



User Manual

Blaxtair Checklist



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Introduction

This user manual aims to provide necessary information in order to understand, install and operate Blaxtair Checklist system.

The Checklist system is composed of the following elements:

- A smart display installed on vehicles of a fleet, with optional PIN code access and checklist questions displayed
- A discrete output that can be linked to the vehicle to interact with the vehicle.

This choice and related connection is under customer's responsibility. Slowdown system is NOT provided in the checklist equipment.

- An online web dashboard to administrate the vehicle fleet equipped with the checklist, create accounts and analyze reports

THE BLAXTAIR CHECK LIST IS TO BE USED AS A SAFETY TOOL BUT DOES NOT REPLACE THE NEED FOR DRIVERS TO COMPLY WITH THE RULES OF THE ROAD, OSHA RULES AND REGULATIONS AND OTHER DRIVING SAFETY PRACTICES AND STANDARDS

Features

The following features are available :

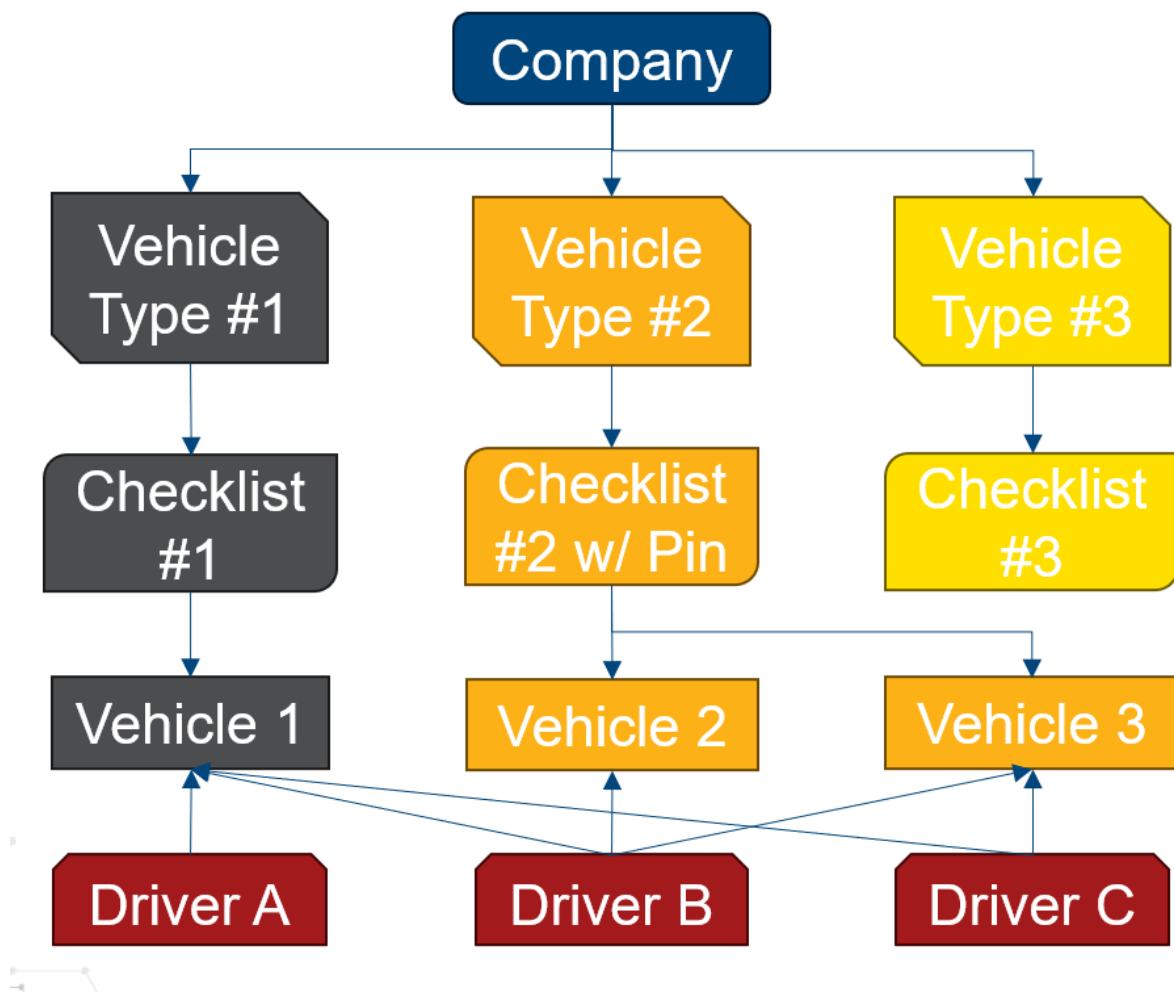
- Checklist without PIN CODE authentication for driver
- Checklist with PIN CODE authentication for driver
- PIN CODE authentication for driver without checklist

If PIN CODE is activated, it will be requested at each key off/ key on and can therefore serve as an access control

In all cases, it's possible to decide whether the discrete output of the system will be controlled or not (to interact with vehicle)

For the system to work at its best, it's necessary to have a 4g or Wifi connection. However it's only MANDATORY for setting up of the system and for updates (change checklist content). It's needed also to retrieve the reports from the smart displays.

Elements structure and Hierarchy



A **COMPANY** has a fleet of vehicles.

