01:05 PM (UTC +01:00)</li> </ul>		111 Km	<ul style="list-style-type: none"> <li>→ ODO 92 065 Km</li> <li>← ODO 91 954 Km</li> </ul>	63.12 L	100.43 €	1.76 Km/L			
<ul style="list-style-type: none"> <li>→ 06/01/2025 01:05 PM (UTC +01:00)</li> <li>← 05/03/2025 03:14 AM (UTC +01:00)</li> </ul>		116 Km	<ul style="list-style-type: none"> <li>→ ODO 91 954 Km</li> <li>← ODO 91 838 Km</li> </ul>	1.19 L	98.42 €	△ 97.82 Km/L			
						Average consumption 33.74 Km/L			

The fuel consumption for the route is calculated as follows:

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

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

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

$$\frac{\text{distanza percorsa}}{\text{carburante erogato}} = \frac{124 Km}{75 L} = 1.65 Km/L$$

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

$$\frac{(\text{consumo tratta 1}) + (\text{consumo tratta 2}) + \dots + (\text{consumo tratta n})}{n}$$

Con n = numero di tratte percorse

Therefore, in our case:

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

### 12.3.2. Vehicle consumption assessment

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

Vehicle odometer unit of measurement	$C < LI$	$LI \leq C \leq LS$	$C > LS$
Kilometres or Miles			
Hours			

Key:



Consumption within limits



Excessive consumption

$C$  = Consumo attuale

$LI$  (Limite di consumo Inferiore)

= Consumo nominale – Tolleranza % applicata al consumo nominale

$LS$  (Limite di consumo Superiore)

= Consumo nominale + Tolleranza % applicata al consumo nominale

The assessment is also shown on the vehicle page (see chapter 10.1.1), within each vehicle card.

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

**AG234MAG**  
Case IH Magnum 340

FE
⋮

Odometer 5 884.0 h

Tank capacity 530 L

15.2 L/h ⚠

**BE901BMW**  
BMW X7

FE
⋮

Odometer 69 883 Km

Tank capacity 90 L

8 Km/L 88.9 Km/L

### 12.3.3. Consumption report filters

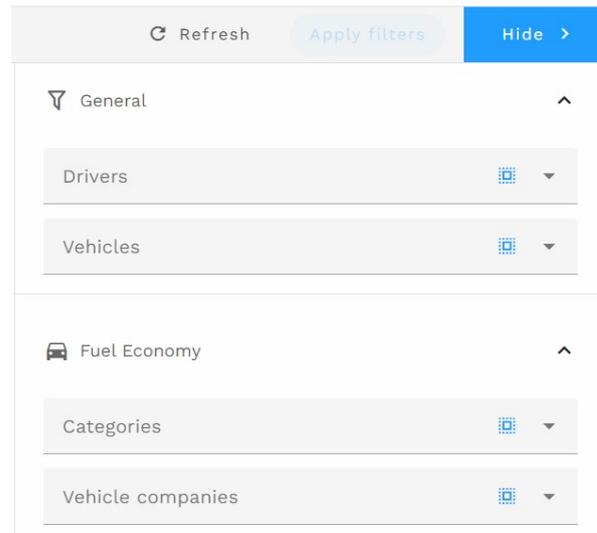
The filters available on the consumption report page are as follows, separated by topic:

#### General

- Drivers
- Vehicles

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

- Categories
- Vehicle brands



### 12.3.4. Consumption report by driver

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

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

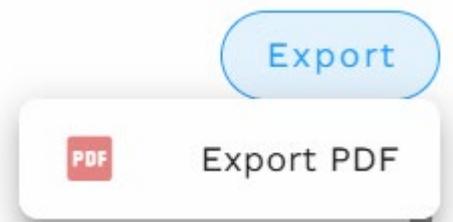
If the "" setting is enabled, the smartphone app will require an additional action to be completed before a fuel delivery can be made (in particular after entering the odometer). The user must specify whether they drove the last leg: if so, the calculated consumption will be attributed to them, otherwise it will be associated with the last driver who dispensed fuel on that vehicle.

The average fuel consumption of drivers is calculated in the same way as that of vehicles (see chapter 12.3.1)

### 12.3.5. Export

Clicking the export button will open a drop-down menu from which you can choose a single export mode:

- Export consumption in PDF format



## 12.4. Tracking report (data export)

From this section, you can export text files with a customised track.

To add a new track, click on the button at the top right [Add preset](#).

The fields in the form for adding (and editing) the trace are as follows:

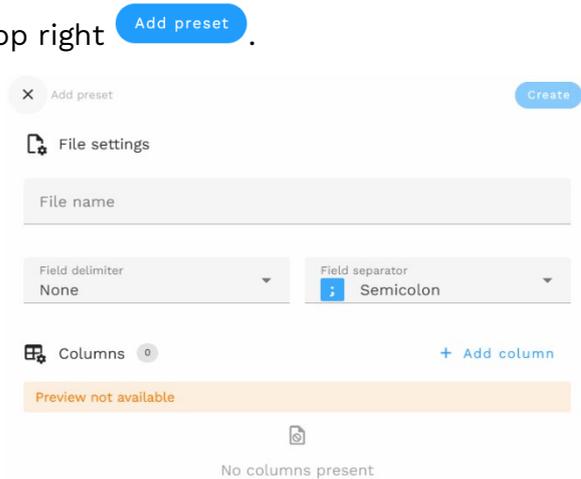
- **File name** (required)  
The name of the file that will be exported.

