APP MANUAL

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1. Introduction

The APP is compatible with iOS and Android operating systems and can be downloaded from the Google Play Console and App Store. It can work with 3G/4G or Wi-Fi data connection, for some features it can work also without data connection, in particular: manager authentication, calibration, dispenser firmware update, driver dispensing and ticket display.

To check if the APP is connected to the mobile network there is an indicator at the bottom left of the display that indicates:

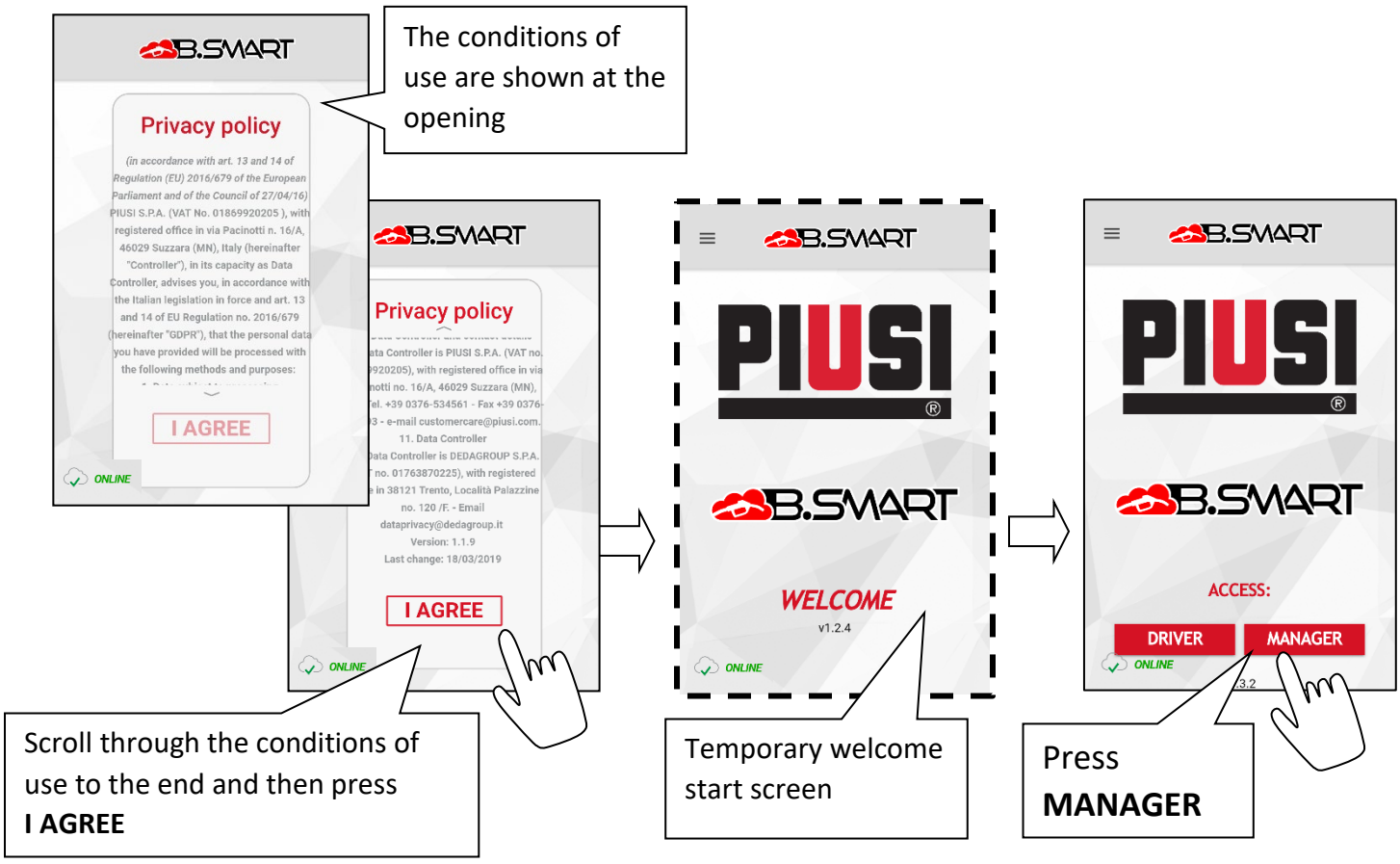
- OFFLINE:

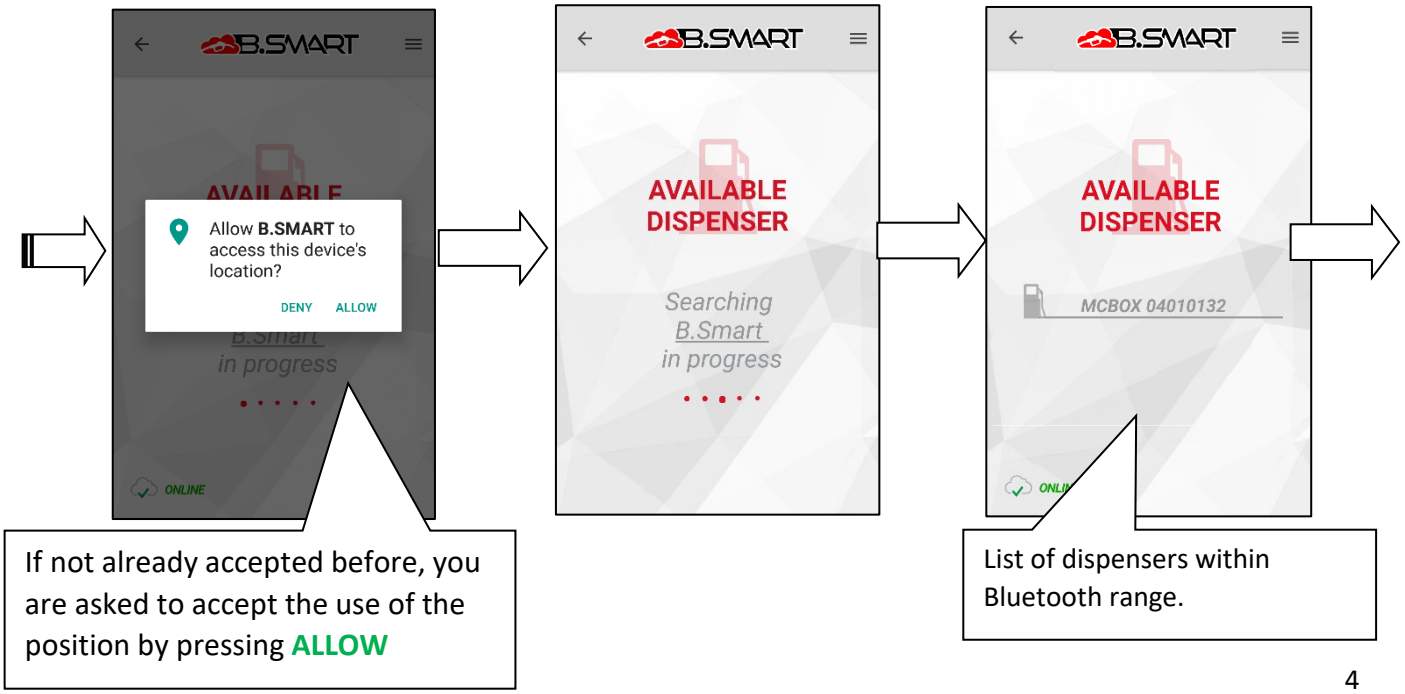
APP/smartphone not connected to 3G/4G or Wi-Fi
- ONLINE:

APP/smartphone connected to 3G/4G or Wi-Fi

2. Manager

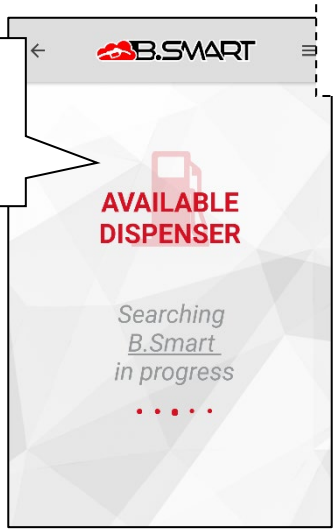
a. Authentication - Discovery phase





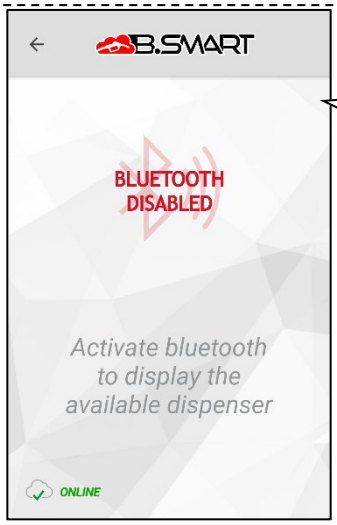
Dispenser search in progress

When searching for fuel dispensers, different errors may be signalled



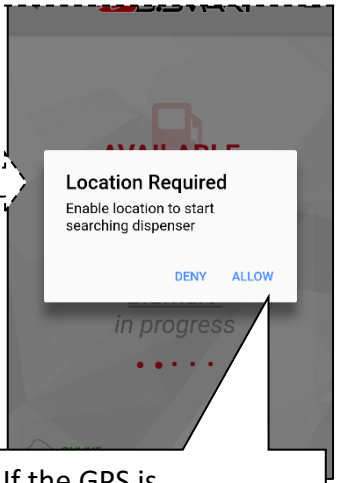
Dispenser found

BLUETOOTH DEACTIVATED

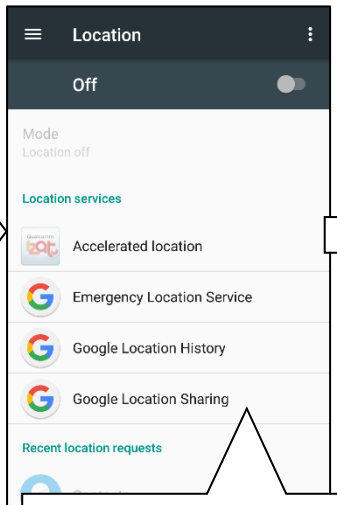


Activate Bluetooth from your smartphone settings

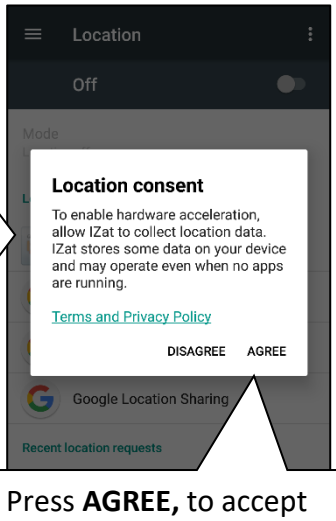
GPS DEACTIVATED



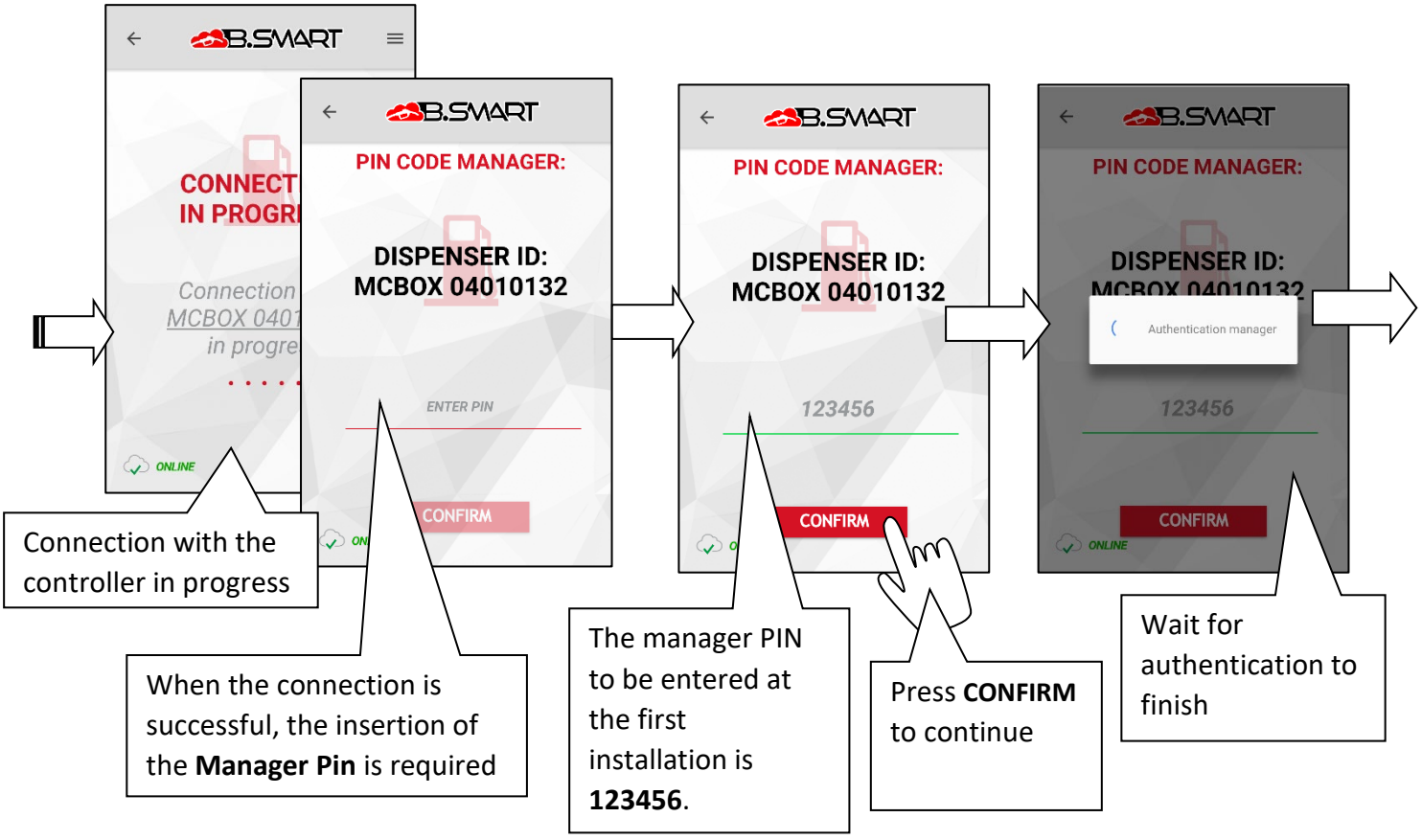
If the GPS is deactivated, press **ALLOW** to open the settings screen