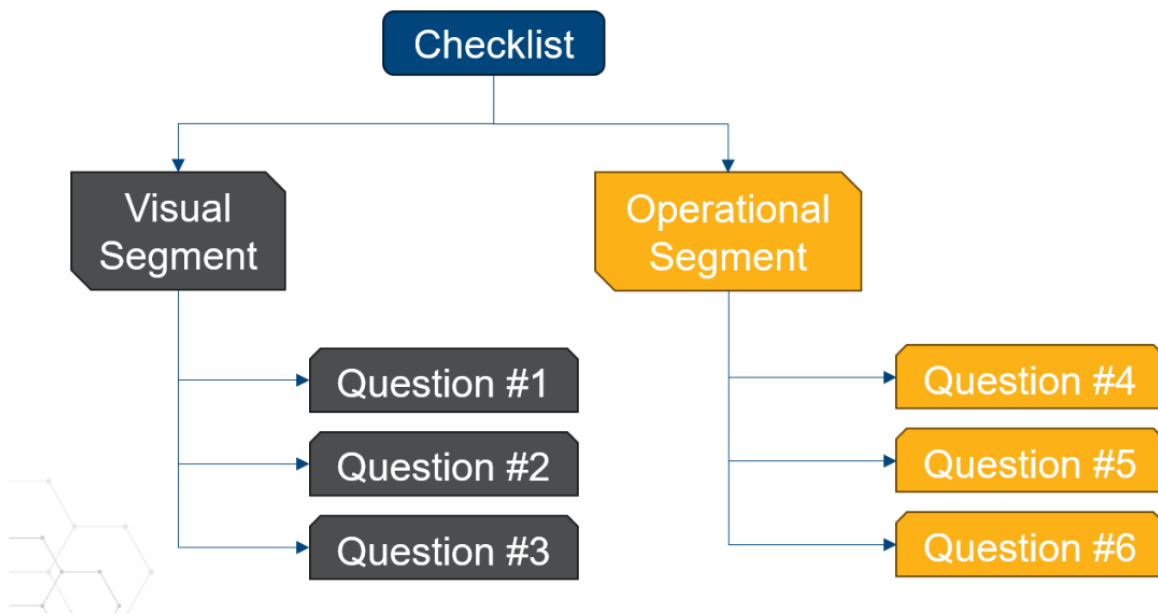
The vehicle fleet can have several **VEHICLE TYPES** - they can be freely defined by user

Each **VEHICLE TYPE** has to be linked to one **CHECKLIST**

Each **VEHICLE** has to be linked to a **VEHICLE TYPE**

Any **DRIVER** of the company (valid in the dashboard) can answer any **CHECKLIST**

Checklist Description



A checklist is a set of **QUESTIONS** that can be optionally grouped by **SEGMENTS** (a segment is a group of questions of the same type, Visual, Operational, Electrical and so on - it can be freely defined by user).

SEGMENTS can be configured not to limit the vehicle movement (**discrete output**, if configured as used, will be set to high level)

QUESTIONS can be selected from an existing **TEMPLATE** or be created by the **[COMPANY or App ADMIN]**.

QUESTIONS can be of type **CRITICAL** (a wrong answer leads to fail checklist) or of type **WARNING** (a wrong answer leads to a warning checklist)

REPORTS are generated automatically after a checklist is filled by a driver and can be viewed on the dashboard.

First set up of the system

Actions on Dashboard

Portal Link: <https://connect.blaxtair.com/>

Each step described below will be detailed in the following chapters

Step	Description	Mandatory or optional	To be done by	Comment
1	Company creation/ first company admin creation	Mandatory	App Admin or company admin + validation by App admin	Gives access to dashboard
2	First driver Creation	Mandatory	App Admin or Company Admin	To have at least one user allowed to fill checklist
3	Segment creation	Optional but recommended	App Admin or Company Admin	To sort questions in the checklist
4	Questions creation	Mandatory (unless template questions are used)	App Admin or Company Admin	Questions for the driver
5	Checklist creation	Mandatory (unless Checklist template is used)	App Admin or Company Admin	
6	First Vehicle type creation	Mandatory	App Admin or Company Admin	One checklist type is linked to one vehicle type
7	First Planning creation	Optional	App Admin or Company Admin	Days / time at which checklist shall be filled by the driver
8	First Vehicle type creation	Mandatory	App Admin or Company Admin	A vehicle has one vehicle type

Actions on smart display

For actions on the smart display, we have two cases:

Case A: Installation steps for Checklist embedded to BXT Origin and Standalone versions

Step	Description	Mandatory or optional	4G or WIFI needed	To be done by	Comment
9	Smart display installation in vehicle	Mandatory	No	No role needed	
10	Smart display configuration	Mandatory	Yes	No role needed	Network is mandatory for smart display to get vehicle information
11	Link with BXT0	Optional	No	Need to know maintenance pwd	
12	Smart display optional configuration through maintenance mode	Optional	No	Need to know maintenance pwd	

Case B: Installation steps for Checklist embedded to BXT MR130/MR260

Step	Description	Mandatory or Optional	4G or WIFI needed	Comments
9	Smart display installation	Mandatory	No	Connection to 12-32VDC on the vehicle
10	License activation	Mandatory	Yes	Network is mandatory + Blaxtair dashboard subscription is mandatory
11	Output activation	Optional		

Whatever your case, each step will be detailed in the following chapters (First, we present steps **9 to 12 for case A**, followed by steps **9 to 11 for case B**.)

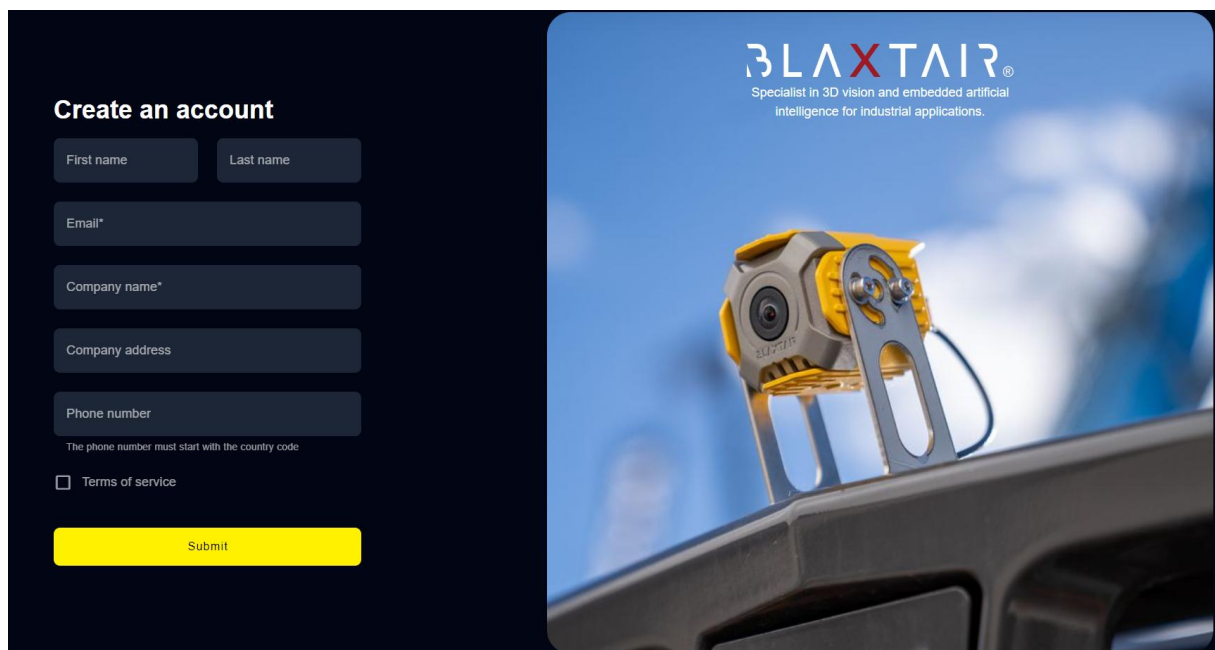
Step 1 - Company & Company Admin account creation