- **Field delimiter**

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

- **Field separator**

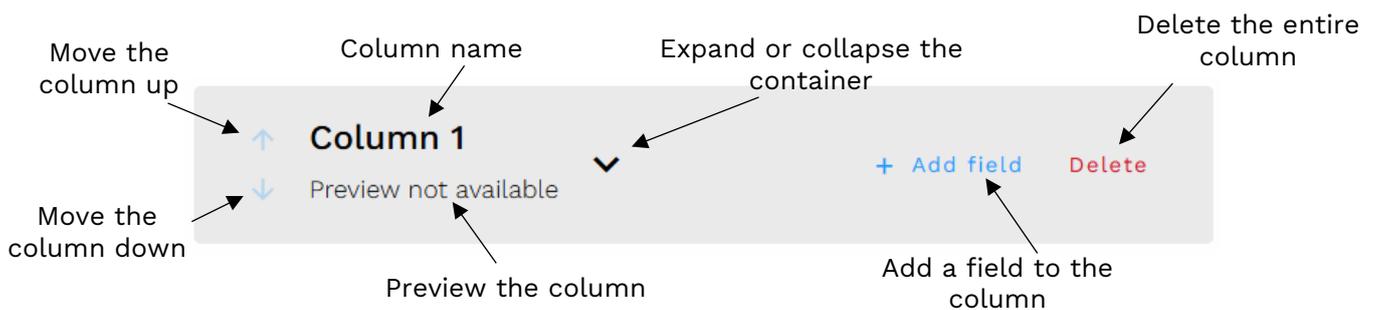
Symbol used to separate columns. It can be one of the following: comma (,), semicolon (;), underscore (\_), hyphen (-), pipe (|).



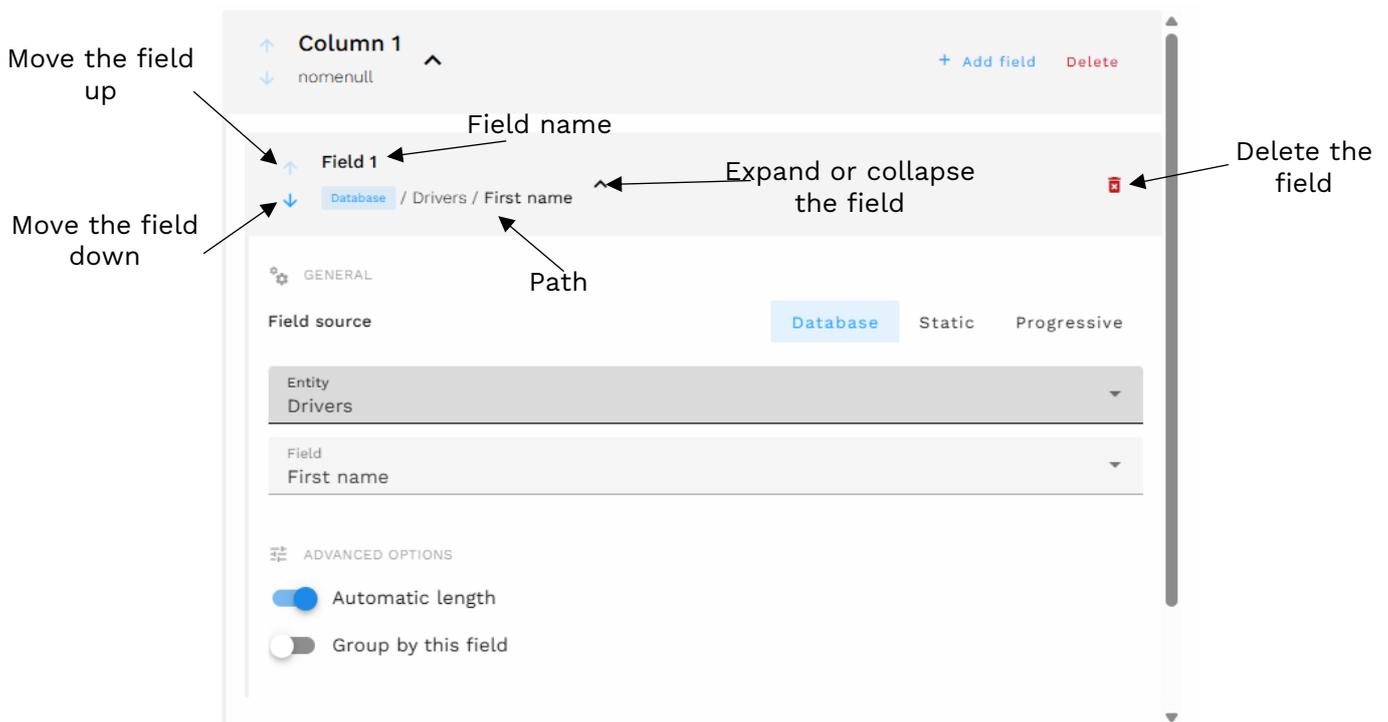
In each layout, you can define the required columns, along with a wide range of options for formatting the various fields.

To add a column, press the button [+ Add column](#) to the right of the "Columns" section.

The container shown below will be created, initially empty.



Adding a field will display the container shown below.