Activate the GPS, using the button in the upper right and choose the type of service, from those in the list



Press **AGREE,** to accept the consent to the position, then return to the APP, which will show the list of fuel dispensers



Connection with the controller in progress

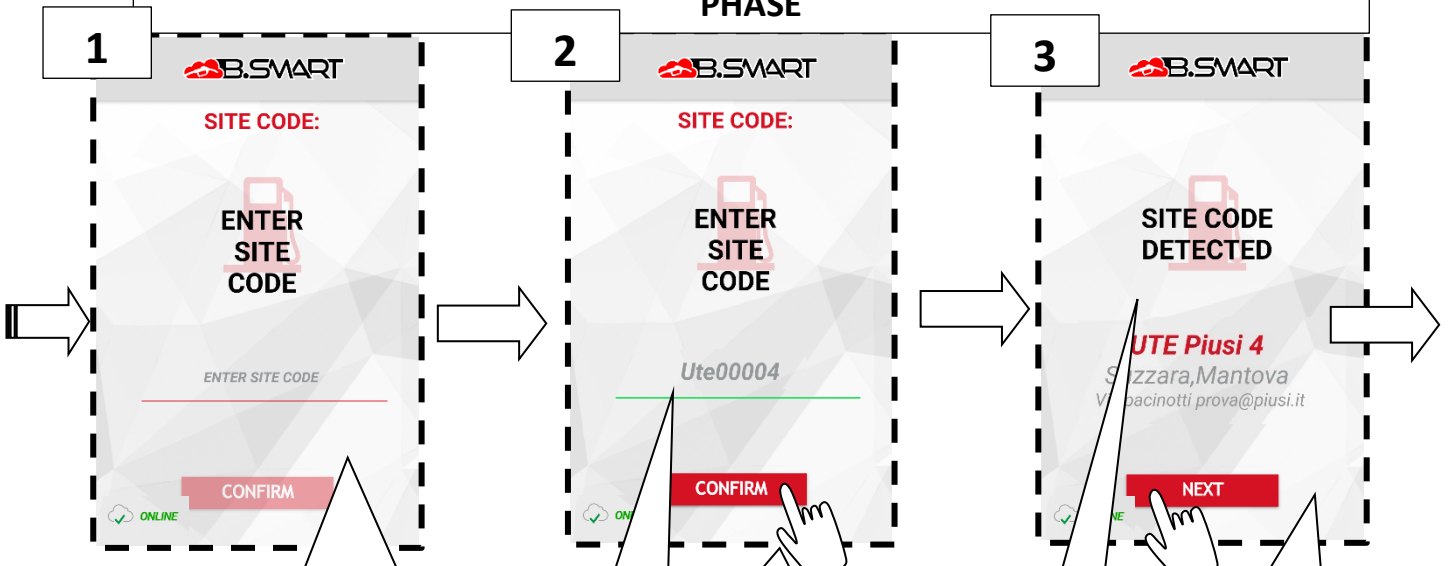
When the connection is successful, the insertion of the **Manager Pin** is required

The manager PIN to be entered at the first installation is **123456**.

Press **CONFIRM** to continue

Wait for authentication to finish

THESE 4 CONSECUTIVE SCREENS ARE PRESENT ONLY IN THE DISCOVERY PHASE



The **SITE CODE** must be entered

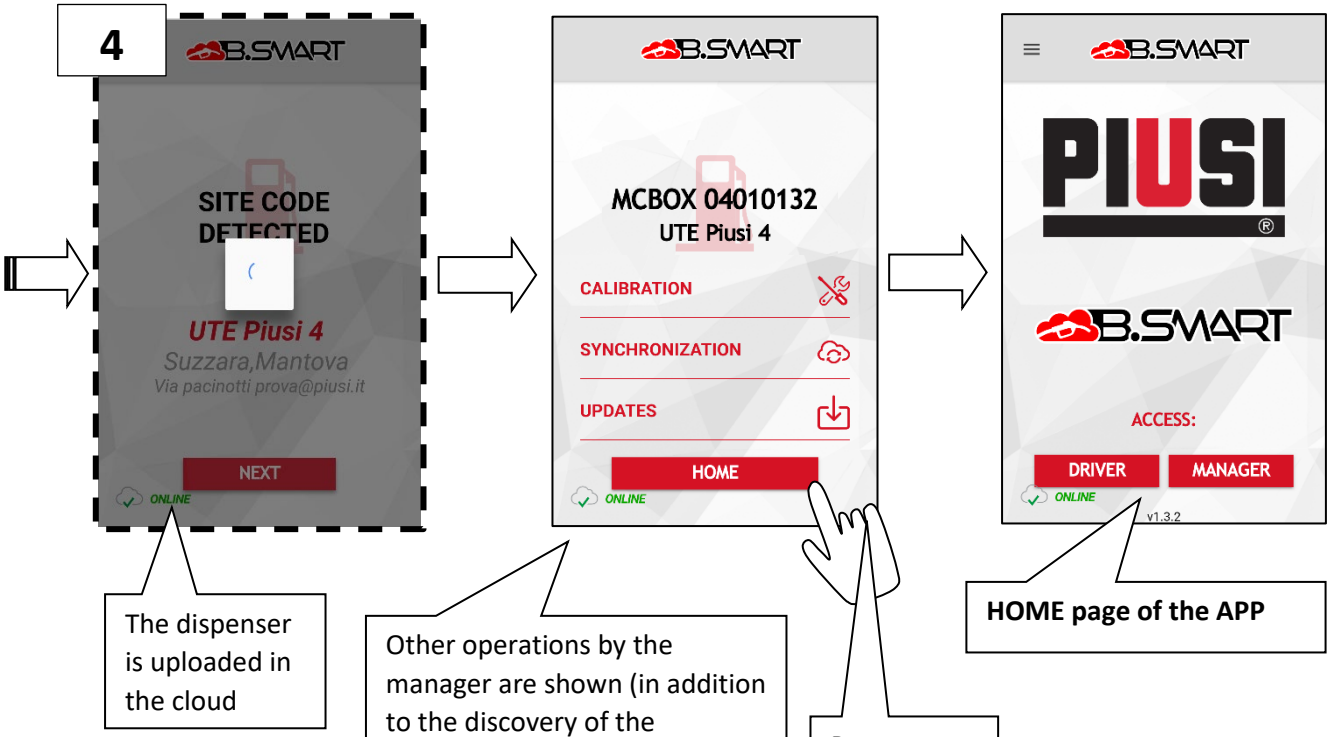
Enter the **SITE CODE** purchased in the license, for this example is Ute00004.

Press **CONFIRM** to continue

SITE CODE detected.

Press **NEXT** to continue.

Site data



The dispenser is uploaded in the cloud

Other operations by the manager are shown (in addition to the discovery of the dispenser and registration in the cloud)

These operations are:

1) Meter calibration
2) Forced synchronization of data in addition to all automatic synchronizations
3) Firmware updates of the electronic controller

