SELF SERVICE MANAGEMENT 2.0

SOFTWARE

Main Software Installation,
Use & Maintenance Manual

SSM 2.0®
SELF SERVICE MANAGEMENT

GENERAL WARNINGS

IMPORTANT INFORMATION

For operators' safety and to prevent any damage to the distribution system or to hardware devices, the instruction manual must be fully read and understood before carrying out any operation on software applications for the Self Service Management 2.0 product range. The company rejects any responsibility due to malfunctions or damage coming from a missed or incomplete knowledge of this manual.

Storage of the manual

This manual must always be used as a reference for all topics. The final user and the skilled technicians authorised for installation, use and maintenance of the software must always be able to read it at any time.

Notes about validity

This manual was created with the utmost care. Nonetheless, involuntary omissions or inaccurate content or procedures might be present. PIUSI S.p.A. rejects any responsibility for the validity of the contents of this document or for changes it might undergo over time, for example with software and dedicated device updating and improvements. The illustrations provided mainly refer to the software configured in the English version and might not correspond to the displayed versions, also because of further version updates.

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Technical service

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Version of 03/2019

Warning

For a correct operation, the Self Service Management 2.0 system needs the following open ports through the firewall:

TCP ports: 1433, 1434, 4022, 135, 2383, 2382,12345,16789.
UDP ports: 1434, 12350.

The ports are usually open while installing the software.
In case of malfunctioning, ensure that the Firewall rules are configured in the right way.

CONTENTS

1. DESCRIPTION OF THE SELF SERVICE MANAGEMENT 2.0 SYSTEM

1.1. Overview

Self Service Management 2.0 is an integrated and dedicated system for controlling and managing refuellings in private stations.

The Self Service Management 2.0 components are:

1. SELF SERVICE MANAGEMENT 2.0 SOFTWARE, the software app handling from the desk, as well as data processing, which includes:

    - SERVER (SSM2SERVICE), the software dialoguing with each device without any intervention by the operator, collecting and processing continuously all system data and guaranteeing the information synchronisation.

    - CLIENT, the software to which users can connect for interfacing with the system and carrying out all scheduled operations and control both work and systems.

2. PIUSI FUEL DISPENSERS, a range of fuel dispensers 2.0 supported by software:

Self Service MC 2.0

MC Box 2.0

Cube MC 2.0 (with and without support)

Self Service MC ADBLUE 2.0

Self Service FM 2.0

Ocio 2.0

3. IBUTTON READER with MANAGER KEY: fuel dispenser management mode which does not imply wiring or connections with any type of network. In this mode the fuel dispensers are managed manually by loading and downloading the data with manager key.

IBUTTON PLAYER

MANAGER KEY

4. PW LAN, PW WIFI and PW MOBILE: network devices that allow fuel dispensers and Ocios to be connected to the site for automatic management.

PW LAN

To connect a single device (fuel dispenser or Ocio) to the LAN network of the system via Ethernet cable.

PW WIFI

To connect a single device (fuel dispenser or Ocio) to the LAN network of the installation via WiFi connection.

PW MOBILE

To connect one or more devices to the site via 3G/4G mobile network. A two-way “Machine to Machine” data SIM to be inserted in the PW MOBILE is required for correct operation. For the correct configuration of the device, consult the “PW Mobile Installation and Use” manual.

WARNING:

- *A single device (Ocio or fuel dispenser) may be connected to a PW LAN/ PW WIFI.*
- *Up to 5 devices (Ocios and fuel dispensers) may be connected to a PW MOBILE.*
- *OCIO 2.Os cannot be managed via manager key.*
- *Management with Manager Key is only supported on fuel dispensers with firmware version 100 or higher.*
- *Management with Manager Key is not supported on Self Service FM 2.0 type fuel dispensers.*

2. GENERAL CONVENTIONS

2.1 Symbols

The software interfaces have some icons with a recurring meaning, so that the user can use them easily and intuitively. For simplification purposes, the icons will be displayed and described into details only in this introduction of the manual, thereafter they will show only the short name.

Creation button:

ADD

This button is used to add a new element in the dedicated context. It can be a driver, a vehicle, a product...

CONFIRM

This button is used to confirm the entering or the modification recently made, saving new info in the database. The action can involve the closing of the concerned panel.

Cancellation buttons:

CANCEL

This button is used to cancel the entering or modification recently made, keeping the database in its original conditions. The action can involve the closing of the panel concerned.

RECYCLE BIN

This button is used to remove an element in the dedicated context. It can be a driver, a vehicle, a product, etc... If the operation is irreversible, its selection is always followed by a request: CONFIRM/CANCEL before approving the deletion.

Modification buttons:

MODIFICATIO N

This button is used to modify an element in the dedicated context. It can be data involving a vehicle, a driver or a product. Pressing this button, other functions are activated to make the required modification; a confirmation request will follow.

LOCK

This button is used to disable an element in the dedicated context. It can be a driver, a vehicle or a fuel dispenser. During disabling, the element cannot be used. The symbol of open lock corresponds to the condition of the element, that is "UNLOCKED".

UNLOCK

This button cancels the deactivation of an element occurred some time before; the system goes back to standard operation. The symbol of closed lock corresponds to the condition of the element, that is "LOCKED".

Utility buttons:

SEARCH

This button is used to make a search in the section of the software it was entered. It can be a driver, a vehicle, etc.

Other buttons:

EXTERNAL DISPENSE

This button can be reached through the driver panel and enables to open the menu for creating and entering a new external dispense.

NAVIGATION

The navigation buttons in the software enable to open or close sub-menus and navigate through some interfaces.

3. TECHNICAL SPECIFICATIONS

3.1. System versions and requirements

The Self Service Management 2.0 SOFTWARE can be purchased in four different models:

SELF SERVICE MANAGEMENT 2.0 ENTRY

Software sized for sites having

a number of fuel dispensers up to two
a number of Ocios up to 2
a number of drivers and vehicles up to 50 units

SELF SERVICE MANAGEMENT 2.0 ADVANCED

Software sized for sites having

a number of fuel dispensers up to four
a number of Ocios up to 4
a number of drivers and vehicles up to 250 units

SELF SERVICE MANAGEMENT 2.0 SUITE

Software sized for sites having

a number of fuel dispensers higher than 20
a number of Ocios up to 20
a number of drivers and vehicles up to 1000 units
Dashboard Drag & Drop.

The system min. requirements are:

Monitor resolution:	1280x700
CPU:	Intel® Pentium® 4 or AMD Athlon® 64 processor (2 GHz or higher)
RAM:	2 GB
Free space on Hard Disk:	20 GB
Operating system:	Windows VISTA SP2, Windows Server 2008 R2 SP1, Windows 7 SP1, Windows 8, Windows 8.1, Windows Server 2012, Windows Server 2012 R2, Windows 10
Database:	Microsoft SQL 2012 R2 SP2 Express (included in the installation)

ADDITIONAL REQUIREMENTS

- An internet connection is required for the software operation in WEB version, to activate the product and to ensure a constant update to new versions. It is recommended to connect the PC with the SERVER Self Service Management 2.0 software with a suitable UPS, to guarantee a stable and continuous operation also in case of electric power shortage.
- The software cannot be installed on a Windows server machine that acts as DOMAIN CONTROLLER.
- For correct use of a PW Mobile in the site, a PC is required with stable internet connection plus a two-way “Machine to Machine” SIM with active data plan to insert in the PW Mobile.

WARNING:

- *The system min. requirements might undergo changes over time, following the continuous development and improvement of the software.*

4. FIRST USE

4.1. Content of the kit and installation

The SELF SERVICE MANAGEMENT 2.0 software can be purchased in two different license types:

FULL - Complete with all functions and with the SERVER SELF SERVICE MANAGEMENT 2.0 component.

ADDITIONAL CLIENT - Combined with an existing FULL license, it can be used to run the CLIENT software on one more computer.

Both licenses are distributed as follows:

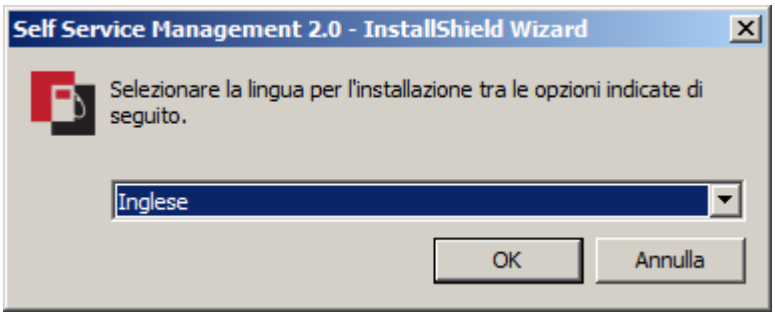
KIT WITH USB KEY - The software comes in a package with a single USB key for hardware filing. The USB key contains the installation file *setup.exe*. It is recommended to pay maximum attention to the filing of serial numbers written on the labels of the package and on the USB key. Note that the software can be used only when the USB key is connected to the PC.
Do not tamper with or remove the content of the key.

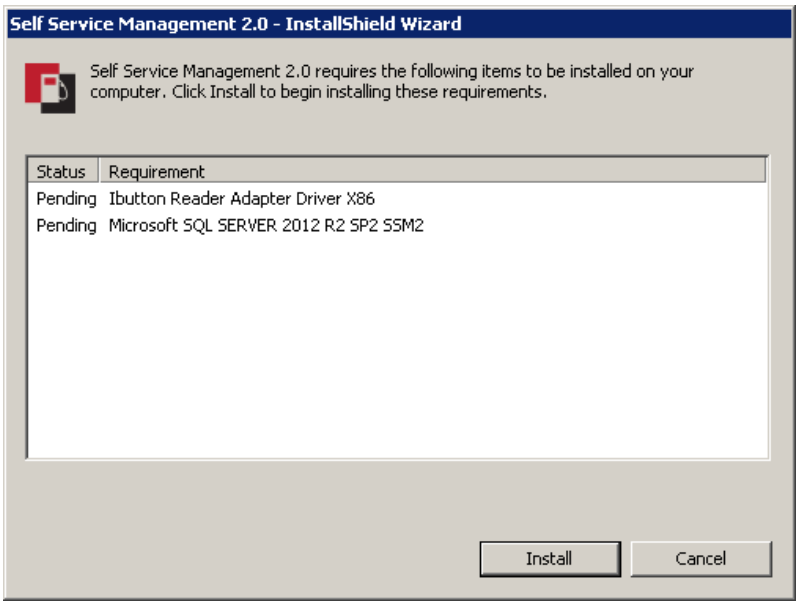
KIT WITH WEB DOWNLOAD – the software is supplied through the service portal of the PIUSI client. Accessing the services for the clients in the web site piusi.com, you can download the installation kit and manage the relevant use licenses and activation codes.

4.2. FULL License Installation

If you have the FULL package, run the setup.exe file it contains to proceed.

SELECT THE INSTALLATION LANGUAGE
Choose the language for displaying the installation procedure.



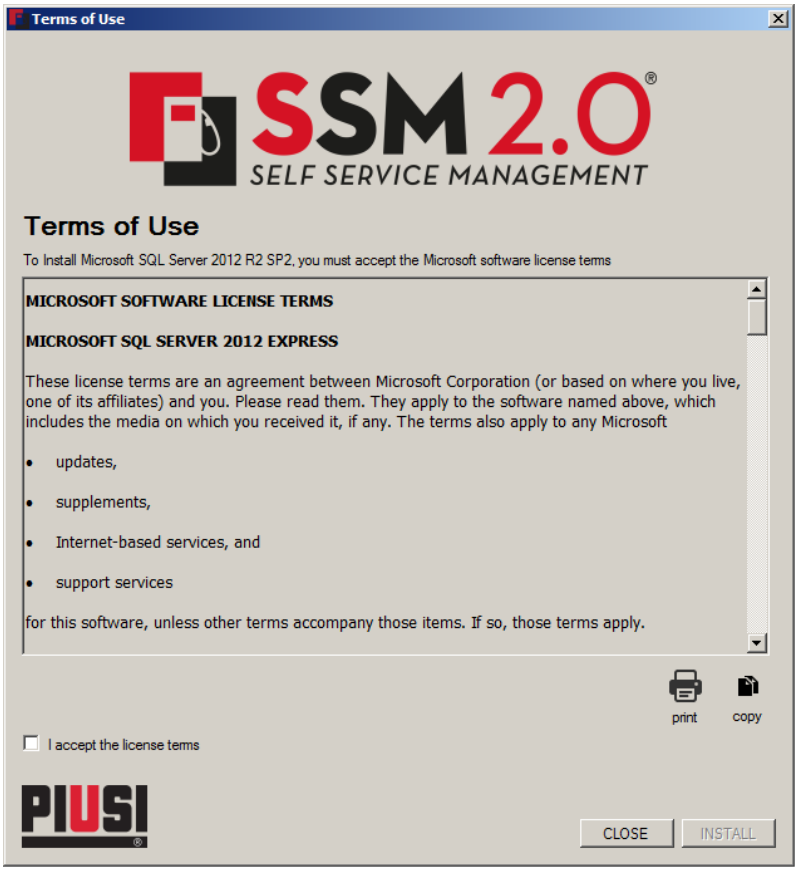


REQUIREMENT CHECK

When the procedure is started, the requirements necessary for the correct use of the software are checked; the software requires the installation of the iButton reader drivers and the installation of Microsoft SQL Server 2012 R2 SP2 Express.

MICROSOFT SQL SERVER 2012 R2 SP2 INSTALLATION

Accept the use conditions of Microsoft SQL SERVER 2012 R2 SP2 Express to install the PIUSI database necessary for using the software. The installation may require a few minutes.

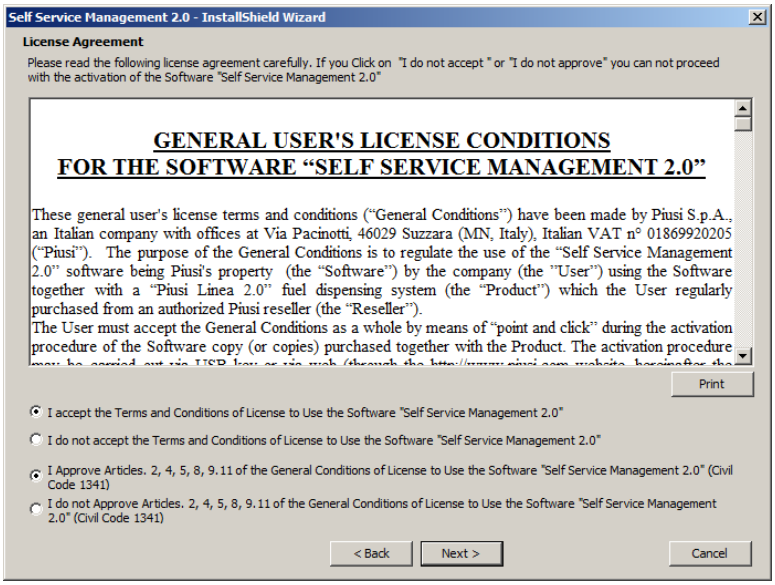


INSTALLATION START

The following screen informs the user about the installation operations he/she is going to authorise. Press FORWARD to continue or CANCEL.

GENERAL USER'S LICENSE CONDITIONS

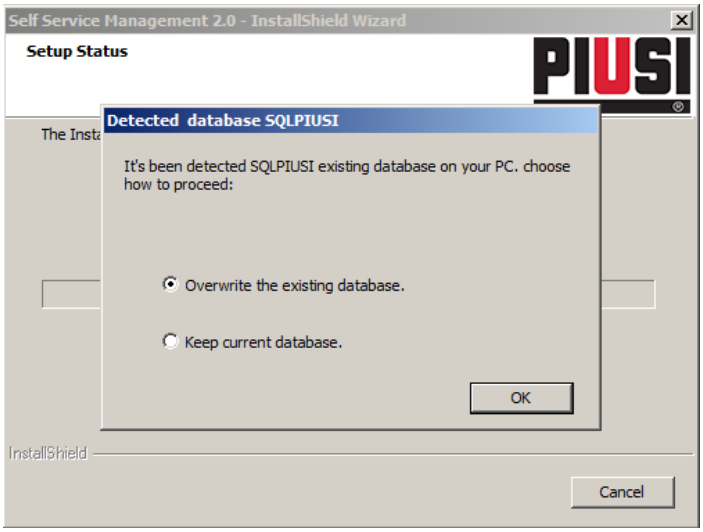
Read the terms of the General User's License Conditions for Self Service Management 2.0 software. To continue installation, you need to accept the conditions and approve the articles as required.



INSTALLATION START

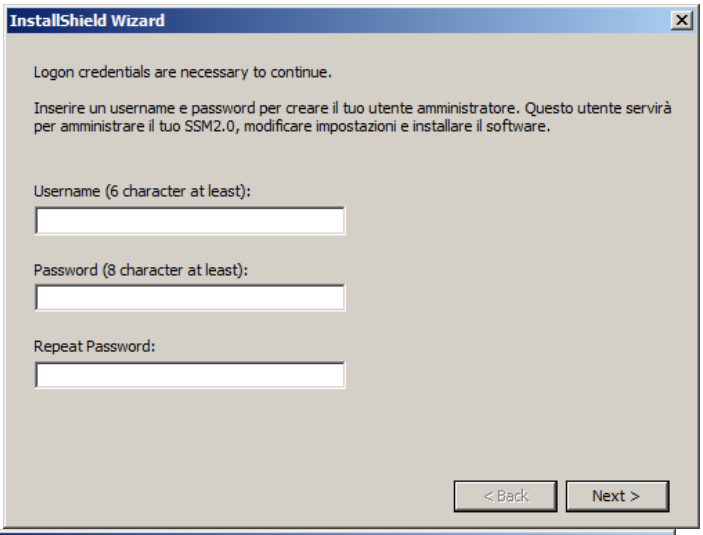
Confirm the selections to continue with the final installation and file copy.

In case of a future installation of Self Service Management 2.0 you need to decide if you want to keep the current database or restart with an empty one. Caution, if you want to overwrite the previous database and load a new, empty one, all previous data is lost and can be recovered only through a backup.



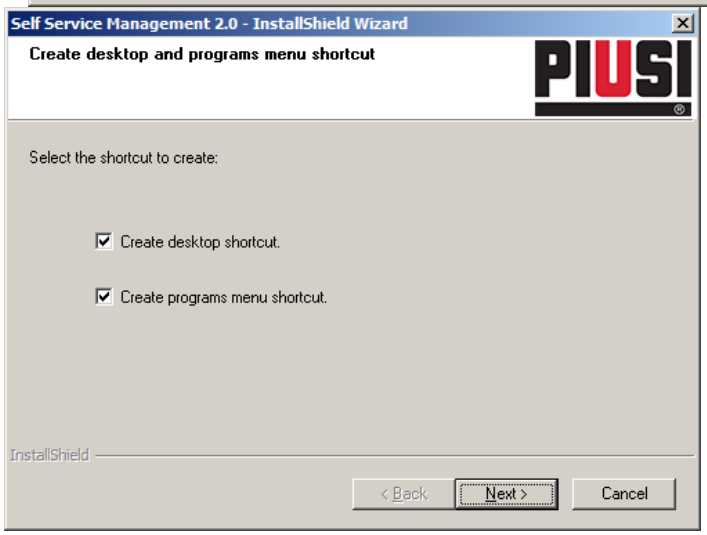
CREDENTIAL LOGON

Provide a username and a password for the administrator to be used as credentials at the logon for the startup. Other users can be easily created after accessing the software.



SHORTCUT PREFERENCES

Define which software shortcuts you want to create in your site.



CONFIRM INSTALLATION AND RESTART

After the procedure, the interface confirms the operations asking the user to restart the computer before running the program. It is always advisable to restart the PC at the end of the installation process.

NOTE: Software can be uninstalled using the OS functions. To uninstall the software, just press control panel -> Programs ->Uninstall a program.

4.3. ADDITIONAL CLIENT License Installation

If you install an ADDITIONAL CLIENT License the procedure is simpler than the one for installing a FULL license. This is the procedure:

INSTALLATION INFORMATION
The screen informs the user about the installation operations he/she is going to authorise. Press FORWARD to continue or CANCEL.

GENERAL USER'S LICENSE CONDITIONS
Read the terms of the General User's License Conditions for Self Service Management 2.0 software. To continue installation, you need to accept the conditions and approve the articles as required.

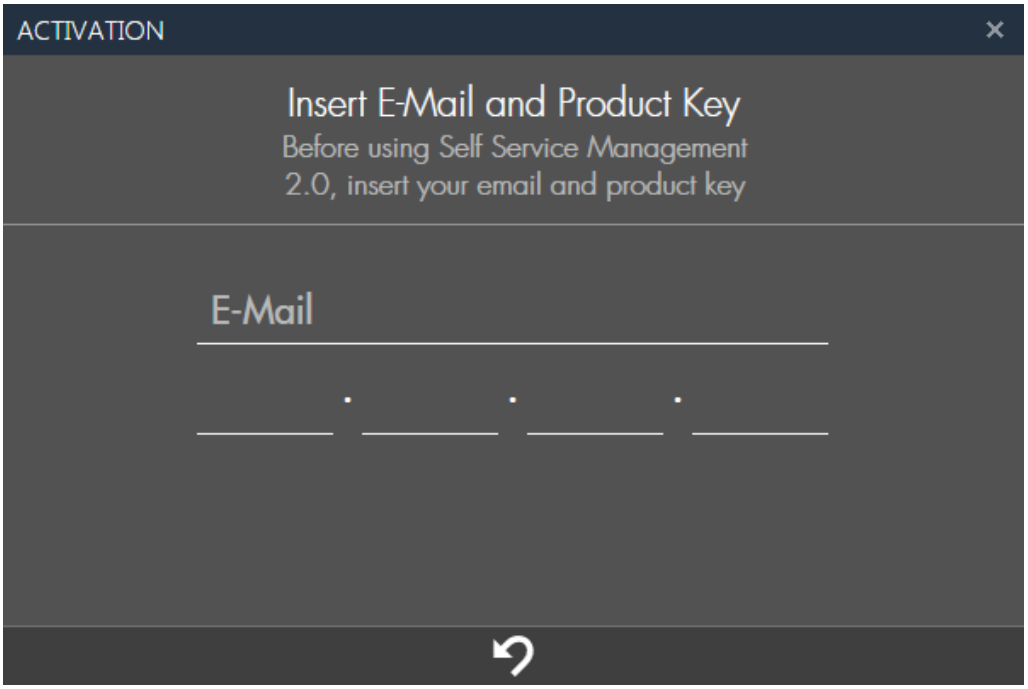
INSTALLATION START
Confirm the selections to continue with the final installation and file copy.

SHORTCUT PREFERENCES
Define which software shortcuts you want to activate in your operating system.

CONFIRM INSTALLATION AND RESTART
After the procedure, the interface confirms the operations asking the user to restart the computer to run the program. It is always advisable to restart the PC at the end of the installation process.

4.4 First activation

Once installed, run the software using the icon on the desktop. At the first activation, the product code and the e-mail used for registering the product on the portal are requested. See illustration below:



The code to be entered is printed on the pack for the USB key version

Otherwise, it is e-mailed for the WEB version

4.5. Configuration in 10 steps

After installing the software, to configure the system and make it operative for standard daily activities, a series of preliminary activities must be performed, in the following order:

1. LOGIN and SEARCH FOR THE SQL INSTANCE (see chapter 5) – At the first activation, the user authentication screen is displayed. Enter the administrator credentials specified during the installation procedure. In case of ADDITIONAL CLIENT software version, before accessing the system make sure to have automatically searched for the SQLPIUSI instance.

2. BASIC PREFERENCE SETTING (see chapter 13.2) - Enter the section to set the preferred language and the units of measurement.

3. SUPPLIER DATA ENTRY (see chapter 7.3) - Access the FLUIDS section and set a new supplier in the right panel.

4. PRODUCT ENTRY (see chapter 7) - Access the FLUIDS section and create the products that the site will handle.

5. TANK ENTRY (see chapter 8) - Access the TANK CONTROL section and create a new tank, adding the dimension and the fluid it contains.

6. SEARCH FUEL DISPENSERS/OCIO (see chapter 11) – Access the SITE section and press the button DISCOVERY SITE to start the automatic search for the devices connected to the site (make sure to have correctly networked all fuel dispensers and Ocios before proceeding).

7. DRIVERS ENTRY (see chapter 9) - Access the DRIVERS section and login every driver working in the site, with relevant personal details (remember the limits on the number of drivers according to the license type).

8. VEHICLES ENTRY (see chapter 10) - Access the VEHICLES section and login every vehicle in the site, with relevant personal details (remember the limits on the number of vehicles according to the license type).

9. PRODUCT ACTIVATION (see chapter 14.2) - Make sure the internet connection is working and activate the product by entering the software INFO section. The product activation is required to receive new updates.

5. LOGIN AND INTERFACE

5.1 Login

To access the software, double click on the icon of Self Service Management 2.0 on the desktop. After a few seconds, the login interface on the right is displayed.
Enter your personal details: username and password, then press Enter in the keyboard or LOGIN button.
In case of additional client, before logging in search for the SQLPIUSI instance in the network. The instance is configured on the machine where the FULL version of Self Service Management 2.0 is installed.

The "Remember me" button can be used to help the user to remember the password while logging in. The password reminder is valid from the second login.

WARNING:
The simultaneous access of the same users from different computers is not allowed.

5.2. Introduction to the interface

The interface of the Self Service Management 2.0 Software has been developed to offer a simple utilisation experience, to improve daily work without complicated manoeuvres. The basic parts to know before reading the manual in all its sections are the following:

To know them into details:

A. HEADING - shows the company logo and, on the right side, the INFO button used to enter the sub-menu for displaying the software version and license information, activating the product and checking for new updates (see chapter 14). The HELP button for consulting the software user manual (the manual can be opened by pressing the F1 button on the keyboard). The bar for navigating between menu and sub-menu, as well as for scrolling among the open sub-menus, is always visible.

   Navigation bar:

   In sequence you can see:
   - main menu.
   - current sub-menu.

B. MAIN MENU - The menu on the left is a fundamental part of the software, used to scroll through its functions. Let's now analyse all items starting from the top:

- DASHBOARD – the menu item to access the system dashboard, with several configurable widgets summarizing the system operating condition.
- FLUIDS - the menu item to access the product handling system, where the site products can be entered, modified, removed. In the same menu the SUPPLIERS of the site products are managed through a pop-up submenu on the right.
- TANK WATCHDOG - the item of the menu gives access to the handling of the tanks, where you can enter, modify, remove and monitor the site tanks.
- DRIVERS - the item of the menu to give access to the site driver personal details, where you can add, modify and remove the drivers.
- VEHICLES - the item of the menu to give access to the site vehicle details, where you can add, modify and remove the vehicles. On the right of this section there is a further sub-menu where the vehicle categories can be managed.
- SITE - the item of the menu to reach the site managing, where the Ocios and the fuel dispensers connected and monitored in real time are indicated. In this section you can search in the network for the Piusi devices of line 2.0 and configure them carefully.
- REPORT - the item of the menu to access the site reports, where you can display reports on the supplies, consumption, the trend of prices and tank levels.
- CONFIGURATION - the item of the menu to access the software sections to be configured, to change language, units of measurement, to enter the site owner personal details, handle the data about the program users and program the database backups.

C. FOOTER – the program footer showing:

- server status

server on and perfectly working

server off.

WARNING:
For the correct operation of the system the server must be always on; if the server remains off for a too long time incorrectly, check that the SSM2SERVICE system service is present and active.

- the name of the connected user - name of the user authenticated for the current section.

D. MAIN SECTION - The main section displays the selections made through the side menu. Its content is available in the following chapters.

6. DASHBOARD

6.1 Overview

The section DASHBOARD is accessed by pressing the menu icon on the side and is a summary dashboard containing the data statistics on the site, the drivers and the vehicles. The dashboard consists of sections that in their turn contain widgets (up to max. 24). Widgets are graphic elements each with a specific task (described in details in chapter 6.4).

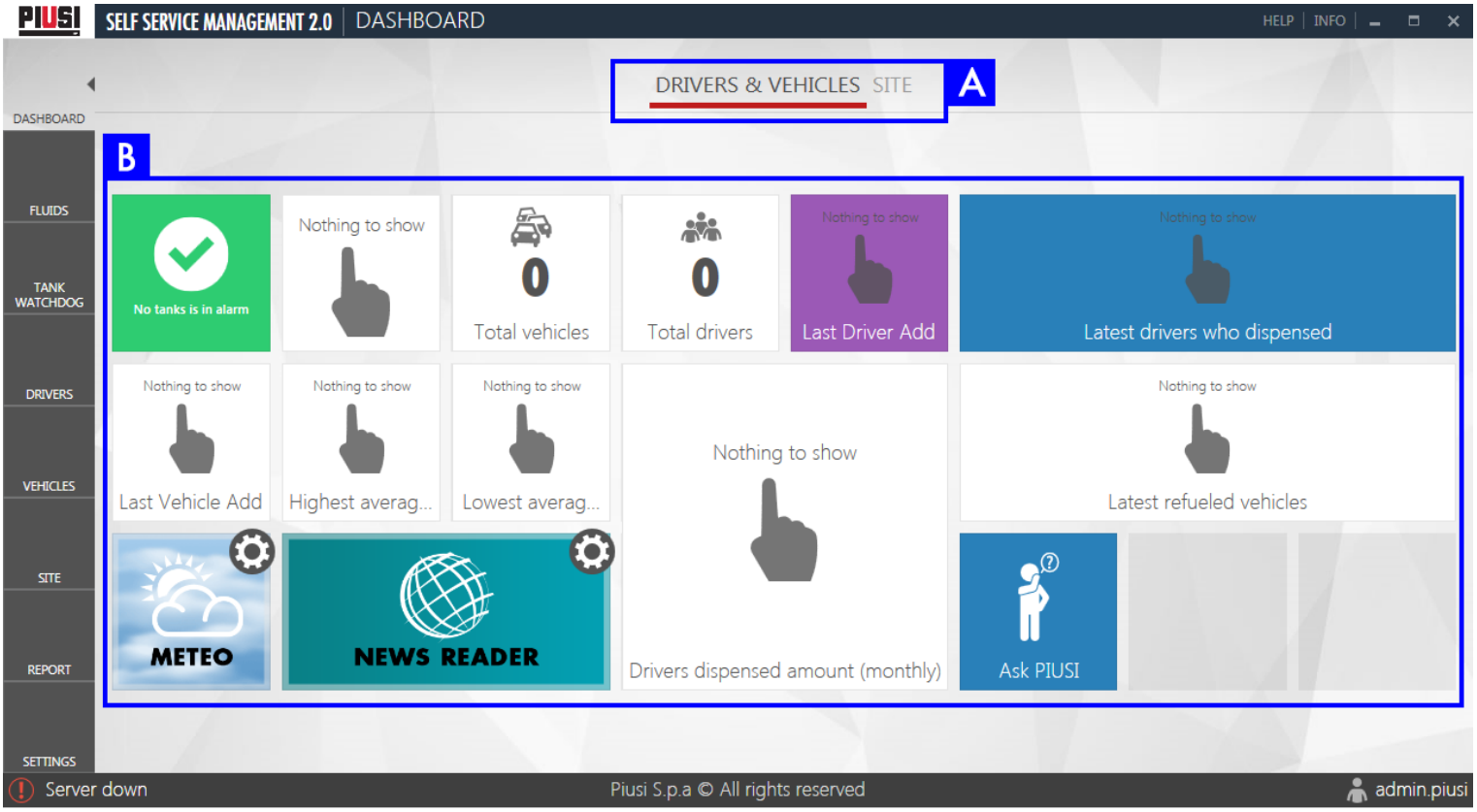
There are two different types of dashboard (according to the purchased license):

- Preset (static) dashboard – the preset number of sections is two and the type and position of the widgets inside each section cannot be modified.
- Dashboard that can be personalized with Drag & Drop (available only with Enterprice and Ultimate licenses) – More sections can be added and the position and type of widget inside each section can be changed.