There are several ways to create a **[COMPANY ADMIN]** account.

- Case 1 : the company does not exist in Arcure's database:
 - His account can be created by Arcure app admin after having created the company
 - Or the user can sign up
- Case 2 : the company already exists in Arcure's database :
 - His account can be created by Arcure app admin
 - Or by another company admin in the dashboard - Sign up is not possible (an error message will be displayed if a user tries to create an account with a company already existing)

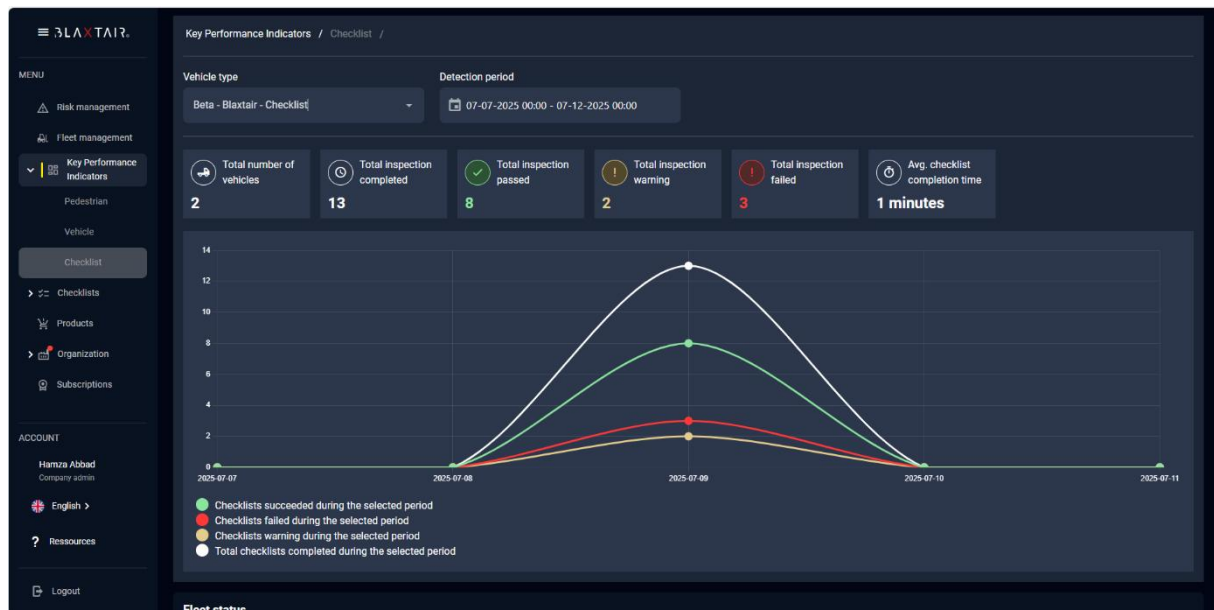
In all cases , after approval, the new user will receive an email with a link for password creation

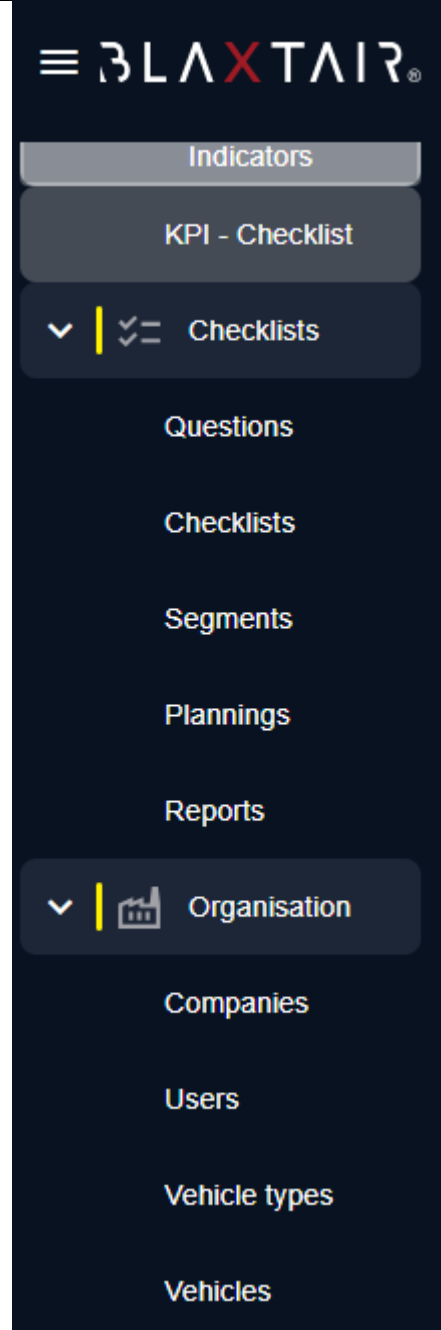
Example of account creation sign up page - possible only if company name is not already existing.



[COMPANY ADMIN] gains access to dashboard **HOME PAGE** and will be able to create users, vehicle types, vehicles, questions, checklists, planning , segments and visualize Kpis and analyze reports.