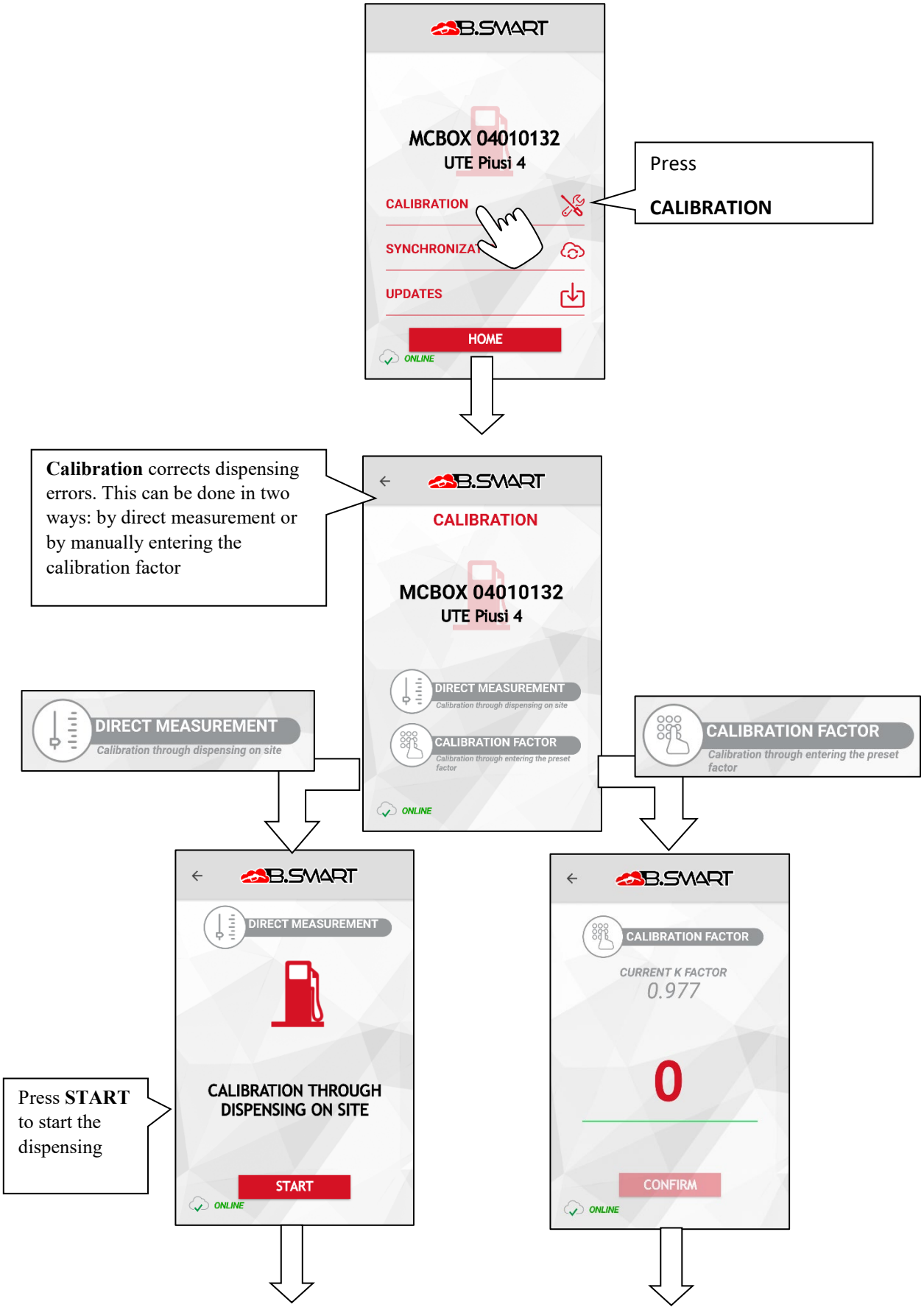
Press

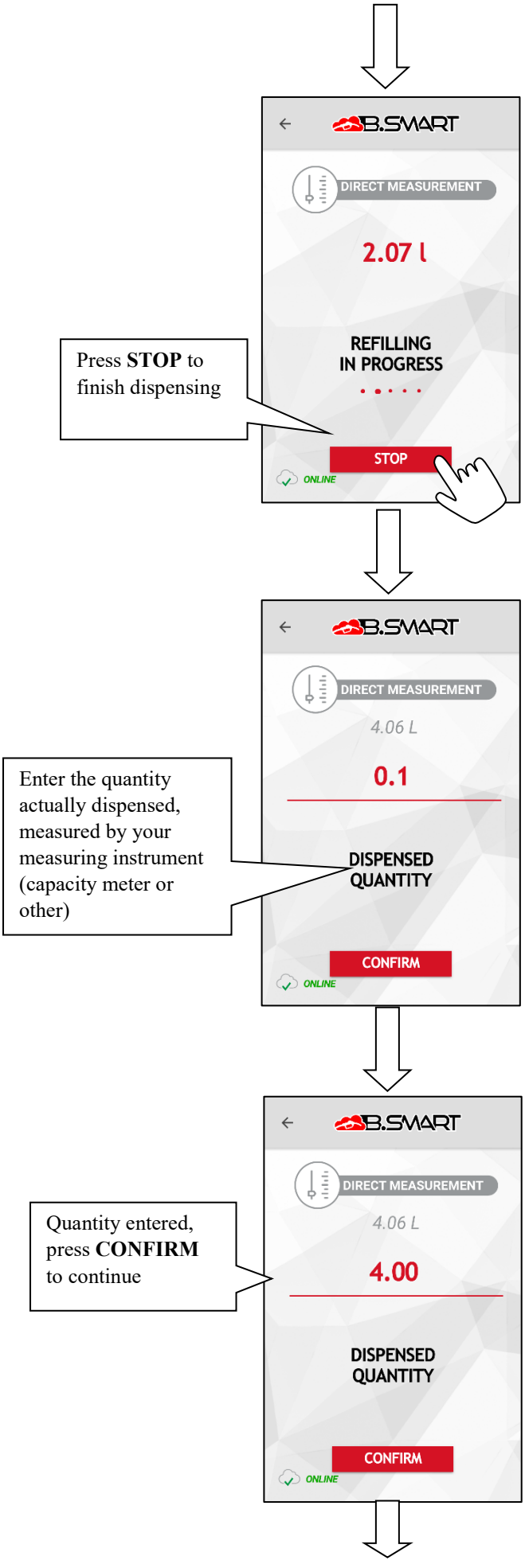
HOME

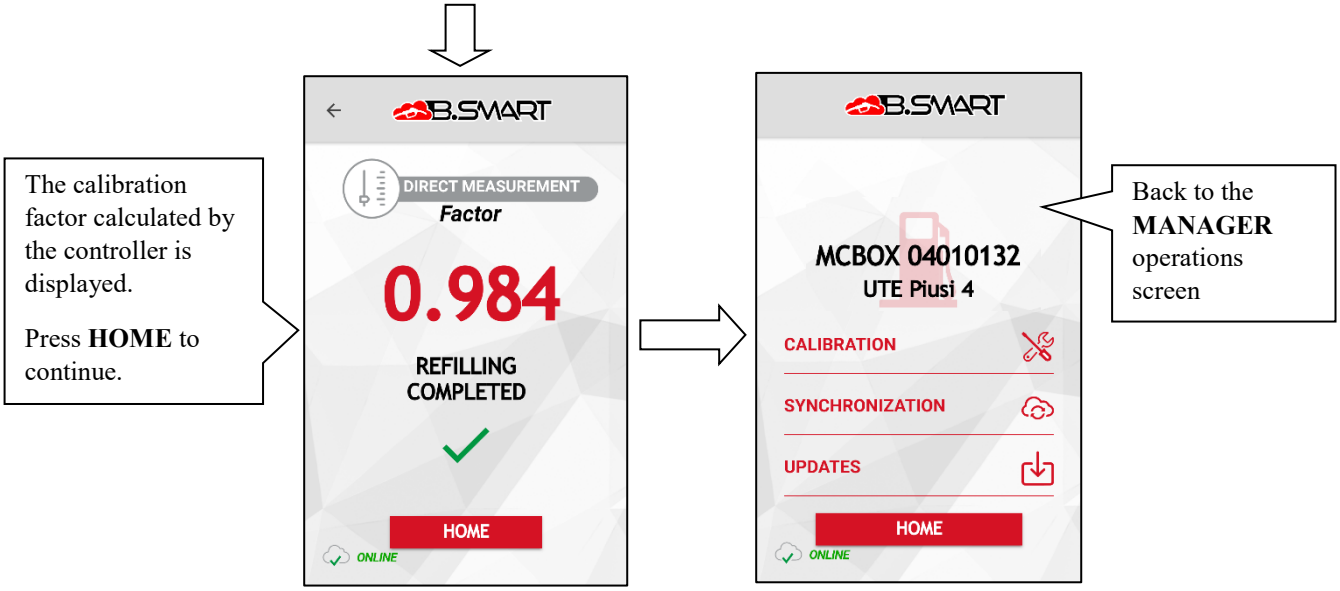
to return to the APP **HOME**

HOME page of the APP

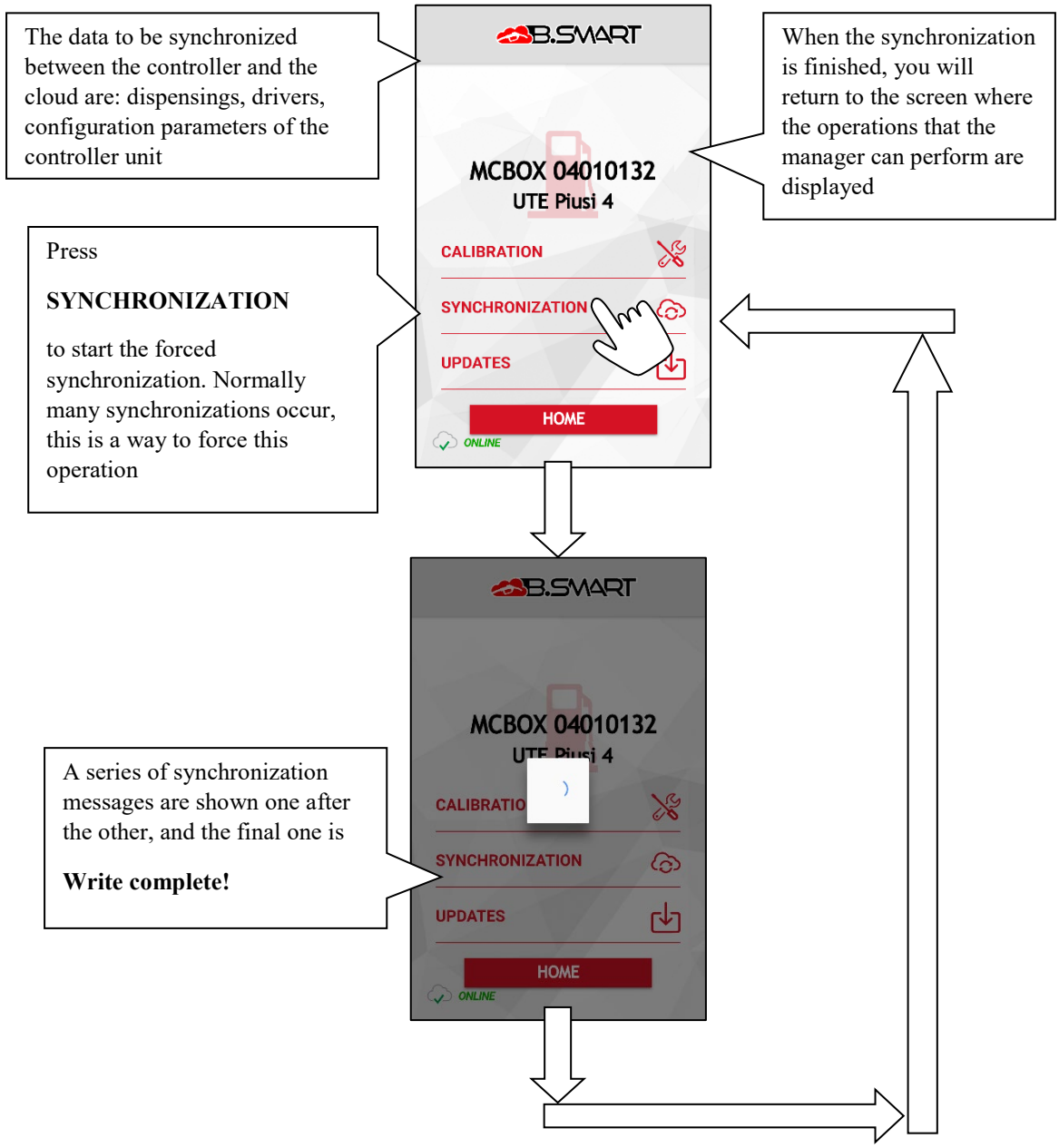
b. Calibration: direct measurement and calibration factor



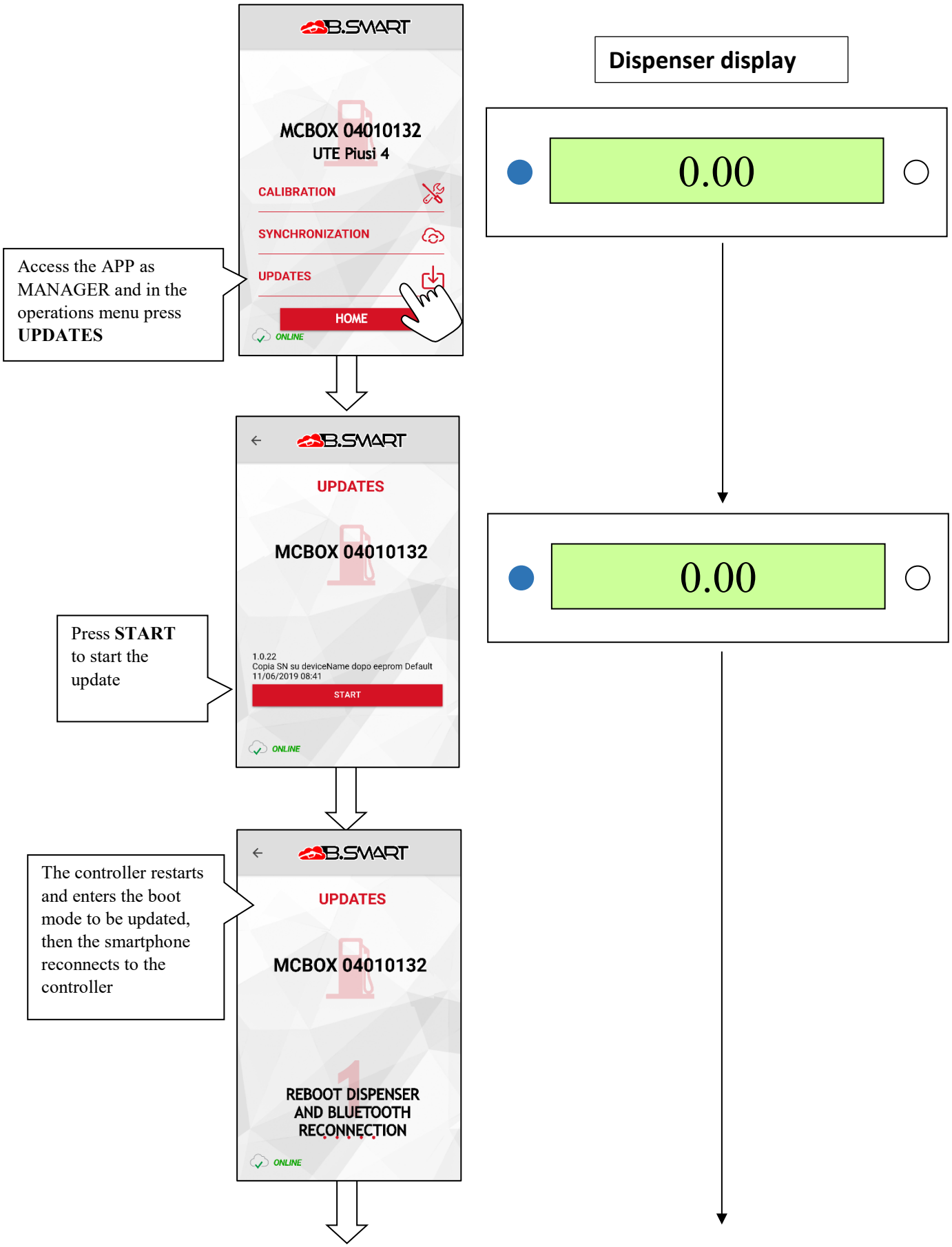

B.SMART
DIRECT MEASUREMENT
2.07 l
REFILLING
IN PROGRESS
STOP
ONLINE
Press **STOP** to finish dispensing
B.SMART
DIRECT MEASUREMENT
4.06 L
0.1
DISPENSED
QUANTITY
CONFIRM
ONLINE
Enter the quantity actually dispensed, measured by your measuring instrument (capacity meter or other)
B.SMART
DIRECT MEASUREMENT
4.06 L
4.00
DISPENSED
QUANTITY
CONFIRM
ONLINE
Quantity entered, press **CONFIRM** to continue
B.SMART
CALIBRATION FACTOR
CURRENT K FACTOR
0.977
0.987
CONFIRM
ONLINE
Enter the calibration factor manually and press
CONFIRM
K factor updated!
B.SMART
CALIBRATION FACTOR
CURRENT K FACTOR
0.987
0.987
CONFIRM
ONLINE
The calibration factor K has been successfully saved