WARNING:

- *The structure of the dashboard (section number and type) and the configuration of each widget are personal for every user enabled to use the program.*

6.2 Preset dashboard



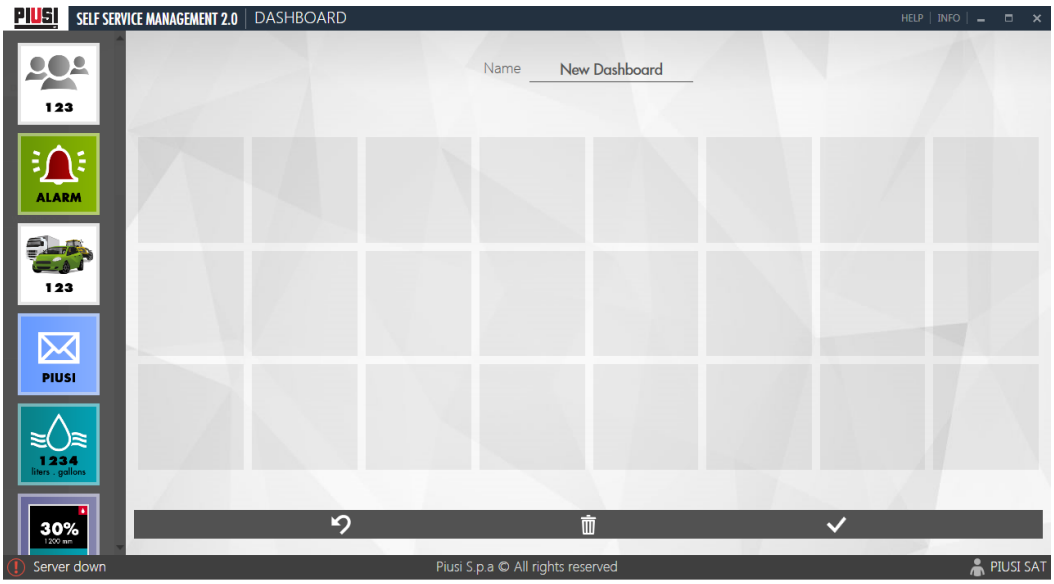
In detail:

A. PRESET SECTORS – List of the preset dashboards containing already positioned widgets.
B. DASHBOARD - it contains all widgets of the section. Some widgets need to be configured for operating, press the ⚙ button to enter the widget configuration menu.

6.3 Personalised dashboard (Drag & Drop)

In detail:

A. SECTIONS – List of all dashboards available and created by the user. Using the button you can enter the modification panel where you can modify or remove the widgets inside the section.
B. ADD NEW SECTION – Pressing the button you can create a new section, personalizing the position and type of widget the dashboard must contain.

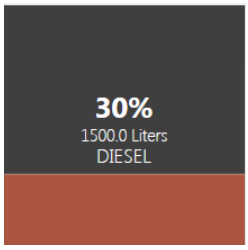
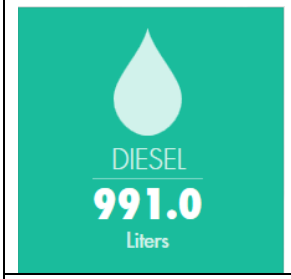


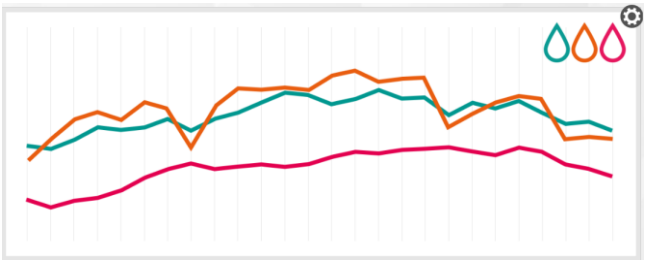
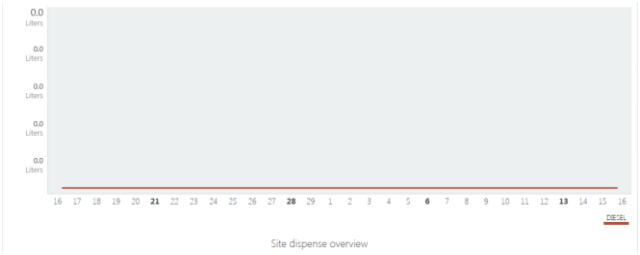
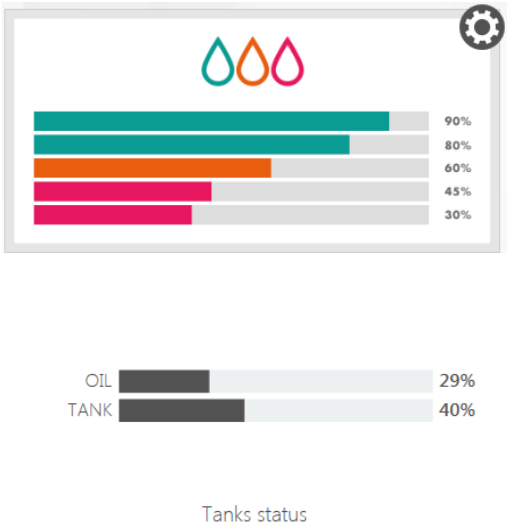
On the left, the panel with all available widgets to be positioned. Drag from the left menu and drop the chosen widget in the grid. Confirm to save the new dashboard configuration.

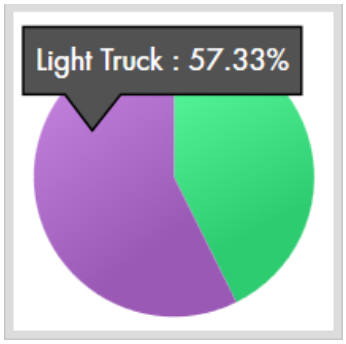
C. DASHBOARD – it contains all widgets of the section. Some widgets need to be configured for operating, press the button to enter the widget configuration menu.

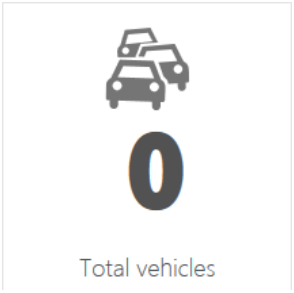
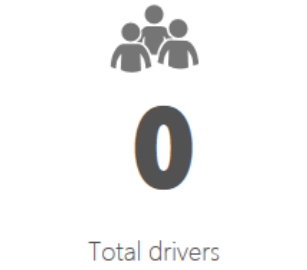
6.4 WIDGET

The detailed list of all available widgets is here below:

WIDGET	DESCRIPTION
Tank alarms   	The tanks in alarm are indicated. The widget is shown in green if no tank is in alarm, while if an alarm is activated it becomes red and shows the names of the first three tanks in alarm.
Tank with the lowest fluid level  	It shows the tank with the lowest level among the configured ones in real time . If there is no tank in the site, the widget does not show anything.
Fluid quantity in the site  	It shows the total quantity of a selected fluid in the site. The widget must be configured, indicating which fluid must be monitored.

Fluid quantity supplied in a temporal range  	It shows a graph representing the fluid quantity supplied in the site (inside and outside supplies) during a temporal range chosen by the user (Last 7 days, Last 30 days or Last year). Max. three fluids can be selected. The widget must be configured.
Estimated tank empty date 	It shows max. 3 tanks almost empty with their name and their estimated empty date. The estimated empty date is based on level samples taken from the tanks over time.
Tanks status 	It shows the status of max. 5 tanks among the configured ones, indicating their name and liquid percentage volume (in decreasing order by volume). The widget must be configured, indicating which tanks must be monitored.

Fluid quantity supplied for each vehicle category 	The pie chart shows the fluid quantity supplied by each vehicle category (inside and outside supplies). Scrolling the mouse over the slices you can display which category has supplied and the related percentage.
Feed News 	You can enter a connection to an external RSS feed to read the news directly from the widget. The widget must be configured, entering the web address of an RSS feed source.
Ask Piusi 	Pressing the widget you are re-addressed to the Piusi web page to contact the service.
SSM2.OCLOUD 	Pressing the widget opens the SSM 2.O CLOUD configuration manual.

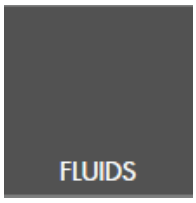
Total vehicles in the site 	It shows the current number of vehicles in the site (enabled and disabled).
Total drivers in the site 	It shows the current number of drivers in the site (enabled and disabled).
Last driver add 	It shows the last driver that has been added in the site, showing his Profile picture. Scrolling the mouse over the widget you can display the name, address and entry date.
Latest drivers who dispensed 	It shows the Profile pictures of the latest drivers who dispensed, with the name and date/time of refuelling (both inside and outside supplies).

Last vehicle add  	It shows the last vehicle that has been added in the site. Scrolling the mouse over the widget you can display its model, number plate and entry date.
Highest average consumption vehicle  	It shows the highest average consumption vehicle. Scrolling the mouse over the widget you can display its model and number plate.
Lowest average consumption vehicle  	It shows the lowest average consumption vehicle. Scrolling the mouse over the widget you can display its model and number plate.
Drivers dispensed amount in the last 30 days	It shows the list of the first 13 drivers dispensing in the last 30 days, with their name, surname and total dispensed amount.

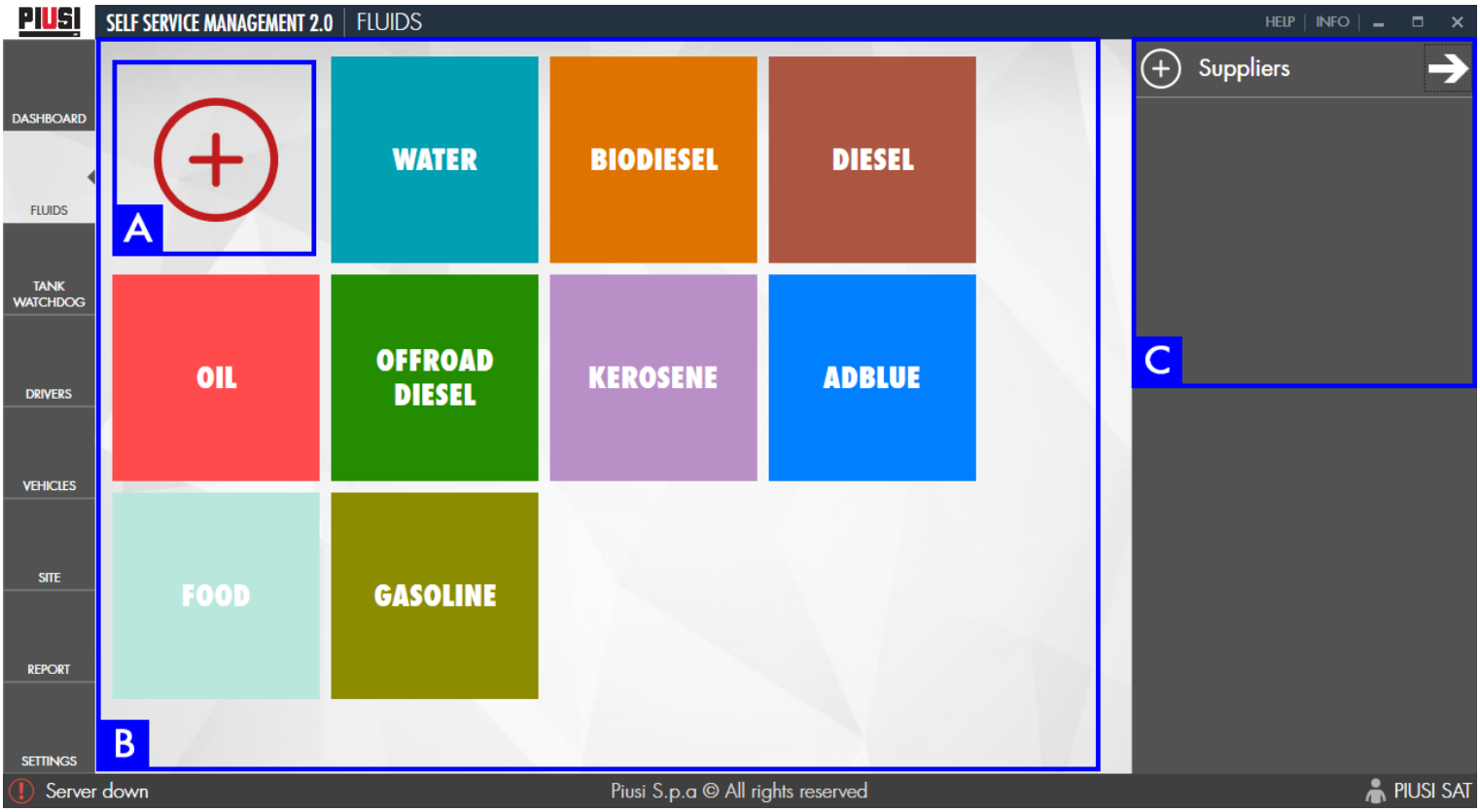
 Drivers dispensed amount (monthly)	
Latest refuelled vehicles  Latest refueled vehicles	It shows the latest 3 refuelled vehicles (both for supplies inside the site and outside the site).

7. PRODUCTS

7.1 Overview



The FLUIDS section can be accessed by pressing the menu icon shown beside. This is the area where the site products are managed. From here, you can add, modify and remove products from the site. In this same section, the product supplier personal details are handled.



In detail:

A. PRODUCT ADDITION BUTTON - this button is used to add a new product to the site.
B. LIST OF PRODUCTS - list of all products added to the site. Standard products are loaded by default in the software.
C. SUPPLIER HANDLING PANEL - pop-up panel displaying the suppliers added to the site.

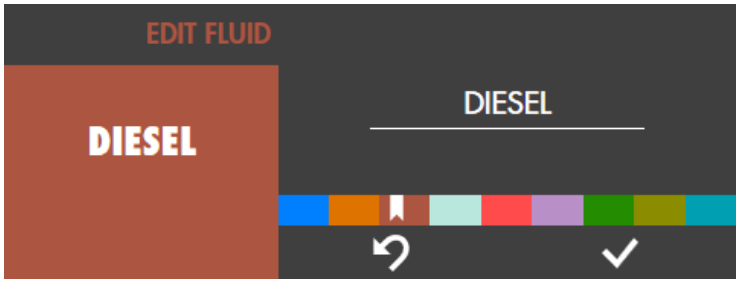
WARNING:

- *The site already contains the AdBlue product (it cannot be removed or modified) which must be used associating it to a tank, if a Self Service MC ADBLUE 2.0 fuel dispenser is bought. This product is labelled to be used as AdBlue, any other product created and used as AdBlue cannot be added when mixed with the content of the Self Service MC ADBLUE 2.0 fuel dispenser.*

7.2 Product addition, modification and cancellation

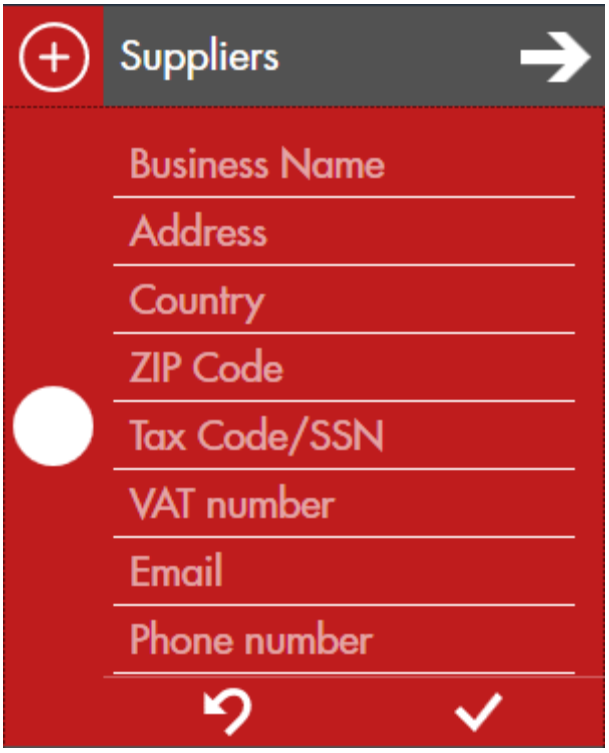
The panel for adding a new fluid, on the right of the screen, permits to enter a new product. You need to enter:

- **Name** - identification code of the product
- **Colour**



After creating the product, you can use the panel on the right to enter the modification procedure or to cancel the entered product (only if it is not associated to a tank).

7.3 Supplier addition, modification and cancellation



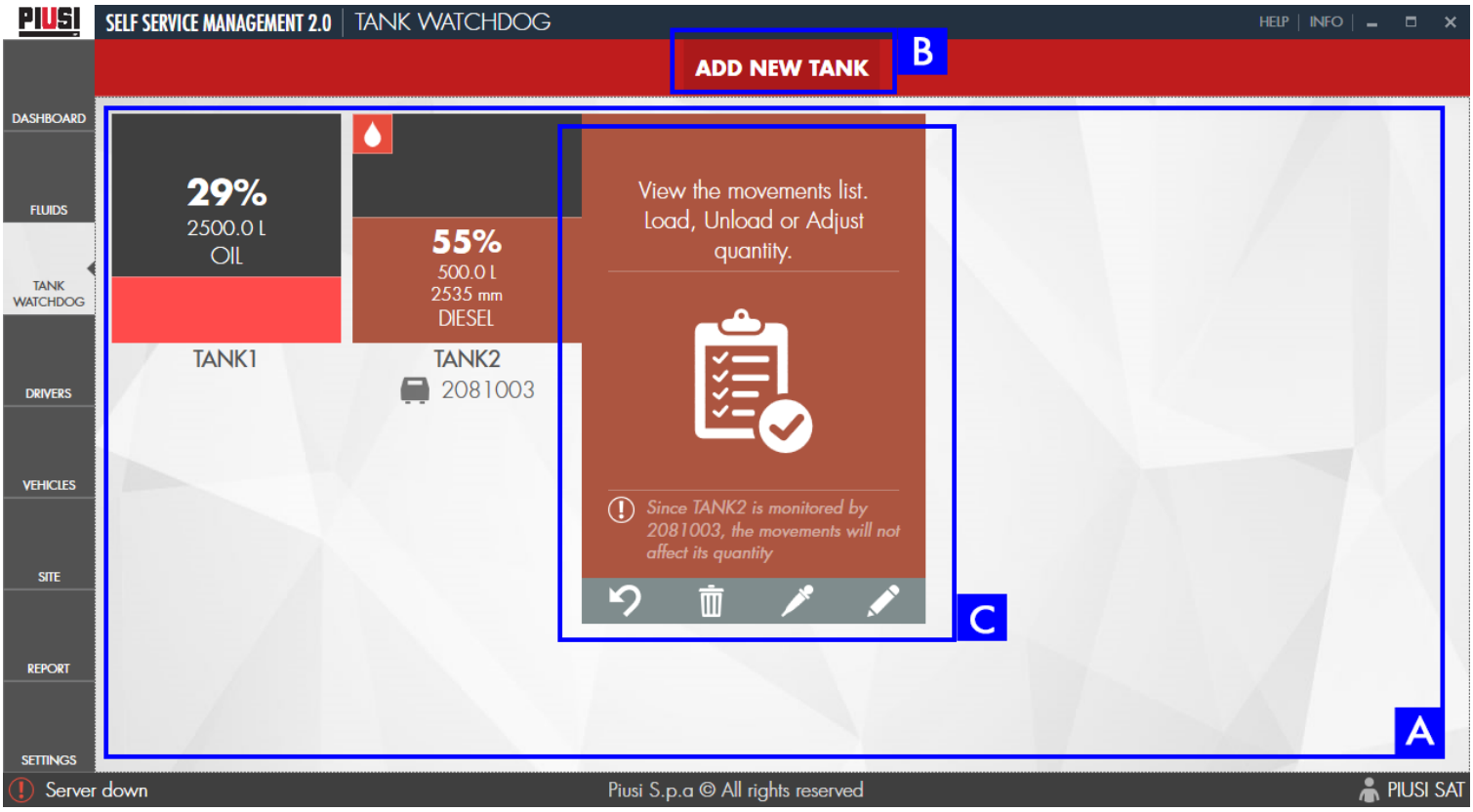
The panel for adding a new supplier, on the right, permits to enter a new supplier of products to the site. It can be accessed from the right submenu in the fluids section. In case of new addition, you need to enter:

- Company name (mandatory field)
- Address (mandatory field)
- Country
- Postcode
- Tax code
- Tax identification number (mandatory field)
- Email
- Phone number

8. TANK WATCHDOG

8.1 Overview

The tank watchdog section, that can be accessed pressing the icon of the menu shown to the side, can be used to describe and manage any tank of the site. It has a simple interface to monitor in real time the exact quantity of fuel left and handle the product for each tank.



In detail:

A. LIST OF TANKS - list of tanks added in the site. The tanks monitored by Ocio can be recognised by the  icon under the tank name.

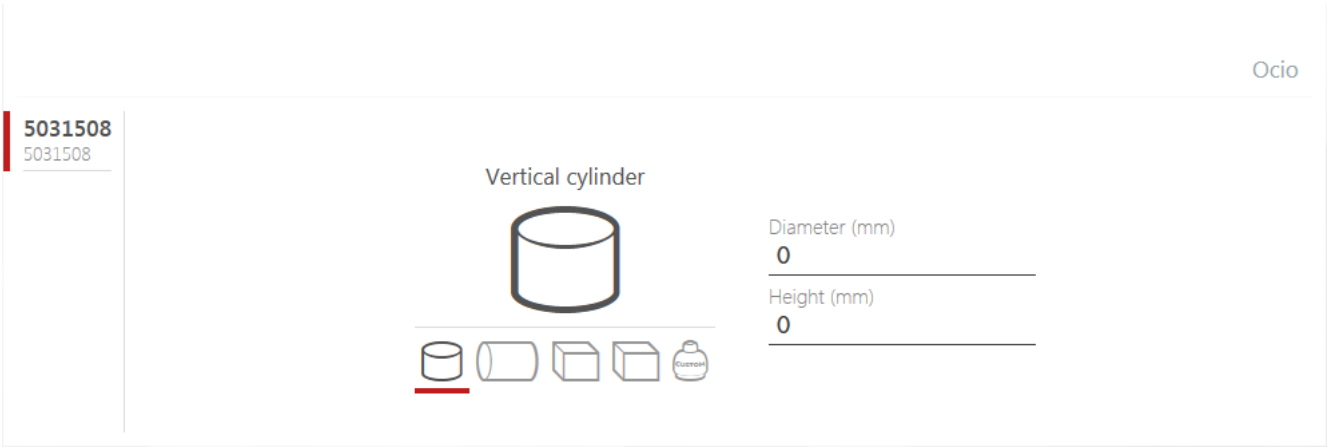
B. ADD NEW TANK BUTTON - this button is used to add a new tank to the site.

C. MODIFY TANK PANEL - this panel is used to enter tank modification, tank cancellation and display tank movements.

8.2 Tank addition, modification and cancellation

Pressing the "New Tank" button in the tank section, the page for adding a new tank will be displayed, as shown on the right. In this template you need to enter:

- **Tank name** - identification of the tank.
- **Monitored tank** - indicate if the tank is monitored by an Ocio. In this case, the device must be configured.
- **Tank capacity** - if the tank is not monitored, indicate the max. capacity of fluid inside the tank.
- **Location** - tank installation position.
- **Product** - fluid inside the tank.
- **Ocio parameter configuration** - if the tank is monitored, it is necessary to choose which Ocio monitors it and indicate:



- **Tank shape** – cylinder or parallelepiped or customised shape (See chapter 8.4).
- **Tank dimensions** – height, width or depth
-

WARNING:

- *Ocio is designed to monitor a tank with the following max. dimensions: 4 m height and 30 m width/depth.*
- *The maximum capacity of an unmonitored tank can be set to:*
  - *65,000 litres/gallons if the fuel dispenser connected to the tank has a firmware version lower than release 137.*

- *650,000 litres/gallons if the fuel dispenser connected to the tank is updated with a firmware version higher than release 137.*

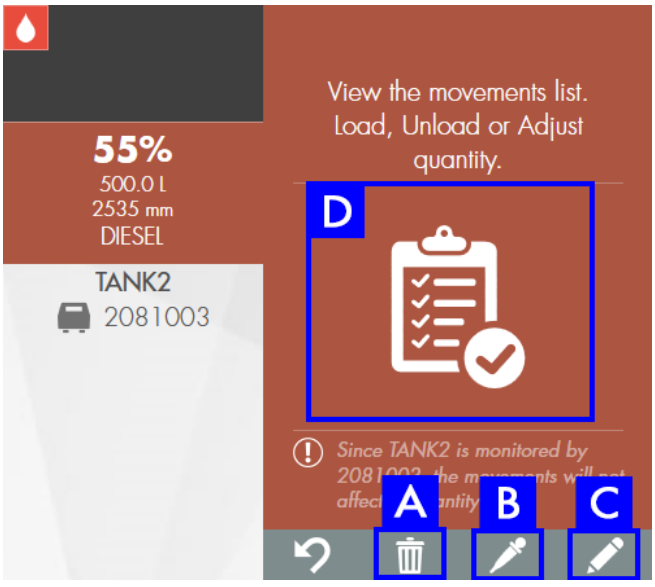
- Tank alarms -
  1. **Level type** - The alarm activates if the level (shown as a percentage) of the fluid is above (high time) or below (low time) the set value.
  2. **Action** - to be performed in case of active alarm. Mode:
     - **Notification** - the display of the device occasionally shows "Caution alarm" and dispensing can continue without problems.
     - **Pump cut-off** – the alarm and cut-off flashing warnings are shown in the device display, thus preventing dispense. Once the level of the fluid in the tank falls within the preset safety levels, dispensing can resume as usual.

WARNING:

- *The hardware alarms, that is alarm warnings coming from external devices connected to the fuel dispenser inlets, override software alarms.*
- *Should the fuel dispenser show an alarm during dispensing, the actions from the alarm - i.e. the notification and the pump cut-off - will be notified by the device only when the dispensing in progress ends.*
- *The PC on which the Server is installed must always be on, so that the site is always monitored. If the site is not monitored, the Software alarms and their status will not be managed.*
- *The software alarms and corresponding actions (notification and pump cut-off) do not affect the fuel dispensers managed with the Manager Key because they are not connected to the site.*

After adding the tank, its features or its movements can be modified through the modification panel, as shown in the illustration on the right. Through the panel you can:

A. Remove tank (only if it is associated to a fuel dispenser or monitored by a Ocio).
B. See level sample reports (see chapter 12.5).
C. Modify the tank.
D. Enter the tank movement section.

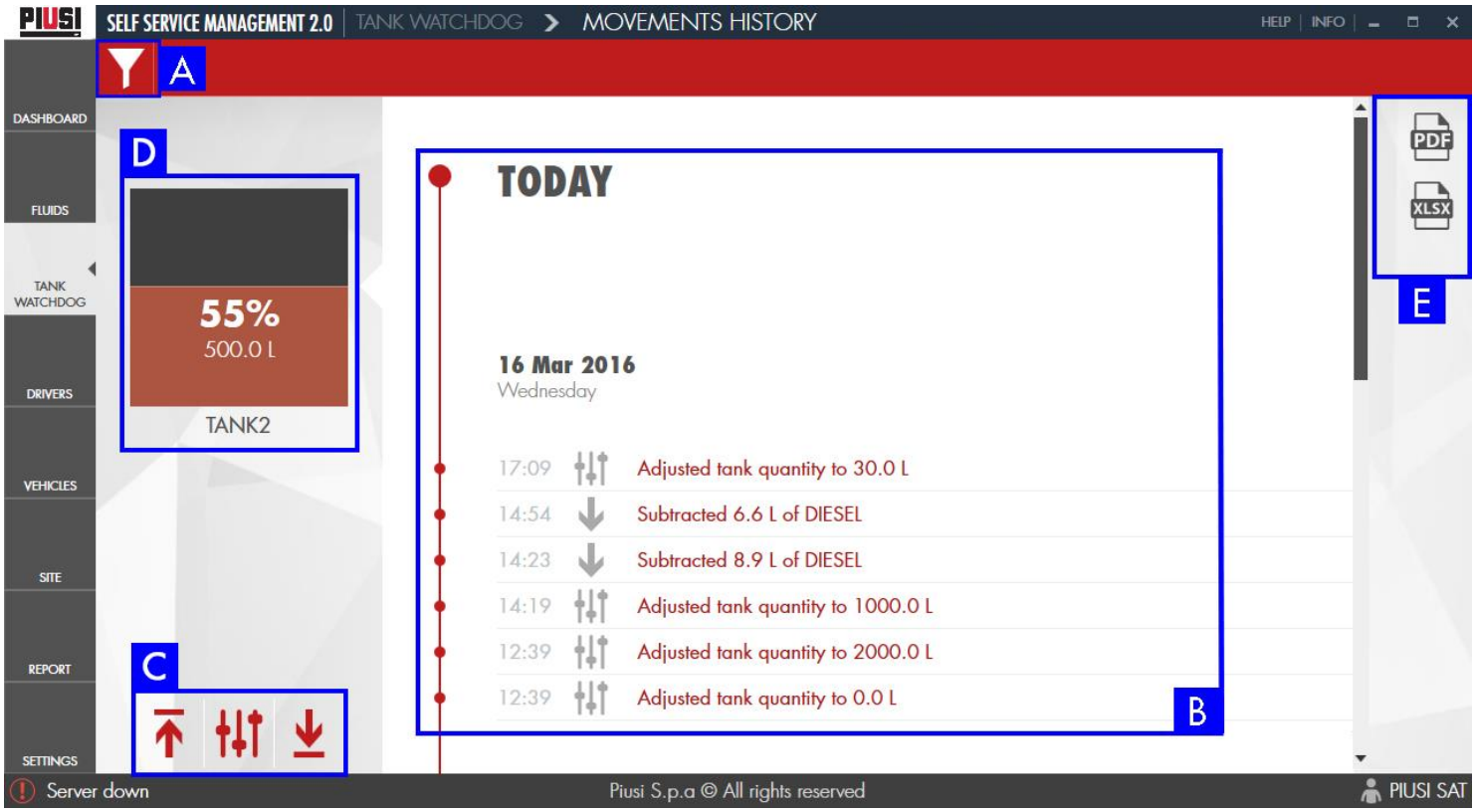


WARNING:

- *All movements registered for a tank monitored by Ocio do not influence the total amount of product inside the tank.*

8.3 List of tank movements

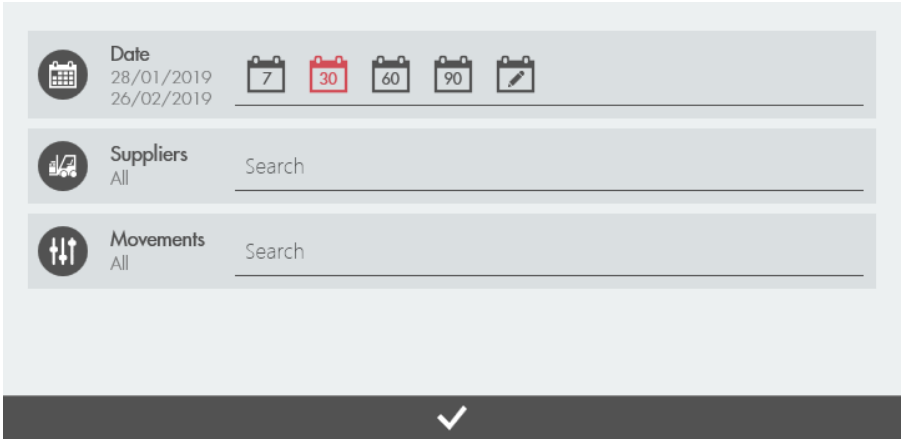
Pressing the icon from the panel of each single tank, you enter the section of tank movements. From this section, you can display and add all fluid movements as filling, draining and adjustments of the fluid, performed on the tank during a specified temporal range (7, 30, 60 days or using a customised range).