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

- **Database**  
Value taken from the database. You can select the entity and specific field on which to search
- **Static**  
Free static field (string of characters, spaces, symbols, or digits)
- **Progressive**  
Progressive number that increases (+1 each line)

### 12.4.1. Edit

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

## 12.4.2. Management operations

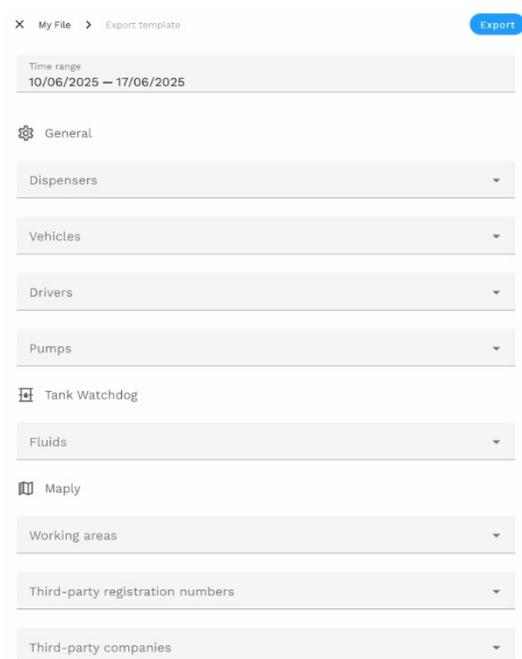
Clicking on the three dots at the top right of a track card will display the actions that can be performed on it.



### 12.4.2.1. Export

Pressing "Export template" will open a menu on the right with various filters that can be applied to the export:

- **Period**  
Date range for the search
- **Devices**
  - *d vehicles (or registration numbers if the Fuel Economy add-on is not active)*
- **Drivers**
- **Pumps**
- *' fluids (only available if the Tank Watchdog add-on is active)*
- *'s operating areas (only available if the Maply add-on is active)*
- **Third-party registration numbers ( )** *(only available if the Maply add-on is active)*
- *third-party companies (only available if the Maply add-on is active)*



Pressing the [Export](#) the file will be exported.

### 12.4.2.2. Deletion

Pressing "Delete" will delete the track. You will be asked to confirm before deleting.

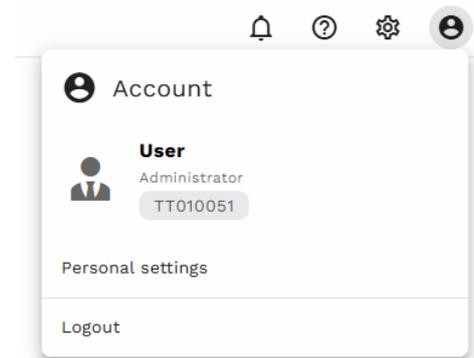
## 13. SETTINGS

This section contains all user, system, and add-on settings. In this section, you can also manage system information, manage web app users, and add new add-ons for your system.

The section can be accessed by pressing the gear icon  always present at the top right of the Web App header and selecting one of the menu items. *For more details, see the chapter 13.2.*

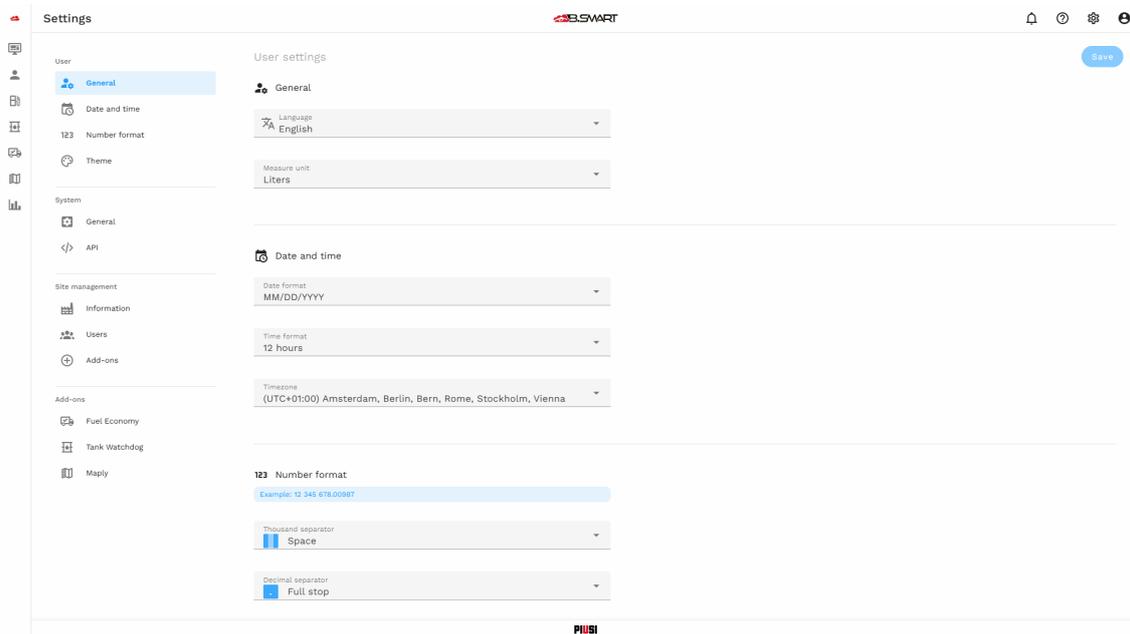
Alternatively, the section can be accessed by pressing the user icon  always present at the top right of the Web App header and selecting the first option "Personal settings" (see figure on the side).

This will open the settings subsection called "User settings," as described in the next paragraph.



## 13.1. User settings

From this screen, you can configure the user settings.



Once you have changed any of the settings already saved, the button  button at the top right will be activated, allowing you to save the newly modified settings.

### 13.1.1. General

The "General" subsection contains the general user settings:

- **Language**  
Language in which to display the Web App.
- **Unit**  
Unit of measurement used to display the quantities dispensed.