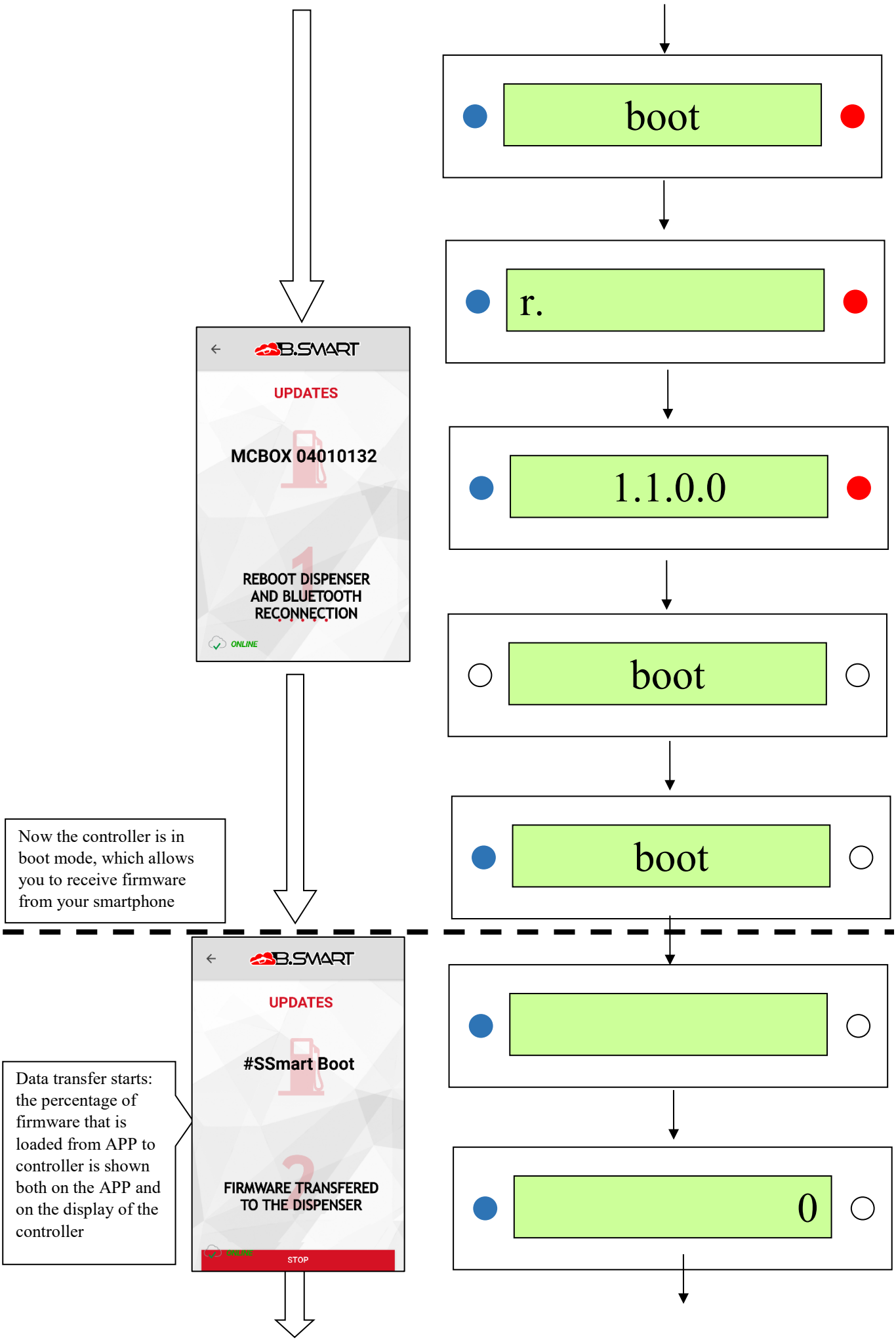


c. Synchronization (forced)

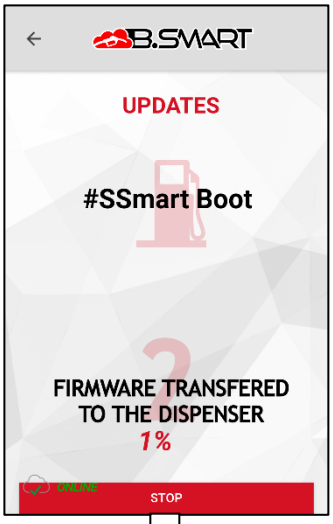


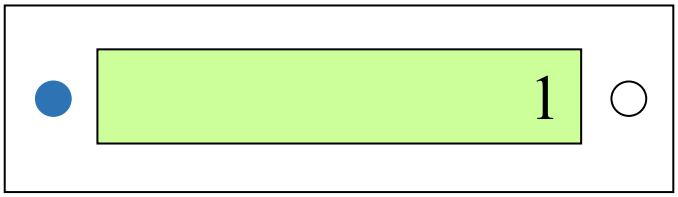
d. Dispenser firmware update



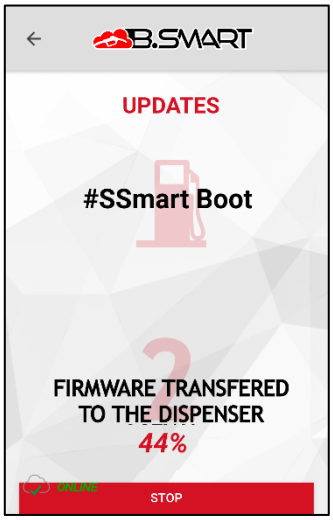

boot
r.
1.1.0.0
boot
boot
B.SMART
UPDATES
MCBOX 04010132
1
REBOOT DISPENSER AND BLUETOOTH RECONNECTION
ONLINE
Now the controller is in boot mode, which allows you to receive firmware from your smartphone
B.SMART
UPDATES
#SSmart Boot
2
FIRMWARE TRANSFERED TO THE DISPENSER
STOP
Data transfer starts: the percentage of firmware that is loaded from APP to controller is shown both on the APP and on the display of the controller
0

The percentage shown by the APP is also shown on the display of the controller



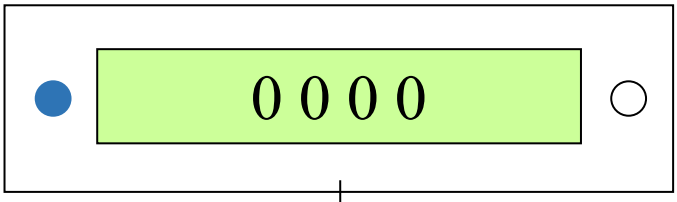


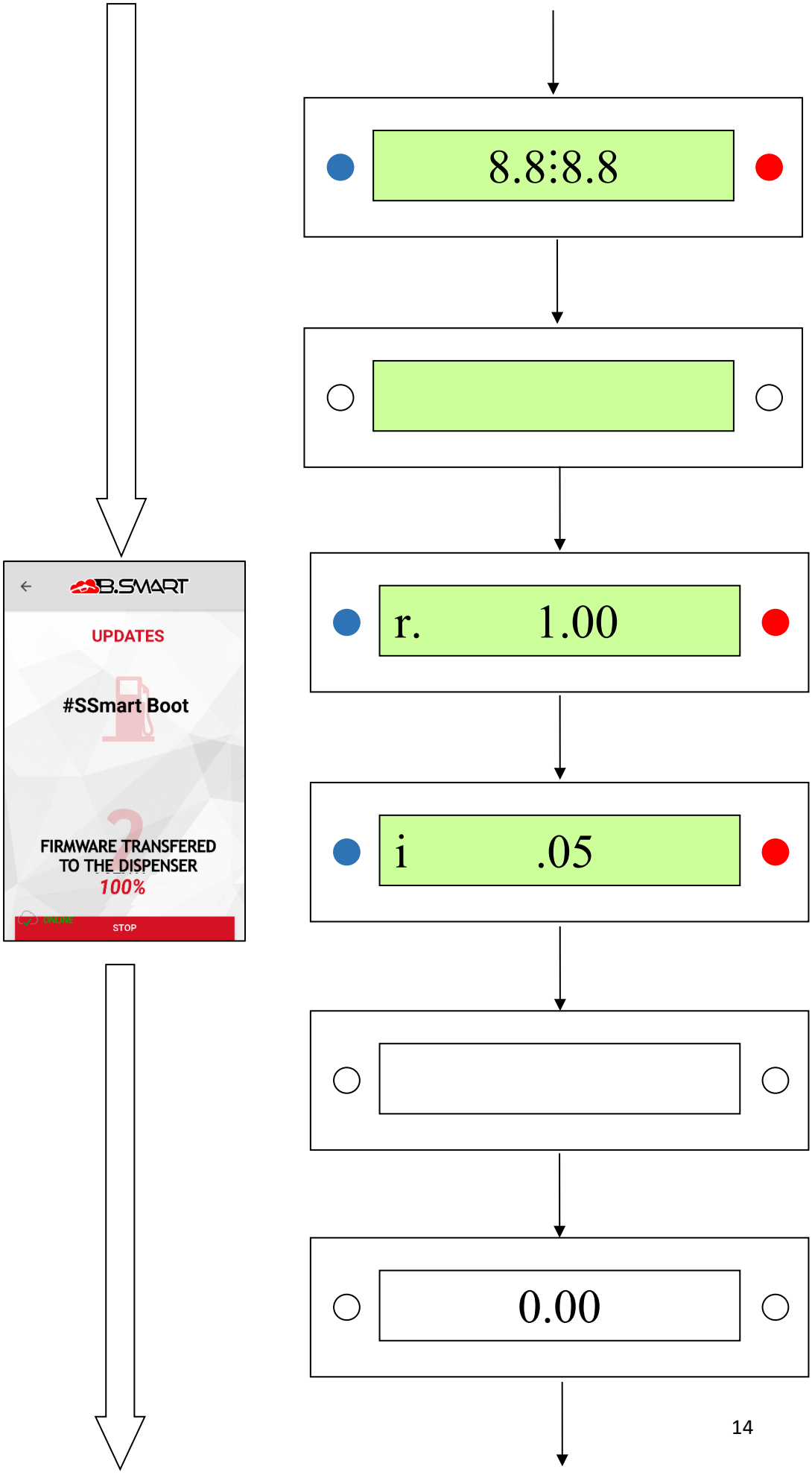
The firmware transfer can be interrupted at any time by pressing **STOP**



Firmware transfer from APP to controller completed

After all data has been transferred, the controller installs the firmware, restarts and connects to the smartphone

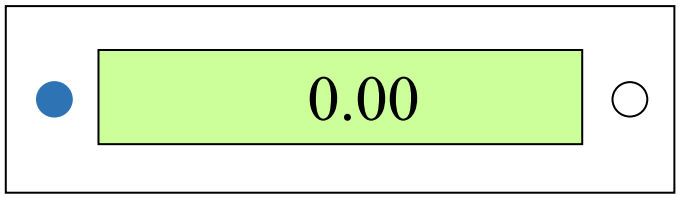


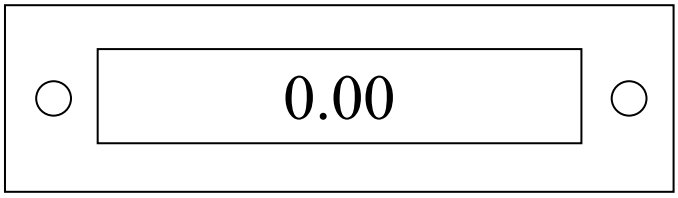

8.8:8.8
r. 1.00
i .05
0.00
B.SMART
UPDATES
#SSmart Boot
FIRMWARE TRANSFERED
TO THE DISPENSER
100%
STOP

Firmware update completed

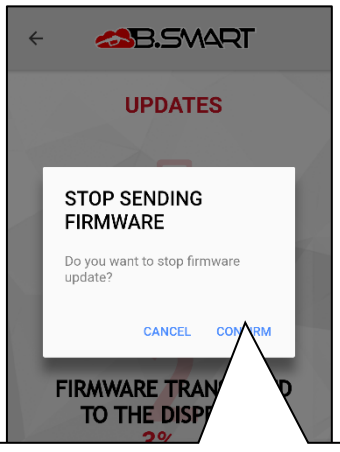
The firmware is installed, the control unit is restarted, and finally the smartphone reconnects to the controller.