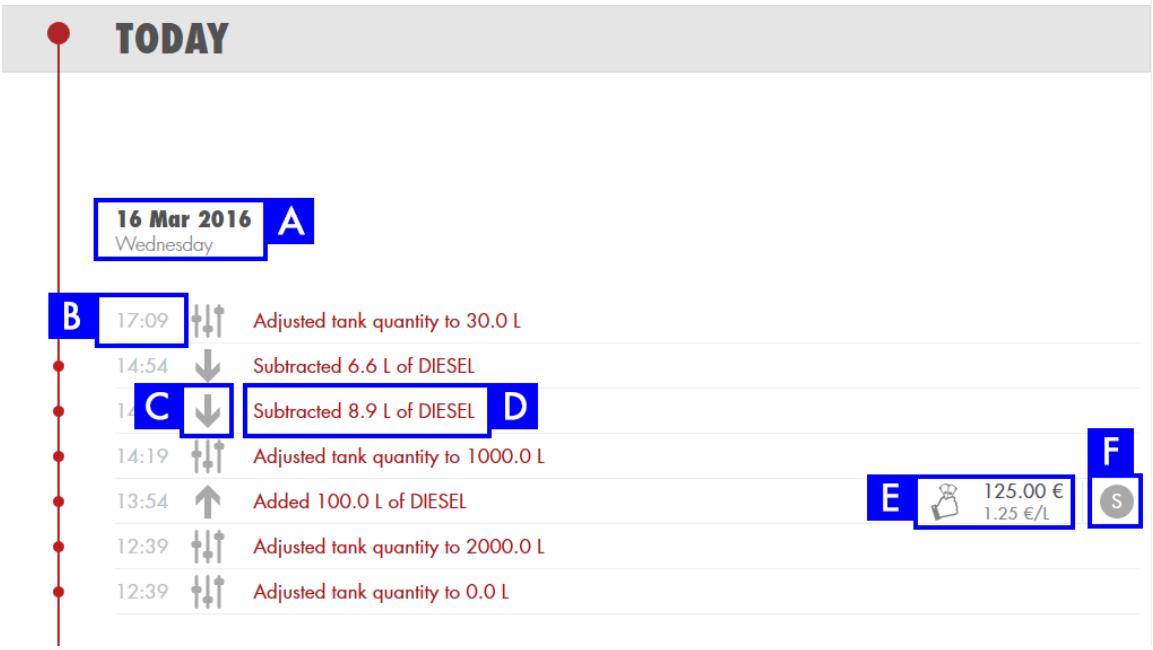
In detail:

A. FILTER MOVEMENTS - the button opens a panel from which you can select the filters to be applied to the movements of the tank. It is possible to filter by:
    - Three predefined time intervals (7, 30, 60 days) or for a custom time interval.
    - Product supplier.

- Type of movement - LOADING, DISCHARGING, ADJUSTMENT or discharging of liquid due to a calibration dispensing operation.

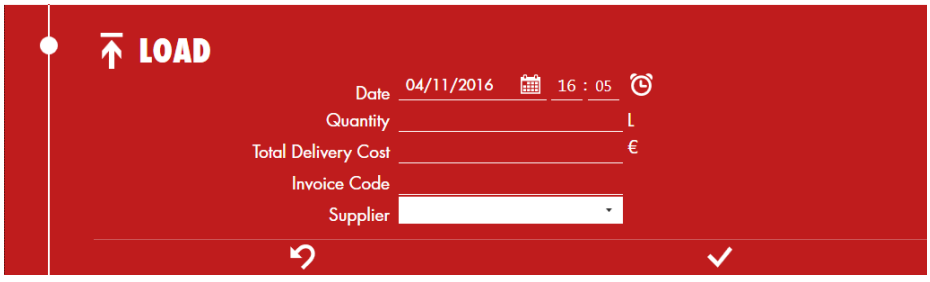


LIST OF MOVEMENTS - temporal list for all loads, unloads and adjustments of the fluid in the tank. All handlings are organised by day and ordered by date/decreasing time. Each handling is like this:



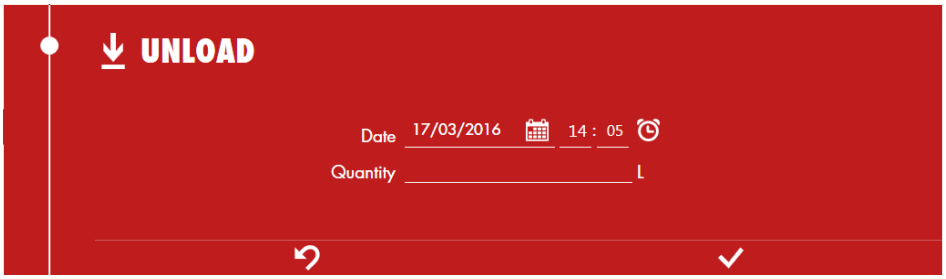
a) Day
b) Time - when a movement was performed.
c) Type of movement - loads, unloads and adjustment of the level.
d) Description of the movement - short summary of quantity and type of fluid handled.
e) Total and unit price of the loaded fluid - the total price shows the purchasing price from the supplier and the total quantity of loaded fluid. The unit price is the price paid for 1 litre (or gallon) of loaded fluid; it is calculated dividing the total price for fluid purchase by the amount of loaded fluid (data visible only for product loads).
f) Initials of the supplier of the filled fluid (data visible for product filling only)

B. ACTION BUTTONS - these include the registration buttons for a new filling, draining and level adjustment. The following submenus allow the described operations to be performed:

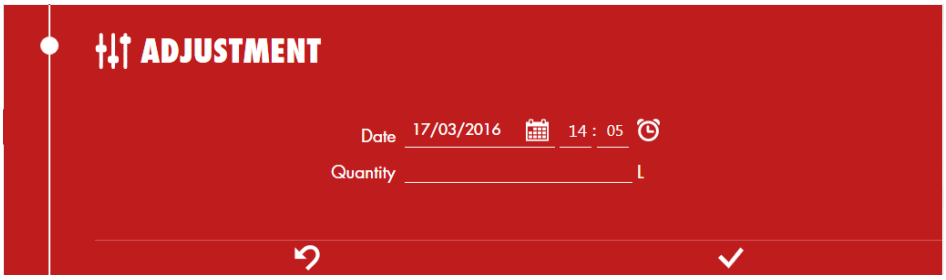


LOAD

- Movement date
- Quantity to load
- Total price for fluid purchase
- Purchase invoice code (optional)
- Fluid supplier



UNLOAD
- Movement date
- Quantity to unload



ADJUSTMENT
- Movement date
- Quantity of fluid that the tank must reach.

D. TANK PANEL - it shows the level and the economic value of the tank on the selected day. Scrolling through the filtered days, the level and the economic value of the tank change depending on the displayed day. The tank economic value is calculated depending on the unit price of the loaded fluid multiplied by the quantity of fluid, in the displayed day. See illustration.

E. EXPORT PANEL - export to EXCEL or PDF file of the entire filtered transaction list.

A quantity of fluid lower than the quantity of the fluid inside the tank at that time can be downloaded. In this case, the tank would contain a negative quantity of fluid, shown as "0" level

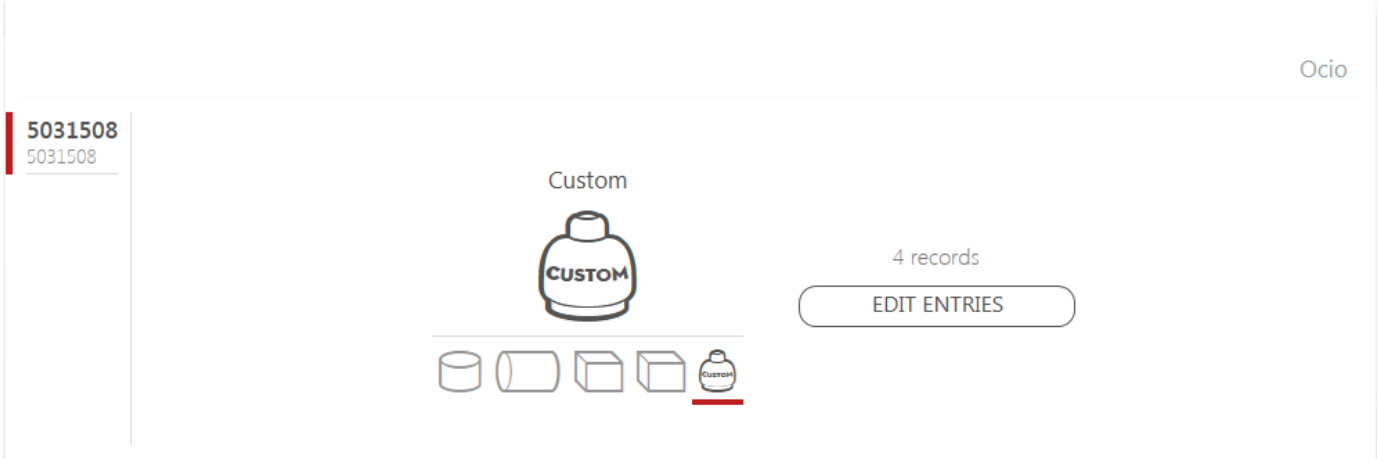
on the fuel dispenser (the dispenser never shows negative level quantities, rather positive or null ones only).

It is always possible to modify the date (for all types of movement), the time (for all types of movement) and the total price (only for the fillings) of a movement added previously. From the list of movements, press the desired movement to open the modify panel:

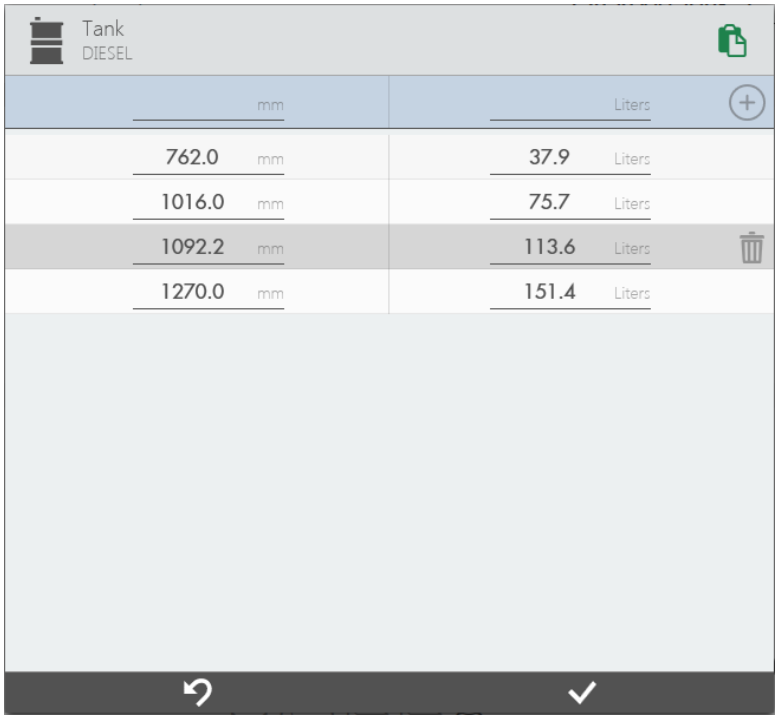
8.4 Information tables for tanks with customised shape

A tank monitored by Ocio with non-standard (customised) shape can be inserted in the system. In this case an information table (usually provided along with the documents for the purchased tank) must be filled in order to have consistent quantity readings.

To insert and configure a tank with customised shape, add a tank and select the 'CUSTOM' shape:



Press the 'EDIT ENTRIES' button to fill in the information table:

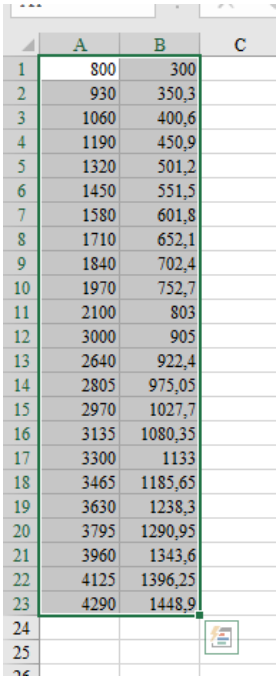


- Press  if you want to add a new line in the table, after entering a value in the height and quantity column.

- Press  if you want to delete a line from the table.

- Press  if you want to insert a table copied from a text file or a spreadsheet. To do this, the table to be inserted must be saved on a file (.txt or .xls), making sure that the levels are in the first column and the quantities are in the second column (ensuring that the data imported have the same unit of measurement used in the software program).

  Copy the table in the Windows Clipboard (CTRL+C) and press the  button to automatically insert it in the software program.



	A	B	C
1	800	300	
2	930	350,3	
3	1060	400,6	
4	1190	450,9	
5	1320	501,2	
6	1450	551,5	
7	1580	601,8	
8	1710	652,1	
9	1840	702,4	
10	1970	752,7	
11	2100	803	
12	3000	905	
13	2640	922,4	
14	2805	975,05	
15	2970	1027,7	
16	3135	1080,35	
17	3300	1133	
18	3465	1185,65	
19	3630	1238,3	
20	3795	1290,95	
21	3960	1343,6	
22	4125	1396,25	
23	4290	1448,9	
24			
25			

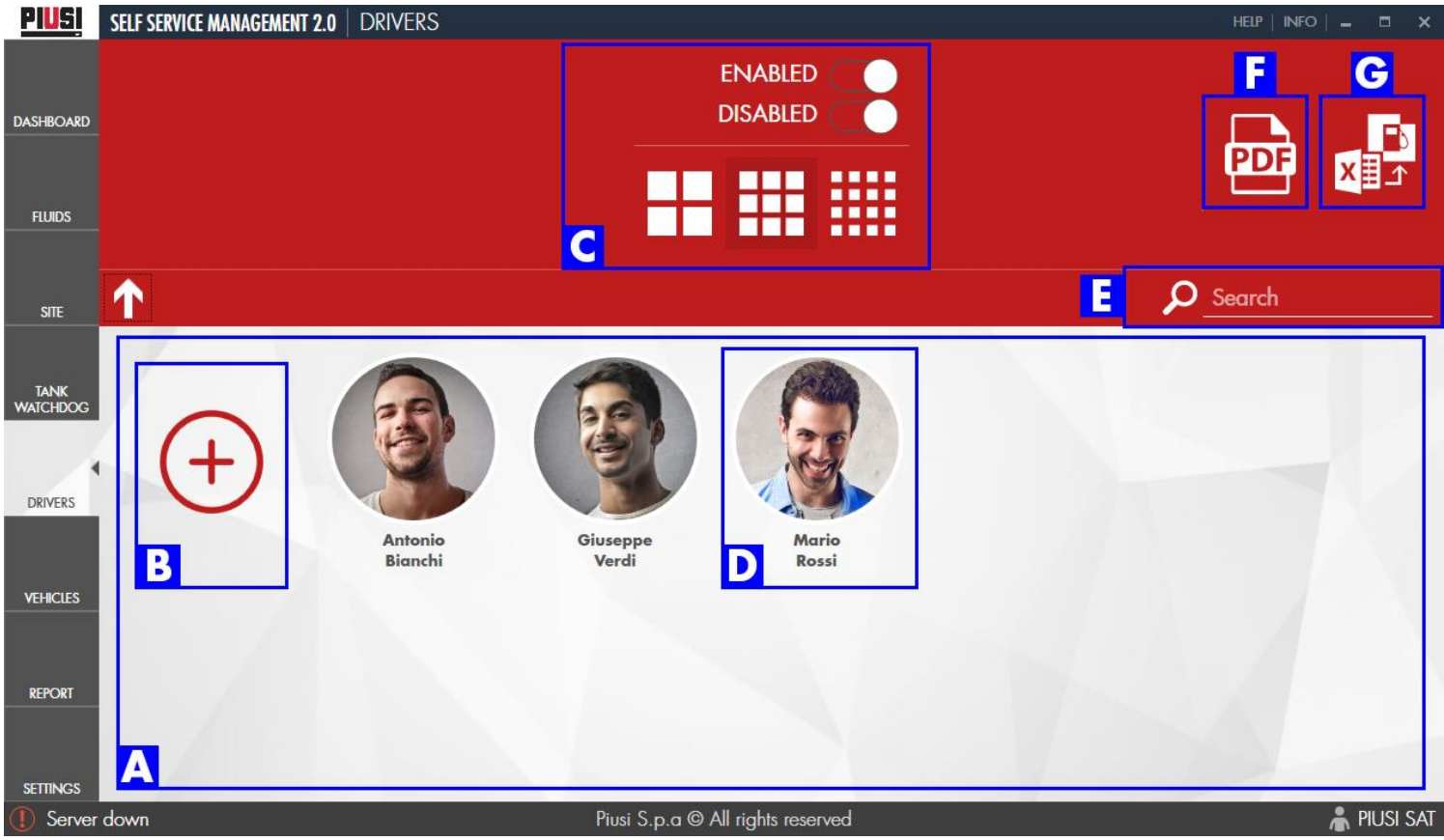
WARNING:

- *At least two lines must be inserted in order to have a valid information table.*
- *The table cannot have two lines with the same height values.*
- *The Ocios that monitor the tanks with customised shape cannot manage the hardware alarms because they are not aware of the amount in the tank, since the information tables are managed only on a software level. Therefore alarms are managed automatically only by the software program.*

9. DRIVERS

9.1 Overview

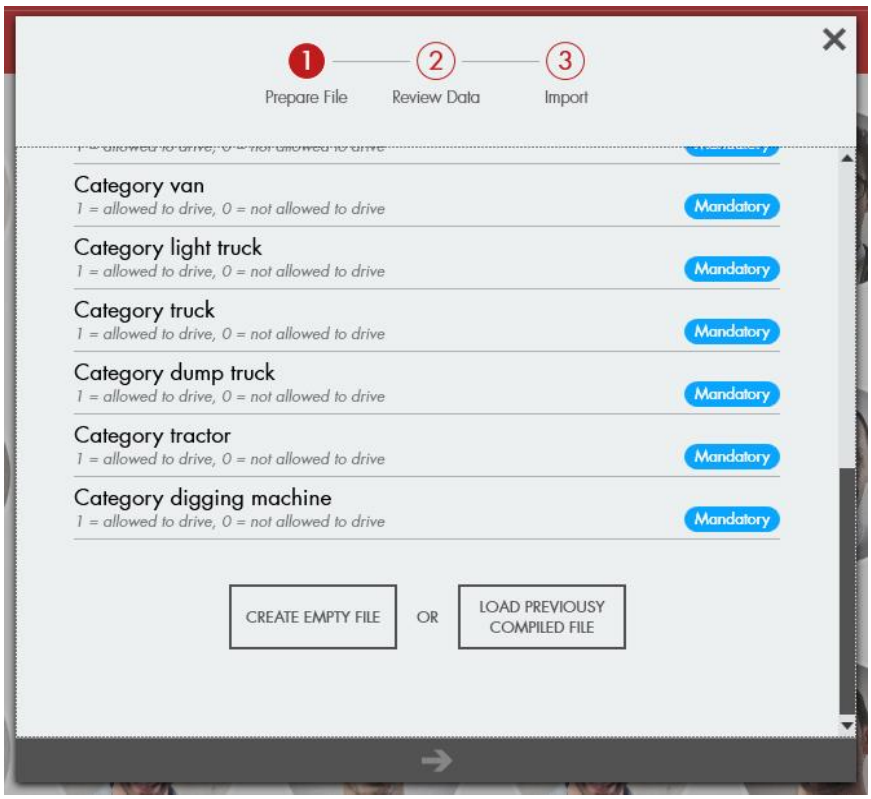
The DRIVERS section can be accessed by pressing the menu icon shown beside. This is the area where the site drivers are managed. From here, you can add, modify and remove drivers from the site.



In detail:

A. DRIVERS LIST – container of all site drivers divided by pages (the number of drivers displayed by page depends on how the user chooses to see the driver thumbnail).
B. ADD NEW DRIVER button - this button is used to add a new driver to the site.
C. DRIVERS FILTER - panel to filter the drivers as enabled or disabled and to change the display type for the drivers' box, to see a smaller or a higher number on the same page.
D. DRIVER PANEL - panel to modify a driver where you can see a summary of the personal details, change the details, remove the driver, enable/disable the driver or add an external dispense.
E. SEARCH FIELD - field to search a driver by name, surname or nickname.
F. EXPORT - export to PDF file of all driver's personal details.

G. IMPORT DRIVER PERSONAL DETAILS FROM EXCEL FILE – procedure for automatically importing driver personal details from an Excel file (.xls or .xlsx).

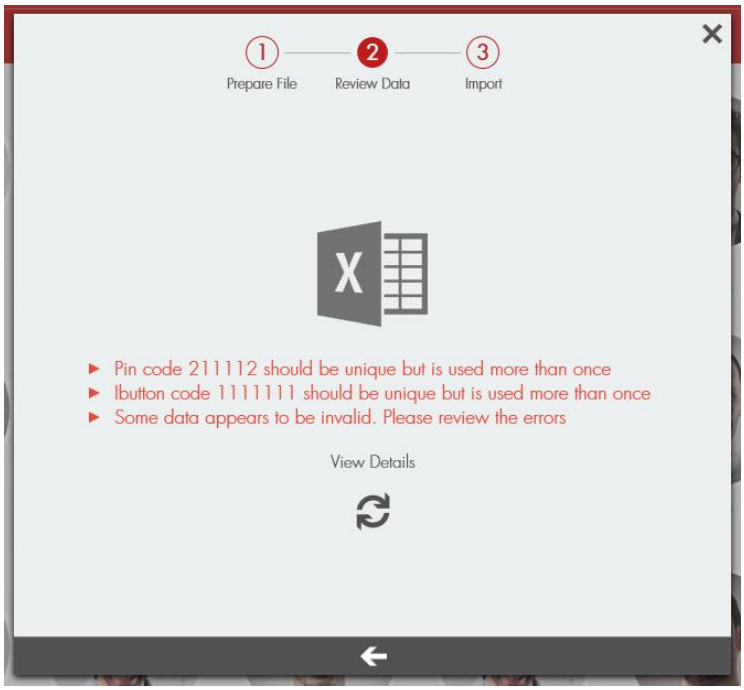


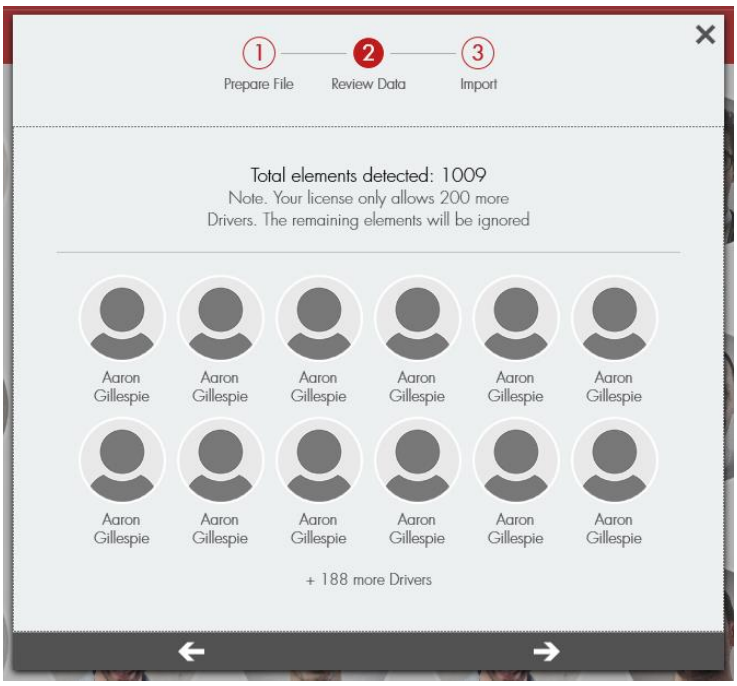
It is possible to make the software create an empty file already set up and ready to be completed or import a file completed and formatted previously.

The Excel file to be imported must have the following columns (maintain the order):

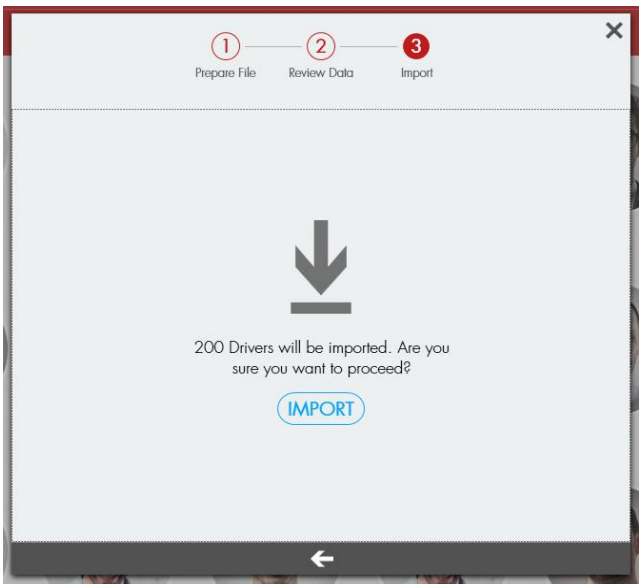
- **Alias** (mandatory field) – maximum 14 characters.
- **Given Name** (mandatory field) – maximum 15 characters.
- **Family Name** (mandatory field) – maximum 15 characters.
- **PIN code** (mandatory and unique field) – maximum 6 digits.
- **IBUTTON code** (mandatory and unique field) – maximum 7 hex characters.
- **Phone number** (optional field) – maximum 15 characters.
- **EMAIL** (optional field) – maximum 50 characters.
- **CAR category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).
- **SMALL VAN category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).
- **VAN category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).
- **LIGHT TRUCK category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).
- **TRUCK category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).
- **DUMP TRUCK category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).
- **TRACTOR category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).
- **DIGGING MACHINE category** (mandatory field) – permitted values: 0 (NO) or 1 (YES).

Before proceeding to import, the software checks the validity of the file and provides a preview of the data to be imported.





If the file is correct and meets the specifications, the import procedure can be started by pressing the 'IMPORT' button.

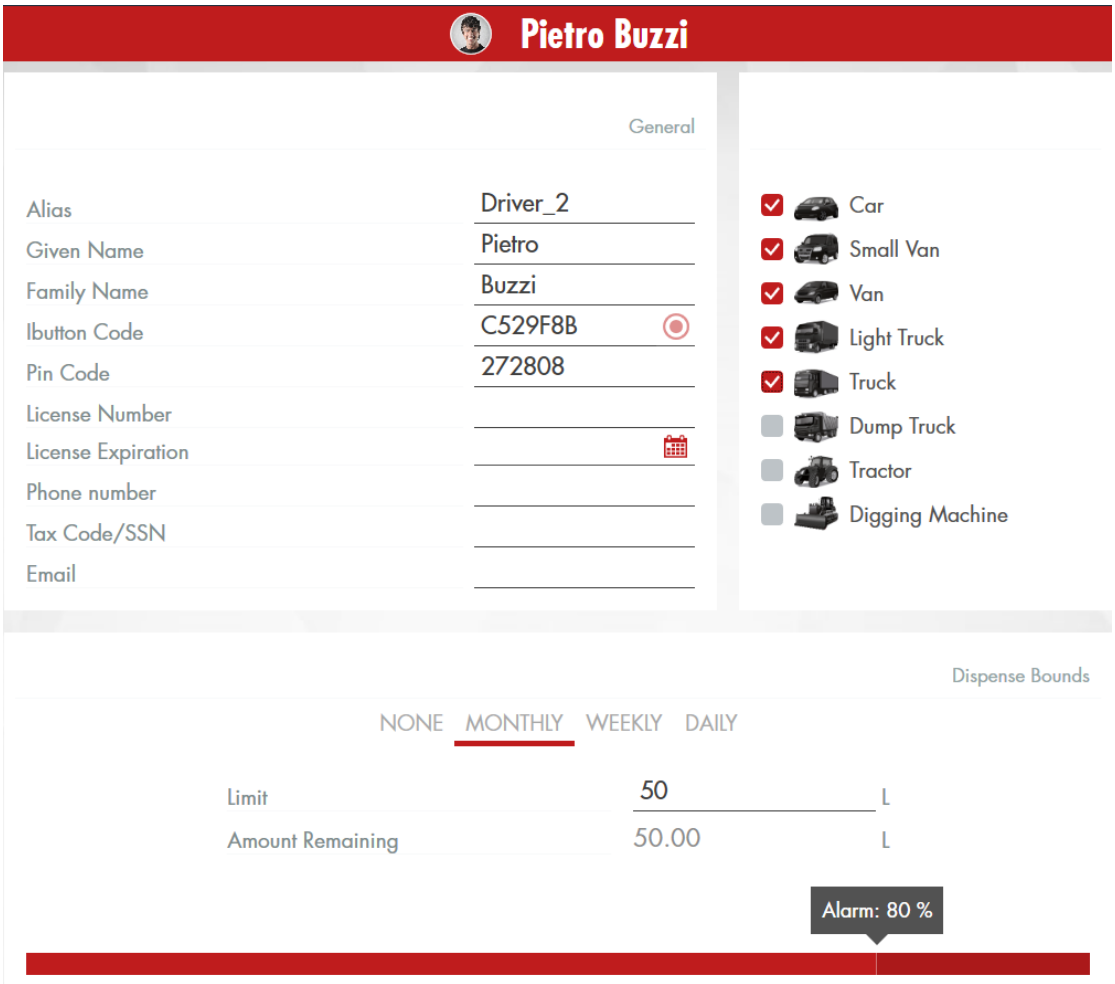


WARNING

- It is not possible to import more drivers than permitted by the licence version.
- The file to be imported must be formatted according to the specifications indicated. Do not swap, add or omit columns.

9.2 Driver addition, modification and cancellation

Pressing the "New driver" button in the driver section, the page for adding a new driver will be displayed, as shown below. In this template you need to enter:



- **Driver's picture** - you can load a picture to be uses as profile picture, from a disk memory.
- **Alias** – name that will be displayed on the fuel dispenser when the driver logs in
- **Given Name**
- **Family Name**
- **iButton** - unique code of the iButton given to the driver to authenticate in the fuel dispenser. It can be read using the iButton reader.
- **Pincode** - 6-digit code used by the driver to authenticate on the fuel dispenser
- **License Number**
- **License expiration**
- **Phone number**
- **Tax code**
- **E-mail**
- **Vehicle category** – categories of vehicles the driver is enabled to drive. If the driver is not enabled for a vehicle category, he will not be able to authenticate (at the fuel dispenser) with any vehicle of that category.

- **Temporal dispense limits** - you can set a period in which the driver cannot exceed a certain dispensed amount. When the max. amount in the period is reached the user is locked (he cannot dispense from the fuel dispenser) until the new period starts.

    - Daily - you can set a max. dispense limit and the number of days by which this amount can be dispensed. By selecting the refuelling start date the number of entered days are counted. Every entered "Number of days" the driver limit is reset.
    - Weekly - you can set the max. weekly dispense limit and the week day for the reset;
    - Monthly - you can set the max. dispense limit by month
    - None - no max. temporal dispense limit is set. There is no limit to the max. amount the driver can dispense.

  If a calculation type other than "None" is configured, you can set a percentage value notifying the user when a certain driver has exceeded the threshold of litres (gallons) dispensed.

This percentage value is set to 80% by default. You can steadily monitor the status of the dispensing made by the single drivers with two icons that will be shown if a temporal dispense limit other than "None" has been set in the driver box. See table below.

The driver is in an alert situation, as he has almost finished the max. dispense amount. The icon is displayed when the dispensed amount exceeds the amount calculated on the percentage of the period (it can be configured through the driver modification panel).

Example:

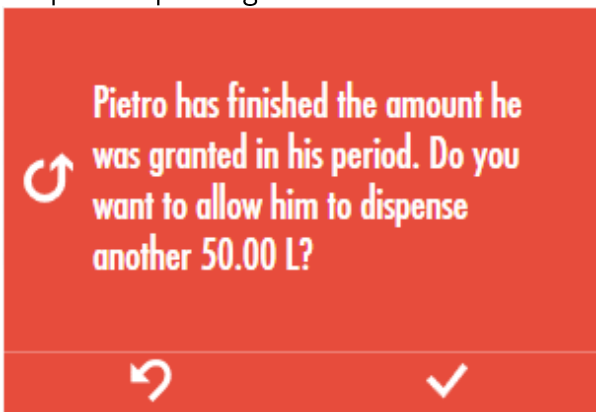
A driver with the following parameters has been entered

- *Max. dispense amount in the period: 50 litres*
- *Alert percentage: 80%*

It is supposed that the driver has dispensed 42 litres in the period and can still dispense 8 litres before finishing his max. available amount. As the alert percentage has been configured as 80% (40 litres) the software notifies the alarm as the dispense product amount has been exceeded (42 litres > 40 litres).