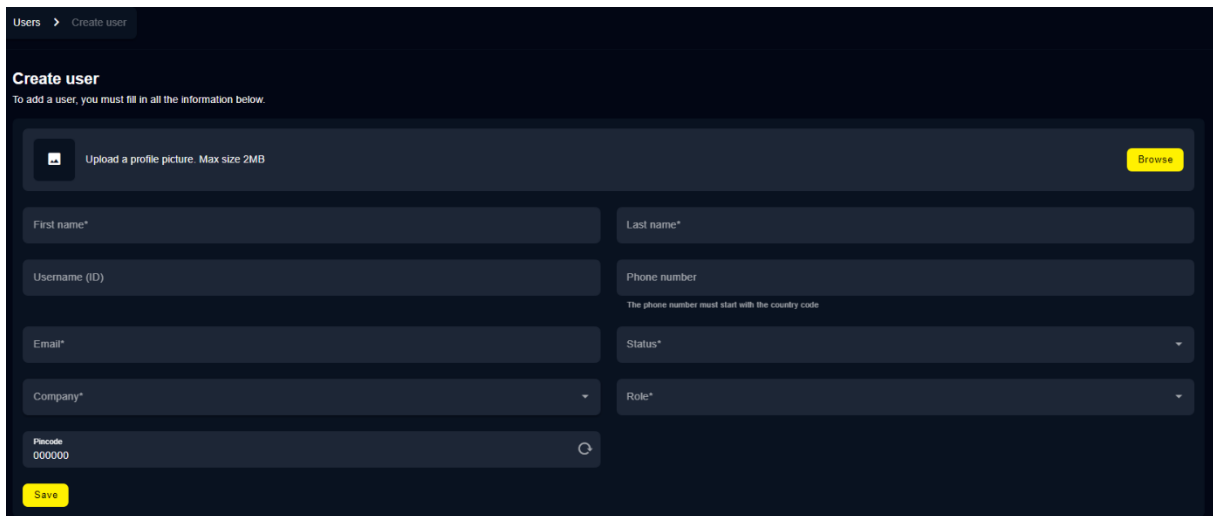
Below is the home page of checklist dashboard :



	<p>There are 3 sections on the left menu :</p> <p>KPI : will show the KPI page</p> <p>Checklist :</p> <ul style="list-style-type: none"> • Questions subsection : visualize/ create / modify / delete questions that can be used in the checklists • Checklists subsection : visualize / create/ modify / delete checklist , select questions , link them with segment (optional), order them (optional), set min/ max time to answer the full checklist • Segments subsection (optional but recommended) : visualize / create / modify / delete segments, define whether the segment shall induce interaction or not with the vehicle • Planning subsection : visualize / create / modify planning for checklist to be asked to drivers • Reports subsection : access to all filled checklists <p>Organization:</p> <ul style="list-style-type: none"> • Companies : visualize all companies (only for Arcure app admin) or your company • Users : visualize / create / modify users, their role, their status • Vehicle types : visualize/ create / modify vehicle types, link • Vehicles : visualize/ create / modify vehicles
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Step 2 - First driver creation

[COMPANY or App ADMIN] clicks the "Users" left section and then "Create user" on the top right to add a [DRIVER] account



Mandatory fields are notified with an “*”. Mandatory fields depend on the selected role.

- **“Username (ID)”** is optional. It will only be seen in the dashboard “users” section. It won’t be seen in the smart display.
- **“phone number” / “email”** : If role “Driver” is selected, then phone and email are not mandatory. If filled, then driver’s pin code can be sent to the driver by pressing the text message icon or the mail icon



- **“Role”** :
 - App Admin (only available if connected as Arcure app admin)
 - Company Admin : to be used for a company admin who administrates Checklist and dashboard
 - Company Admin (checklist) : to be used for a company admin who administrates only Checklist
 - Company Admin (Dashboard) : to be used for a company admin who administrates only Dashboard
 - Installer : installer of smart displays on vehicle - NOT TO BE USED FOR NOW
 - Driver : users of the checklist on vehicles - no access to dashboard

If you are connected as Arcure APP Admin, these fields will also be shown:

- **“Status”**

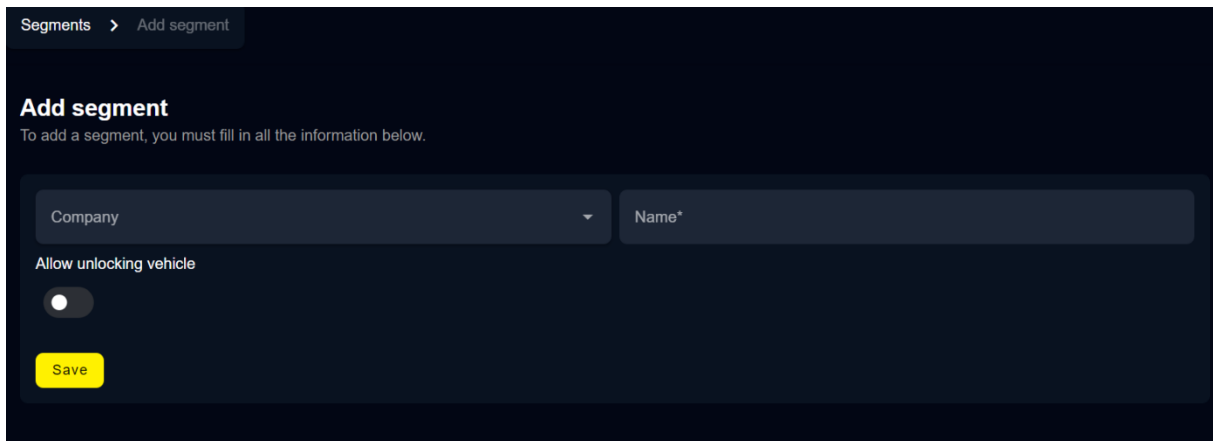
- To be approved : to be used to let the user approval for later - the approval can be done directly in the “users” page
- Approved : to be used to get immediate approval of the user - this will automatically send an invitation email if the role grants web access (all roles except driver)
- Blocked : to be used to revoke any access to the user

“Company” is available only if connected as Arcure app admin. Otherwise, the company is automatically the one of the company admin creating the user.

Step 3 - Segment creation (optional)

Segments give the possibility to regroup questions of the checklist logically (for example “visual inspection”, “operational inspection”, etc.). The naming of segment is free.