### 13.1.2. Date

The "Date and time" subsection contains settings related to date and time formats and time zones:

- **Date format**

Date display format (DD/MM/YYYY, MM/DD/YYYY).

- **Now format**

Time display format (12 hours, 24 hours).

- **Time zone**

Time zone setting. This preference is used to identify the geographical area from which the Web App is used.

### 13.1.3. Number format

In this subsection, you can change the settings related to the 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.).

### 13.1.4. Theme

In this subsection, you can set the theme (Light mode or Dark mode).

#### **Please note**

The dark mode setting will be saved locally and restored to its default value in these two cases:

- when you log out manually
- when clearing your browser data

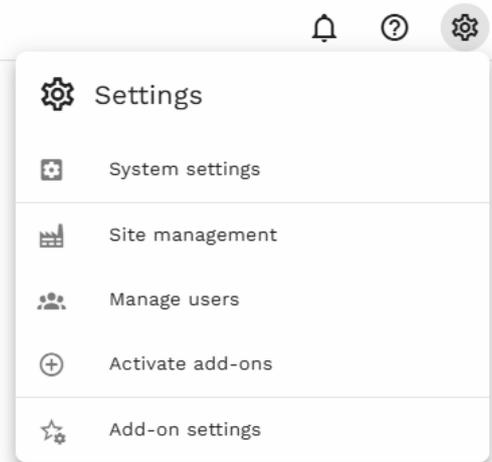
This data is not saved at the B.SMART user level.

## 13.2. System settings

The system settings section can be accessed via the gear icon at the top right of the application header.

The menu items in the drop-down menu that appears when you press the button are divided into categories and reflect the structure found on the Settings page, in order:

- System settings
- System settings
- Add-on settings



### 13.2.1. General

From this section, you can change the general system settings:

- **Manual registration numbers**

You can choose whether you want to enter registration numbers manually from the mobile app or let them be created only by 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 personal data fields for dispensing.

You can assign any name you like to identify the new fields.

There are two different types of additional fields: optional field 1 only accepts positive integers (the maximum value allowed is 65535) and optional field 2 is alphanumeric (maximum 16 characters).

- **Enable receipt reception on mobile app?**

Disabling this function will prevent receipts from being generated on the mobile application following a successful payment.

- **Enable custom fields for Export APIs**

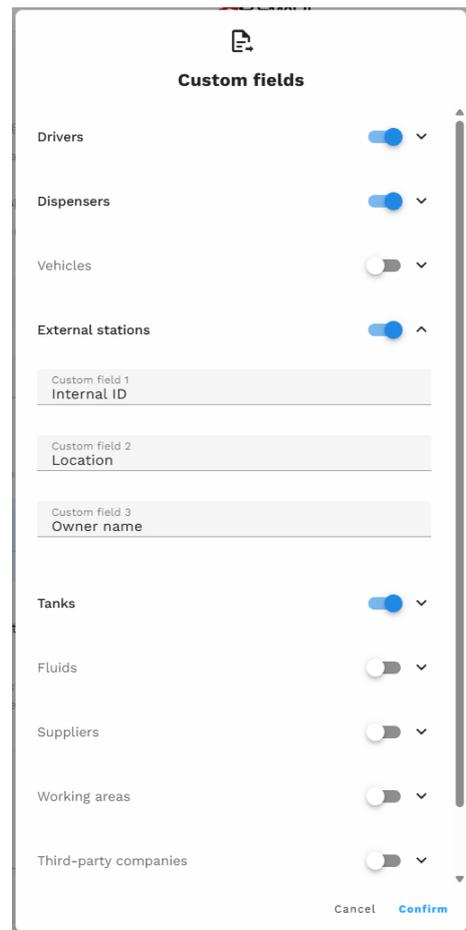
By enabling this function, you can assign custom fields for the main entities via the web app. These values are added to the entities in the Export API read calls and in the export tracks (see *chapter 12.4*). They are not displayed in any reports. They are useful for mapping B.SMART entities with ERP.

Using the configuration form, you can choose which entities to enable this feature on, and for each of them, you can customize the name of the custom fields.

When custom fields are enabled, you can assign 3 attributes to each entity **3 attributes**, with a maximum of **40 alphanumeric characters**.

After enabling, a new tab appears for each entity. The entities subject to custom fields are:

- Drivers;
- Devices;
- Registration Number;
- Fluids (*with Tank Watchdog active*);
- Suppliers (*with Tank Watchdog enabled*);
- Tanks (*with Tank Watchdog active*);
- External Stations (*with Fuel Economy active*).



Custom fields can be assigned directly to new entities (drivers and Registration Numbers) by importing from an Excel file (see section 8.7) or by importing from the Export API.

These fields are added to the read template via the Export API:

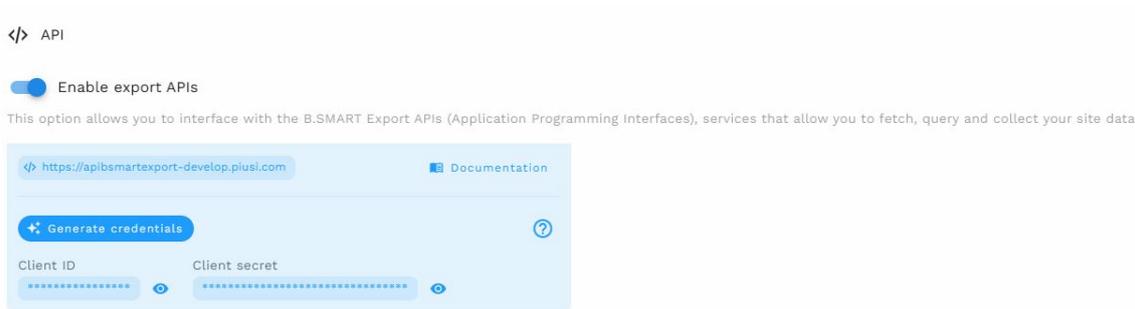
*NOTE:* If all 3 custom fields are empty strings, the *customFields* will be **null**.

```
"customFields": null
```

You can also export custom attributes within the Export tool.

```
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"
  }
}
```

### 13.2.2. API



From this section, you can enable interfacing with the APIs. APIs (Application Programming Interfaces) are a service that allows you to obtain data from your system.