The driver has finished the max. dispense amount allowed in the period and thus cannot dispense anymore inside the site until the period starts again or until the amount is granted again to him.
To grant again the max. dispense amount to the driver, press the icon “0.00” litres in the driver panel

and confirm again the quantity has been re-granted so that he can keep on dispensing.



WARNING:

- *If the user decides to change the defined period or the maximum quantity that can be dispensed in the time period, the count of the litres (or gallons) dispensed up to that moment will be reset. If the driver has made external dispenses, they will not be included in the residual "Litres (Gallons) count".*
- *If the driver is loaded at a fuel dispenser managed with manager key or connected to a PW Mobile, the temporal dispensing limits are not considered.*

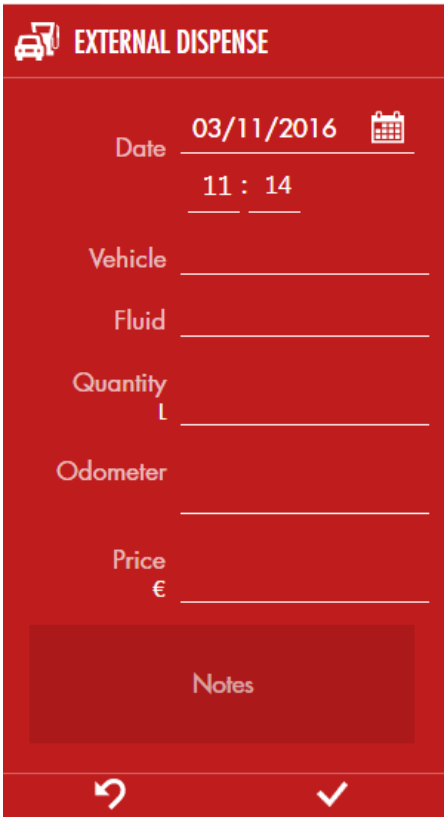
After adding the driver, his features or movements can be modified or external supplies can be added through the modification panel, as shown in the illustration on the right. Through the panel you can:

A. **Delete** the driver (if he is associated to one or more fuel dispensers he will removed from them as well)
B. **Enable/disable** the driver (a disabled driver cannot supply fuel from the fuel dispensers allocated to him).
C. **Add an external dispense** made outside the site by the current driver.
D. **Modify personal details** of the driver

The number of days remaining before the amount that can be supplied by the driver is reset is also shown (see the supply time limits).

9.3 Add a new external dispense

Pressing the button you can enter the panel for adding a new external dispense, see image on the right. In this template you need to enter:



- **Date and time** – date/time of the dispense. Caution: it is not possible to enter a dispense indicating a future date.
- **Vehicle** – indicate the vehicle of the dispense.
- **Product** – indicate the product dispensed to the vehicle. Caution: it is not possible to add an AdBlue external dispensing if the vehicle has not an enabled AdBlue tank.
- **Quantity** – indicate the dispensed quantity.
- **Odometer** – indicate the vehicle odometer at the date of the occurred dispense. Caution: it is not possible to enter an odometer lower than the max. odometer value registered at the date on which you want to enter the dispense.
- **Price** – indicate the price paid for dispensing.
- **Notes** – indicate text notes to give more information on the external dispense.

10. VEHICLES

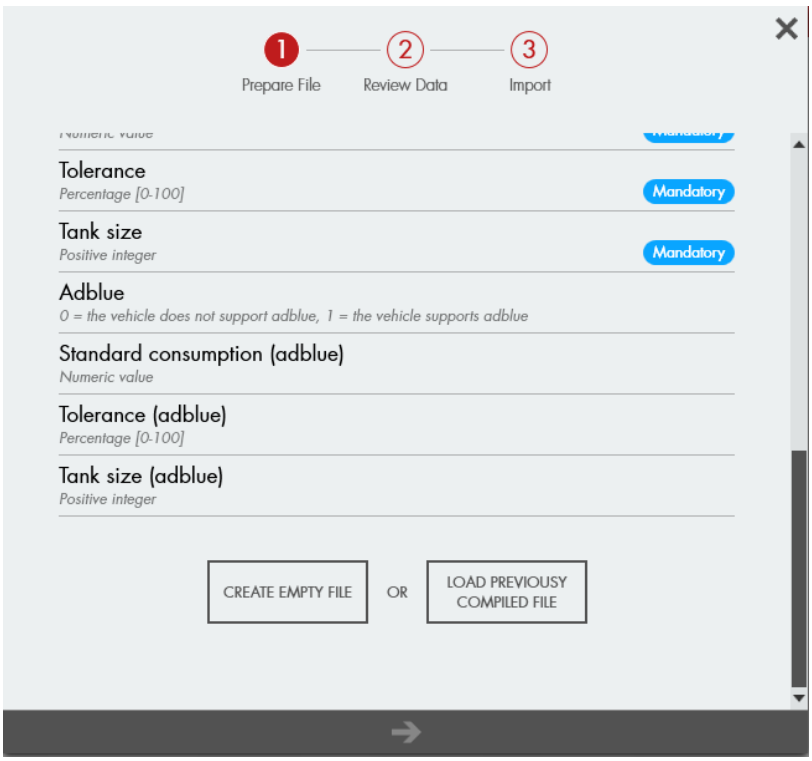
10.1 Overview

The VEHICLES section can be accessed by pressing the menu icon shown beside. This is the area where the site vehicles are managed. Here you can add, modify, delete and search for site vehicles and modify the vehicle categories managed in the site.

In detail:

A. VEHICLES LIST – container of all site vehicles divided by pages (the number of vehicles displayed by page depends on how the user chooses to see the vehicle thumbnail).
B. ADD NEW VEHICLE BUTTON - this button is used to add a new vehicle to the site.
C. VEHICLES FILTER - panel to filter the vehicles as enabled or disabled and to change the display type for the vehicles' box, to see a smaller or a higher number on the same page.
D. VEHICLE PANEL - panel to modify a vehicle where you can see a summary of the details, change the details, remove the vehicle, enable/disable the vehicle.
E. SEARCH FIELD - field to search a vehicle by name, number plate, model or alias.
F. EXPORT - export to PDF file of all vehicle's details.
G. VEHICLE CATEGORY PANEL – panel where you can display and modify the site vehicle categories.
H. COST CENTRE PANEL - (visible only if the cost centres are enabled) panel from which the cost centres can be managed (see Chapter 10.4).

I. IMPORT VEHICLE DETAILS FROM EXCEL FILE – procedure for automatically importing vehicle details from an Excel file (.xls or .xlsx).



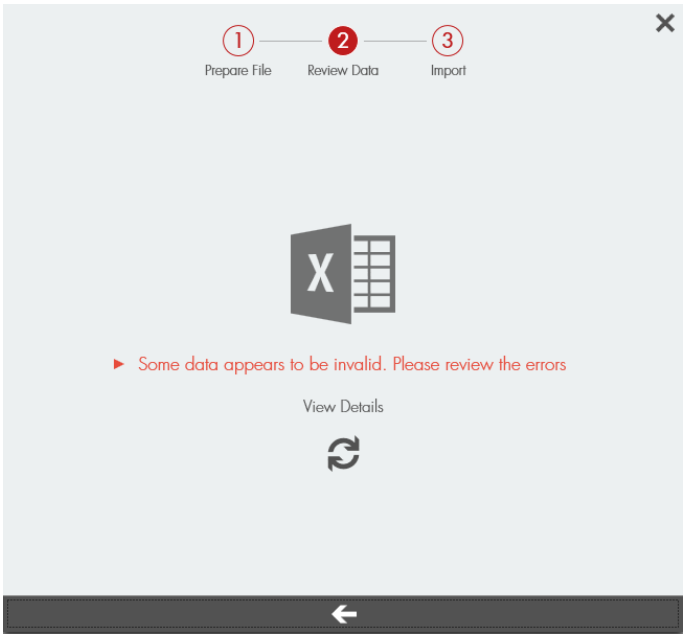
It is possible to make the software create an empty file already set up and ready to be completed or import a file completed and formatted previously.

The Excel file to be imported must have the following columns (maintain the order):

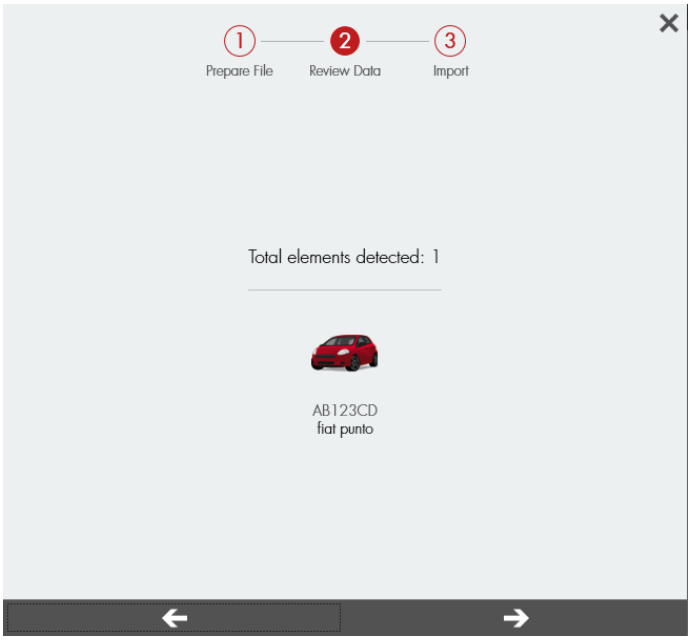
- **Alias** (mandatory field) – maximum 14 characters.
- **IBUTTON code** (mandatory and unique field) – maximum 7 hex characters.
- **Odometer unit of measurement** (mandatory field) – permitted values 0 (km), 1(miles), 2(hours).
- **Vehicle category** (mandatory field) – permitted values 0, 1, 2, 3, 4, 5, 6, 7.
- **Number plate** (mandatory and unique field) – maximum 10 alphanumeric characters.
- **Model** (mandatory field) – maximum 15 characters.
- **Company** (mandatory field) – maximum 15 characters.
- **Odometer** (optional field) –maximum 8-digit whole number.
- **Standard consumption** (mandatory field) – maximum 5 characters including decimal separator (single digit after separator).
- **Consumption tolerance** (mandatory field) – numerical value from 0 to 99.
- **Tank size** (mandatory field) – maximum 5-digit whole number.
- **ADBLUE tank present** (optional field) – permitted values 0 (NO), 1 (YES).
- **ADBLUE standard consumption** (field mandatory only if ADBLUE tank field is active) – maximum 5 characters including decimal separator (single digit after separator).

- **ADBLUE consumption tolerance** (mandatory field only if ADBLUE tank field is active) - numerical value from 0 to 99.
- **ADBLUE tank size** (mandatory field only if ADBLUE tank field is active) – maximum 5-digit whole number.
- **Respective cost centre** (not mandatory field, visible only if cost centres are enabled) - maximum 10 alphanumeric characters.

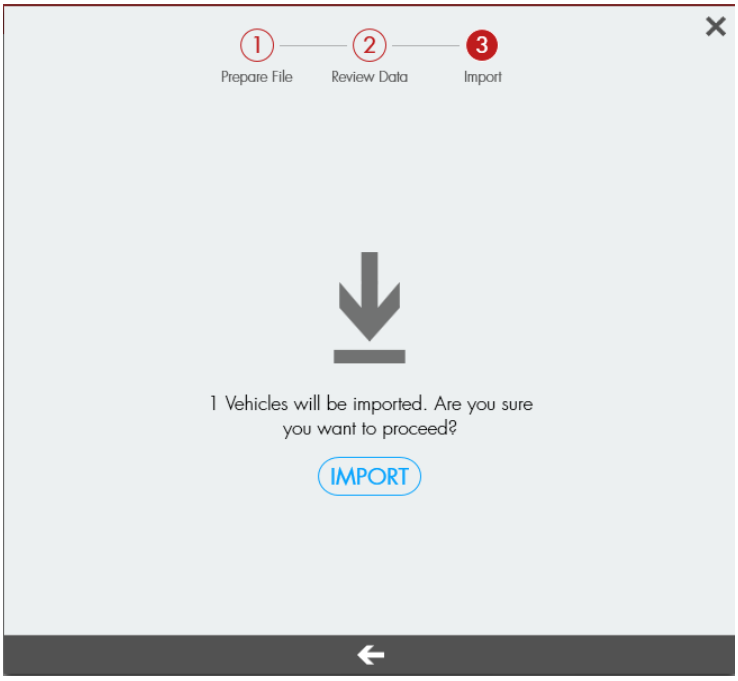
Before proceeding to import, the software checks the validity of the file and provides a preview of the data to be imported.



If



the file is correct and meets the specifications, the import procedure can be started by pressing the 'IMPORT' button.

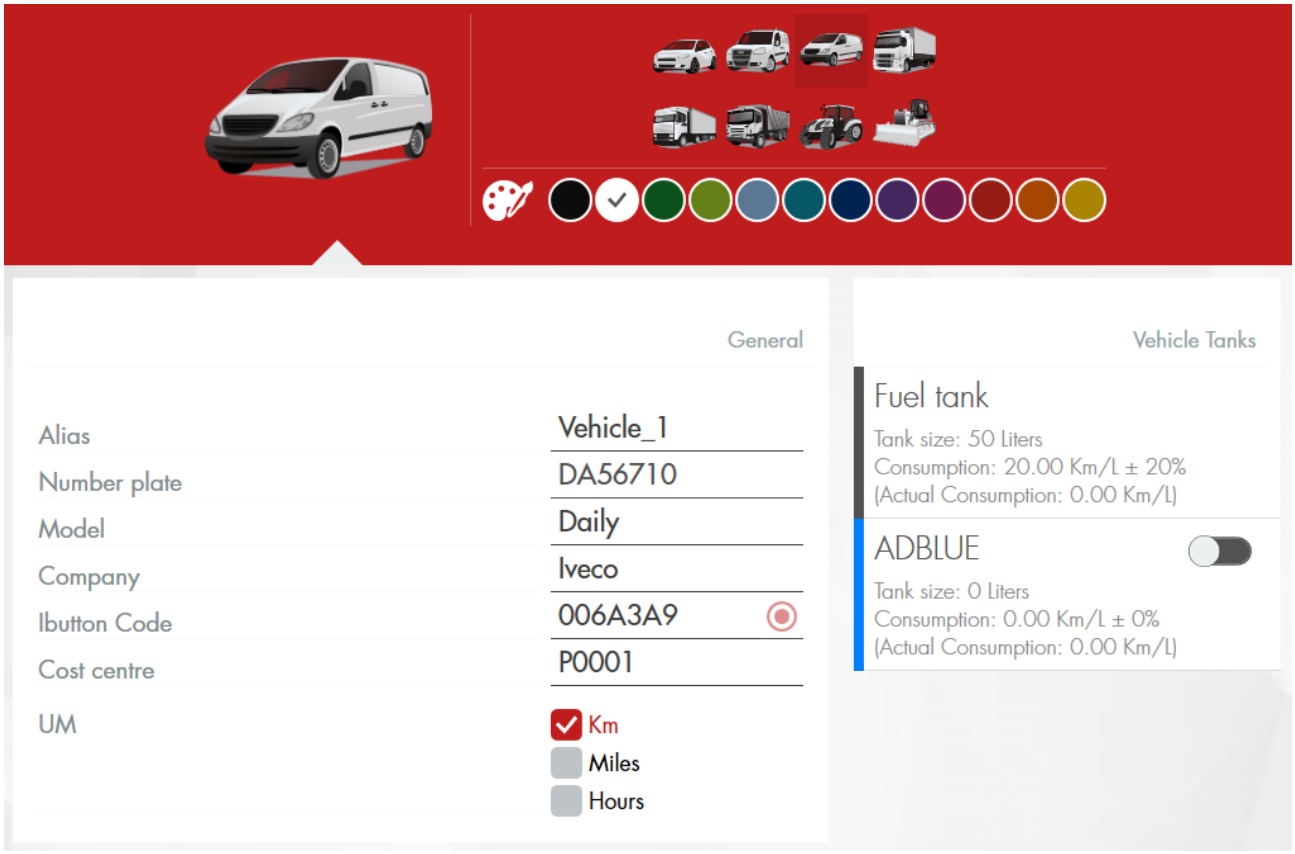


WARNING:

- It is not possible to import more vehicles than permitted by the licence version.
- The file to be imported must be formatted according to the specifications indicated. Do not swap, add or omit columns.

10.2 Vehicle addition, modification and cancellation

Pressing the "New vehicle" button in the vehicle section, the page for adding a new vehicle will be displayed, as shown below. In this template you need to enter:



- **Category and colour** – choose the category of the vehicle and its colour.
- **Alias** – name that will be displayed on the fuel dispenser when the vehicle logs in.
- **Number plate**
- **Model**
- **Company**
- **iButton** – unique code of the iButton given to the vehicle to authenticate in the fuel dispenser. It can be read using the iButton reader.
- **Cost Centre** –(visible only if cost centres are enabled) this can be used to define which cost centre the vehicle belongs to.
- **UM** – unit of measurement for displaying the vehicle odometer.
- **Main tank** – including:
    - tank size – indicates the size of the vehicle tank. A default quantity is always suggested according to the category; the default value can be changed in the section "Vehicle category" (see chapter 9.2). Please note that when this limit is reached the fuel dispenser stops supplying.
    - product average consumption - litres in the tank that the vehicle usually consumes while running.

- Consumption tolerance - a percentage around the consumption nominal value and within which the consumption is considered normal. The percentage tolerance on the consumption is used to track the vehicles with unusual consumption, that is too low or too high. The table below describes the logic for evaluating consumption:

the variables are defined as:
LI (lower consumption limit) = Nominal consumption – (Tolerance % applied to the nominal consumption).
LS (upper consumption limit) = Nominal consumption + (Tolerance % applied to the nominal consumption).

Vehicle odometer measurement unit	Actual consumption < LI	LI<= Current consumption <=LS	Current consumption > LS
Kilometres or Miles			
Hours			

 Too high consumption

 Consumption within limits

 Optimal consumption

WARNING:
in case of multiple tanks, and thus multiple consumption values, the icon in the listed vehicle box always refer to the product with worst consumption. If you open the vehicle modification panel, the relevant consumption status is displayed next to each tank. The actual consumption displayed in the vehicle summary table is always that of the main tank (the actual consumption of AdBlue is displayed only in the vehicle modification panel).

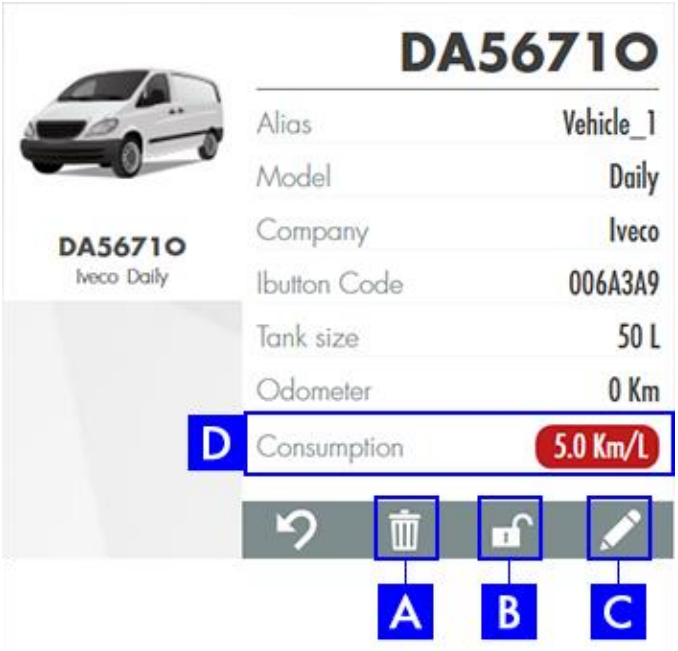
- **AdBlue tank**– indicate if the vehicle contains an AdBlue tank and, if it does, indicate its size and average consumption. It is also necessary to indicate a consumption tolerance - a percentage around the consumption nominal value and within which the consumption is considered normal. The calculation and the evaluation of the AdBlue consumption status is the same as the one applied for the consumption of the main tank.

WARNING:

- *If it is not indicated that the vehicle is equipped with an AdBlue tank, it cannot be filled at a Self Service MC ADBLUE 2.0 dispensing column.*

After adding the vehicle, its features can be modified through the modification panel, as shown in the illustration on the right.
Through the panel you can:

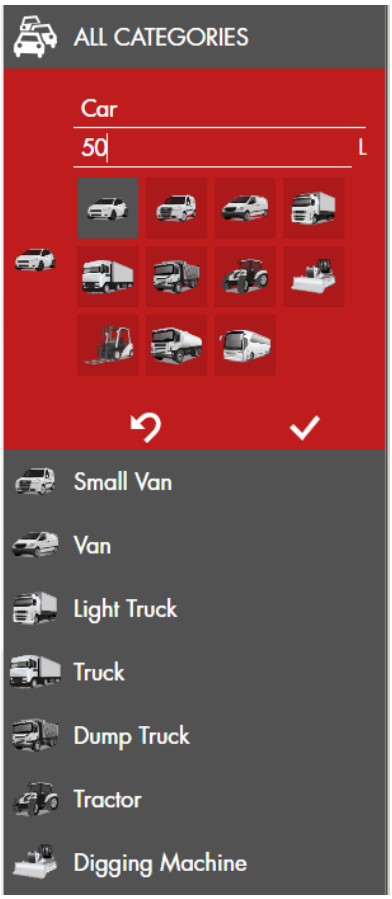
A. **Delete** the vehicle (if it is associated to a fuel dispenser it will be removed from it as well).
B. **Enable/disable** the vehicle (a disabled vehicle cannot supply fuel from the fuel dispensers allocated to it).
C. **Modify details** of the vehicle.
D. Display the **actual consumption** – if you press the actual consumption, you are readdressed to the consumption report page for this vehicle.



10.3 Vehicle categories

In the vehicle categories section you can change the categories that will be used while creating the vehicles, associating:

- Image
- Name of the category
- Size of the standard tank – this value will be used as a suggestion for all the new vehicles of this category added later.



The possible categories to be used are eight. The categories that can be used are: CARS, MINIVANS, VANS, BOX TRUCKS, TRUCKS, DUMP TRUCKS, TRACTORS, DIGGING MACHINES, FORKLIFT TRUCKS, TANK TRUCKS, COACHES, PASSENGER BUSES, LUGGAGE TROLLEYS, SECURITY VEHICLES, PRIVATE AIRCRAFT, TUG BOATS, PLEASURE BOATS, BARGES.

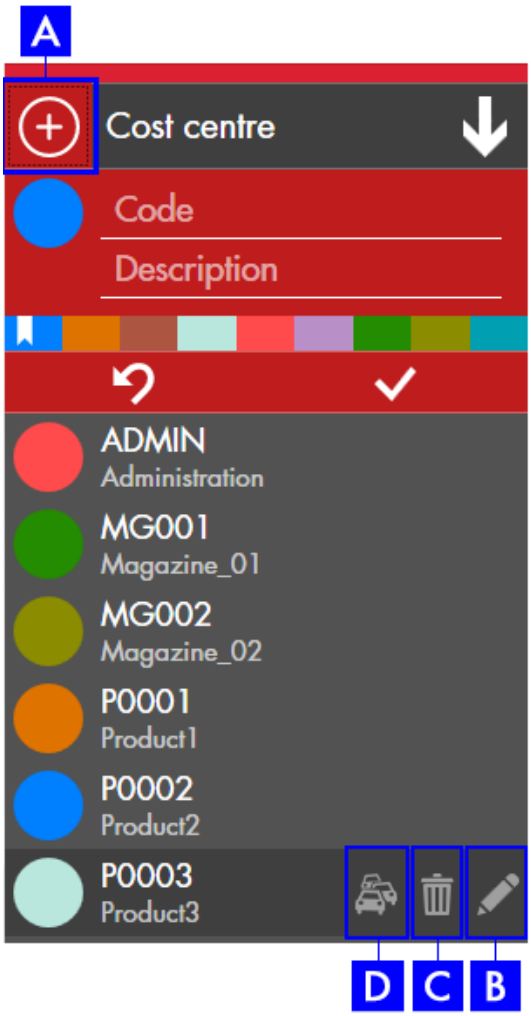
WARNING:

- *If you decide to set again the size of the tank of a certain category and wish to apply it to all vehicles of the site belonging to that category be careful, because each modified vehicle will be automatically re-loaded on the fuel dispenser it is associated with.*

10.4 Cost centres

By enabling the cost centres (see general settings chapter), it is possible to aggregate the filling costs for given vehicles in sectors or departments to achieve a better control of company costs.

10.4.1 Adding, modifying and deleting cost centres



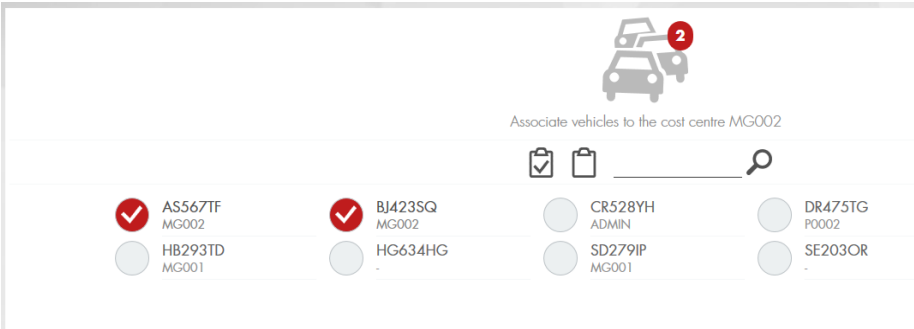
The vehicles sections under the categories contain an expandable panel that can be used to manage the cost centres.
Possible operations are:

A - Adding a centre
Indicate:
- **Code** (10 alphanumeric characters)
- **Description**
- Colour.

B - Modifying a centre

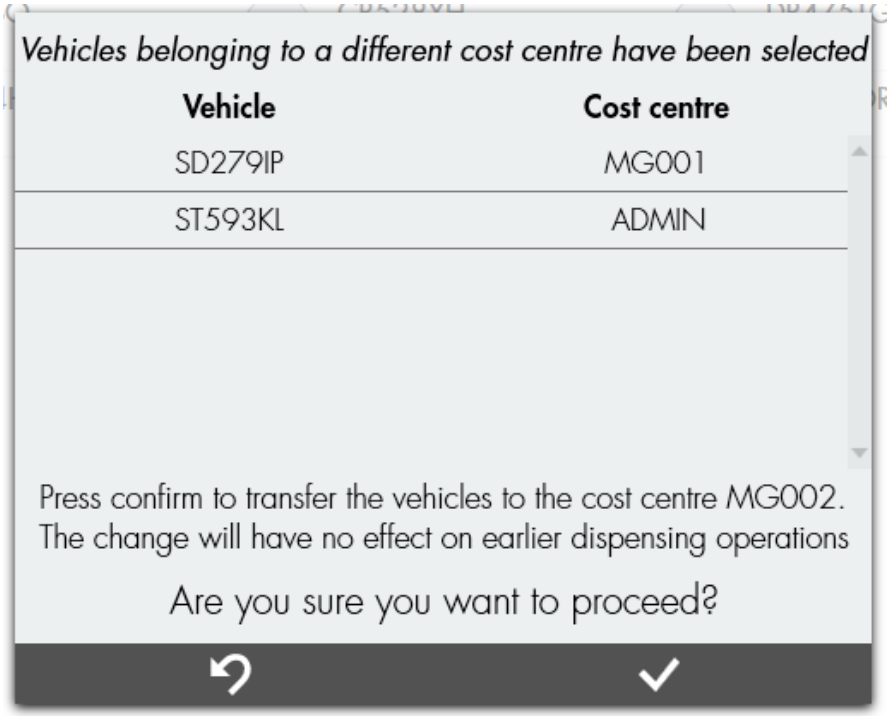
C - Eliminating a centre

D - Pressing the button to open a page where you can select the vehicles to be associated with the cost centre (figure below)



WARNING:

- *It is not possible to associate a vehicle with more than one cost centre. A confirmation message appears if a vehicle associated with another centre is selected:*



By accepting, the vehicle will be transferred and the dispensing operations performed on the vehicle will be associated with the new centre.

- *Any change to the vehicle-centre association will have no effect on past dispensing operations.*

11. SITE

11.1 Overview

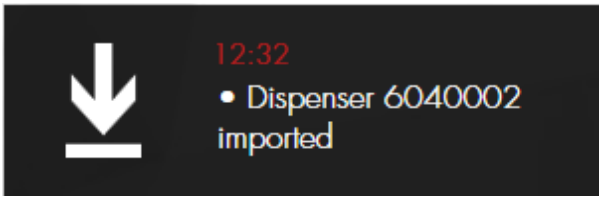
The site can be configured from the SITE section, that can be accessed by pressing the menu icon shown beside. Here you can detect, modify, remove site devices and monitor the status of each connected device in real time.

In detail:

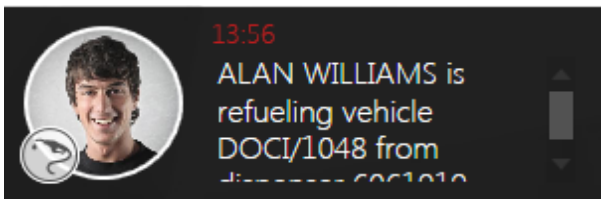
A. DISCOVERY SITE – automatic function searching for the devices connected with the local network (by PW LAN or PW WIFI). Thanks to the Plug & Play installation, after this detection the site will be already available for the use, avoiding any manual operation.
B. FUEL DISPENSER LIST - list of the dispensers detected, connected to the system and monitored in real time.
C. OCIO LIST - list of the Ocios detected, connected to the system and monitored in real time.
D. PW MOBILE PANEL – list of connected and monitored PW Mobiles.

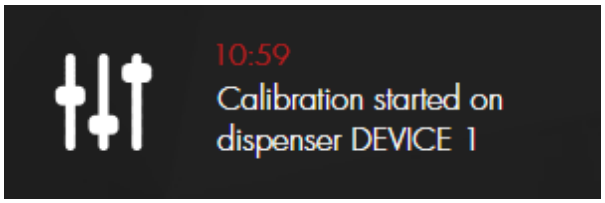
To add a remote device not connected directly to the network (LAN or WiFi) to the site, bring the Manager Key to the fuel dispenser and download the configuration to the key, return to the software and connect the key to the iButton reader to import the data that has just been downloaded.

If the device is added to the site correctly, the following notification message appears:



Each time a fuel dispenser supplies, a notification message is displayed (at the bottom right) showing who is currently supplying, the name of the driver, the vehicle being refilled and the name of the fuel dispenser. The calibration supplies are also reported in real time.





This message does not appear if the fuel dispensers are managed via Manager Key or connected to a PW Mobile.