[COMPANY or App ADMIN] clicks on Segments section in order to add as many as needed with the button on the top right corner.

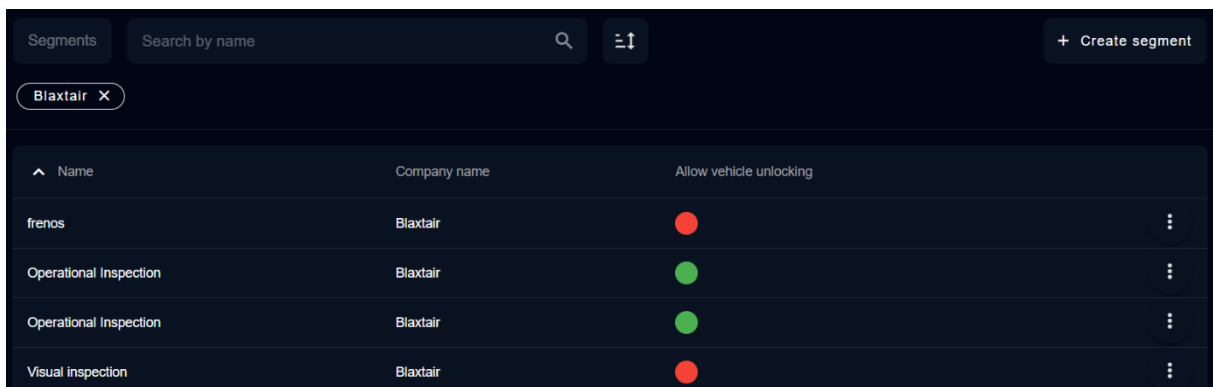


- **“Company”** field is available only if connected as an Arcure app admin
- The tick box “Interact with the vehicle” is to be ticked if the segment will regroup questions needing vehicle to be operated : if ticked, when driver will enter the first question of the segment, if discrete output is used (see [step "configuring vehicle"](#)), then discrete output will be set and remain at high state until the end of the segment.

WARNING: Use the “interact with the vehicle” with caution

Transition from a segment not interacting with the vehicle to a segment interacting with the vehicle might lead to dangerous situations. This shall not be done while vehicle is moving.

The Segments general page will summarize all segments of the company and whether the segments allow interaction or not with the vehicle.



^ Name	Company name	Allow vehicle unlocking	
frenos	Blaxtair	●	⋮
Operational Inspection	Blaxtair	●	⋮
Operational Inspection	Blaxtair	●	⋮
Visual inspection	Blaxtair	●	⋮

Step 4 - Questions Management

The question section shows whether questions are used in a checklist or not, the text of the question (in the language set for the dashboard) and its type.

- A “Critical” question answered wrongly will generate a failed checklist (and potential interaction with the vehicle)
- A “Warning” question answered wrongly will generate a warning checklist but will not lead to interaction with the vehicle

Questions	Search...	Q	⇅	+ Create question
Blaxtair X				
Company name	Used	Question	Type	
Blaxtair	<input checked="" type="checkbox"/>	Forks: Did the forks pass inspection for cracks, straightness, alignment, and wear?	Warning	
Blaxtair	<input checked="" type="checkbox"/>	Did the forklift tilt forward and backwards, side-shift, and fork-position properly?	Warning	
Blaxtair	<input checked="" type="checkbox"/>	Did the parking brake hold when the forklift was driven in forward and reverse?	Critical	
Blaxtair	<input checked="" type="checkbox"/>	Did the forks lift to the highest point possible without any unusual sounds or movement of the mast and carriage?	Warning	
Blaxtair	<input checked="" type="checkbox"/>	Did the forklift leave any leaks on the ground after it was moved from where it was previously parked?	Critical	
Blaxtair	<input checked="" type="checkbox"/>	Did the steering and braking respond properly when the forklift was driven in forward and reverse?	Critical	
Blaxtair	<input checked="" type="checkbox"/>	Do you check the break park ?	Warning	

After clicking on a question or on “create question” the page below will be displayed allowing to:

- write the text of the question (For this version of checklist we manage only 2 languages : English and Spanish.)
- Tick whether the correct answer to the question is “Yes” or “No”
- Tick whether the question is “Critical” or not

Questions > Edit question

Edit question

To edit a question, you must fill in all the information below.

Critical question ☐

English question*

Forks: Did the forks pass inspection for cracks, straightness, alignment, and wear?

Spanish question

Horquillas: ¿Las horquillas pasaron la inspección de grietas, rectitud, alineación y desgaste?

Response

☒ Yes ☐ No

Edit question

Step 5 - Checklist Management

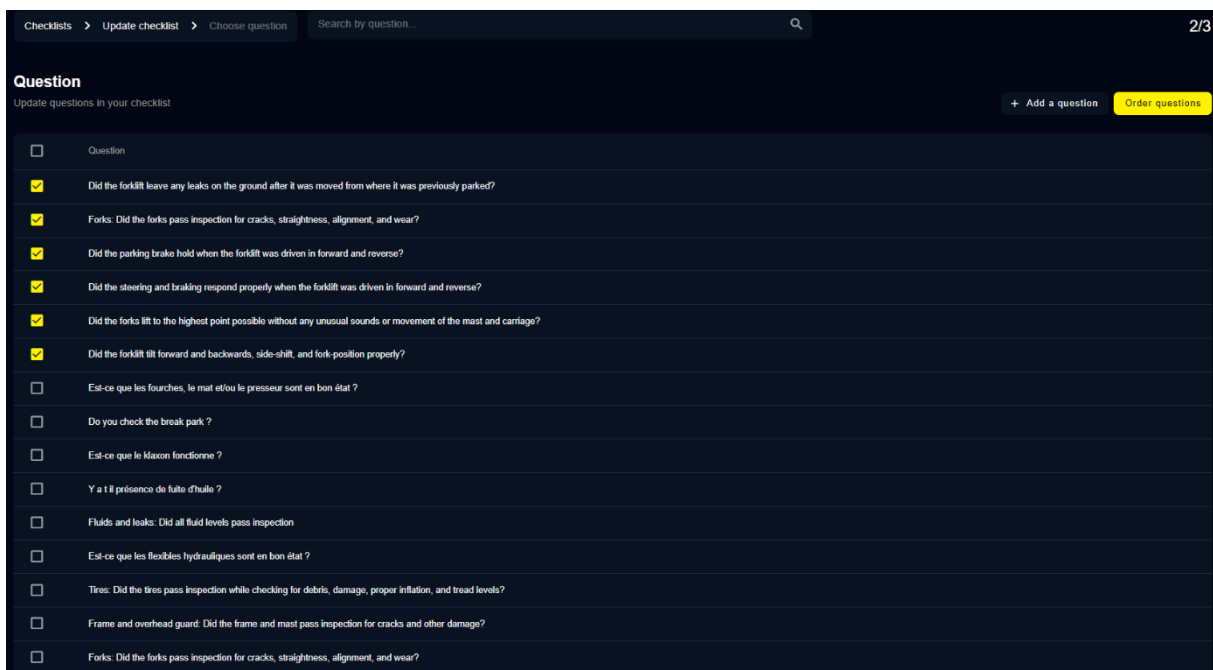
[COMPANY or APP ADMIN] can click on the checklist section on the left to create a new checklist. He can either select an existing template or create his own Checklist