To make calls, you must use the credentials provided and generate a token.

The procedure is described in detail on the documentation page, along with a list of the data structures that can be obtained.

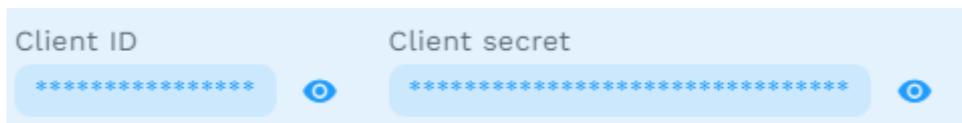
The links at the top represent, respectively:

- the URL path of the Export API
- the link to the Export API documentation



By pressing the button  will generate new credentials to authenticate yourself to use the Export API.

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.



## 13.3. Site management

### 13.3.1. Information

In this section, you can enter the system information:

- Owner company name
- Owner address
- Owner's email
- Owner's phone number 1
- Owner's phone number 2
- Owner's tax ID number
- Owner's CAE

Site information

 General

Owner business name  
DEMO SITE

Owner address

 Contacts

Owner e-mail  
demo@piusi.com

Owner telephone number 1

Owner telephone number 2

 Business information

Owner tax code

Owner CAE

### 13.3.2. Users

From this screen, you can add, edit, disable, and delete users who have accessed 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:



- **User role**

User privilege level:



Administrator user. Has complete control over the system



Viewer user. Can only view data, but cannot add, edit, or delete system elements (drivers, registration numbers, devices)

- **Username**

Unique identifier used by the user to access the Web Application.

- **Nickname**

Identifier used to recognize the user.

The details of user privileges are described in the following table (**A**: administrator, **V**: viewer):

Section	Action	A	V
<b>Drivers</b>	View drivers	YES	YES
	Add driver	YES	NO
	Edit driver	YES	NO
	Delete driver	YES	NO
	Disable/Enable driver	YES	NO
<b>Reg. No.</b>	View Reg. Numbers	YES	YES
	Add Reg. Number	YES	NO
	Edit Reg. Number	YES	NO
<b>System</b>	Dispenser display	YES	YES
	Dispenser pump display	YES	YES
	Display drivers associated with a dispenser	YES	YES
	Edit dispenser	YES	NO
	Edit pump	YES	NO
	Edit dispenser/driver association	YES	NO
	Edit dispenser/vehicle association	YES	NO
	Disable/enable pump	YES	NO
	Delete dispenser	YES	NO
<b>Users</b>	View users	YES	NO
	Add user	YES	NO
	Edit user	YES	NO
	User disabling/enabling	YES	NO
	Delete user	YES	NO
<b>System preferences</b>	View user preferences	YES	YES
	Edit user preferences	YES	YES
	View active add-ons	YES	YES
	Activate new add-ons	YES	NO
	Activate a deleted device	YES	NO
<b>Report</b>	Display list of payments	YES	YES
	Graph display	YES	YES
	Edit delivery	YES	NO
<b>Tank watchdog</b>	Tank, movement, supplier, and price management	YES	NO
	Display of movement reports and price trends	YES	YES
<b>Fuel economy</b>	Edit vehicle, category, and external station records	YES	NO
	Enter an external delivery	YES	NO
	Reset remaining quantity	YES	NO
	Modify module preferences	YES	NO
	View vehicle consumption reports and driver consumption reports	YES	YES
<b>Maply</b>	Edit the master data for operating areas, third-party companies, and third-party registration numbers	YES	NO
	View the report on the map of dispenses	YES	YES
	Change Maply add-on preferences	YES	NO

### 13.3.3. Add-on

From this screen, you can view the list of add-ons active for your system and activate new ones.

After purchasing a new add-on, press the button to activate it  button to activate it.

A modal window will open (see figure below) in which you will need to enter the code of the add-on you purchased. You will then need to press the **Confirm** at the bottom right to confirm activation.



You must follow the same procedure if you want to renew an expiring add-on code.