WARNING:

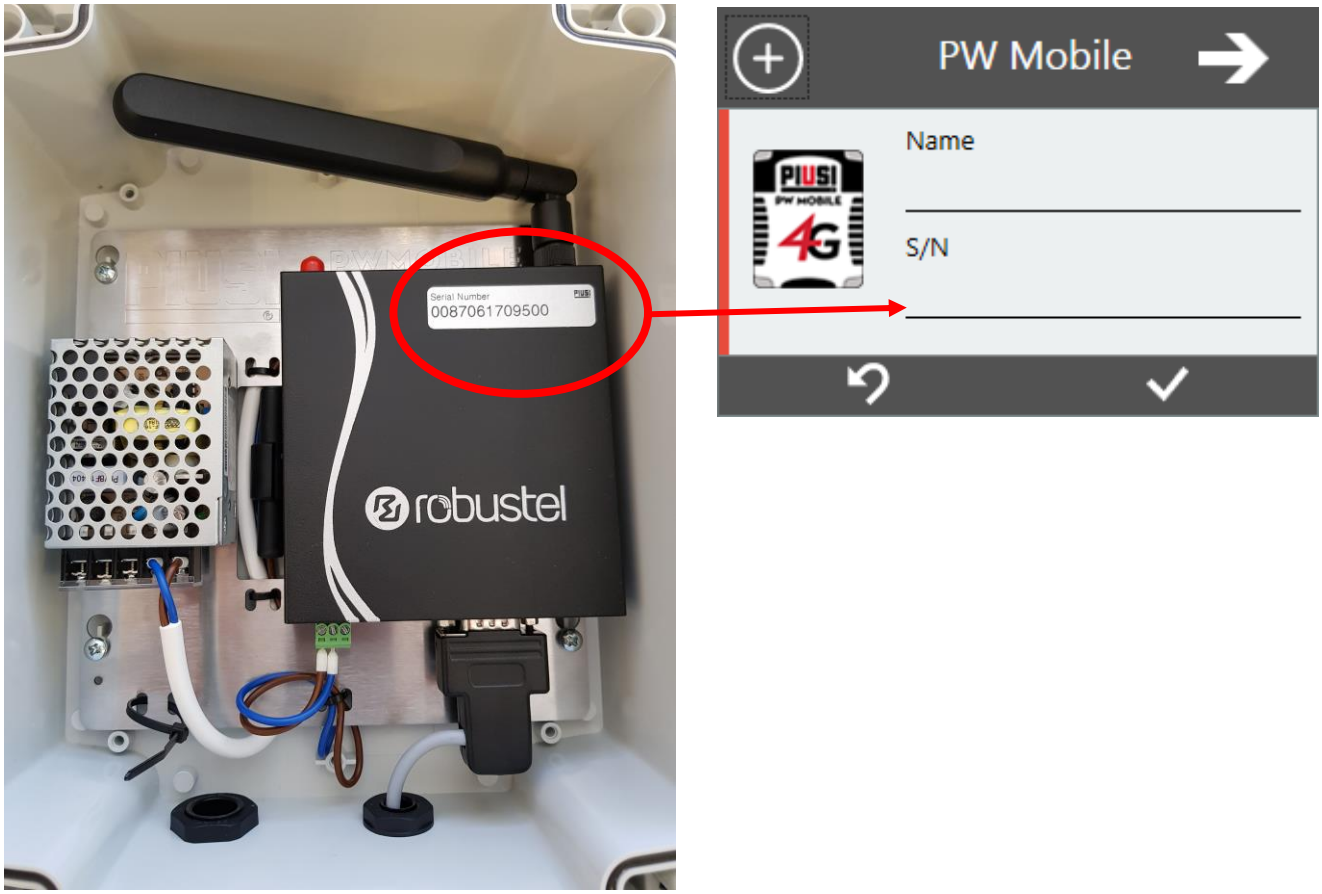
- *To detect and configure the site it is necessary to check that the server app is running.*
- *For correct use and before starting the dispensing operation, the measurement unit of the dispensed product in litres or gallons must be selected after detecting the fuel dispensers and the Ocios.*

11.2 Adding a new PW Mobile

To add a new PW Mobile to the site, the device must first be configured through the dedicated "PW Mobile configurator" software (for further information, consult the configuration manual: "PW Mobile installation and use").
Once configured correctly, proceed to add the new PW Mobile from the dedicated panel by pressing the button.

In the interface that appears, indicate:

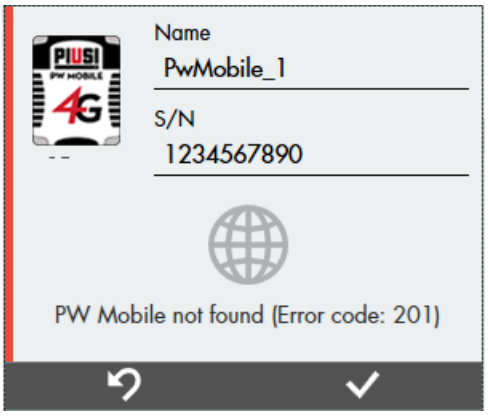
- **Name** – text identifier chosen by user.
- **Serial number** – unique numerical code of the device. **Enter the code shown on the label attached to the side of the device.** See image:



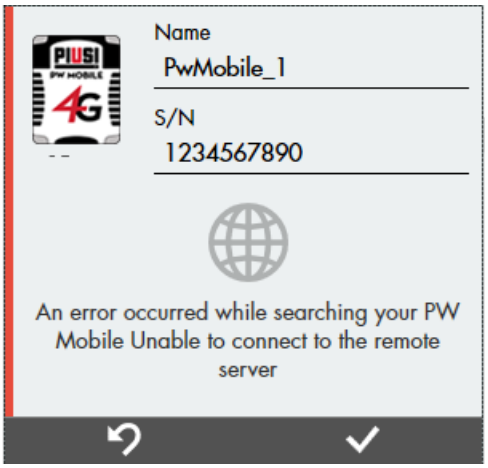
Press the button and wait for the end of the serial code validation process, which may end in one of the following situations:

Situation	Description

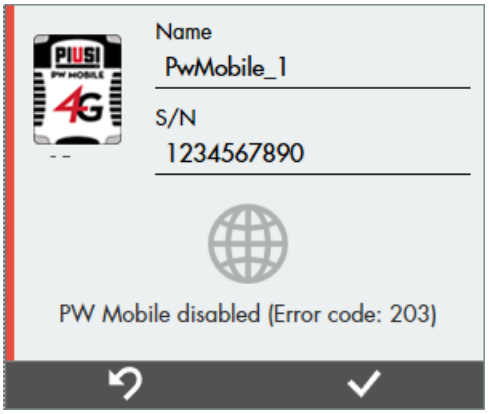
The PW Mobile serial number is valid and will be added to the site. The procedure to detect the devices connected to the RS485 serial of the PW Mobile will run automatically.



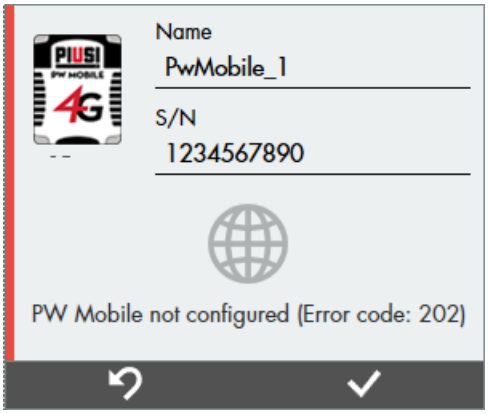
PW Mobile serial number does not exist. Enter a valid serial number.



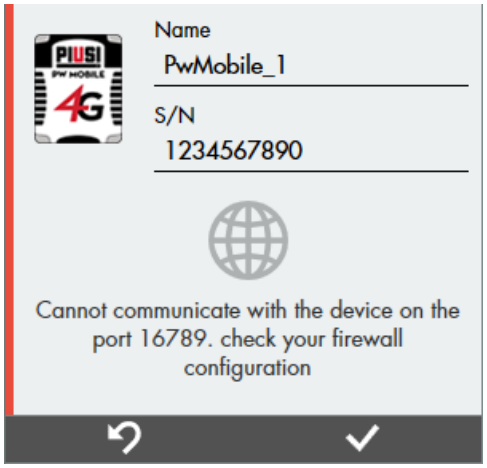
Impossible to verify the validity of the serial number entered. Check that the PC is connected correctly to the internet.



The PW Mobile serial number is valid but the device has been disabled. Contact support.

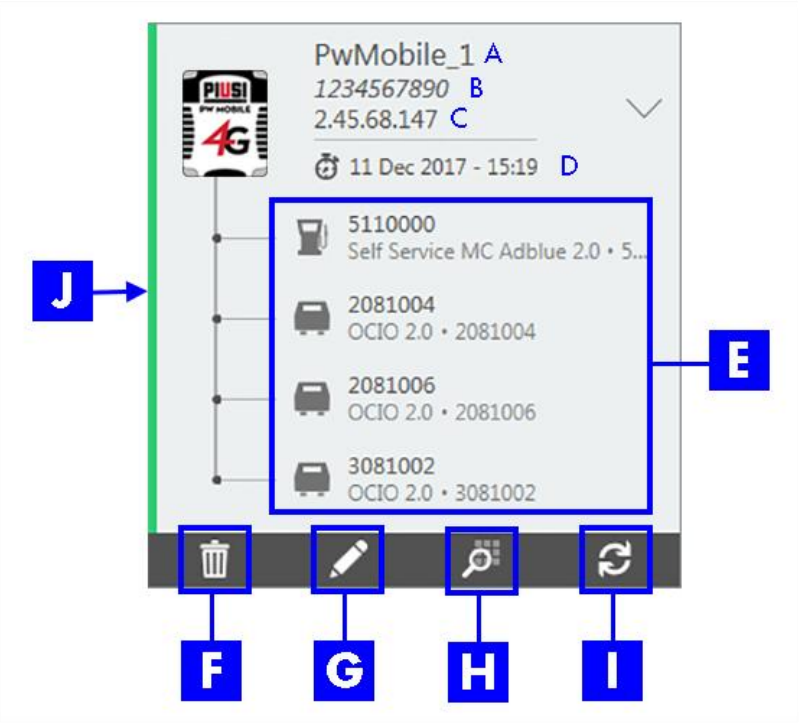


The PW Mobile serial number is valid but the device has not been configured. Follow the configuration procedure indicated in the “PW Mobile installation and use” manual.



Communication is not possible on TCP port 16789. Check your firewall settings.

Detail of a PW Mobile added correctly to the site:



A. **Nome** – identifier chosen when adding the device (can be modified).
B. **Serial number** – unique code identifying the PW Mobile (cannot be modified).
C. **IP address** – last valid IP address assigned to the PW Mobile.
D. **Date of last connection** - date on which the last connection was made to the PW Mobile.
E. **Devices connected** – list of devices detected.
F. **Remove** - removal of PW Mobile from the site. All devices connected to the PW Mobile removed are disconnected and will no longer be accessible (it is always possible to add a previously removed PW Mobile again).
G. **Modify** – opens the modification panel, which allows the Name chosen during the add procedure to be changed.
H. **Detect new devices** – starts the procedure to detect new devices connected to the PW Mobile. The fuel dispensers/Ocios removed previously are not added to the site again.
I. **Force PW Mobile status check** – starts the procedure to check the operating status of the PW Mobile, which retrieves the last IP address of the device and performs a connection test.
J. **Operating status** – status of communication to PW Mobile; possible statuses:

Colour code	Description
	Optimal communication. The device is correctly connected to the network and the communication is stable.
	No communication. Possible causes: • The PW Mobile is off. • The PW Mobile is in an area with poor mobile network reception. • The SIM in the PW Mobile has used up its data traffic.

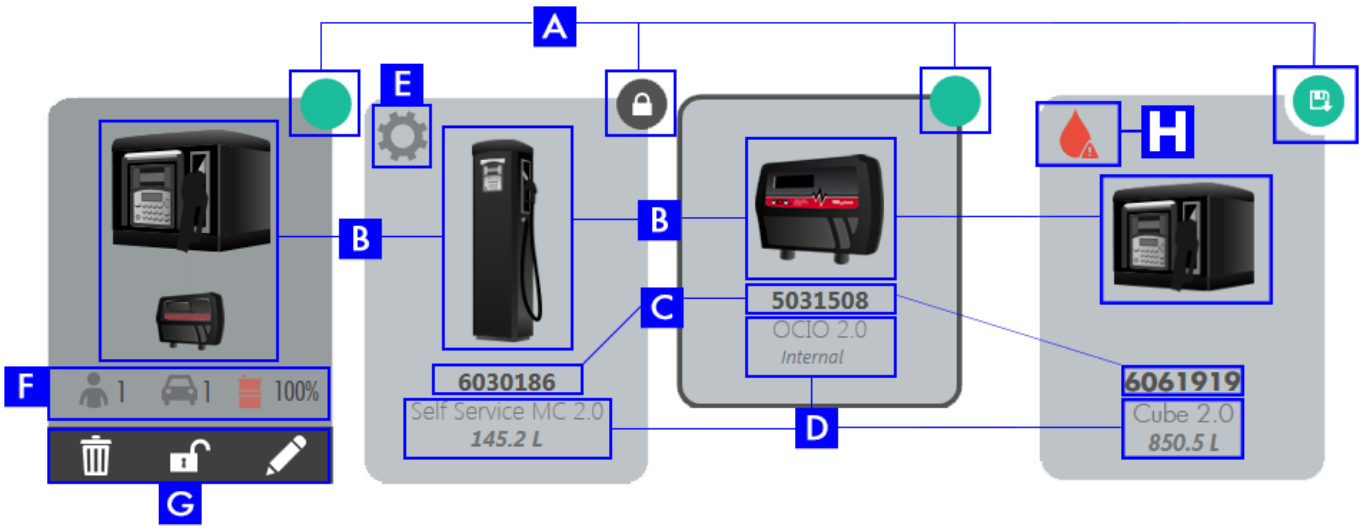
	• The PC is not connected to the internet. • Communication is not possible on TCP port 16789 (check the firewall).
■	Device disabled. Possible cases: • The PW Mobile has been registered at another site. Remove the device from the current site and repeat the add procedure. If the problem persists, contact support.  • The PW Mobile has been disabled; using the device is impossible. Contact support to proceed with reactivation.

WARNING:

- *You need a stable internet connection on your PC to add a new PW Mobile.*
- *A maximum of 5 devices – Ocios and fuel dispensers – may be connected to the PW Mobile, bearing in mind that the maximum number of devices for the same site always depends on the licence version purchased.*
- *The procedure to detect new devices connected to the PW Mobile generates data traffic which is calculated in your operator's data plan for the SIM.*

11.3 Device monitoring

Each device of the site is represented with a box where the following information is reported:



A. **Communication status** – operating statuses of the device, listed below:

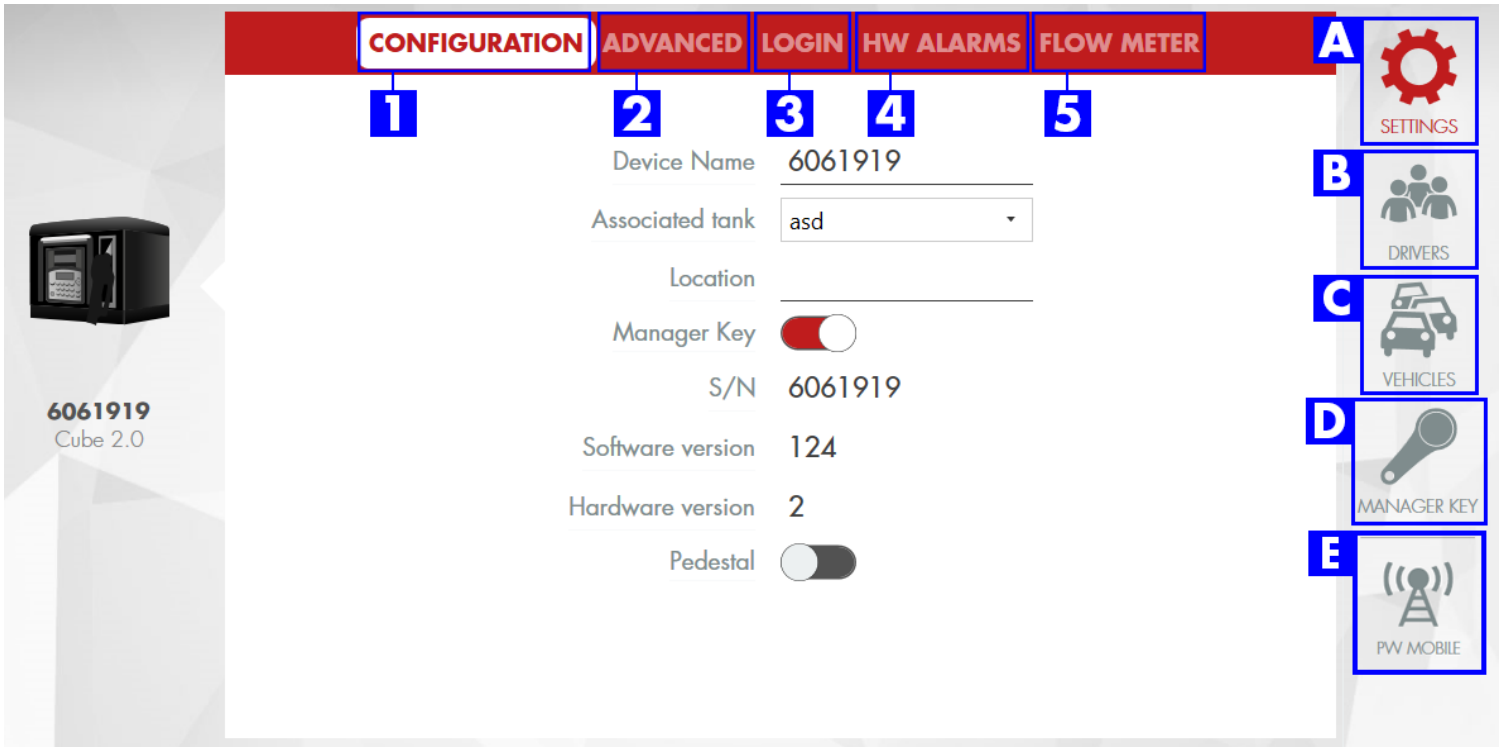
	Status/Management type	PW LAN / PW WIFI	PW Mobile	Manager Key
	ONLINE and MANAGED with PW LAN/PW WIFI	Optimal communication. The device is correctly connected to the network and the communication is stable.	--	--
	ONLINE and MANAGED with PW MOBILE	--	Optimal communication. The PW Mobile is correctly connected to the network and RS485 communication is stable.	--
	ONLINE and MANAGED BY MANAGER KEY	--	--	Fuel dispenser enabled, active and managed by Manager Key.
	OFFLINE	No communication. The device is not connected to the network, or it is off.	No communication. Either the device is off or the PW Mobile cannot be accessed.	--
				--

	NO COMMUNICATION	No communication, but device accessible to the network. The device is correctly connected to the local network but the server cannot communicate with the pwlan.	No communication with the device, but the server can communicate perfectly with the PW Mobile; check RS485 connection (the devices that still require configuration can also be found in this status.)	
	BUSY	The device cannot be used by the software because someone is interacting with the device.	--	--
	DATA UPDATE with PW MOBILE	--	The device is receiving data from the software.	--
	DATA UPDATE	The device is receiving data from the software and is not available until any data loading process is ended.	--	--
	DISPENSING	The device is dispensing fuel (status valid only for the fuel dispensers)	--	--
	DISABLED	The device use is disabled both from software and hardware panel (Ocios cannot be disabled).		
	OUT OF RANGE	The Ocio is performing an incorrect measurement out of its instrument limits.	The Ocio is performing an incorrect measurement out of its instrument limits.	--
	MODIFIED	--	The configuration of the fuel dispenser/Ocio or driver/vehicle associations have been modified. The new data must be synchronised with the fuel dispenser/Ocio.	The configuration of the fuel dispenser or the driver/vehicle associations have been modified and the new data must be written to the Manager Key.
	WRITING	--	--	The process of writing the device configuration to the Manager Key is in progress.

B. **Image**
C. **Name** – name chosen by the user to identify the device (the default name is automatically assigned and corresponds to the serial number of the hardware panel of the fuel dispenser to the serial number of the Ocio)
D. **Model**
E. **To be configured** – status of a fuel dispenser the first time that it is detected. It indicates that the equipment must be configured before use (fuel dispensers exit this status when someone associates them to a tank).
F. **Fuel dispenser summary panel** – the number of drivers and vehicles currently loaded and the tank associated to the fuel dispenser can be monitored from here.
F. **Ocio summary panel** – the level of the associated tank can be monitored from here.
G. **Panel of operations** – it can be used to remove (once removed the device cannot be detected, nor used in your site), disable (the fuel dispenser cannot be used from the panel and software) and modify the configuration of the device. To disable or enable a fuel dispenser Manager Key, this information must be written onto the key and imported into the desired fuel dispenser.
H. **The Tank connected to the fuel dispenser is in alarm.**

11.4 Fuel dispenser configuration

The fuel dispenser configuration panel will open by pressing the button.



In detail:

A. CONFIGURATION PANEL – all the functional parameters of the fuel dispenser can be configured in this section. The section is divided into the following submenus:

1. GENERAL CONFIGURATIONS

- **Device name** – the device name can be changed (max. 15 alphanumeric characters).
- **Location** - indicate the place where the fuel dispenser is located.
- **Tank** - associate a tank to the fuel dispenser. A tank can be assigned to several fuel dispensers but of the same type (LAN or MANAGER KEY). Only one tank containing default product marked AdBlue can be associated to a MC ADBLUE 2.0 Self service fuel dispenser.
  A tank monitored by Ocio cannot be associated with a fuel dispenser Manager Key.
- **Manager Key** – indicate whether you wish to enable or disable Manager Key.
  - ➢ If this management is enabled, the software will no longer communicate autonomously with the fuel dispenser and it will be necessary to use the key to import and export data onto/from the fuel dispenser. (See chapter 11.5)

- If the management is disabled (basic setting), the fuel dispenser is connected to the system via either PWLAN, PWWIFI or PWMOBILE and the software will start communicating automatically after being correctly detected using the 'SYSTEM DETECT' procedure.

Further information such as panel serial number, IP address, fuel dispenser software version and hardware version of the panel installed are also reported.

Important note
Even after enabling column management using the Manager Key, it will still be possible to reconnect the fuel dispenser to the installation by means of PWLAN, PWWIFI or PWMOBILE by repeating the 'INSTALLATION DETECT' procedure (see Chapter 11.1). In this case, it is important not to delete or disable the fuel dispenser.

2. ADVANCED CONFIGURATIONS

- **Date and time format** – display mode of date and time in the fuel dispenser.
- **Gun contact** – indicates the presence of the gun contact.
- **Type of contact** – indicates how the gun contact is managed, if it is normally open or closed.
- **TimeOut start** – seconds running from when the dispense is started by physically moving the gun from its position to when the trigger is pressed, in order to dispense the fluid. If the gun trigger is not released within this time period, the dispense is cancelled;
- **TimeOut end** – seconds running from when the gun trigger is closed, and therefore cannot dispense, to when the gun is replaced in the rest position. If the gun trigger is not pressed within this time period, the dispense is automatically stopped.
- **Number of decimal places** – how many decimal places are shown on the fuel dispenser display during the count.
- **Preset quantity** – suggested quantity when you wish to dispense with preset without vehicle (see vehicle bypass and vehicle iButton disabled settings).

The gun contact and contact type parameters have a preset configuration according to the fuel dispenser type. The parameters can be freely configured only for the MC BOX 2.0 fuel dispenser, the Site Owner will have to configure them appropriately according to its preferences.

3. AUTHENTICATION

- **Owner PIN code** - indicates the PIN code used by the Site Owner to access the fuel dispenser panel configuration section (6-digit field).
- **Driver authentication type** - drivers can be enabled to access the device with the yellow iButton key, PI code or both (these codes can be configured from the driver sheet).
  - Driver iButton: activates access for the driver with yellow iButton;
  - Driver pin code: activates access with PIN code (a code to be entered from the keyboard on the device)
  - PIN code OR driver iButton: both the PIN code and the driver iButton are active. The driver can choose which option to use to login on the device.
- **Vehicle iButton management** - manages the possibility of enabling/disabling the access by the vehicle with blue iButton key.
- **Vehicle bypass** - the vehicle iButton is enabled. The device asks for the vehicle identification by means of blue iButton. In case of emergency (iButton key broken or lost) it is possible to bypass the vehicle identification on the device by combining the keys (ENTER + #) pressed at the same time on the fuel dispenser panel keyboard. As this operation could result in the failed association of the vehicle with the dispensing, later it will be possible to associate the dispensing to the corresponding vehicle without losing data on the vehicle consumption.
- **Registration number** – If enabled, the option of entering a free text from the dispenser with 10 alphanumeric characters is provided before each dispensing operation (the text entered can then be seen in the dispensing report; see chapter 12.2).

4. HARDWARE ALARM MANAGEMENT

- **Level 1 alarm input** – enables/disables the alarm input.
- **Level 1 alarm** - indicates the device behaviour if the alarm is activated.
  - **Warning** – the type of alarm triggered is shown in the device display at regular intervals, allowing thus normal dispense.
  - **Pump cut-off** – the alarm and cut-off flashing warnings are shown in the device display, thus preventing dispense. Once the alarm is recalled dispense will be normally allowed.
- **Level 1 alarm contact type** – indicates the alarm contact (normally open or normally closed).
- **Level 2 alarm input** – enables/disables the alarm input.
- **Level 2 alarm** – indicates the device behaviour if the alarm is activated.
  - **Warning** – the type of alarm triggered is shown in the device display at regular intervals, allowing thus normal dispense.

- **Pump cut-off** – the alarm and cut-off flashing warnings are shown in the device display, thus preventing dispense. Once the alarm is recalled dispense will be normally allowed.

- **Level 2 alarm contact type** – indicates the alarm contact (normally open or normally closed).

WARNING:

- *Refer to the relevant manual of the single devices for the wiring diagrams of the alarm inputs (disabled as default).*

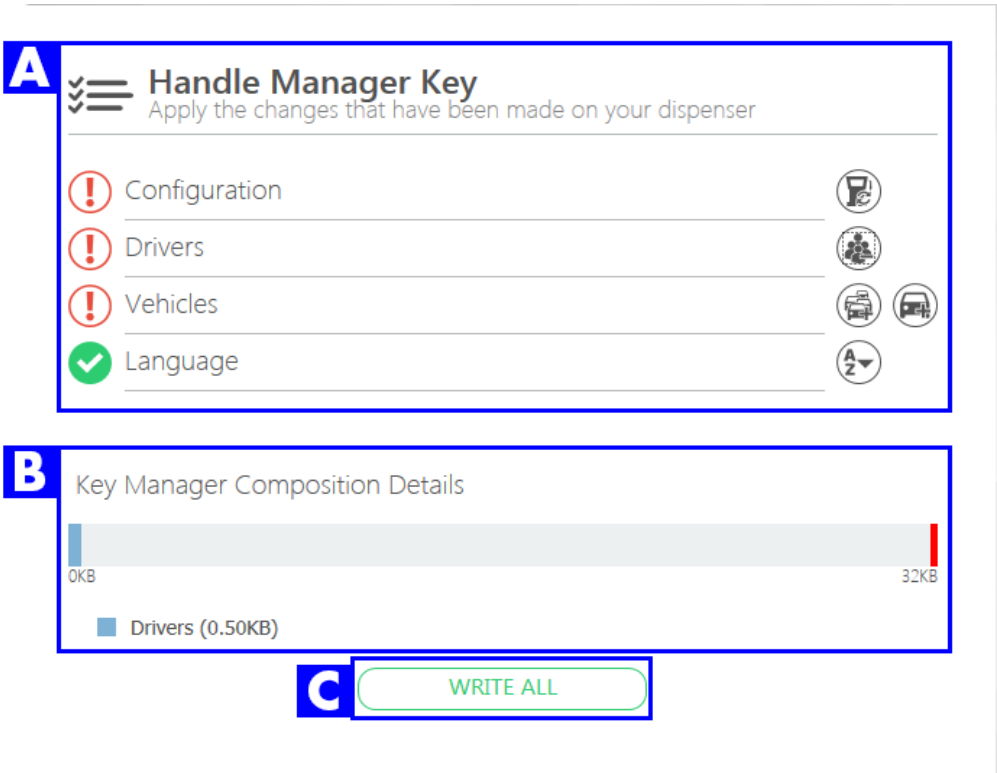
5. PULSER

    - **Piusi Pulser litre counter** – indicates the type of Piusi pulser fitted on the device. If set to None, a Custom Pulser litre counter can be selected where the number of pulses per litre (gallon) is indicated .
    - **Calibration factor** – indicates the number of pulses per litre (gallon) detected by the litre counter.

B. DRIVER ASSOCIATION PANEL – in this section the drivers can be associated to and disassociated from the fuel dispenser. Select the drivers enabled for dispense from the device from the list and deselect those that must be removed from the device.

C. VEHICLE ASSOCIATION PANEL – in this section the vehicles can be associated to and disassociated from the fuel dispenser. Select the vehicles enabled for dispense from the device from the list and deselect those that must be removed from the device. Caution: vehicles without AdBlue tank are displayed opaque and cannot be loaded on a Self Service MC ADBLUE 2.0 fuel dispenser.

D. MANAGER KEY PANEL – this section allows you to display and write data to the Manager Key.



A. Type of data that can be stored on the key:

- **Fuel dispenser configuration** – all the fuel dispenser configuration parameters dealt with in this chapter are loaded onto the key.
- **Drivers**
- **Vehicles**
- **Fuel dispenser language** – the language selected for this fuel dispenser in the 'Fuel dispenser configuration' section (See chapter 13.6) is loaded onto the key.

drivers and vehicles can be loaded onto the key in two different ways:

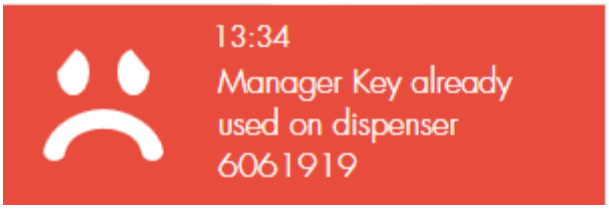
- COMPLETE (/)– all the drivers and vehicles selected in the driver or vehicle assignment panels are written to the key.
- DIFFERENTIATED (/) – only the drivers and vehicles that have been associated or disassociated with/from the fuel dispenser with respect to the last write to key are written to the key.

B. The memory filling bar allows you to see how much data and what type of data is present on the key inserted, providing a prediction of the space occupied by the next set of data to be written.

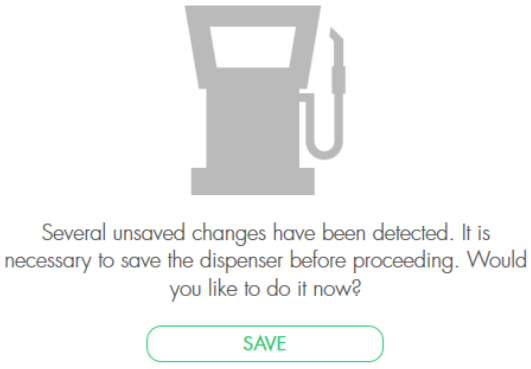
C. Press the 'WRITE ALL' button to store the modifications on the Manager Key. Do not remove the key and wait for the writing process to end.