The screenshot shows the 'New checklist' form. At the top, there's a breadcrumb trail: 'Checklists > Add checklist'. The page number '1/3' is in the top right corner. The title 'New checklist' is followed by the instruction 'To add checklist, you must fill in all the information below.' There are two input fields: 'Template' and 'Name*'. Below the 'Name*' field is a yellow button labeled 'Choose questions'.

If a Template is selected, there will already have a list of questions / segments selected.

[COMPANY ADMIN] then selects the questions he wants to add to the checklist and then clicks on Order questions.

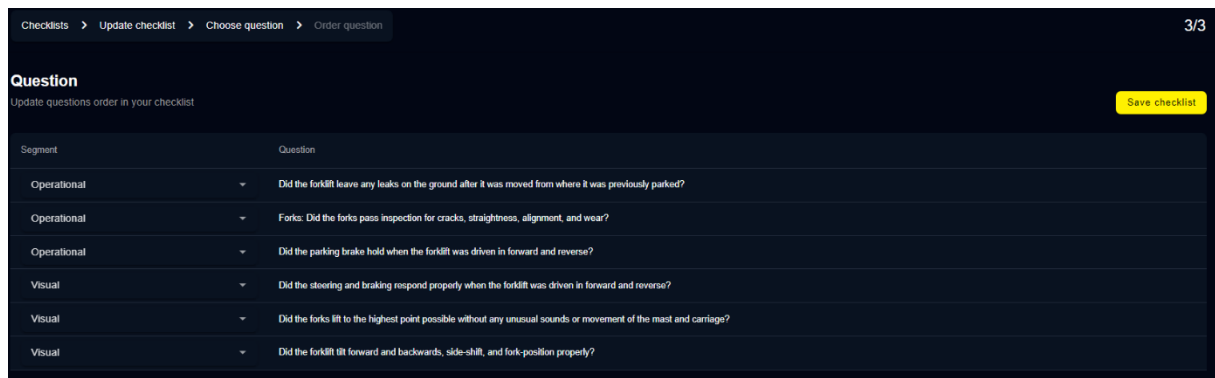


The screenshot shows the 'Question' selection screen. The breadcrumb trail is 'Checklists > Update checklist > Choose question'. The page number '2/3' is in the top right corner. The title 'Question' is followed by the instruction 'Update questions in your checklist'. There are two buttons: '+ Add a question' and 'Order questions'. Below these buttons is a list of questions, each with a checkbox. The first six questions are checked, and the remaining ten are unchecked. The questions are in English and French.

Question	Selected
Did the forklift leave any leaks on the ground after it was moved from where it was previously parked?	Yes
Forks: Did the forks pass inspection for cracks, straightness, alignment, and wear?	Yes
Did the parking brake hold when the forklift was driven in forward and reverse?	Yes
Did the steering and braking respond properly when the forklift was driven in forward and reverse?	Yes
Did the forks lift to the highest point possible without any unusual sounds or movement of the mast and carriage?	Yes
Did the forklift tilt forward and backwards, side-shift, and fork-position properly?	Yes
Est-ce que les fourches, le mat et/ou le presseur sont en bon état ?	No
Do you check the break park ?	No
Est-ce que le klaxon fonctionne ?	No
Y a-t-il présence de fuite d'huile ?	No
Fluids and leaks: Did all fluid levels pass inspection	No
Est-ce que les flexibles hydrauliques sont en bon état ?	No
Tires: Did the tires pass inspection while checking for debris, damage, proper inflation, and tread levels?	No
Frame and overhead guard: Did the frame and mast pass inspection for cracks and other damage?	No
Forks: Did the forks pass inspection for cracks, straightness, alignment, and wear?	No

[COMPANY ADMIN] can then select a segment for each question and can reorder them by clicking on it, finally, he saves the checklist.

Selecting a segment is optional. However, to use the “discrete output” feature, it’s necessary to use the appropriate segment.