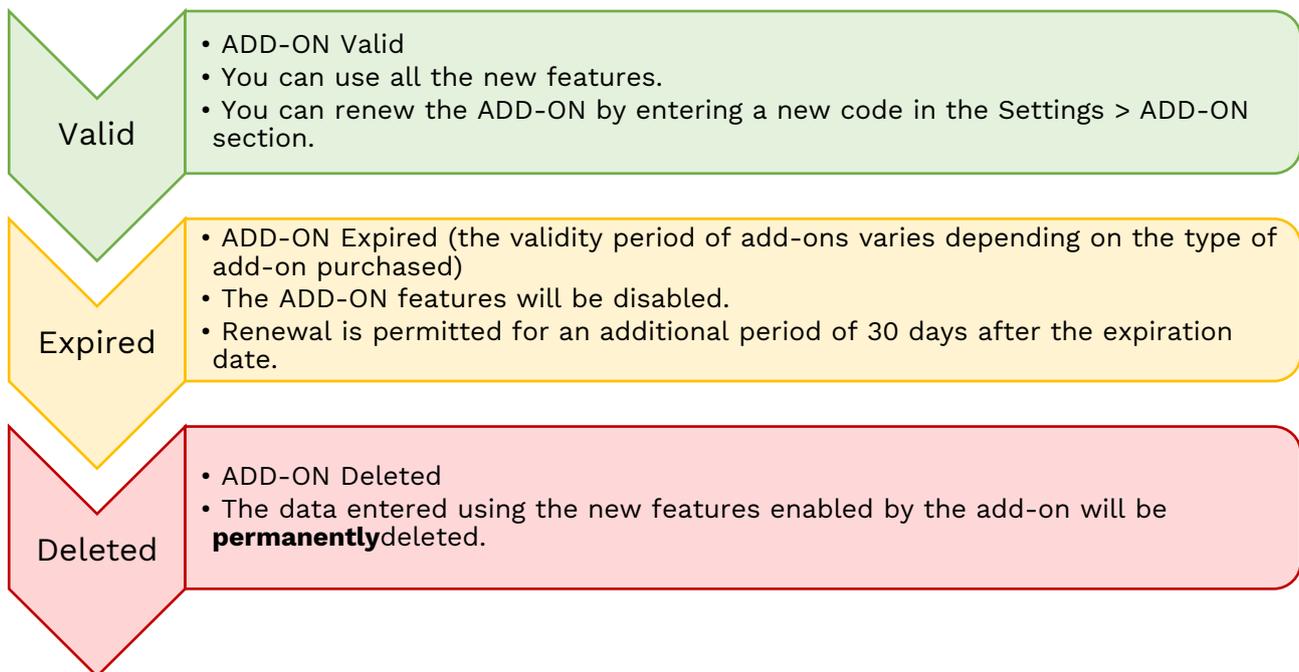


#### Attention!

It is not possible to activate the same add-on code on different systems. The add-on is single use.

### 13.3.3.1. Add-on expiry and renewal

The life cycle of any expiring Add-on is represented by the following diagram:



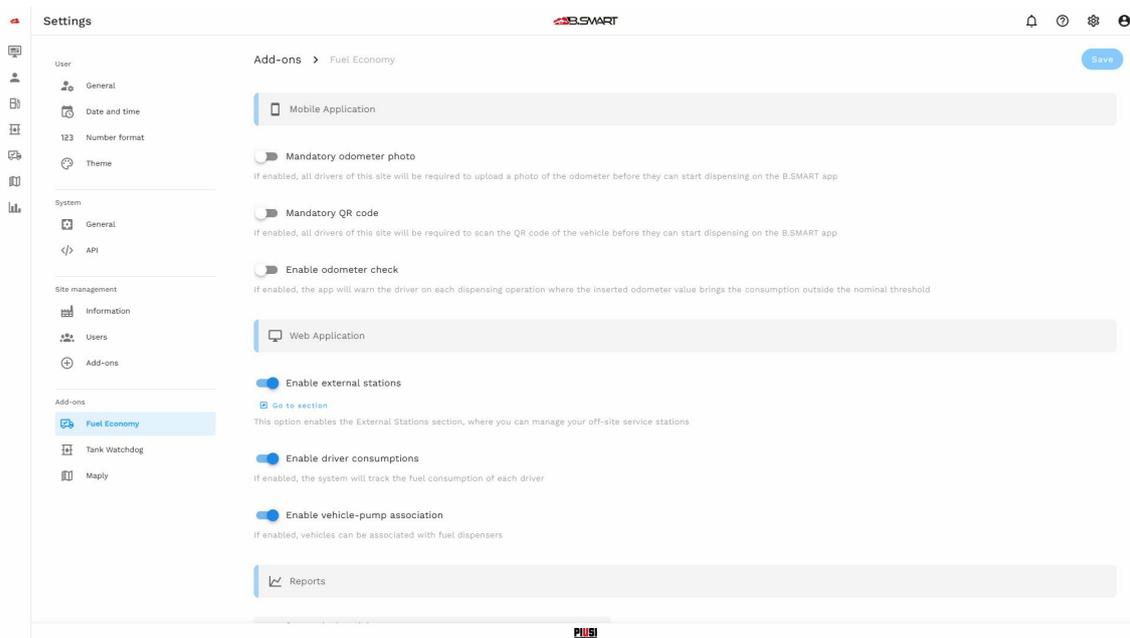
#### Please note

- When the add-on is about to expire, a reminder is sent to the portal user's email address.
- 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 the Add-on in question and a warning message will be displayed on each of those pages.
- When the "Tank Watchdog" add-on expires, tank levels are not synchronised. Therefore, if you decide to renew the add-on, you will need to make an adjustment with the correct amount on all virtual tanks.

## 13.4. Add-on settings

### 13.4.1. Fuel Economy

From this section, you can modify the system configurations that regulate the functionality of the "Fuel Economy" add-on.



The preferences you can change are as follows:

- **Enable mandatory uploading of the odometer photo**

If this preference is enabled, the mobile app will always ask you to attach a photo of the vehicle's odometer to the fuelling.

- **External stations**

Activate this preference to enable the management of the service station database, where deliveries outside the system are made.

- **Mandatory QR code**

If this preference is enabled, the driver is required to scan the vehicle's QR code before starting to refuel.

- **Enable consumption for individual drivers**

If this preference is enabled, fuel consumption will be tracked for individual drivers at the facility.