WARNING:

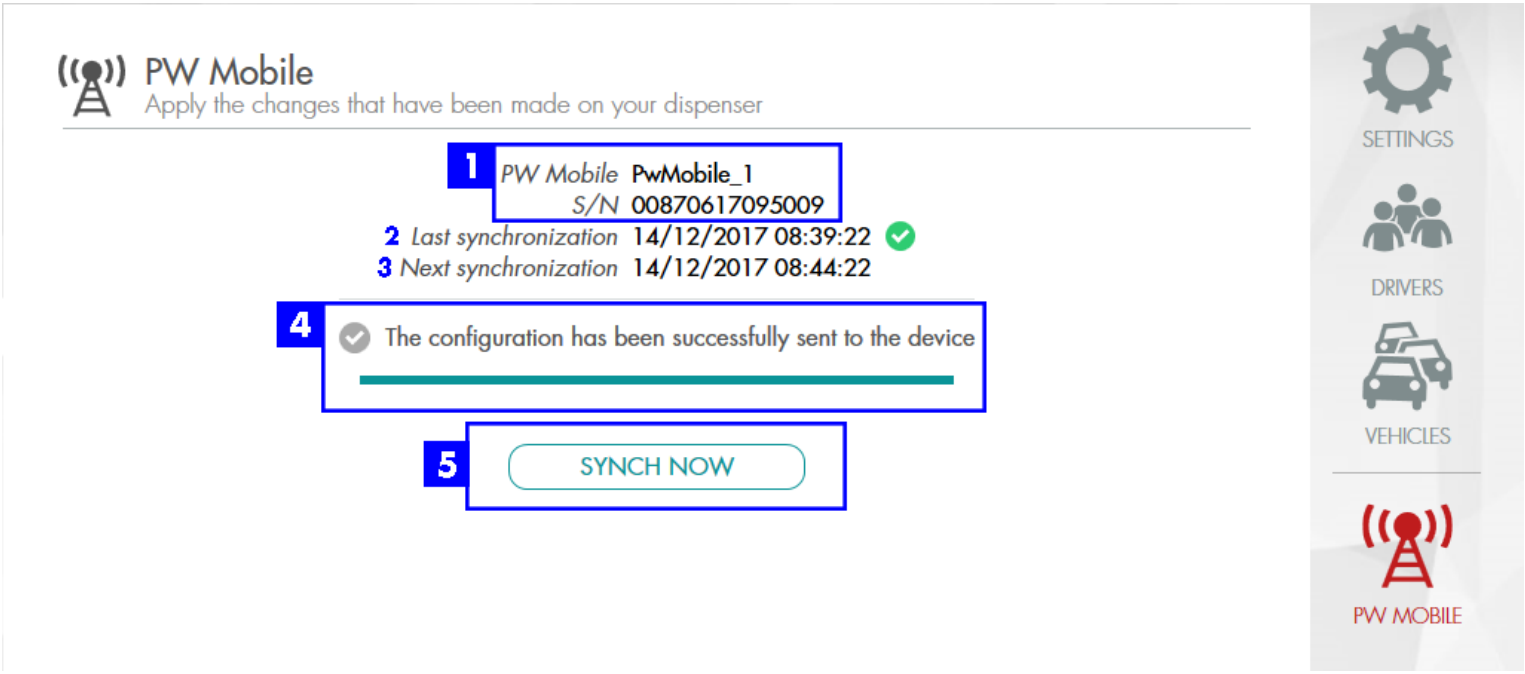
1. *It is not possible to write data to a Manager Key used for storing data belonging to another fuel dispenser.*



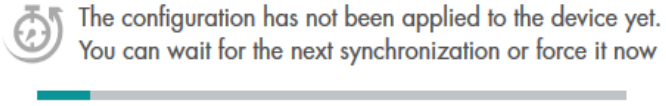
2. *Before writing new data to the Manager Key, ensure that you have saved the modifications made:*



E. PW MOBILE PANEL – this section allows you to display the synchronisation status of the device connected to the respective PW Mobile. In detail:



1. **Information on PW Mobile** – information about the PW Mobile the device is connected to.
2. **Date and outcome of last synchronisation** – the date/time at which the last data synchronisation took place, with icon at the side representing the outcome of the last synchronisation:
   - - synchronisation failed.
   - - synchronisation successful.
3. **Next synchronisation date** – the date/time at which the next data synchronisation will take place (depends on the update interval chosen in the General Configurations section; see chapter 13.2). If a choice was made to manage the site 'Only on request', no date is shown.
4. **Synchronisation status** – the synchronisation procedure has different statuses:

Awaiting next data synchronisation 	The waiting time is displayed (through a progress bar) before the next automatic synchronisation (synchronisation can always be forced by pressing the 'SYNCH NOW' button). The waiting time (PW Mobile update interval) must be configured from the 'General Configurations' section (See chapter 13.2).

Synchronisation in progress 	Data synchronisation with the fuel dispenser is in progress. Wait for the end of the process so that all the modifications are applied. The final outcome of the synchronisation is represented with an icon next to the last synchronisation date.

5. **'SYNCH NOW' button** – allows forced data synchronisation (loading or downloading) with the fuel dispenser without waiting for the next synchronisation date or, if necessary, manual synchronisation procedure management (See 'Only on request' management).

Important note

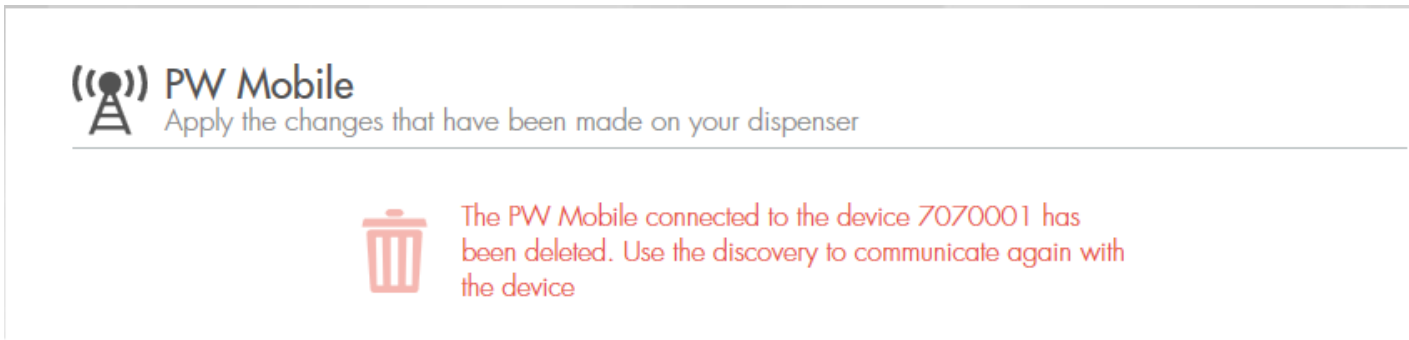
The term 'data synchronisation' refers to all processes that involve the exchange of data with the device, i.e.:

- Driver/vehicle writing
- Dispensing download
- Fuel dispenser/Ocio configuration writing
- Ocio calibration
- Fuel dispenser Enabling/Disabling.

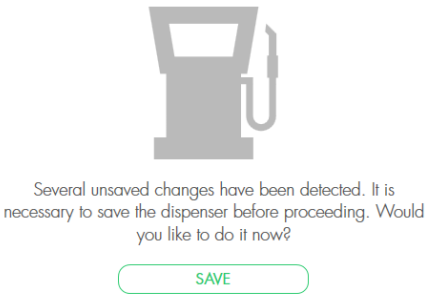
Each of the above data operations generates traffic which is calculated in the data plan for the SIM inserted in the PW MOBILE.

WARNING:

- *If a PW Mobile is removed, all devices associated with it enter a provisional status in which they will no longer be accessible. See image:*



- *Before synchronising the new data, ensure you have saved the modifications made:*



11.5 Ocio configuration

The Ocio configuration panel will open by pressing the button.

In detail:

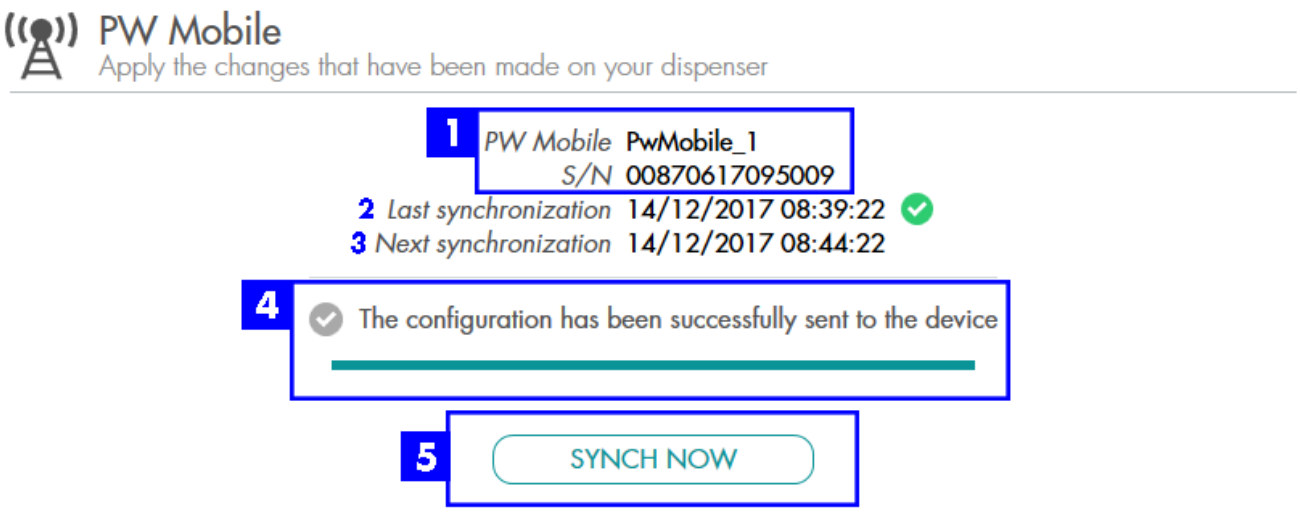
A. GENERAL CONFIGURATIONS

- **Device name** – the device name can be changed (max. 15 alphanumeric characters).
- **Location** - indicate the place where the Ocio is located.

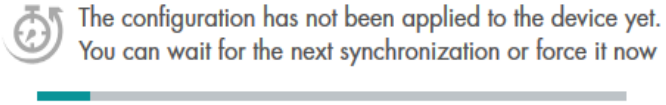
Further information such as serial number, IP address, Ocio software version and hardware version are also reported.

B. CALIBRATE – In this section you can see the calibration parameters and re-calibrate the device. You can calibrate the device by density or by level. Press the CALIBRATE button to start the calibration process.

C. PW MOBILE PANEL – this section allows you to display the synchronisation status of the device connected to the respective PW Mobile. In detail:



1. **Information on PW Mobile** – information about the PW Mobile the device is connected to.
2. **Date and outcome of last synchronisation** – the date/time at which the last data synchronisation took place, with icon at the side representing the outcome of the last synchronisation:
   - ⓘ - synchronisation failed.
   - ✓ - synchronisation successful.
3. **Next synchronisation date** – the date/time at which the next data synchronisation will take place (depends on the update interval chosen in the General Configurations section; see chapter 13.2). If a choice was made to manage the site 'Only on request', no date is shown.
4. **Synchronisation status** – the synchronisation procedure has different statuses:

Awaiting next data synchronisation 	The waiting time is displayed (through a progress bar) before the next automatic synchronisation (synchronisation can always be forced by pressing the 'SYNCH NOW' button). The waiting time (PW Mobile update interval) must be configured from the 'General Configurations' section (See chapter 13.2).

Synchronisation in progress 	Data synchronisation with the fuel dispenser is in progress. Wait for the end of the process so that all the modifications are applied. The final outcome of the synchronisation is represented with an icon next to the last synchronisation date.

5. **'SYNCH NOW' button** – allows forced data synchronisation (loading or downloading) with the fuel dispenser without waiting for the next synchronisation date or, if necessary, manual synchronisation procedure management (See 'Only on request' management).

Important note

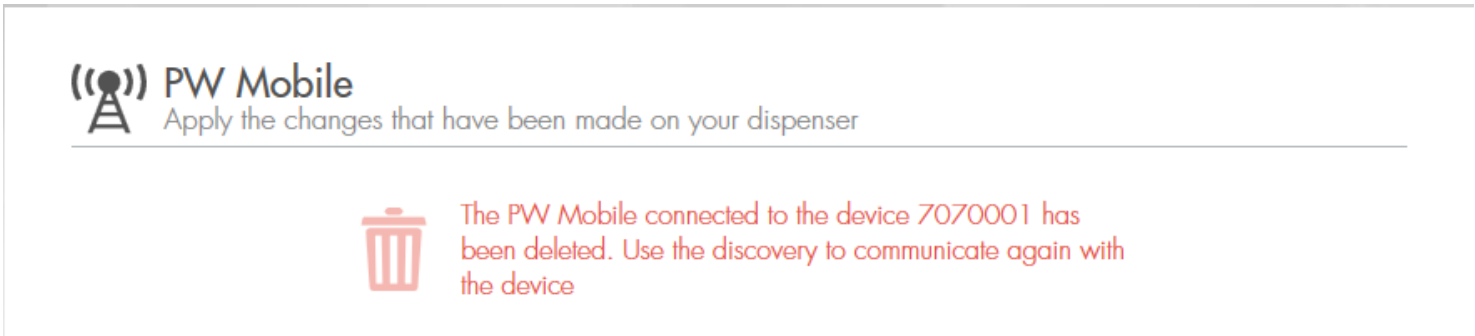
The term 'data synchronisation' refers to all processes that involve the exchange of data with the device, i.e.:

- Driver/vehicle writing
- Dispensing download
- Fuel dispenser/Ocio configuration writing
- Ocio calibration
- Fuel dispenser Enabling/Disabling.

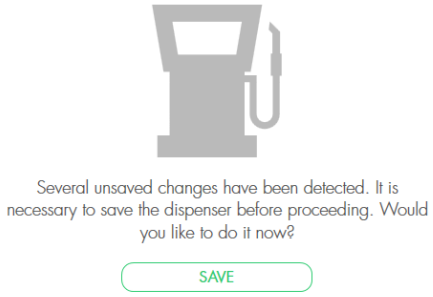
Each of the above data operations generates traffic which is calculated in the data plan for the SIM inserted in the PW MOBILE.

WARNING:

- *If a PW Mobile is removed, all devices associated with it enter a provisional status in which they will no longer be accessible. See image:*



- *Before synchronising the new data, ensure you have saved the modifications made:*



11.6 Key Manager management

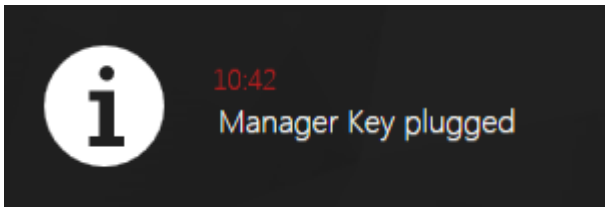
To load or download the data on the MANAGER KEY, place the key in the key reader and wait for it to be recognised by the software.

Bearing in mind that the data from a single fuel dispenser can be loaded from the software onto a key, pay attention to the maximum quantity of data that a Manager Key can contain:

- 1000 drivers or vehicles plus the fuel dispenser configuration;
- 500 drivers and 500 vehicles plus the fuel dispenser configuration;
- Fuel dispenser language plus configuration.

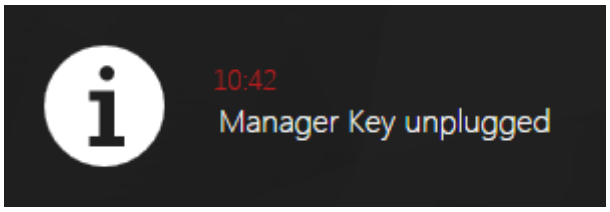
A single Manager Key (formatted previously) can be used for downloading many dispenses (maximum 650 dispenses per key) and many configurations from different fuel dispensers from the fuel dispenser panel.

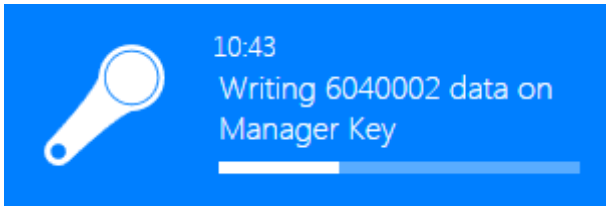
Every time a software operation is performed on the Manager Key, notifications are shown that indicate a precise operating status.



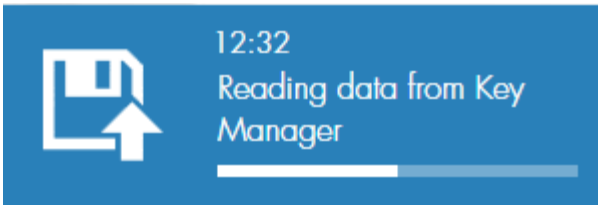
Key connected and recognised by the software.

Key unplugged.



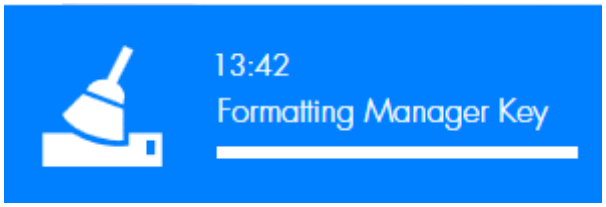


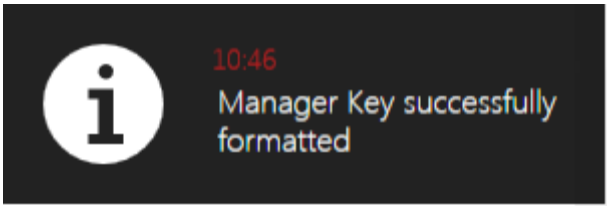
Writing data to key. Leave the key inserted in the reader throughout the process.



Reading data on the Manager Key. The software is reading any fuel dispenser dispenses or configurations to be imported from the key.

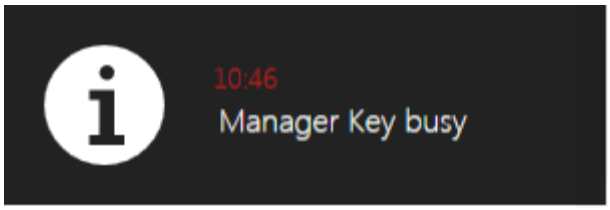
Deleting data from the key. Leave the key inserted in the reader throughout the process.

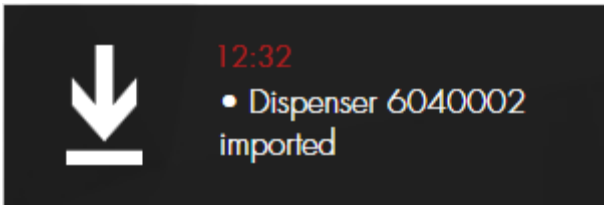




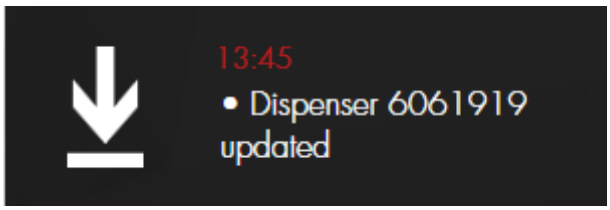
Key formatted correctly. The key can be removed.

Key busy. Wait for the last reading or writing process to end before starting a new key reading or writing process.



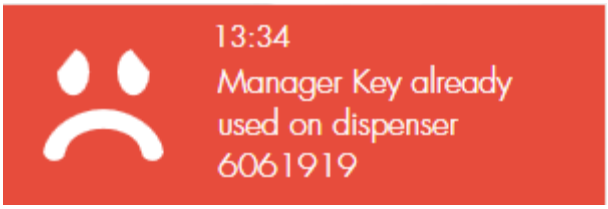


Fuel dispenser configuration imported into the site correctly. A new fuel dispenser has been added to the site.



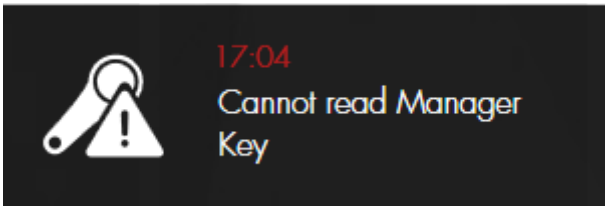
The configuration of a fuel dispenser already present in the site has been updated. The fuel dispenser configuration parameters have been updated with the data on the key.

The dispenses downloaded from the fuel dispenser have been imported into the software.



Error during Manager Key data reading.

The data on the key belongs to another fuel dispenser. Impossible to use this key to write data from a different fuel dispenser. Format and repeat the operation.



12. REPORT

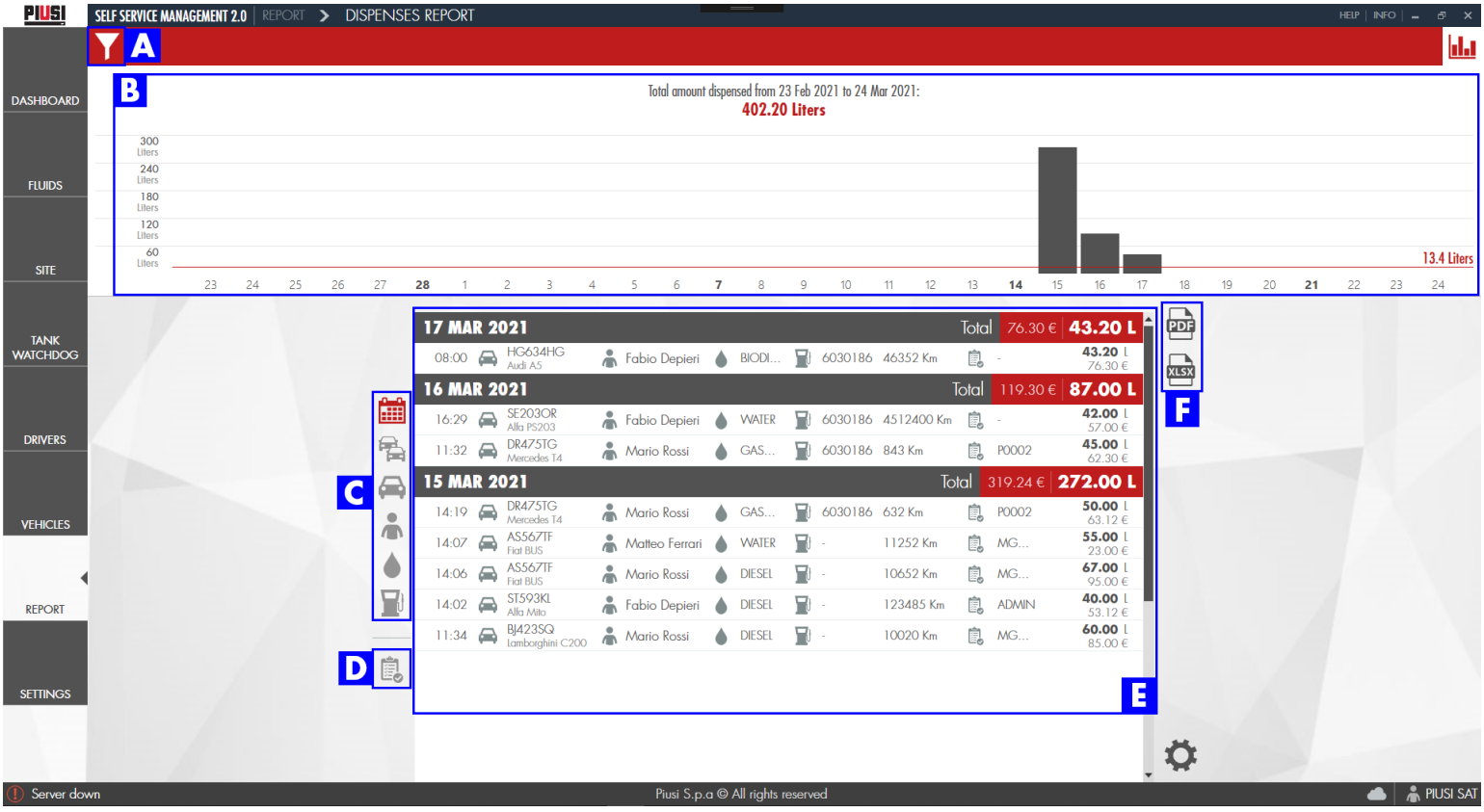
12.1 Overview

The REPORT section, that can be accessed by pressing the menu icon beside, is the area where you can display and export the reports about dispense, consumption, fuel prices and movements.

In detail:

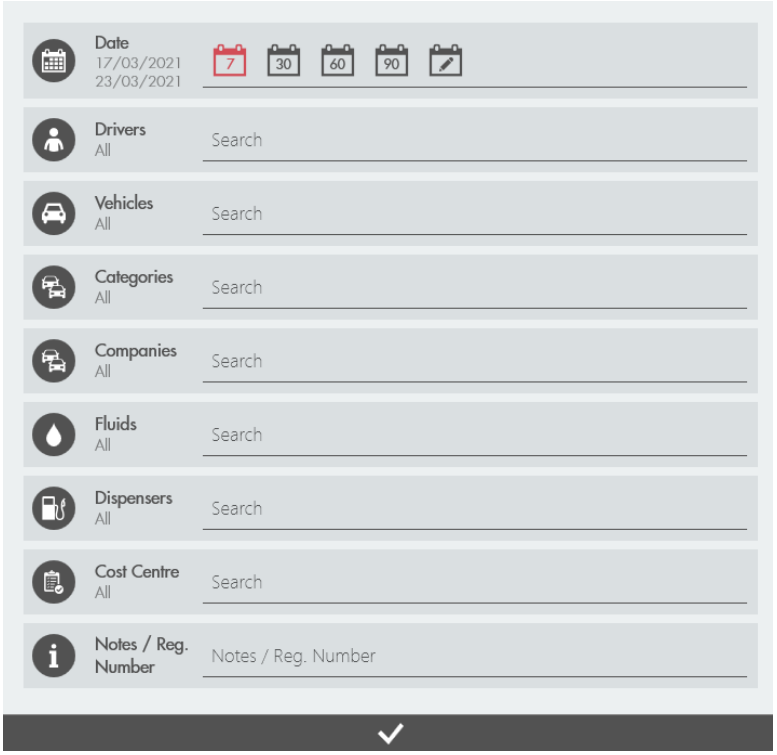
A. DISPENSES REPORTS – drawing up and export of detailed reports on the dispense made inside and outside the site. Includes the possibility to filter and reorganise dispense as one likes.
B. TANKS REPORT – drawing up of reports on the samples of tank levels over time.
C. CONSUMPTIONS REPORT – drawing up and export of detailed reports on the site vehicle consumption. It offers the possibility of filtering the dispenses by date and vehicle.
D. UNITE PRICE TRENDS - drawing up of reports to display the trend of the purchase price of the site products from the relevant suppliers.

12.2 DISPENSES REPORTS



In detail:

A. FILTERING PANEL - pressing the button displays the filtering panel that allows dispensing operations to be filtered.



It is possible to filter by:

- Time range – latest 7, 30, 60, 90 days or customised range.
- Category – vehicle category
- Number plate – all the vehicles of the site
- Driver – all the drivers of the site
- Product – all the products of the site
- Device – fuels dispensers of the site, including filtering for external site, i.e. filtering of the dispenses made outside of the site.
- Vehicle company
- Cost centre - visible only if cost centres are enabled
- Notes and Registration number

B. CHART – bar chart representing the amount of products dispensed in the selected temporal range, divided by applied filters and grouped according to the selected criteria (group is shown on the x axis). The horizontal line (blue) represents the average amount of product in the selected temporal range taking into account filtering, if present.

C. GROUPINGS – indicates how the filtered dispenses must be grouped. Grouping can be made according to:

- Date
- Categories
- Vehicles
- Drivers

- Products
- Fuel dispensers

Important: grouping and filtering for the same type of object simultaneously is not possible.

D. GROUPING BY COST CENTRE - visible only if cost centres are enabled.

Important: The previous groupings (C) can still be used.

E. DISPENSE TABLE – list of the filtered and grouped dispenses. Dispensing operations to be displayed are not shown together, but are loaded upon request, as you scroll down the list. Calibrations are shown in a different way. Dispenses are distinguished according to the calibration factor, in addition to normal grouping in section C. The calibration factor represents the value of K used for refuelling or calibration. To display the calibration dispenses only press the  button and select the 'Calibrations' filtering.
F. EXPORT on FILE – export of the displayed dispenses, on a file. Exports to PDF and EXCEL spreadsheet are supported. The export includes dispenses grouped and filtered according to grouping and filtering selected by the user.

12.2.1 Edit dispense

A previously saved dispense can be edited. Dispense from the fuel dispenser and external dispense saved from the user must be distinguished. The following panel opens up by pressing on the desired dispense:

internal dispense edit panel:

A dispense registered internally can be modified, in addition you can:

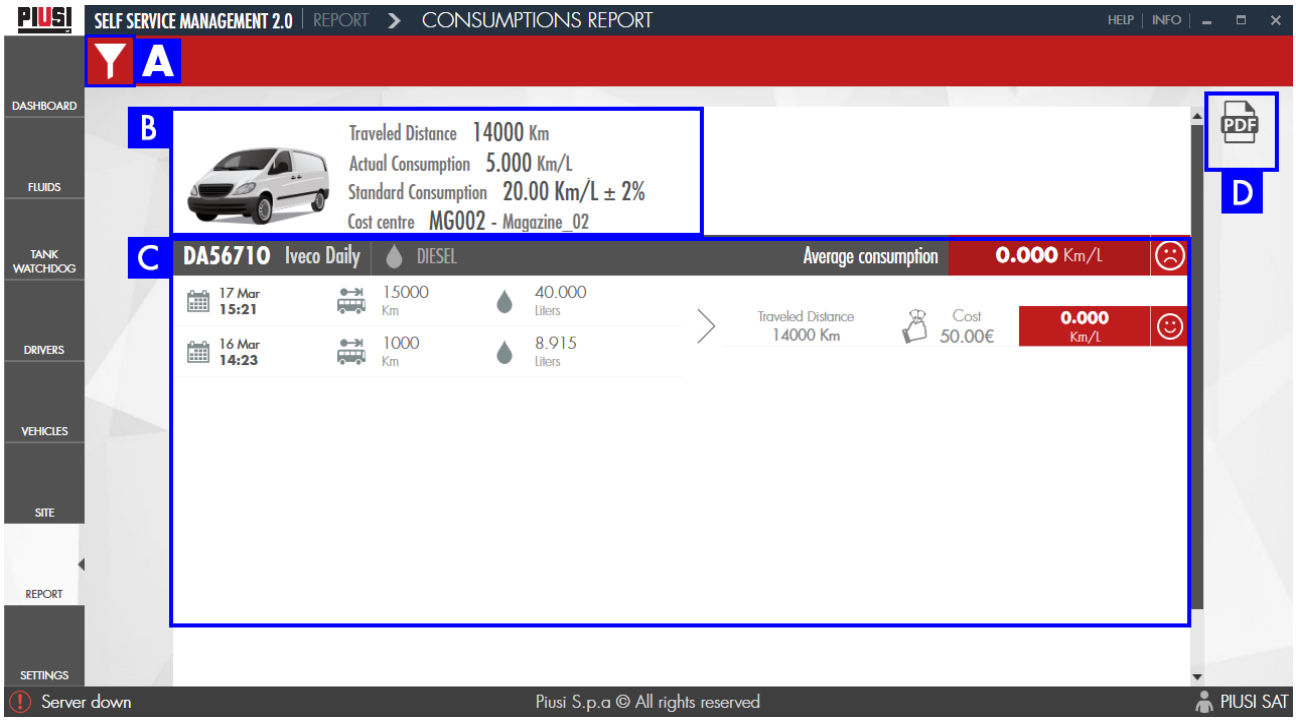
- Associate a vehicle when missing if the dispense has been made by a fuel dispenser not managing the iButton vehicle or if the driver has bypassed a vehicle.
- Always modify the odometer.
- Edit the additional notes.

Caution: after associating a vehicle to the dispense it will not be possible anymore to modify the associated vehicle.

External dispense edit panel:

An external dispense can always be edited in the field vehicle, odometer, quantity, notes and date/time at any moment.

12.3 VEHICLE CONSUMPTION REPORT



In detail:

A. FILTERS – list of filters for the dispenses that will be used for calculating the consumption of each vehicle. Available filters:
   - Date – latest 7, 30, 60, 90 days or customised range.
   - Vehicle category – vehicle categories of the site
   - Vehicle – all the vehicles of the site
   - Cost centre - visible only if cost centres are enabled

The report is always displayed grouped by vehicle. The grouping cannot be modified.

B. VEHICLE PANEL – summary panel, showing:
   - Vehicle image
   - Distance – total travelled distance in the selected period, calculated according to the vehicle odometer.
   - Global consumption – consumption of the vehicle considering all the dispenses made in the site and externally.
   - Standard consumption - assigned when the vehicle is entered.
   - Respective cost centre - visible only if cost centres are enabled

Caution: entering a wrong odometer may result in a wrong calculation of the distance travelled and therefore of the consumption.