Press **HOME** to return to the driver operations





The firmware update can be interrupted at any time by pressing the **STOP** button

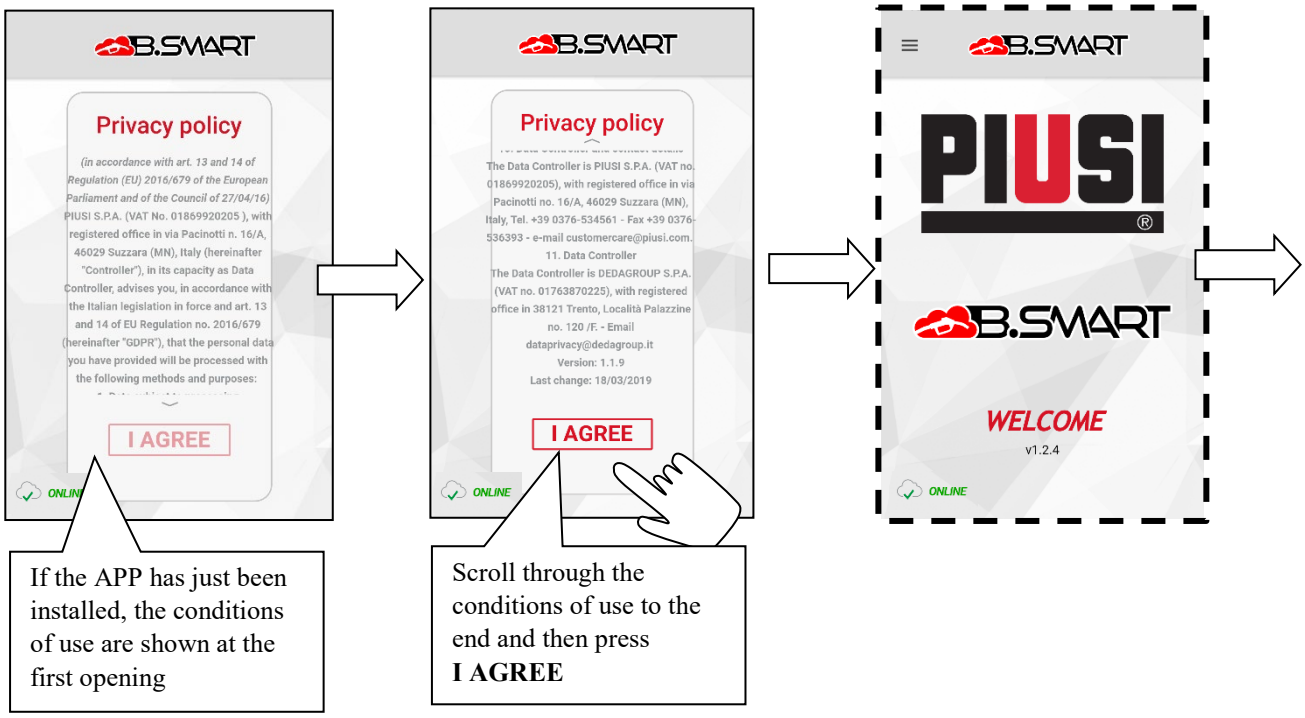


Press the **CONFIRM** button to confirm the interruption of the firmware transfer, or **CANCEL** not to interrupt the transfer

After interrupting the firmware transfer, the controller restarts and the APP shows **HOME**

3. Driver

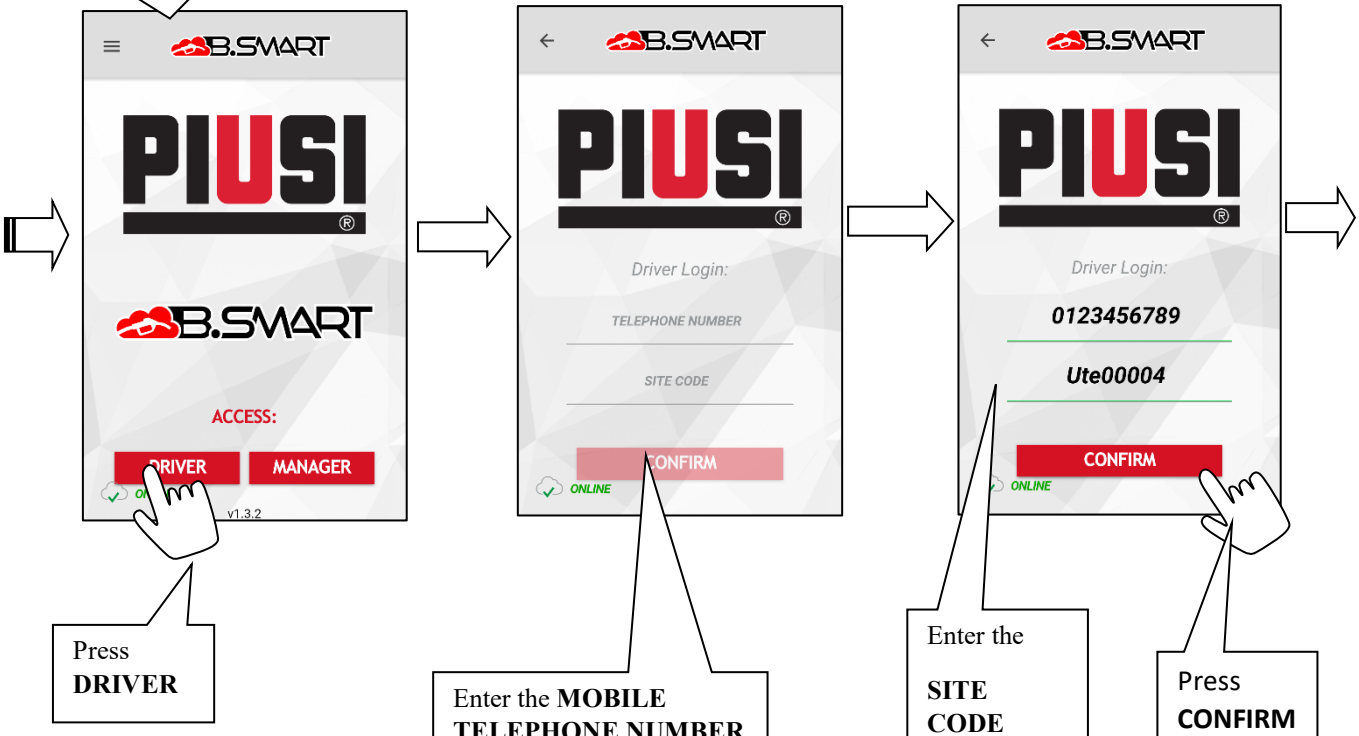
a. Authentication



If the APP has just been installed, the conditions of use are shown at the first opening

Scroll through the conditions of use to the end and then press **I AGREE**

Welcome start screen

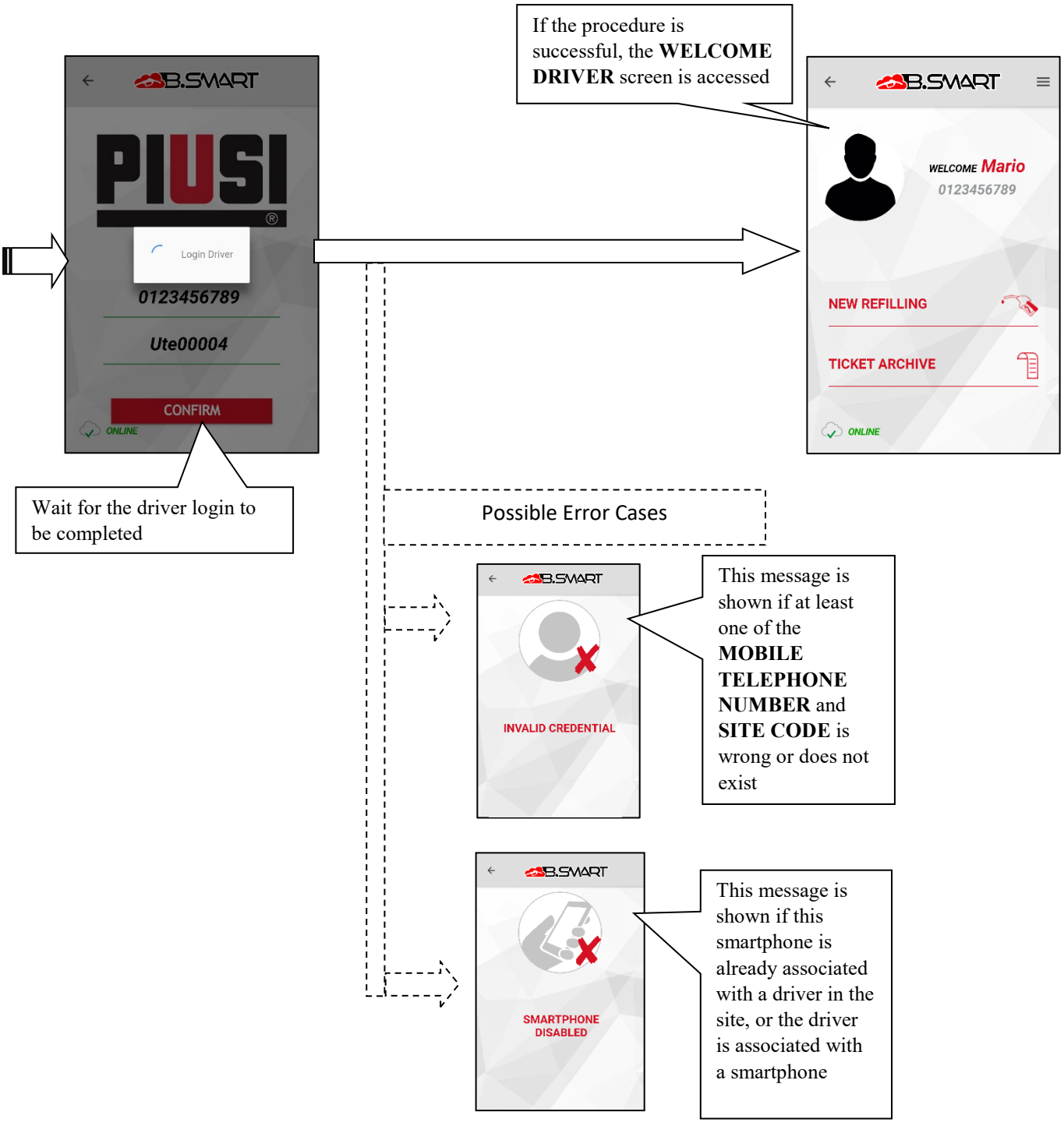


Press **DRIVER**

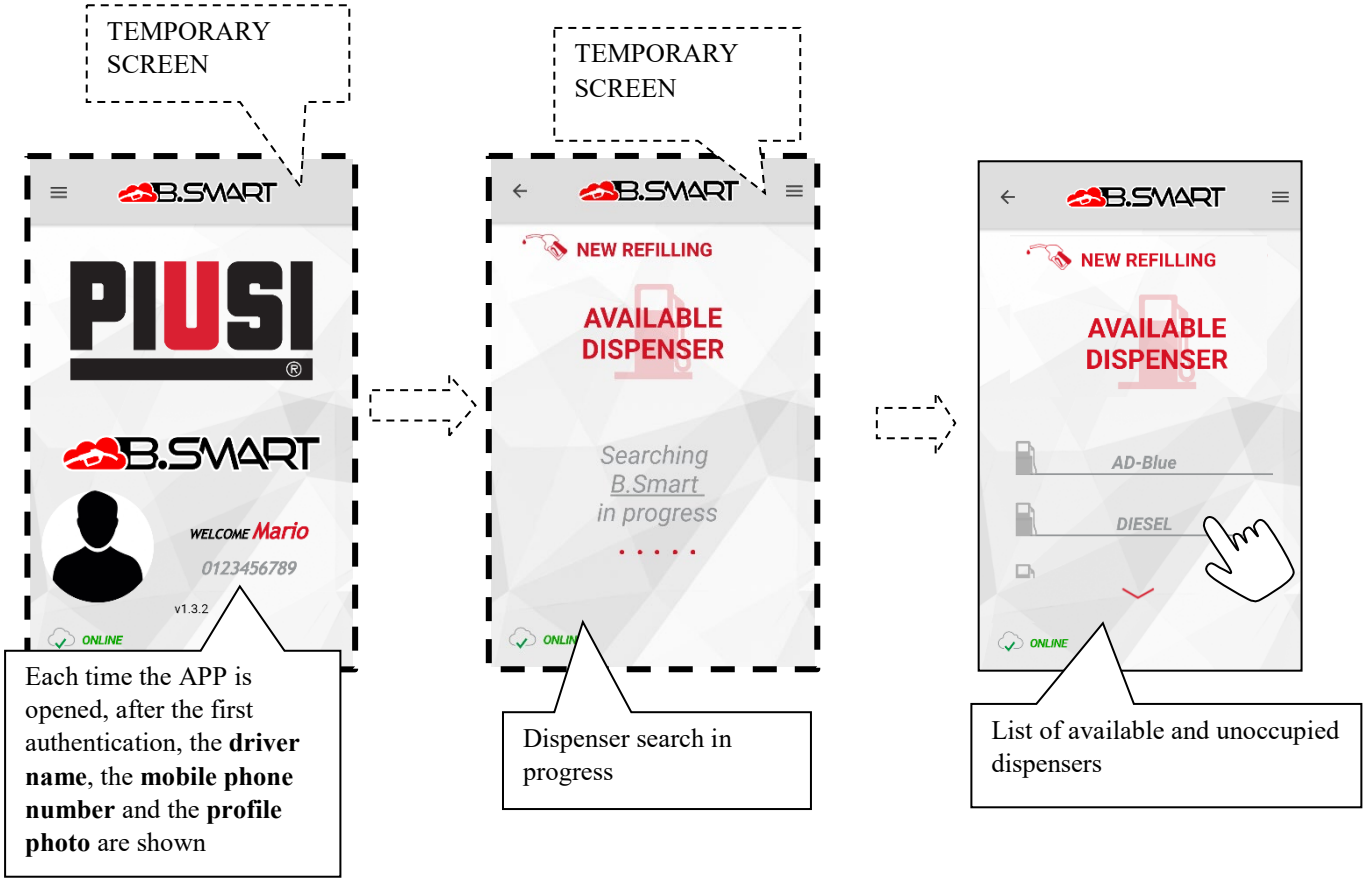
Enter the **MOBILE TELEPHONE NUMBER** (in the same way as communicated to the site manager for the user's cloud registration)