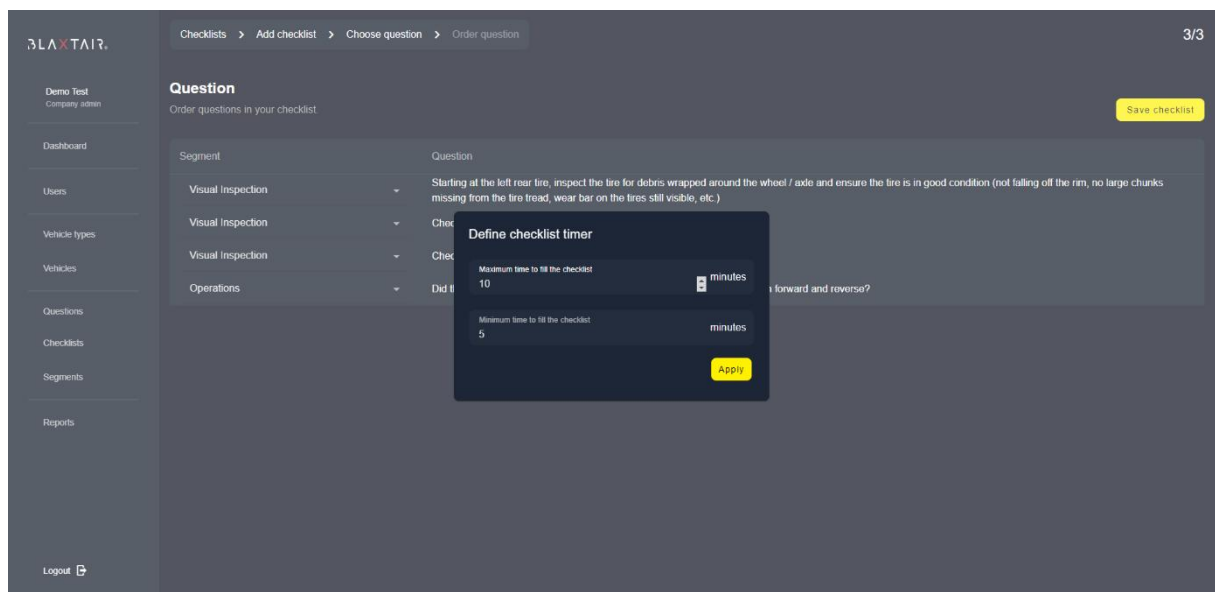


[COMPANY ADMIN] defines the maximum and minimum time needed to fill the checklist.

This min / max timers are important as they will lead to warning / failed checklist if not respected.

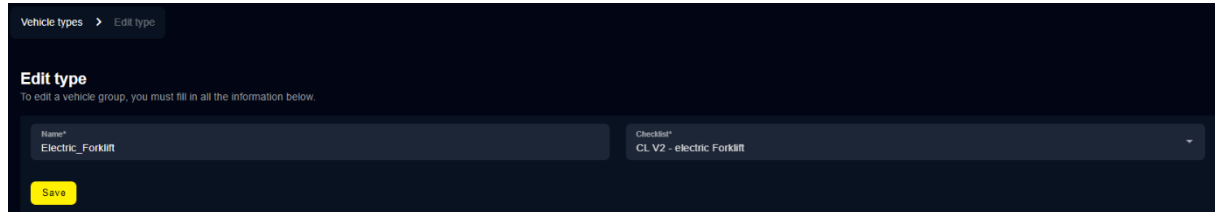
Those parameters are in “minutes” so it’s not possible to set a minimum time to 30s. In such case customer shall choose between 0 and 1 min.

IMPORTANT NOTE : if checklist max timer is exceeded, the checklist will be failed AND an alarm at maximum sound will be displayed until Key off.



Step 6 - Vehicle Type Management

This section allows [**COMPANY or APP ADMIN**] to create a vehicle type. Only one checklist can be linked to one vehicle type. But the same checklist can be applied to several vehicle types.



The screenshot shows a web interface for editing a vehicle type. At the top, there is a breadcrumb trail: "Vehicle types" followed by a right-pointing chevron and "Edit type". Below this, the heading "Edit type" is displayed, followed by a note: "To edit a vehicle group, you must fill in all the information below." The form contains two fields: a text input labeled "Name*" with the value "Electric_Forklift" and a dropdown menu labeled "Checklist*" with the selected value "CL_V2 - electric Forklift". A yellow "Save" button is located at the bottom left of the form area.

Step 7 - Planning Management (OPTIONAL)

Planning is optional. If not used, Checklist will need to be filled 8 hours after last successful checklist filled + next key off / key on. If planning is used, Checklist will need to be filled at the key off/ key on following the day/ time specified in the planning.

[COMPANY or App ADMIN] can click on Planning section and on “+ Add Template” on the top right to create a new planning.

After defining the name for this new planning, the page below will be displayed.

Clicking on “Day of the week” will allow to select days of the week (monday, tuesday, etc.) ; “Hour” will allow to define the time.

After clicking on “Add”, the planning will be updated with the days / time previously selected

Define the days and hours of validity for the checklist, then assign the templates to vehicles from the vehicles tab.

Day of the week

⌚ Hour

Add

Monday

08:00 ✕

Tuesday

Wednesday

Thursday

13:00 ✕

Friday

Saturday

Sunday

Step 8 - Vehicle Management

[COMPANY or app ADMIN] can click on Vehicles section on the left and Create vehicle on the top right corner.

Edit vehicle
To edit a vehicle, you must fill in all the information below.

Functionality selector: * ☒ Checklist ☐ Dashboard Connect

Picture or avatar. Max size 2MB Browse

Name* Electric_Forklift_CLV2_001 Vehicle type* Electric_Forklift Actual mode* Normal

Actual status* In operation Planning planning_CLV2_testCC_001 Tags

Device identifier 865023480069

Access by pincode ☐ Controlling discrete output ☐

Access by checklist ☒

Save

Description of the field / Tick boxes :

Mandatory fields are shown with an “*”

- **“Functionality selector”** : only available if company has access to Checklist AND Connect. Otherwise this bar will be masked. By ticking Checklist, Checklist feature will be available for this vehicle and only the fields related to Checklist will be shown; by ticking “Dashboard connect”, the fields related to Connect will be shown.
- **“Picture”** of the vehicle can be uploaded
- **“Name”** = free field for vehicle name / Id
- **“Vehicle Type”** = to be chosen among the vehicle types existing in the company (reminder - this is how vehicle is linked to a Checklist)
- **“Actual mode”** = Not used / not to be modified
- **“Actual status”** = Not used / not to be modified
- **“Planning” - optional field** :
 - If no planning is selected, the checklist will have to be filled 8 hours after the last successful Checklist filled (at the next key off / key on)
 - If planning is selected, the checklist will have to be filled at each day/ time specified in the planning

- **Device identifier** - required for checklist to work on a smart display = Serial number of the smart display installed in the vehicle
- **Access by pincode**: activates the pincode access or not. If activated whereas "access by checklist" is not, then pincode will be requested at each system start (Key off/ Key on) and act as an "access control" function.
- **Access by checklist**: activates the checklist or not.