C. CONSUMPTION TABLE – in detail:

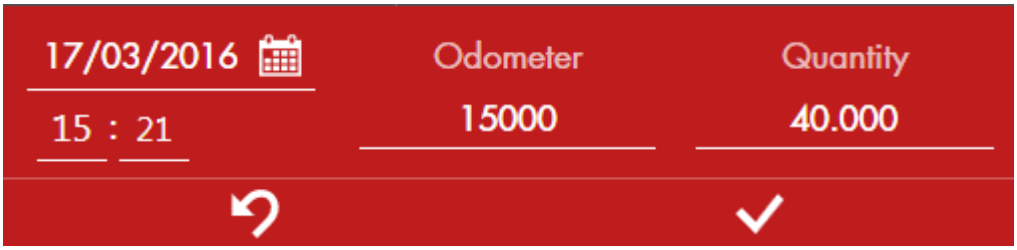
1. **Distance** travelled by the vehicle between one dispensing operation and the next. Calculated as difference between the odometer of one refuelling and the next one.
2. **Consumption** of the vehicle travelling that distance. Calculated by dividing the travelled distance by the consumed product quantity (corresponding to a site internal or external dispense). It can be displayed with different measurement units (see chapter 12.2).
3. **Cost** of the distance travelled. Calculated according to the unit cost of the product multiplied by the product quantity.
4. **Evaluation** of the consumption by coloured icon (see chapter 9).
5. **Average consumption** of the vehicle. Calculated as average value of the consumption calculated for each travelled distance within the selected period.

Caution: each dispense must be considered as a refuelling and the software never differentiates between topping up and refuelling.

D. EXPORT on FILE – export of the displayed consumption, on a file. Exporting on PDF is supported. The export includes dispenses filtered according to the filtering selected by the user.

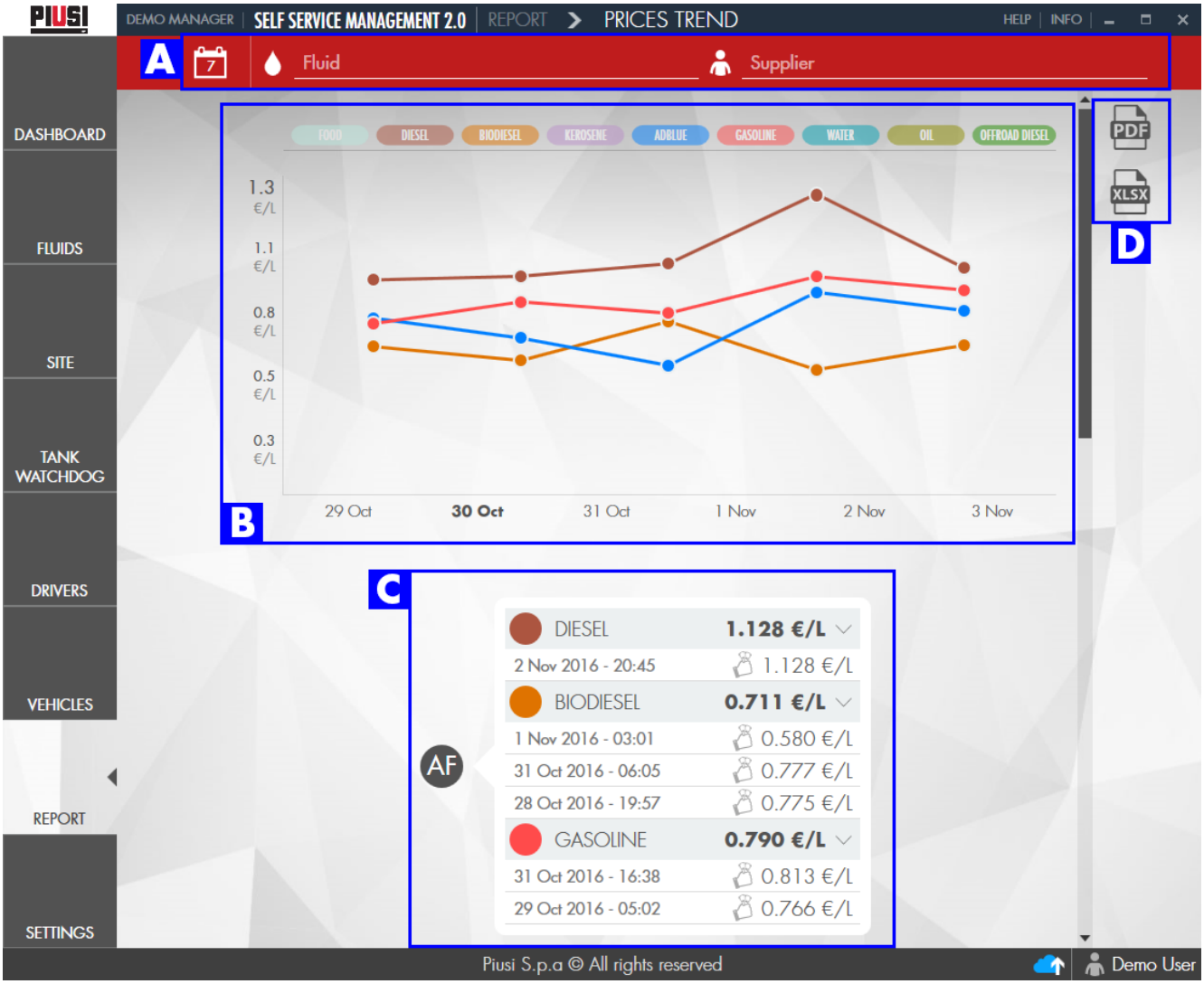
12.3.1 Edit dispense

A previously saved dispense can be edited. Dispense from the fuel dispenser and external dispense saved from the user must be distinguished. The following panel opens up by pressing on the desired dispense:



The fields that can be edited vary according to the selected dispense type: indeed, for an internal dispense, the odometer only can be edited; for an external dispense, the date, the odometer and the dispensed quantity can be edited.

12.4 FUEL PRICE TREND REPORT

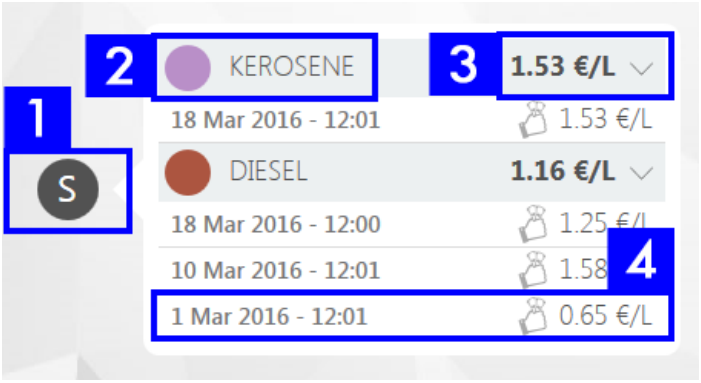


In detail:

A. FILTERS – list of the filters used for filtering price trends. Available filters:
   - Date – latest 7, 30, 60, 90 days or customised range.
   - Product – all the products of the site
   - Supplier – all fuel suppliers in the site.

B. CHART – displays the price trend of the products of various suppliers over time.

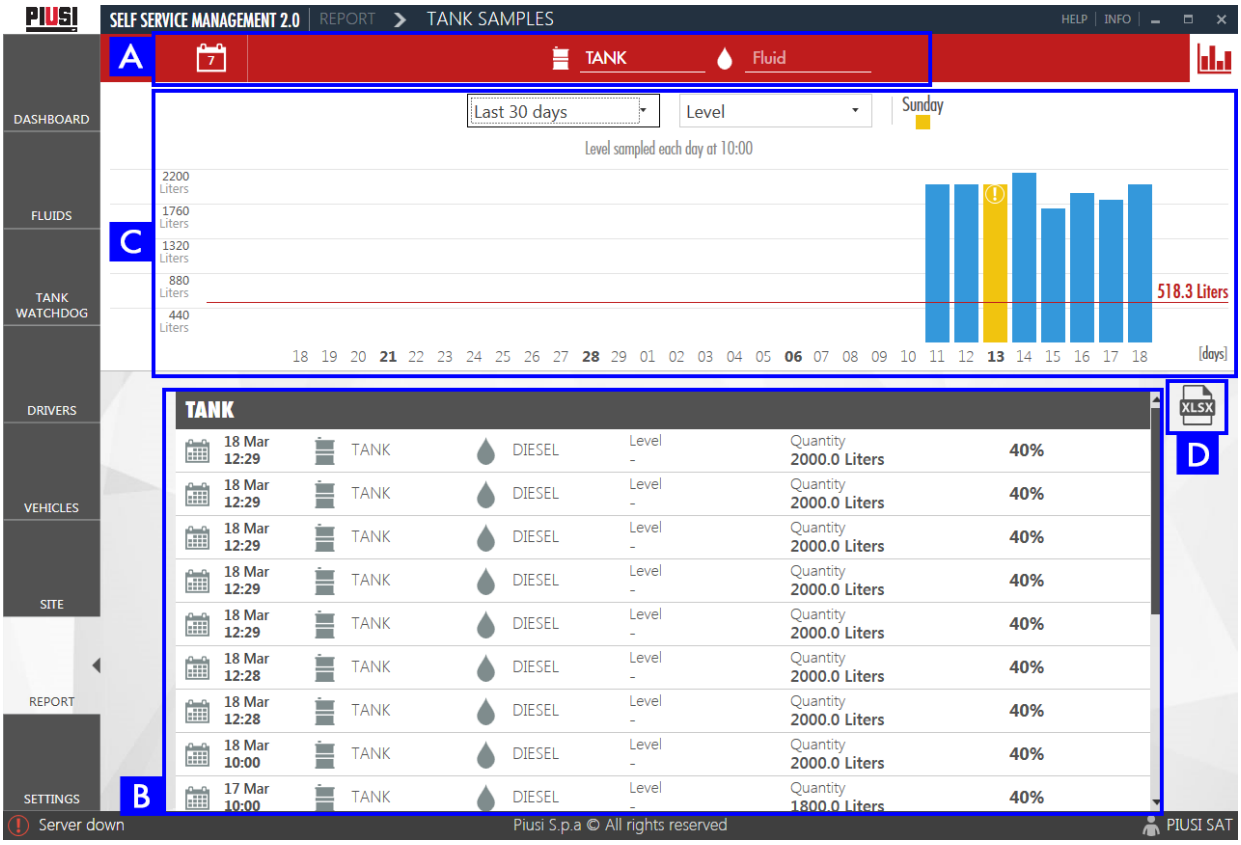
C. SUPPLIER PANEL – each supplier is grouped in a panel which includes: all the unit prices of the purchased (i.e. present in the tanks) products from the supplier, according to the product type. Each product is associated with an average price, which represents the mean value of the prices of purchase for the products over time. In detail:



1. Supplier.
2. Product.
3. Product average price.
4. Product load with its unit price. The unit price of the load, calculated by dividing the total price by the total amount of fluid loaded in that date (see chapter 7.3).

D. EXPORT ON FILE - exporting the prices of the fillings performed to a file. Exports to PDF and EXCEL spreadsheet are supported. The data exported depends on the context of any filter applied.

12.5 TANK REPORT



In detail:

A. FILTERS – list of the filters used for filtering the level sample displaying. Available filters:
   - Date – latest 7, 30, 60 days or customised range.
   - Tank – the tanks of the site.
   - Product – all the products of the site

B. SAMPLE TABLE – List of the samples taken for each tank at every hour. They are grouped by tank if no filtering is active. In detail:

1. DATE and TIME – of the sampling.
2. TANK – tank from which the sample has been taken.
3. PRODUCT – which fluid is inside the tank at the sampling.
4. LEVEL – level of the product in the tank in millimetres or inches (this information is available only for tanks monitored by Ocio).
5. QUANTITY – quantity of the fluid in the tank, in litres or gallons.
6. PRODUCT PERCENTAGE
7. OCIO DISCONNECTED – indicates if the sampling occurred when the Ocio was not communicating with the Self Service Management 2.0 system.

C. GRAPH – if the samples are filters by single tank you can display the graph for the trend of product level in that tank over time.
You can display the sample graph of the last 24 hours or of the last 30 days, represented in two different ways:

- Level graph – where each bar corresponds to the quantity of fluid sampled in that hour if the displaying of samples of the last 24 hours is set. If instead the samples of the last 30 days are displayed, each bar corresponds to the quantity of fluid sampled at 10:00 that day.

- Level variation graph – shows the trend of the variation of the fluid quantity in the tank over time. A positive level variation is represented by the  arrow and a negative level variation is represented by the  arrow.

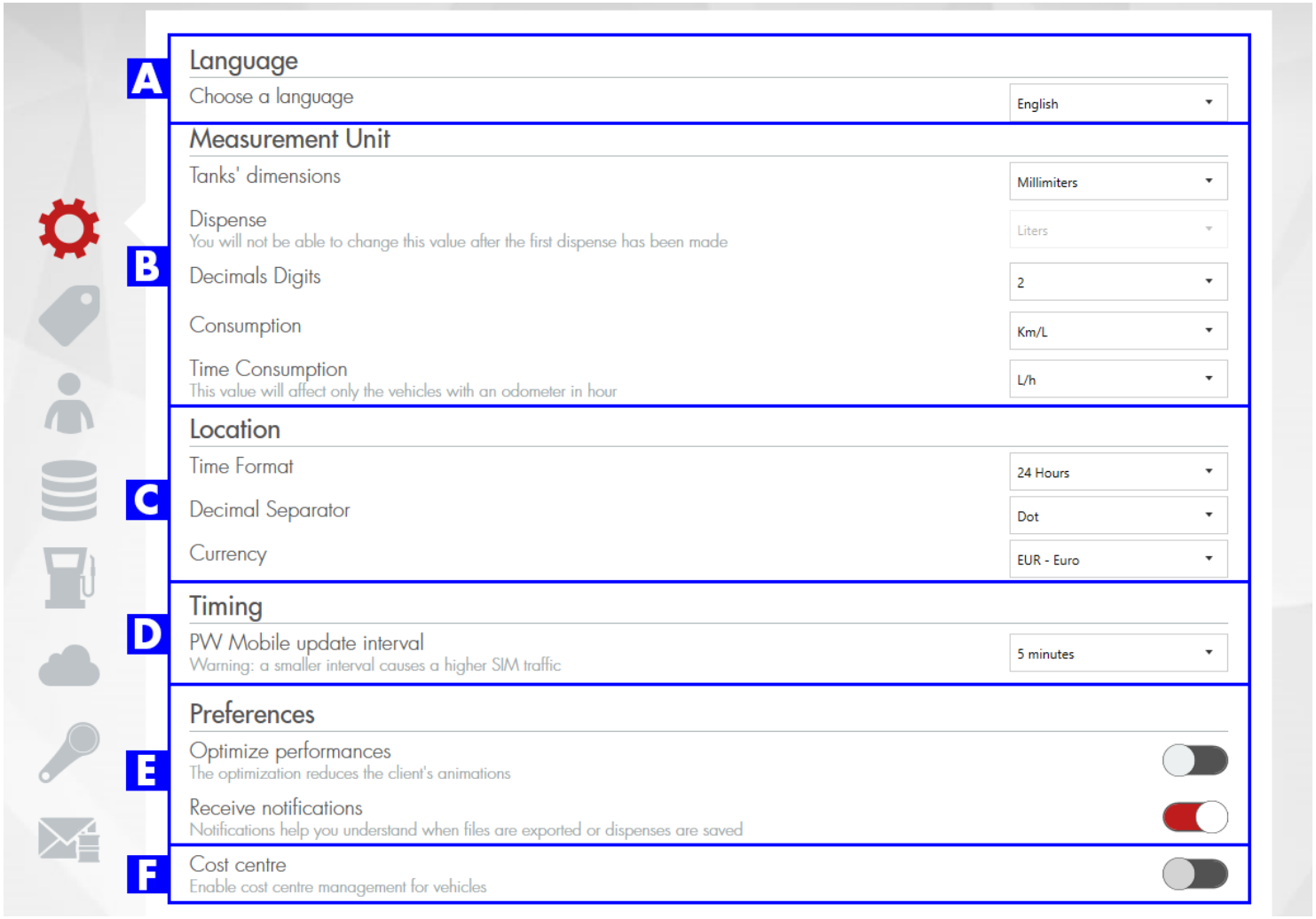
D. REPORT EXPORT ON FILE – you can export all samples on an Excel file.

13. CONFIGURATION

13.1 Overview

The SETTINGS section can be accessed by pressing the menu icon shown to the side. This is the area where site settings are managed. Software operation configuration, software user administration, database backup programming, Site Owner data management and fuel dispenser language change can be performed here.

13.2 GENERAL CONFIGURATIONS



In detail:

A. LANGUAGE – software language selection.
B. UNITS OF MEASUREMENT – units of measurement selection:

- Unit of measurement of devices – defines the unit of measurement of the fluid delivered by the fuel dispensers (litres or gallons) and the quantity of fluid in the tanks monitored by the Ocios. After the first dispense the unit of measurement of the devices cannot be changed any longer.
- Decimal digits - this defines the number of decimal places of the fluid quantity to be displayed in the dispensing reports
- Vehicle consumption measurement unit (distance) – defines the unit of measurement for displaying the reports of the vehicle consumption that measure the odometer in distance (miles or kilometres).
- Vehicle consumption measurement unit (time) – defines the unit of measurement for displaying the reports of the vehicle consumption that measure the odometer in time (hours).

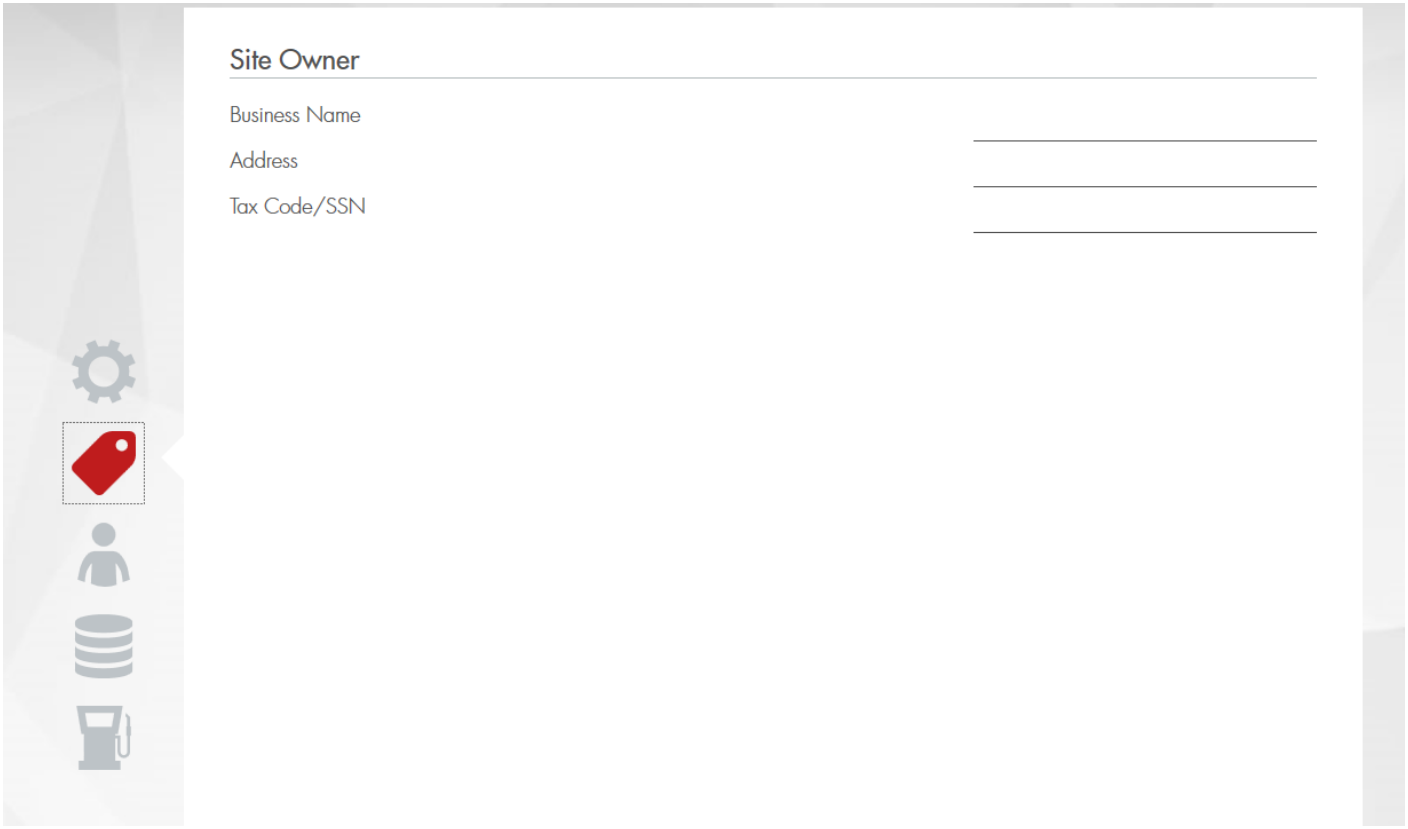
C. HOUR FORMAT – preferred format (12/24-hour) for displaying the times shown in the software.
C. DECIMAL SEPARATOR – preference for displaying the fractional part (dot or comma)
C. CURRENCY – defines the currency for the prices of the operations. Important: no currency conversion is made on the prices if this setting is changed.
D. TIMING – If there are PW Mobiles in the site, indicate the time interval to use for the periodic searching of devices connected to each PW Mobile. The permitted time intervals are: 5, 10 and 15 minutes, with the option of manual synchronisation management by setting the configuration to 'Only on request'.
If the choice is made to manage the fuel dispensers/Ocios in 'Only on request' mode, each device must be synchronised manually (See chapter 11.4).
E. PREFERENCES – includes general preferences that do not influence site management, such as the display colour, the optimisation that eliminates any software animation and the possibility to receive software notifications.
F. COST CENTRE - this allows you to enable cost centre management for vehicles (see Chapter 10.4)

All configurations are personal for the connected user, except for the device fluid unit of measurement, the currency and the PW Mobile update frequency. Therefore each user can set configurations as preferred.

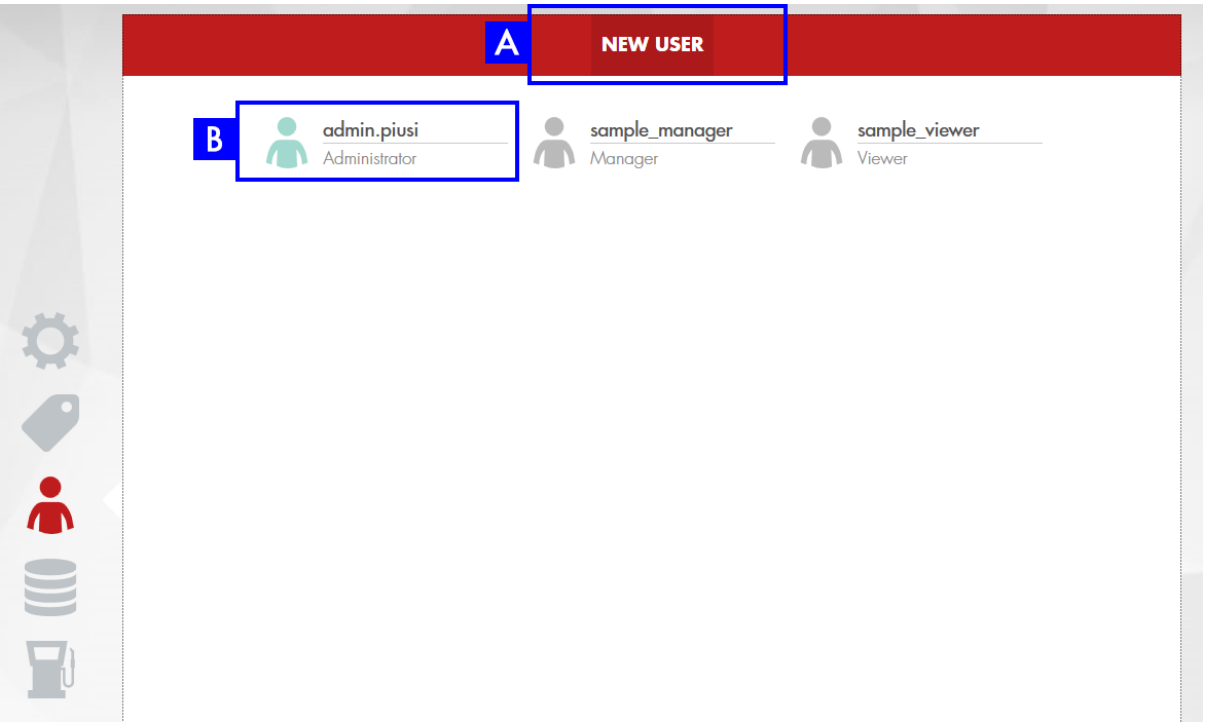
WARNING:

- *Pay great attention in choosing the PW Mobile update time interval: choosing a short synchronisation interval (5 minutes) means a considerable increase in the data traffic generated in the time frame. Check the quantity of data traffic available for your SIM before choosing the most appropriate timing. If constant automatic synchronisation over time is not required, it is advisable to manage synchronisation with the devices in 'Only on request mode', in order to have management with greater control over the traffic generated.*

13.3 SITE OWNER DATA

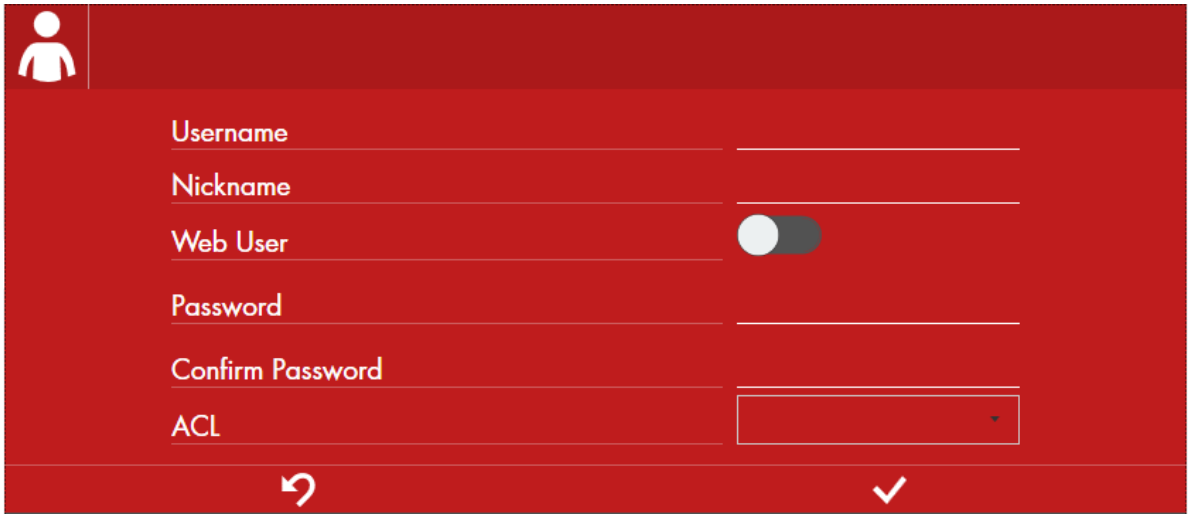


13.4 USER DATA MANAGEMENT



In detail:

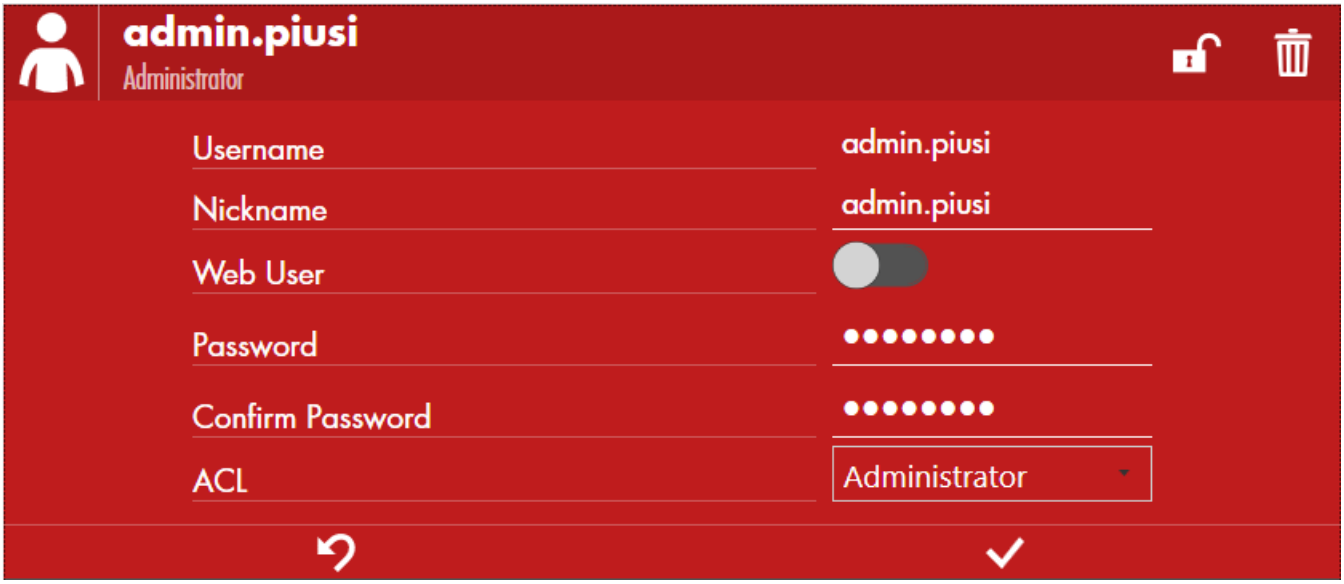
A. NEW USER – press this button to access the panel for adding a new user in the system. The panel is below:



For entering username, password and selecting the privilege level of the user, between ADMINISTRATOR, MANAGER and VIEWER (see chapter 13.4.1).
Username and password must compulsorily have between 6 and 15 characters.
A nickname must be provided, which will be used to identify the user in SSM2.OCLOUD (maximum length of 25 characters). Indicate whether this user can use their credentials for authentication on the SSM2.OCLOUD web portal, by enabling the 'WEB USER' option.

B. USER PANEL – summary panel with the user data. The username is shown along with its privilege level and the icon that monitors his connection status, which becomes green when the user is connected to the site with an additional client and stays grey when the user is disconnected from the site.

When the user has been added, their characteristics can be modified by accessing their panel. See image below:



The following actions can be performed in the panel:

- Editing user data, username, password and privileges.
- Removing the selected user, who won't be able to access the software any longer.
- Disabling authentication for the user, who won't be able to access the software until and administrator re-enables him/her.
- Forcing a connected user logout, immediately closing the session.