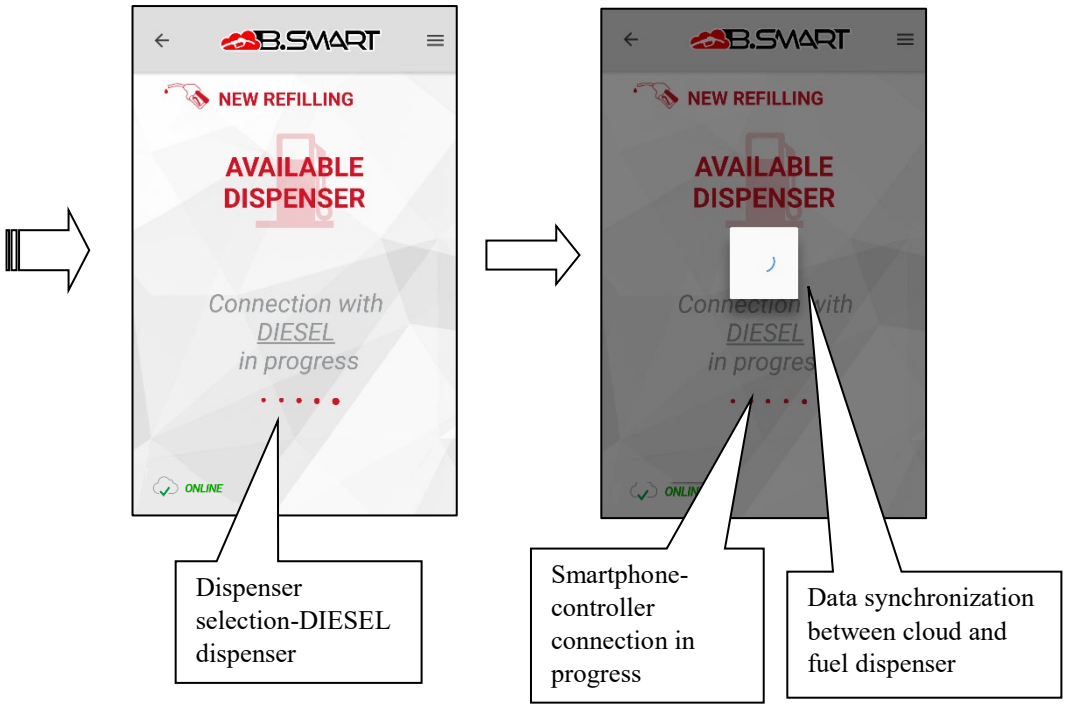
Enter the **SITE CODE**

Press **CONFIRM**


If the procedure is successful, the **WELCOME DRIVER** screen is accessed
B.SMART
PIUSI
Login Driver
0123456789
Ute00004
CONFIRM
ONLINE
WELCOME Mario
0123456789
NEW REFILLING
TICKET ARCHIVE
ONLINE
Wait for the driver login to be completed
Possible Error Cases
INVALID CREDENTIAL
This message is shown if at least one of the **MOBILE TELEPHONE NUMBER** and **SITE CODE** is wrong or does not exist
SMARTPHONE DISABLED
This message is shown if this smartphone is already associated with a driver in the site, or the driver is associated with a smartphone

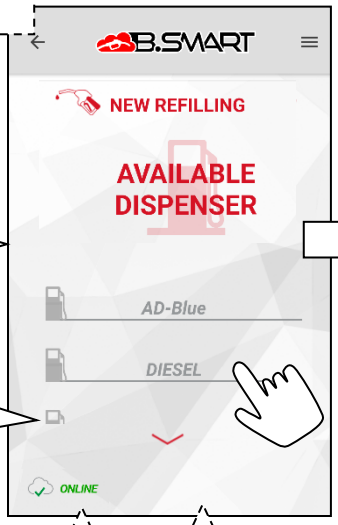
b. Dispensing





When searching for fuel dispensers, different errors may be signalled

Dispenser search in progress

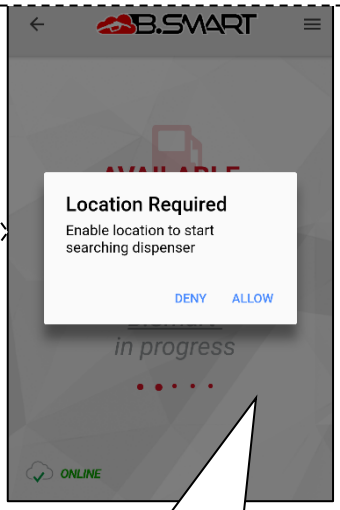


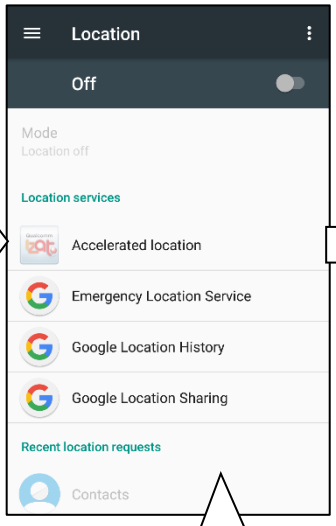
Dispenser found

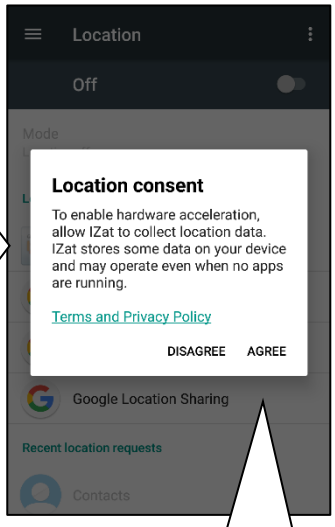
BLUETOOTH DISABLED

Enable Bluetooth from your smartphone settings

GPS DISABLED



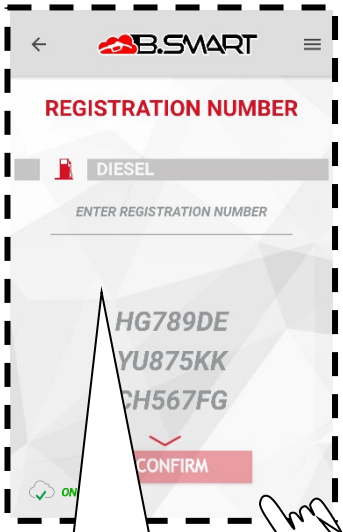




If the GPS is disabled, press **ALLOW** to open the settings screen

Enable the GPS, using the button in the upper right and choose the type of service, from those in the list

Press **AGREE,** to accept the consent to the position, then return to the APP, which will show the list of fuel dispensers



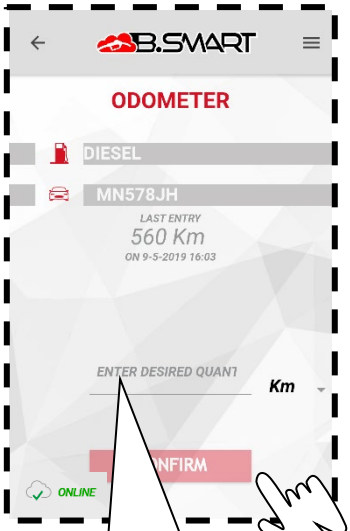
OPTIONAL request decided by the manager based on how he configures in webAPP: if he wants this request to be made to the user or not

"Registration Number" entry (which could be the license plate of the vehicle to be refilled or another reference useful for the System Manager)

Click

CONFIRM

to continue



OPTIONAL request

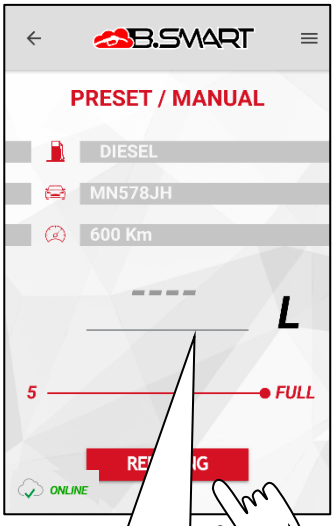
Odometer insertion, this page is shown only if the manager has enabled the use of the odometer from WebApp.

In this example, **1000** is entered

Click

CONFIRM

to continue

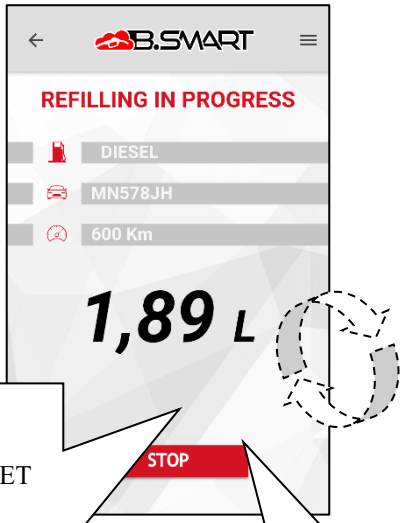


Enter the quantity to be dispensed as default (PRESET) or, if no value is set, the full tank is dispensed.

Click

REFILLING

to continue



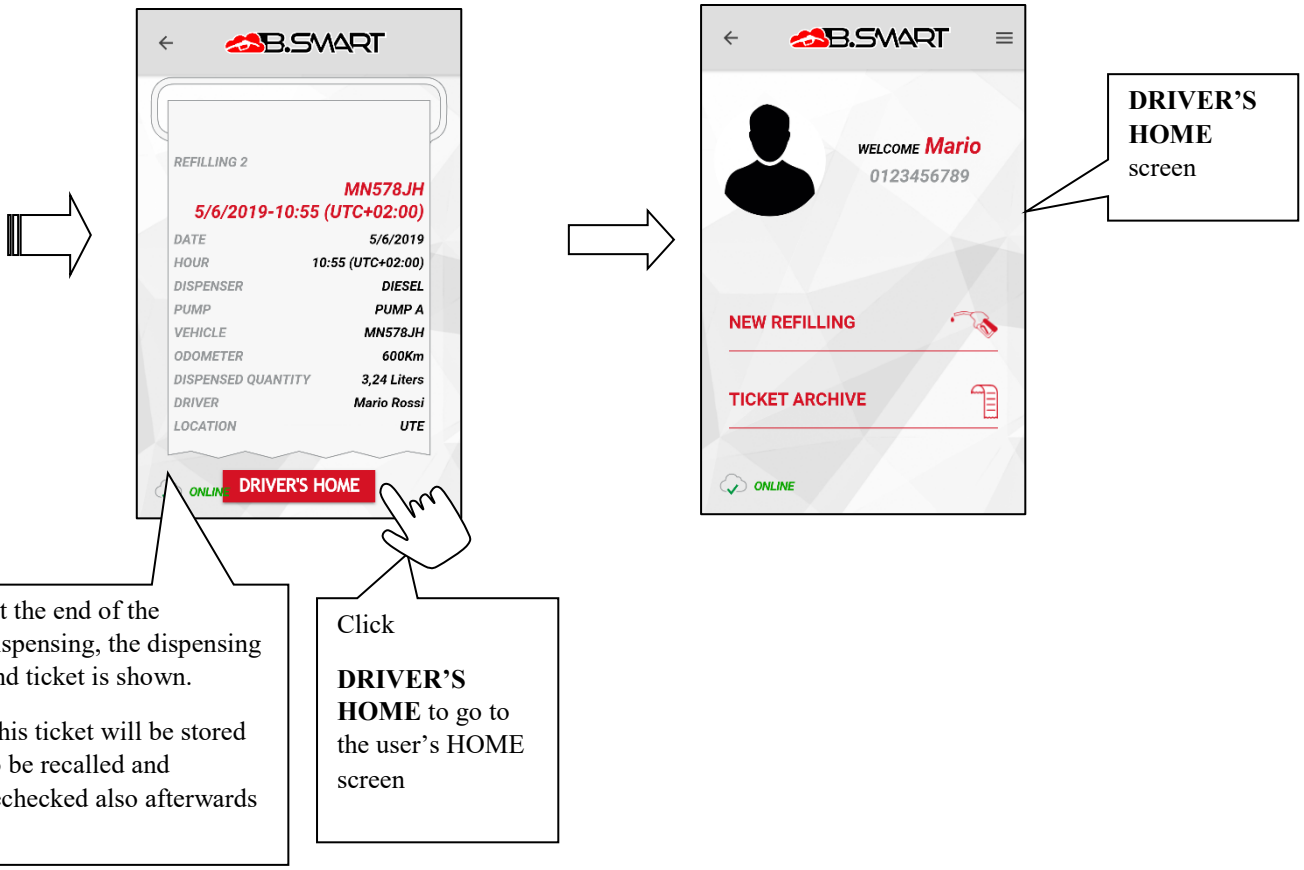
Dispensing in progress: If you have set a PRESET quantity in the meter, the pre-selected quantity is present.