- **Enable vehicle association on the pump**

If this preference is enabled, vehicles can be associated with the fuel dispenser.

*Please note: enabling this function initially associates all vehicles with all fuel dispensers.*

- **Unit of measurement for consumption**

Select the unit of measurement in which to display the data in the consumption report.

- **Time unit for consumption**

Select the time unit in which to display data in the consumption report.

- **Enable odometer input check**

If this preference is enabled, a check is performed on the odometer entered by the driver. The number entered 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 tolerance of 5%, the odometer entered cannot be greater than

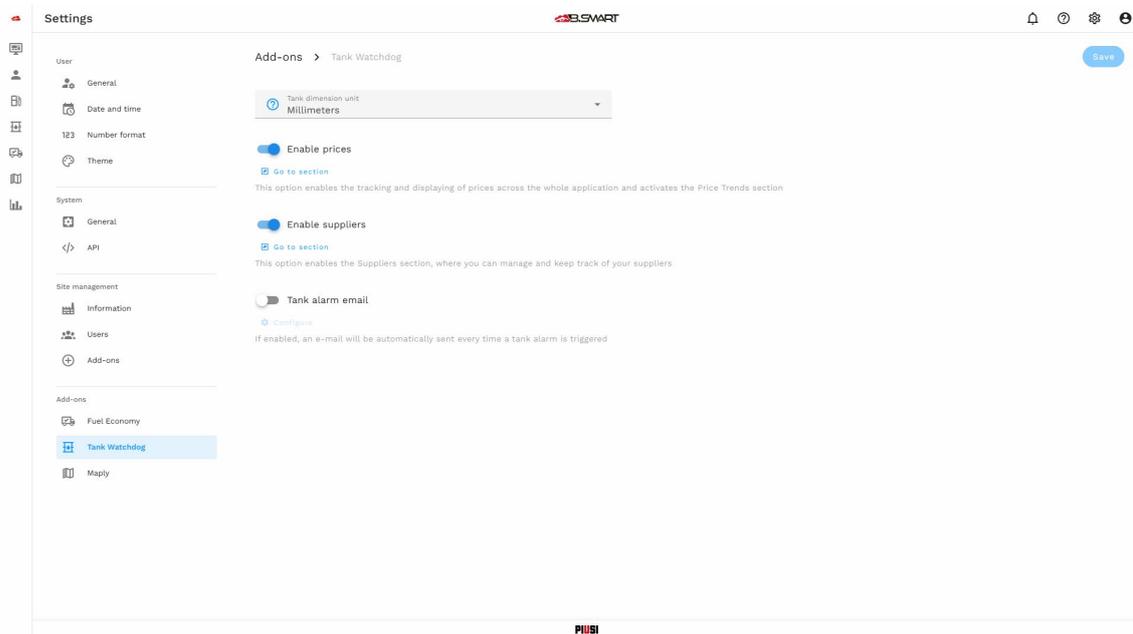
$$50 L \cdot (20 Km/L + 1 Km/L) = 1050 Km$$

than the previously entered value.

In this case, the driver who is refuelling is notified that they are entering an abnormal value. The driver can always force the value to be entered.

## 13.4.2. Tank Watchdog

From this section, you can change the preferences of the Tank Watchdog add-on.



- **Tank measurement units**

Unit of measurement used to express the dimensions that characterize the geometry of the tanks, choose from:

- Millimetres
- Inches

- **Price enablement**

If this option is enabled, when creating a load movement, you will be asked to enter the total cost of the fuel purchased. This data is used to calculate the unit price of fuel, which can be viewed in the "Unit price trends" section (see *chapter 8.4*).

- **Supplier enablement**

Option to enable or disable supplier management within the Tank Watchdog add-on

- **Email enablement**

Option to enable emails notifying 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 button [Configure](#) button to configure the email sending options.

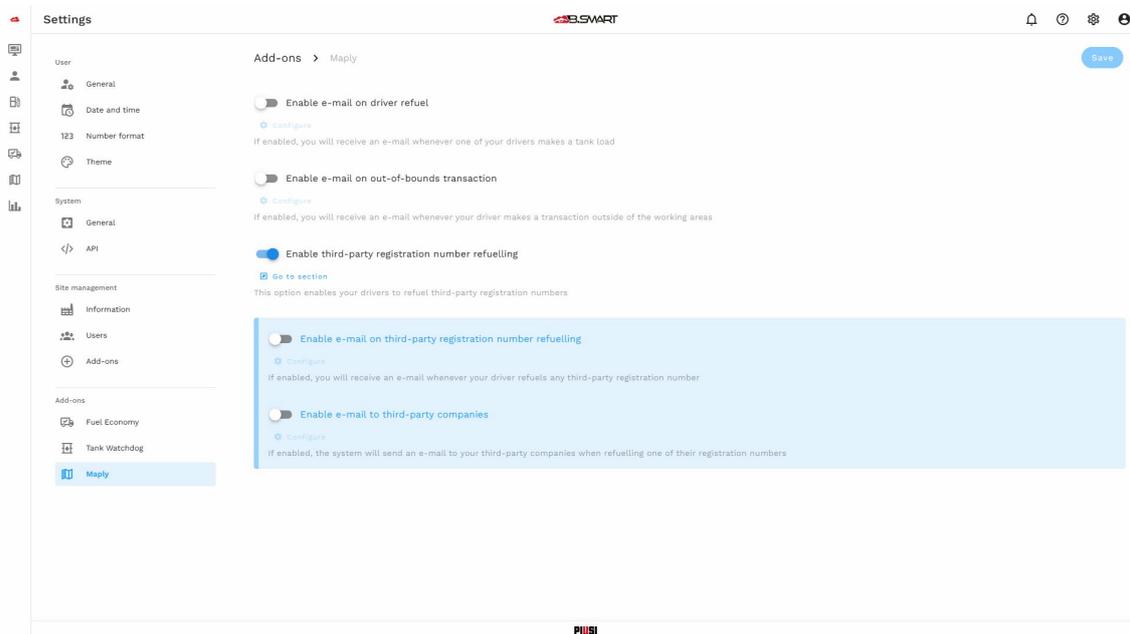
From this section, you can specify the information regarding the emails that are sent:

- **Email subject**
- **Recipients**
- **Email body**

In the body of the email, you can use shortcuts, which will be replaced with the actual values of the tank properties.