WARNING:

- *It is not possible to delete all users of the site. At least one administrator must always be present in the site. Only users with an ADMINISTRATOR privilege level can delete other users.*

13.4.1 User privilege levels

Software functions can be limited according to the privilege level of the user. The type of users are as follows:

- Administrator
- Manager
- Viewer

The corresponding privileges are as follows:

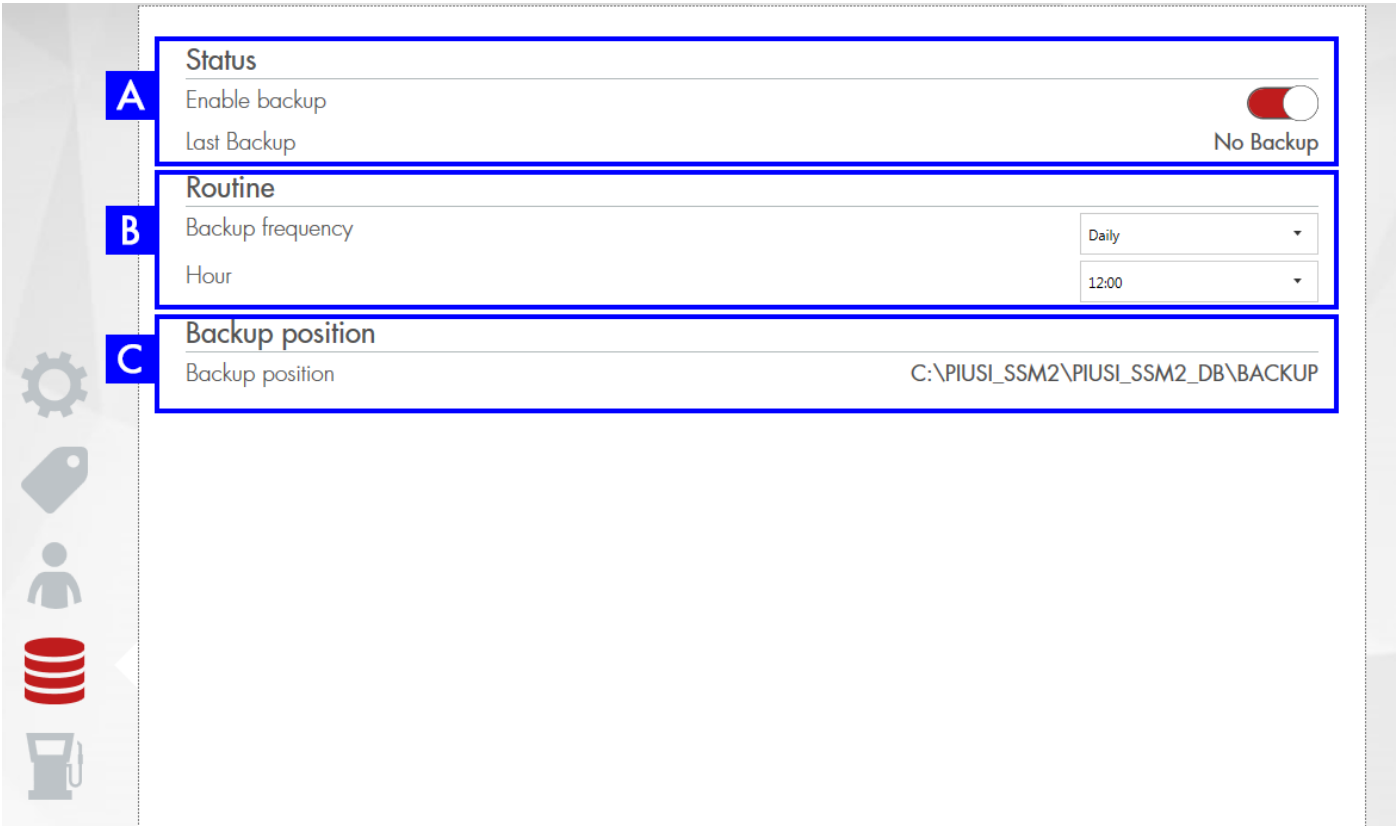
ACTION	ADMIN	MANAGER	VIEWER
Edit / Configure Dashboard	YES	YES	YES
Add / Edit / Remove products	YES	YES	NO
Add / Edit / Remove suppliers	YES	YES	NO
Add / Edit / Remove tanks	YES	YES	NO
Make level adjustments on the tank	YES	YES	NO
Load the tank	YES	YES	NO
Unload the tank	YES	YES	NO
Add / Edit / Remove drivers	YES	YES	NO
Add external dispenses	YES	YES	NO
Re-assign the max. quantity to be dispensed by the driver in the period	YES	YES	NO
Add / Edit / Remove vehicles	YES	YES	NO
Edit vehicle categories	YES	YES	NO
Search for devices connected to the site	YES	NO	NO
Add/Modify/Remove PW Mobile	YES	NO	NO
Force data synchronisation with devices connected to a PW Mobile	YES	YES	NO
Edit / Remove fuel dispensers	YES	YES	NO
Associate drivers and vehicles to fuel dispensers	YES	YES	NO
See and export dispense report	YES	YES	YES
View and export vehicle consumption reports	YES	YES	YES
Edit dispense	YES	YES	NO
Edit site configurations	YES	YES[1]	YES[1]

[1] Only preferences differentiated according to the user can be edited. E.g. Language, as the consumption and price display formats, can change according to the user.

Add / Edit / Disable users	YES	NO	NO
Edit backup settings	YES	NO	NO
Edit fuel dispenser language	YES	NO	NO
Look for software updates	YES	NO	NO
Manage Manager Key [2]	YES	YES	NO
E-MAIL service configuration	YES	NO	NO

[2] Possibility of reading and writing Manager Key data

13.5 DATABASE BACKUP CONFIGURATION



In detail:

A. ENABLE/DISABLE BACKUP – you can enable and disable the backup automatic procedure for the database. The procedure is always enabled by default. The date of the last backup made is always displayed. It is recommended to keep this function always active.
B. BACKUP ROUTINE – indicate the frequency for the database backup:
    - Daily – one backup a day at the indicated time.
    - Weekly – one backup a week at the indicated day.
C. BACKUP POSITION – shows the path where the performed backups are saved. The path cannot be edited. The backup folder is created during the installation. The preset path is: C:\PIUSI_SSM2\PIUSI_SSM2_DB\BACKUP

The latest backup performed is always available, including the latest 5. The format of the ".bck" files is as follows: ssm2_bck_yyyymmdd_hhmmss.bck where 'yyyy' indicates the year, 'mm' the month, 'dd' the day, 'hh' the hour, 'mm' the minutes, 'ss' the seconds at which the backup has been saved.

WARNING:

- *If the SSM2SERVICE is off or disconnected, the automatic backup service is not guaranteed.*

13.6 FUEL DISPENSER LANGUAGE UPDATE

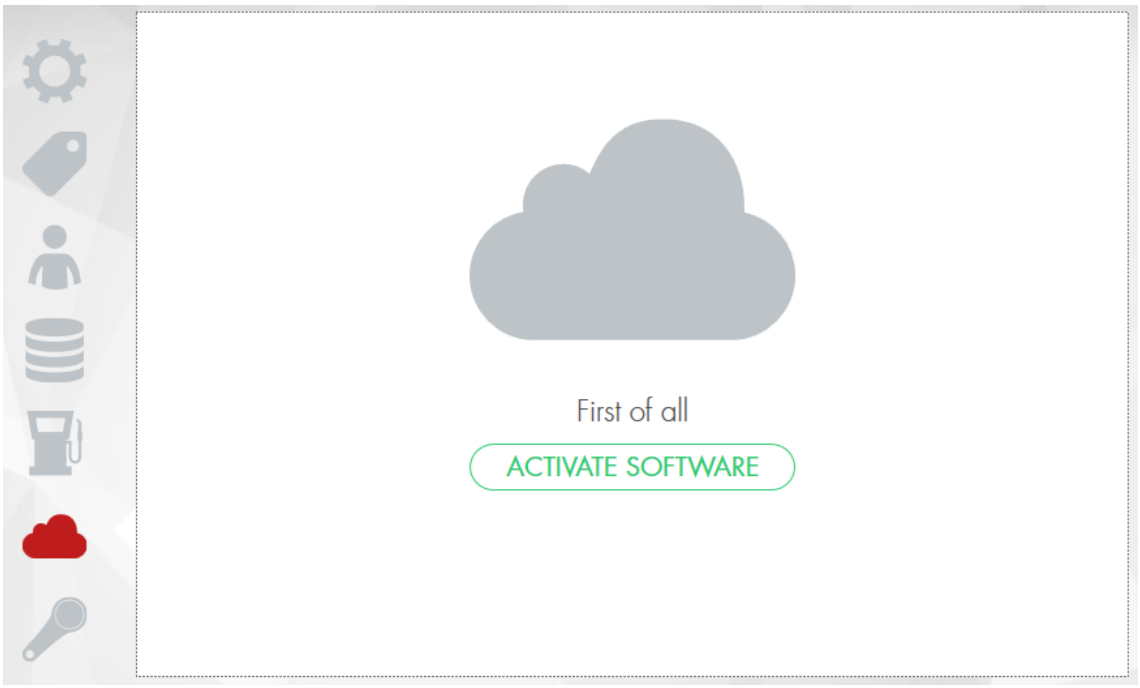
In detail:

A. FUEL DISPENSER LIST – all the fuel dispensers of the site are shown along with their operating status. The language currently loaded for each fuel dispenser is shown.

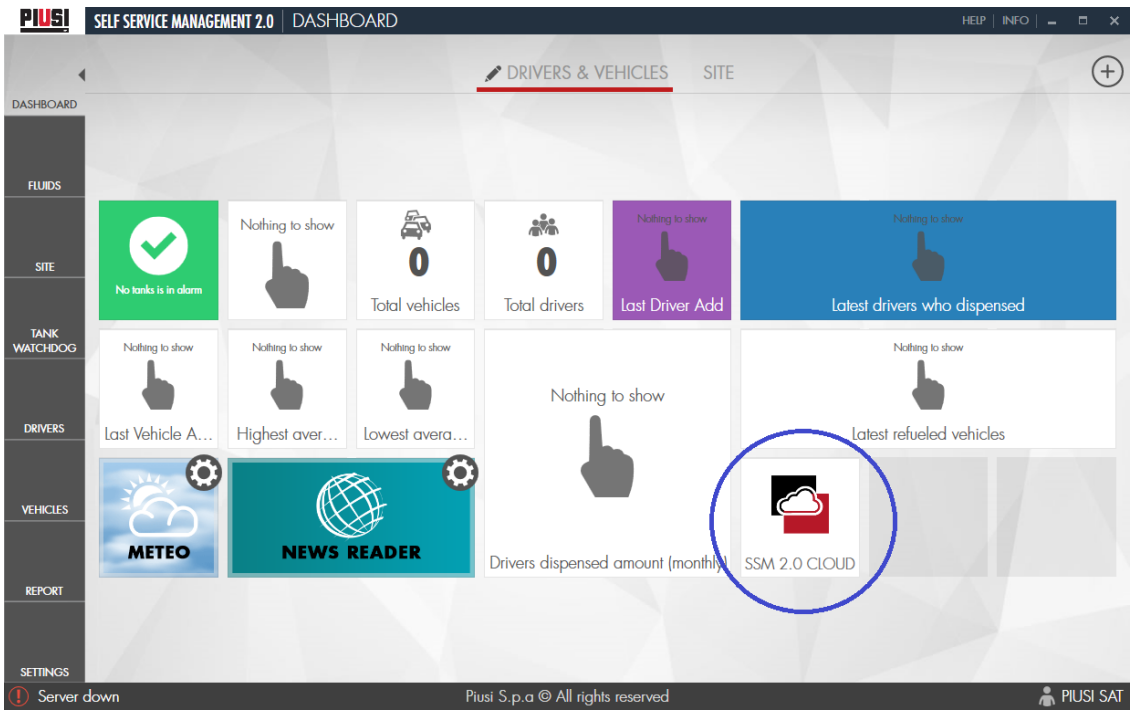
Select the desired one from the list and press the save button to change language. If the process needs loading a language block other than the one pre-installed in the fuel dispenser a bar with the progress percentage will be displayed; a few minutes may be necessary in this case. At the end of the language change process the fuel dispenser is always restarted. You can change the language of the fuel dispenser only when it is ONLINE.

If the fuel dispenser is managed via Manager Key, select and save the new language using the button, return to the fuel dispenser configuration panel (See chapter 11.3) and write the new language with the new configuration onto a Manager Key. Bring the Manager Key to the chosen fuel dispenser to import the new language.

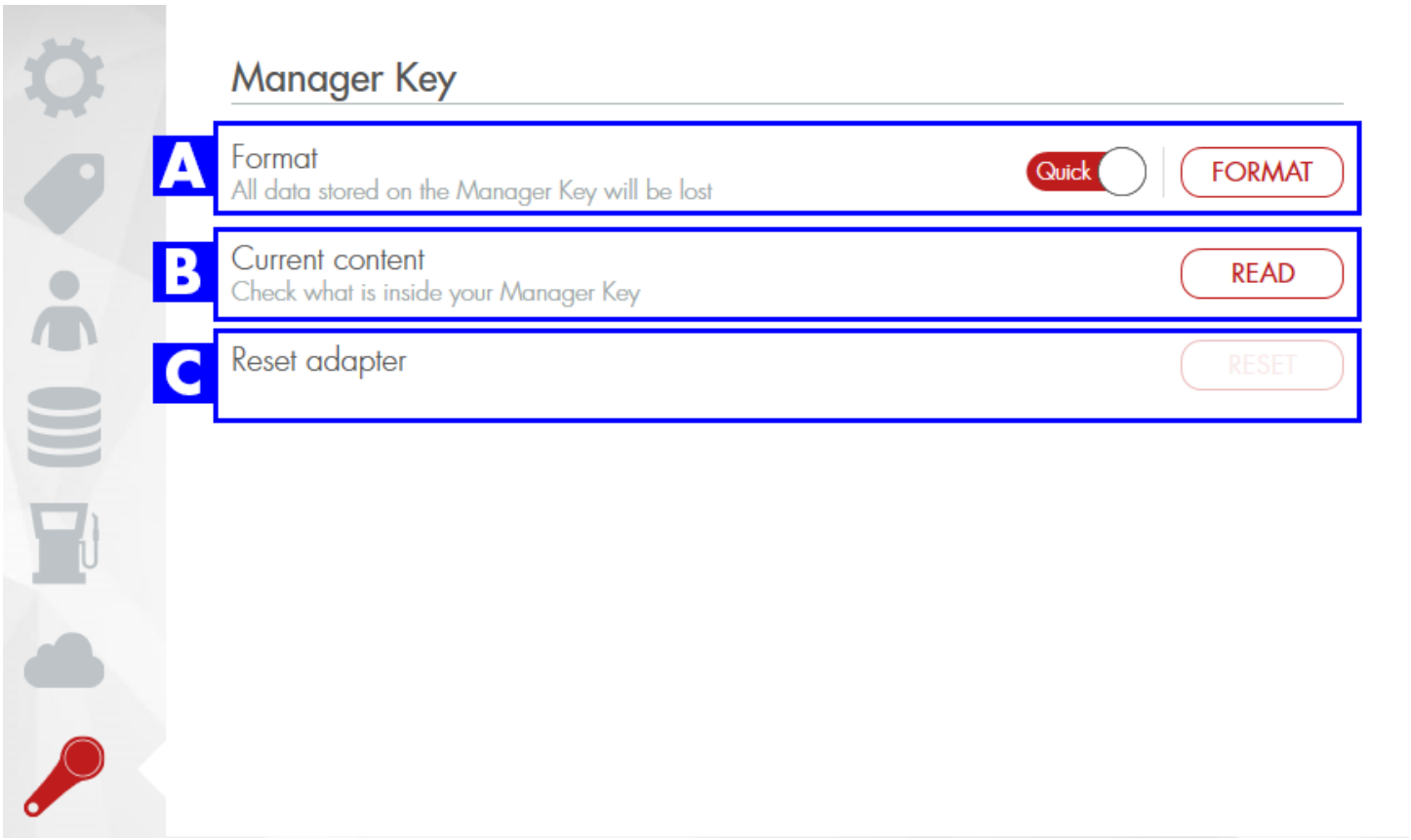
13.7 SSM2.0CLOUD



In this section you can activate the SSM2.0CLOUD service for the current site. To activate the service, you need to have registered the software and purchased the subscription from the Piusi portal. Refer to the 'SSM2.0CLOUD Configuration Manual' for the purchase and activation procedure. The manual can be consulted through the software by pressing the 'SSM 2.0 CLOUD' widget on the dashboard (See chapter 6.4).



13.8 MANAGER KEY



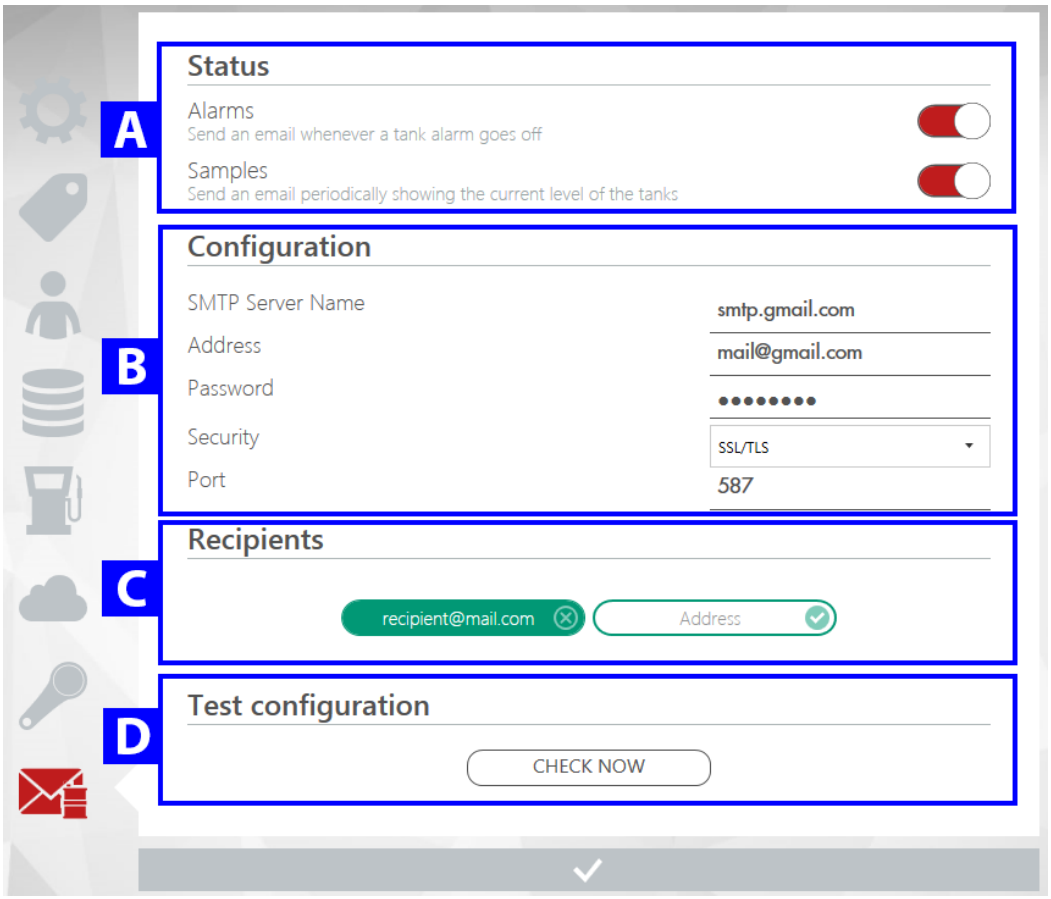
In detail:

A. KEY FORMATTING – deletes the contents of the Manager Key. Two types of formatting can be carried out:

   - complete format: completely deletes the contents of the key. The operation may require a few minutes.
   - quick format: deletes only the references to the data on the key.

B. KEY CONTENT READING – reads the data on the Manager Key.
C. RESET ADAPTER - resets the DS9490R iButton player, if necessary.

13.9 E-MAIL



In detail:

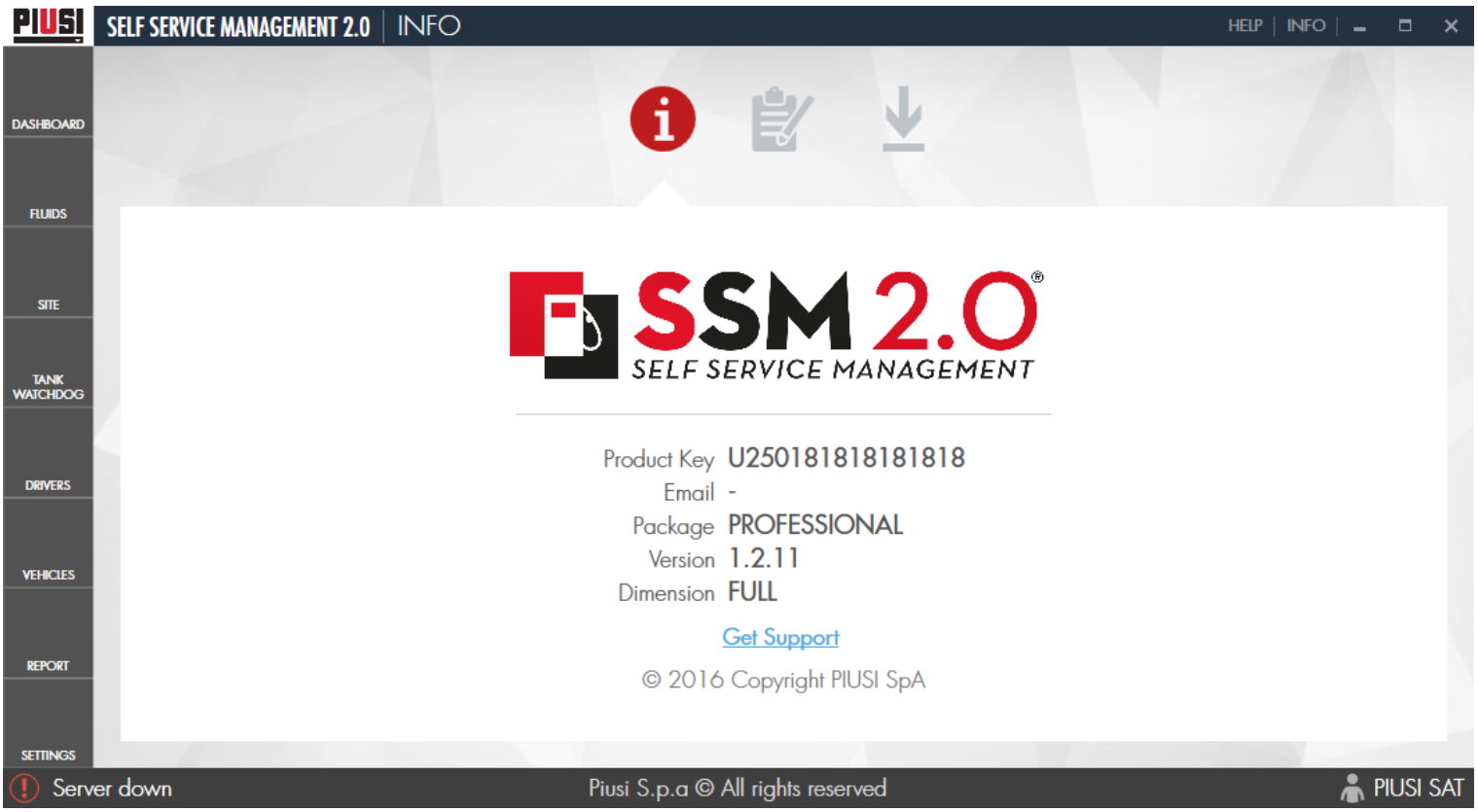
A. E-mail notification service activation status – indicate if you want to activate the service and for what type of event you want to receive the e-mail notifications:
    - Tank alarm notification – if active, an e-mail is sent every time one or more tanks enter the alarm status.
    - Tank sampling notification – if active, a periodic e-mail is sent (once every hour) with the level of product sampled from all the system tanks.
B. Configuration – indicate the parameters needed for the application to send an e-mail. Important: since the Self service management 2.0 application does not feature an SMTP server for sending e-mails, an external SMTP server must be specified. Specify the access credentials for the SMTP server, the communication port and the expected type of safety.
C. Recipient's e-mail address – e-mail address of those that will receive the notification e-mail.
D. Configuration check – press the button to 'CHECK NOW' to verify whether the service has been configured correctly. A verification e-mail will be sent to all the e-mail addresses of the recipients entered. If the recipients receive the verification e-mail the configuration is valid and the service operates correctly.

14. SOFTWARE INFORMATION, PRODUCT REGISTRATION AND UPDATES

The INFO button 

in the software program upper bar can be used to access the section for displaying the information about the product used and activate the product to receive software updates.
This section is divided into three submenus, license INFORMATION, product ACTIVATION and software UPDATE.

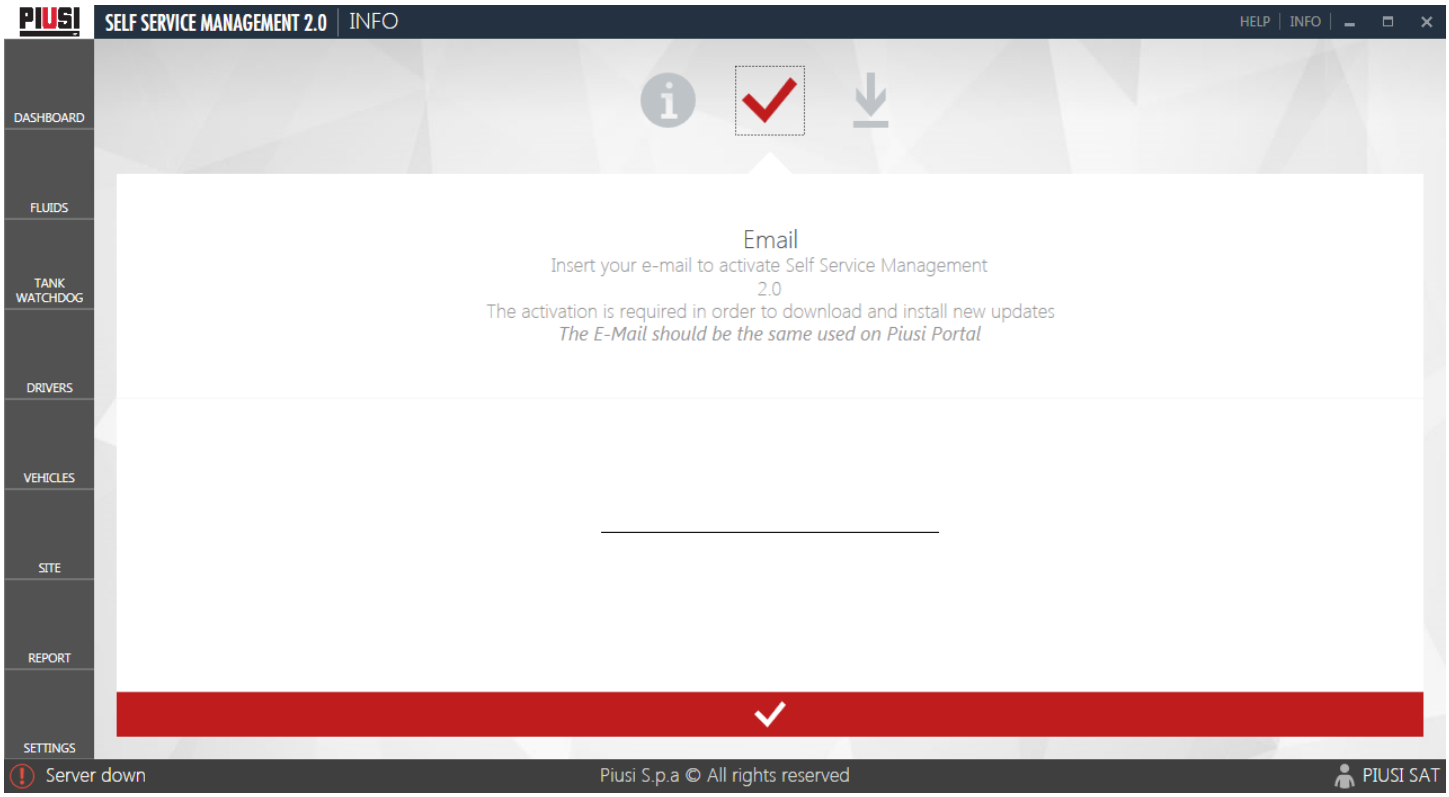
14.1 SOFTWARE INFORMATION



In this section, the information about the purchased licence is shown along with the software version currently used.

If required, press 'GET SUPPORT' to download the 'TeamViewer' application that allows Piusi to connect to the computer remotely to provide assistance.

14.2 PRODUCT ACTIVATION



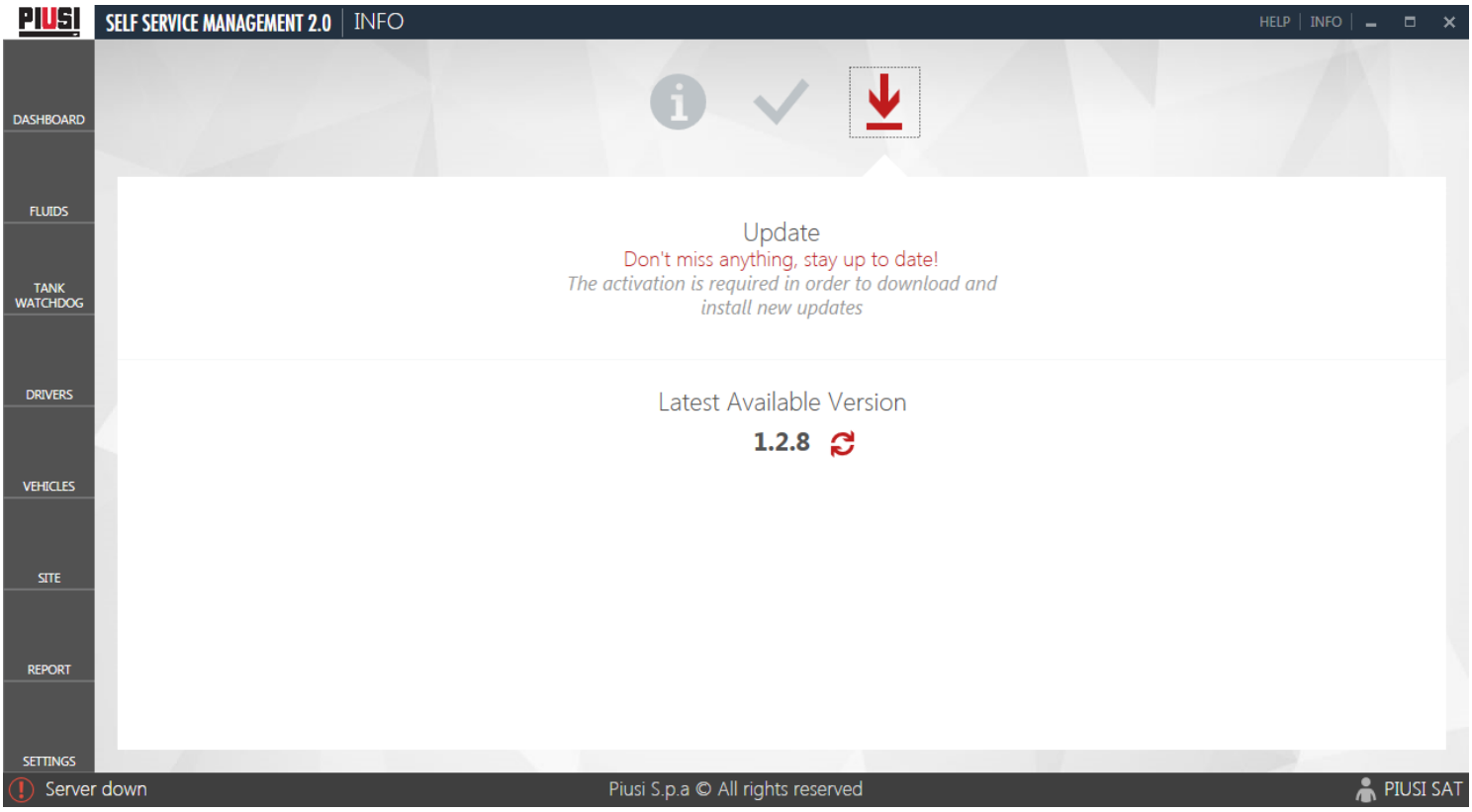
Activation of the product purchased is managed in this section in order to guarantee support for the software updates. Insert the E-mail address used to register on the Piusi portal (www.piusi.com -> PIUSI PORTAL) . If you are not registered on the portal yet we recommend to do it as soon as possible.

Every time there is a new update a comprehensive notice **UPDATE AVAILABLE** will be displayed, by pressing on it the user will be redirected to the UPDATES section (see chapter 14.3) to download the new software release.

WARNING:

- *An internet connection is necessary to activate the product.*
- *The product must be activated only once.*
- *We recommend to update the software at regular intervals if there are new updates.*

14.3 SOFTWARE UPDATES



This section shows the latest available update. To download it press the “download” button . You will be automatically redirected to the link for online download.

The search for updates is an automatic process that looks for a new software release in the Piusi servers at regular intervals. If the version currently used is the most recent you can try and look for a new update by pressing the button.

To download new updates make sure the product has been previously activated (see chapter 14.2).

WARNING:

- *An internet connection is necessary to download the update.*