It is not present when the **FULL TANK** is set.

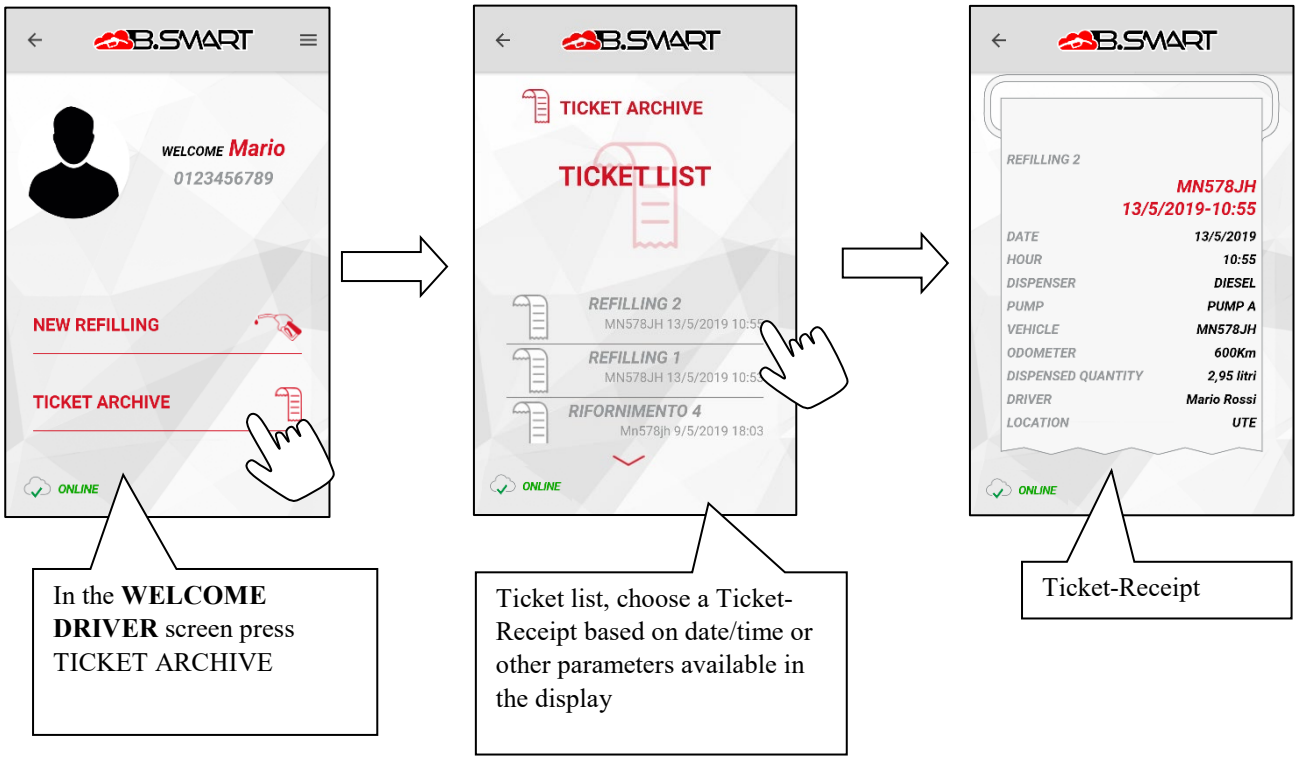
Click

STOP

to stop the dispensing



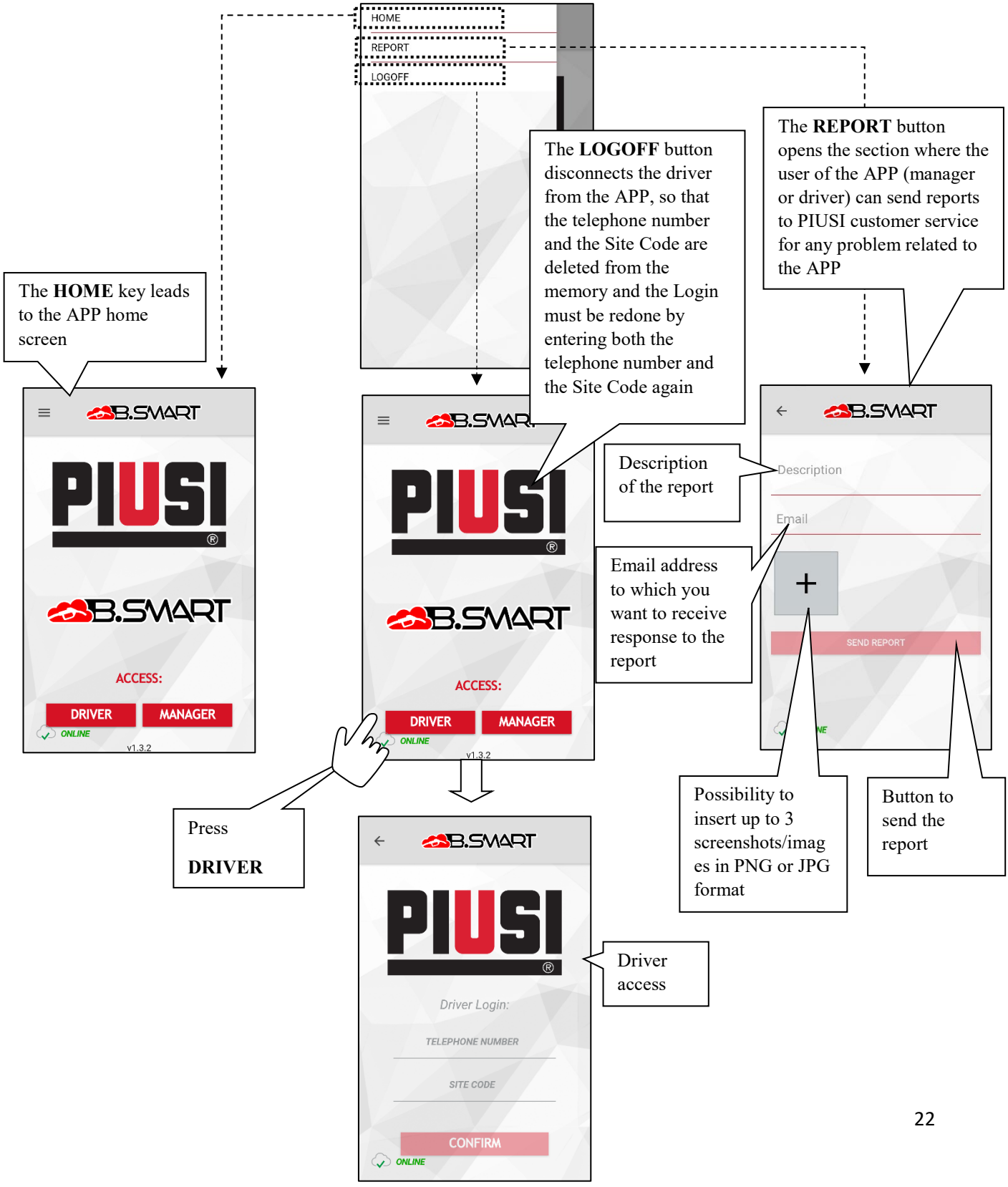
c. Ticket archive



4. Other functions

a. Side menu

In the various screens of the APP,a side pop-up menu can always be accessed by the button this menu allows various operations:



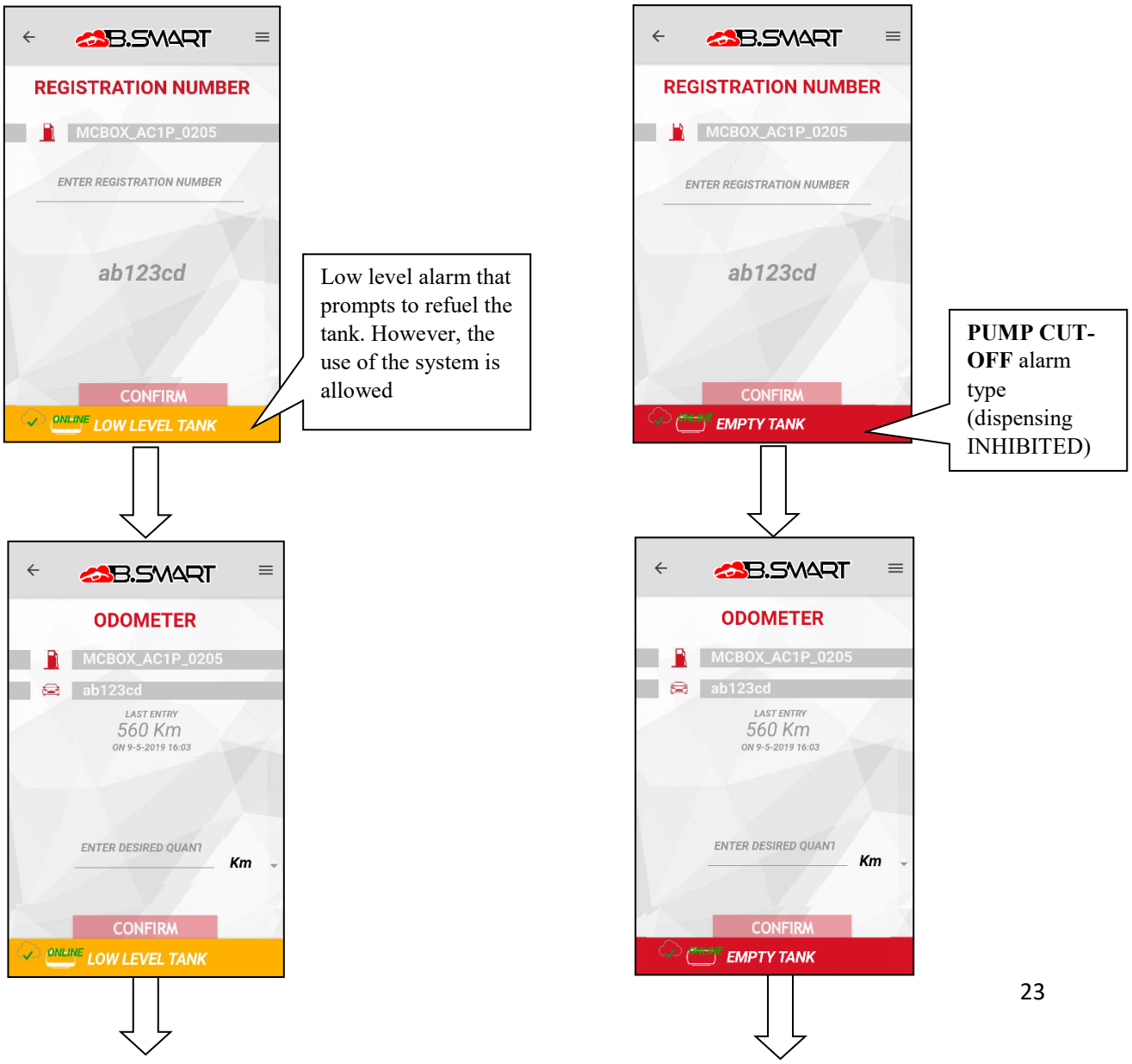
b. Fuel level alarms

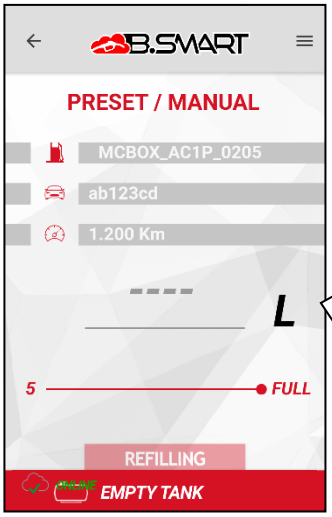
Level alarms are hardware alarms, especially voltage-free contacts, that can be installed on the tank and connected to the terminals of the controller. The alarm status of the contacts is communicated both on the controller and on the APP and on the WebAPP. The contact status indicates whether the tank has a low fuel level or is empty, by means of the WARNING or PUMP CUT-OFF status. They are configured via WebApp (*see WebApp manual*).