### 13.4.3. Maply

From this section, you can change the preferences of the Maply add-on:



- **Receive an email if your driver performs a transfer:**

By clicking on the button **Configure** button, you can set:

- The subject of the email
- Email recipients
- The body of the email
- Date format
- Now format
- Unit of measurement for quantities

- **Receive an email if your driver makes a delivery to a third-party registration number:**

By clicking on the button **Configure** button, you can set:

- The subject of the email
- Email recipients
- The body of the email
- Date format
- Now format
- Unit of measurement for quantities

- **Allow your operators to make deliveries to third-party registration numbers:**

If enabled, this allows you to manage the records of third-party companies and third-party registration numbers.

- **Send an email to third-party companies when a delivery is made to one of their registration numbers:**

If enabled, at the end of a delivery made to a third-party registration number, the driver can decide to send an email to notify the company that a delivery has been made to its registration number.

By clicking on the button  **Configure** button, you can set:

- The subject of the email
- The body of the email
- Date format
- Now format
- Unit of measurement for quantities

The email address of the recipient of these notifications can always be set by the driver; the address entered in the company's records is suggested as the default address.



### **Attention!**

To use this feature, you must enable receipt of receipts on the mobile app

- **Receive an email if your driver makes a delivery outside the operating area:**

If this option is enabled, for deliveries made outside the operating areas from devices with the "Delivery management" option set to "Report deliveries outside the operating areas" (see *chapter 6.2.5*), a notification email will be sent.

The email sent will contain information about the dispensing operation and the distance from the nearest area.

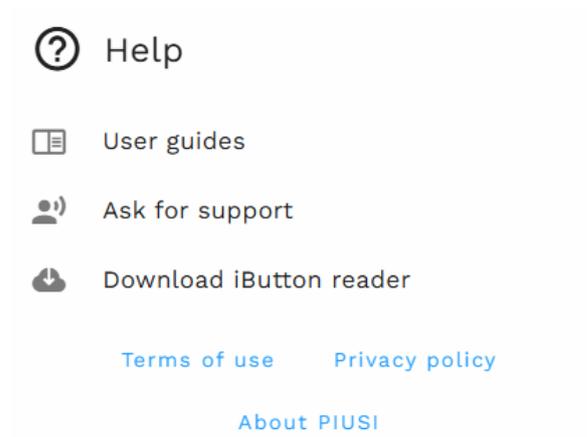
By clicking on the button  **Configure** button, you can perform the following actions:

- Configure the recipients of the email;
- Configure the language of the email content;
- View a preview of the email;
- Send a test email to verify that the recipients are correct.

## 14. SUPPORT

From the "Assistance" section, accessible from the  in the system header, you can perform various operations:

- Download manuals
- Request support (you will be redirected to the official PIUSI support page)
- Download the "*PIUSI iButton Reader*" tool



The screenshot shows a white dropdown menu with a light blue background. At the top is a question mark icon followed by the text "Help". Below it are three items: "User guides" with a document icon, "Ask for support" with a person icon, and "Download iButton reader" with a download icon. At the bottom of the menu are three links: "Terms of use", "Privacy policy", and "About PIUSI", all in blue text.

NOTE: The "*PIUSI iButton Reader*" tool

<https://wswebssm.piusi.com/ibuttonreaderpiusi/setup.exe> only works on Windows and can also be downloaded from the following link:

<https://wswebssm.piusi.com/ibuttonreaderpiusi/setup.exe>

There are also buttons to view:

- Web App terms and conditions
- Web App privacy policy
- Information about PIUSI

## 15. FAQ

- **How do I activate the Maply add-on?**

To activate the MAPLY add-on, you must have purchased a MAPLY add-on activation code. The code must be entered in the Add-On section (see chapter 8.3).

- **What features does the Maply add-on introduce?**

With the MAPLY add-on, you can:

- Geolocate dispenses and view them on a map.
- Track dispenses not only on your own vehicles but also on third-party vehicles.
- Group deliveries in defined areas, restricting their operability (geo-fencing).
- Manage the transfer from one storage tank to another (only if the Tank Watchdog add-on is active)
- Filter reports to show dispenses made in a specific operating 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 lack of the Fuel Economy add-on does not prevent the use of the features introduced by the Maply add-on.

- **Maply: how do I configure an operating area?**

Operating areas can be configured from the "Operating areas" submenu in the Maply add-on section (*for more information, see chapter 11.1*).

- **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 see where individual deliveries have been made, but does not include any functionality that allows you to record vehicle routes.

- **Can the Maply add-on settings be changed?**

You can always change the Maply add-on settings 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 address of a B.SMART Web App user?**
- **How can I add other users to the Web App?**
- **How can I enable a driver for dispensing?**

The driver must be associated with the desired dispenser to allow them to dispense from it.