When a level contact is activated, the label indicating low fuel level (WARNING type alarm) or empty tank (PUMP CUT-OFF type alarm) is shown in all the dispensing screens.

In case of low fuel level it is possible to dispense, in case of empty tank it is not possible to dispense.

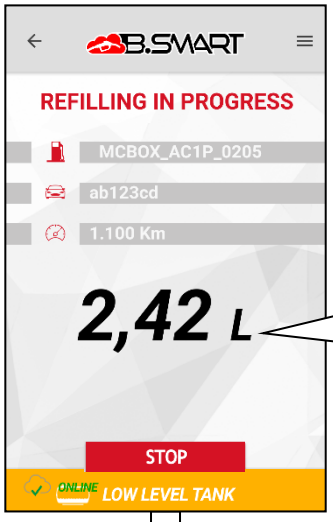
The controller also provides an indication of the status of the Level contacts by means of the red LED (flashing with code U7 for simple ALARM while red fixed with code A1, A2, A3, A4, A6 shown on the display for inhibited dispensing and pump cut-off)



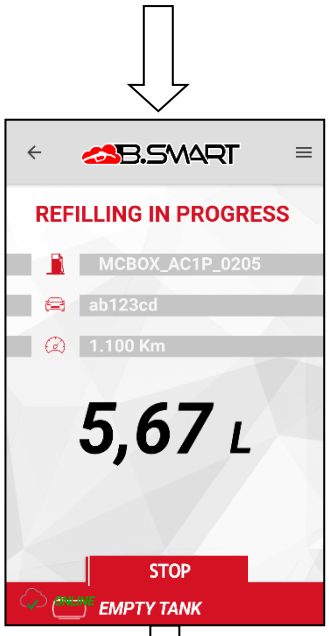


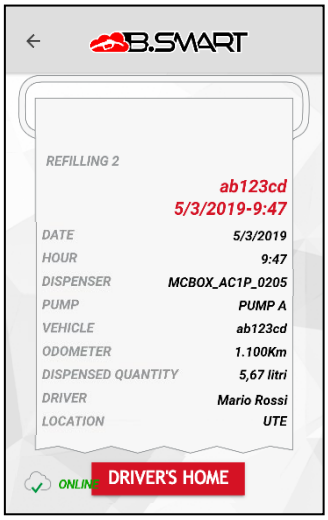
If the tank is empty, the REFILLING button is inhibited (shown in light colour)

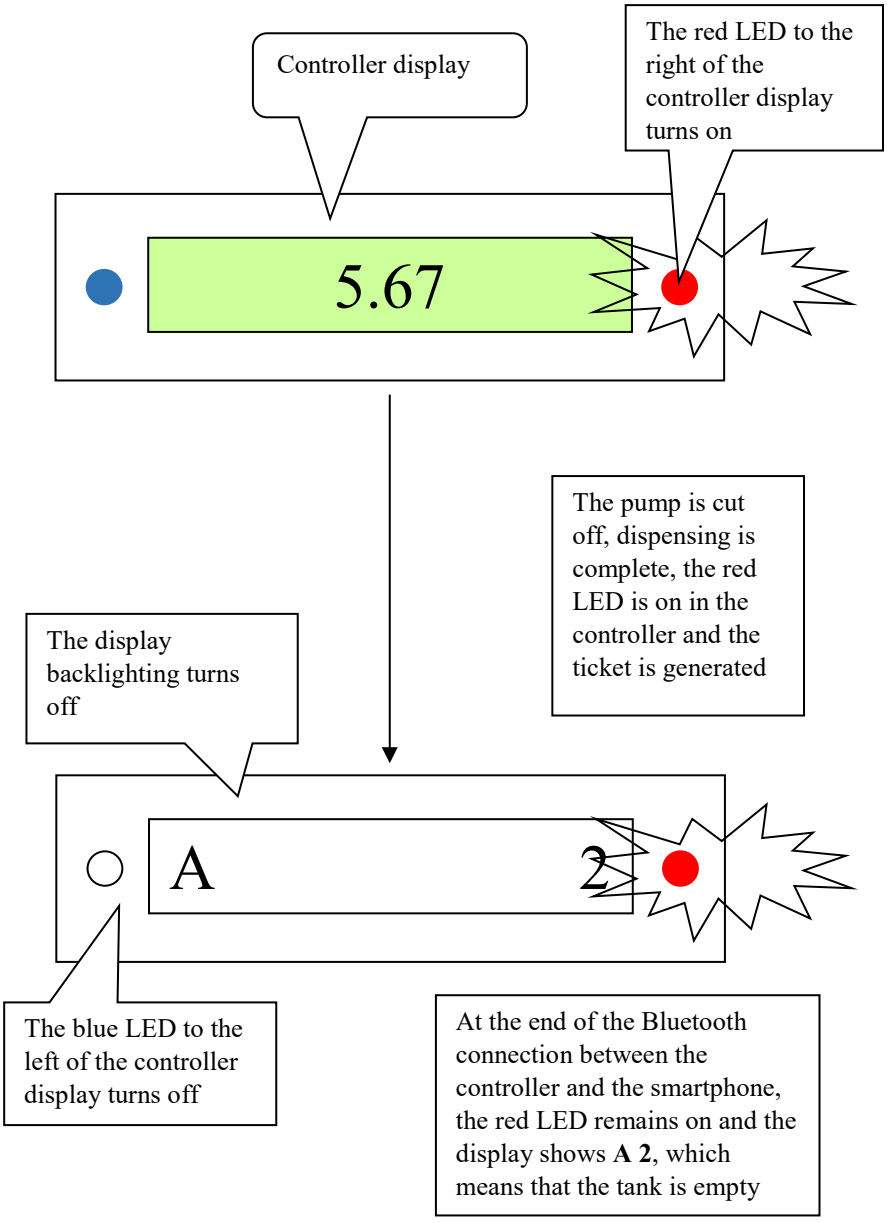
Dispensing is not possible



If the tank is completely emptied during dispensing and the second level contact is enabled, the pump will be cut off, the RED LED on the controller will be lit, the dispensing will be stopped and the ticket will be shown


B.SMART
REFILLING IN PROGRESS
MCBOX_AC1P_0205
ab123cd
1.100 Km
5,67 L
STOP
EMPTY TANK


B.SMART
REFILLING 2
ab123cd
5/3/2019-9:47
DATE 5/3/2019
HOUR 9:47
DISPENSER MCBOX_AC1P_0205
PUMP PUMP A
VEHICLE ab123cd
ODOMETER 1.100Km
DISPENSED QUANTITY 5,67 litri
DRIVER Mario Rossi
LOCATION UTE
ONLINE
DRIVER'S HOME


Controller display
The red LED to the right of the controller display turns on
5.67
The pump is cut off, dispensing is complete, the red LED is on in the controller and the ticket is generated
The display backlighting turns off
A 2
The blue LED to the left of the controller display turns off
At the end of the Bluetooth connection between the controller and the smartphone, the red LED remains on and the display shows **A 2**, which means that the tank is empty

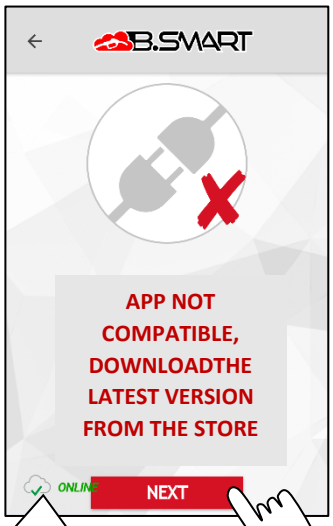
c. ERROR / FAILURE statuses signalled by the APP

WEBAPP IN MAINTENANCE

WebApp/Cloud is in maintenance, so you cannot perform any data synchronization between cloud and APP.

Press **NEXT** to go offline

APP NOT COMPATIBLE



The APP is not compatible with WebApp, you must update to continue.

Press **NEXT** to go offline

INTERNAL SERVER ERROR

There was an error between APP and cloud, no data synchronization occurred.

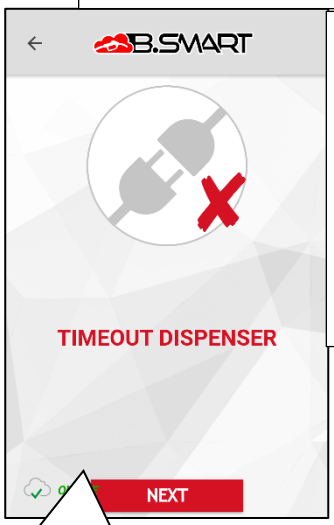
Press **NEXT** to go offline

CONNECTION WITH CLOUD TIMEOUT

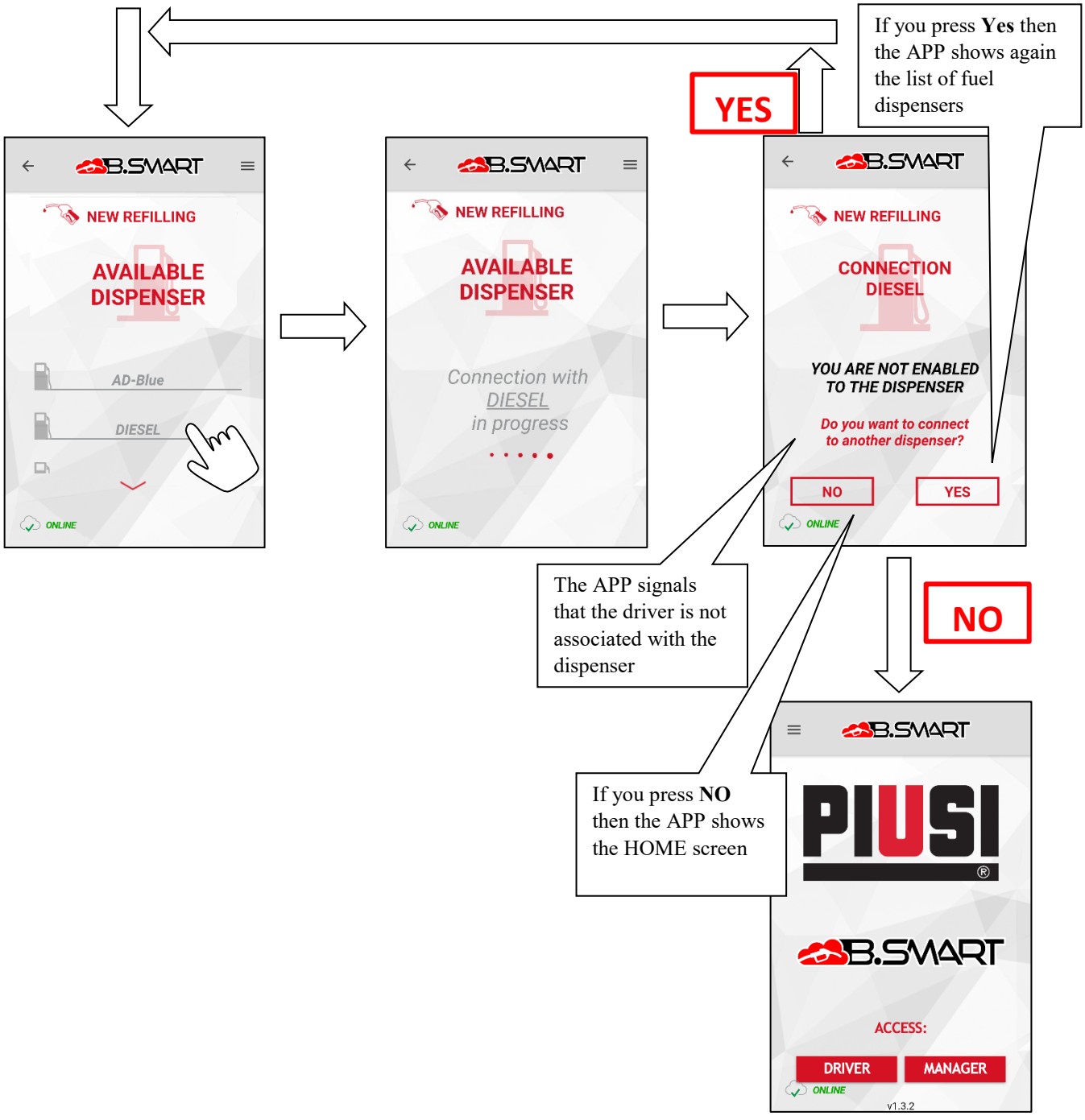
The cloud did not respond to APP requests, no data synchronization took place.

Press **NEXT** to go offline

TIMEOUT DISPENSER



When the APP loses the Bluetooth connection with the controller, it shows the following screen (manager and driver). In this case the blue LED of the controller turns off.

To exit from here, press ← to return to the screen of the FUEL dispensers, or close and reopen the APP

DRIVER NOT ASSOCIATED WITH THE CONTROLLER