If Access by pincode AND Access by checklist are activated, then driver will have to enter its pincode to get the right to fill the questions of the checklist

- **Controlling discrete output**: allows the system to activate a discrete output when checklist/pincode have been correctly filled. Can be connected to the vehicle to authorize vehicle nominal movement/ engine start or not/ reduced speed. An activated output will apply a high level voltage (similar to smart display input voltage), limited to max 200mA

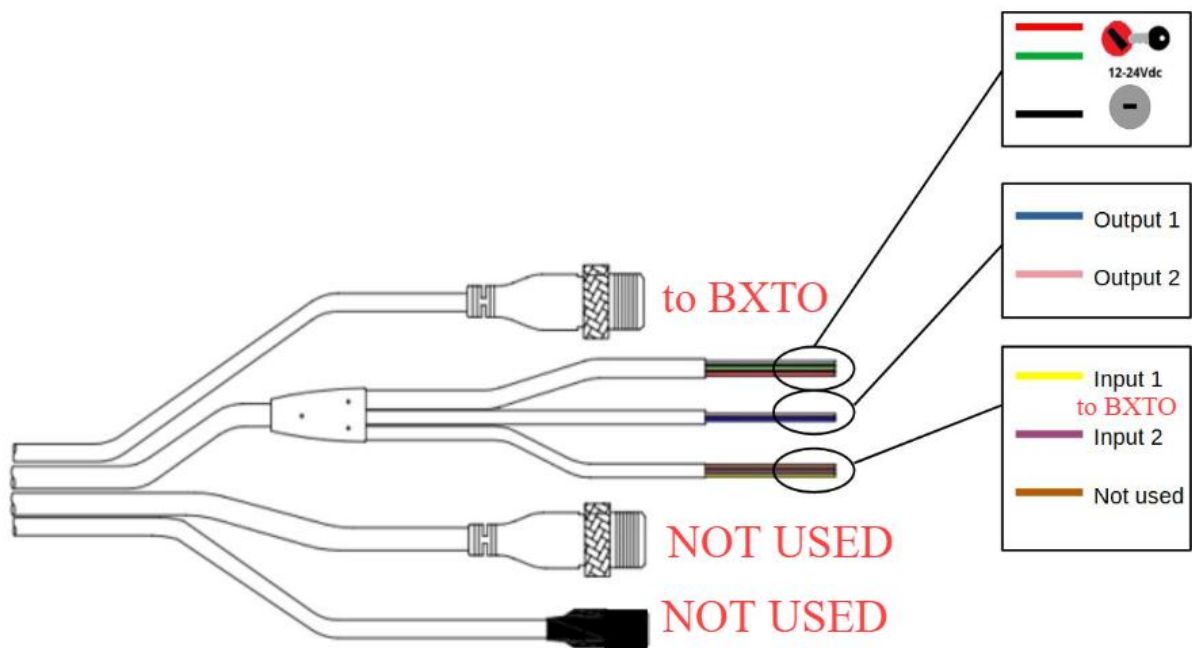
This option shall not be activated if not used on the vehicle

This could lead to short cut between the discrete output and the ground

Case A: Checklist embedded to BXT Origin and Standalone versions

Step 9 - Smart display Installation in vehicle

The smart display has the following cables :



Power/ IGN (Ignition) / Ground :

- Cradle power (red wire) and IGN (green wire) must be connected to the same power source. This source shall be disconnected when vehicle is off (Key/ IGN OFF), otherwise this could lead to vehicle battery being drained.
- Cradle ground (black cable) must be connected to the ground corresponding to the power source.

Discrete Output (optional)

- Discrete output 1 (blue wire) can be used to connect to interact with the vehicle. Will be activated only if :
 - Activated in maintenance mode (until key off and exit of maintenance + settings page)
 - OR activated in dashboard on the vehicle page linked to this tablet
 - AND
 - Checklist is valid
 - OR a segment allowing interaction with the vehicle is being answered
 - OR Checklist has been answered with only “non critical” questions wrongly answered (until Key off)

Connection to BXT0 (optional)

- If BXT0 is equipped on the vehicle, the 2 following connections with the smart display are required :
 - Video signal from CVBS connector must be connected to smart display Video M12 connector (4pin)
 - A discrete output of BXT0 configured to be at high level when alarm is active shall be connected to discrete input 1 of the smart display (yellow wire)

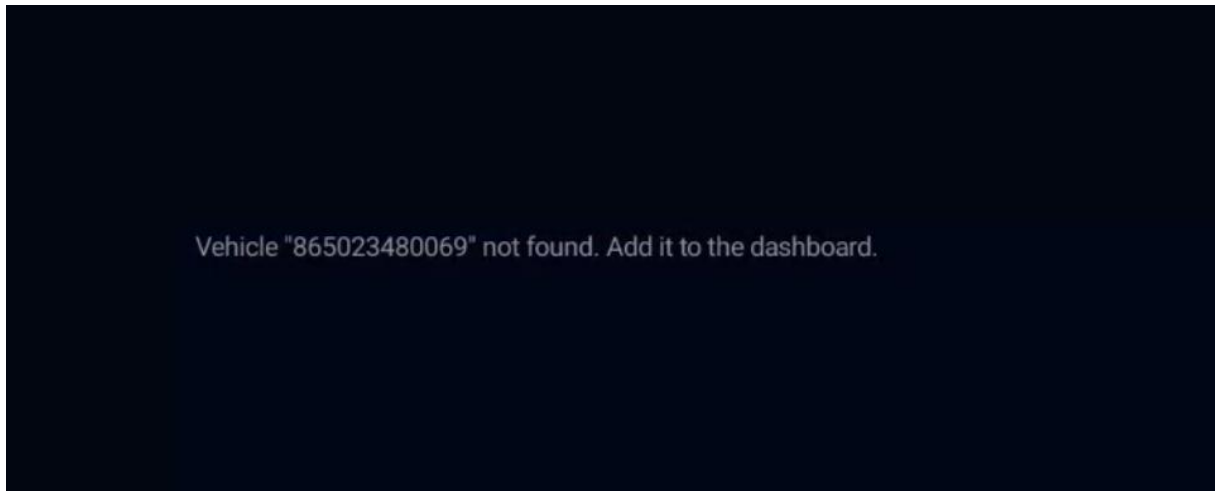
This connection is critical

If forgotten, the alarm won't be audible

Smart display has to be locked in its cradle. We advise cradle to be secured with the provided key to avoid smart display to be dismounted **as smart display is not made to work without its cradle.**

Step 10 - Smart display configuration

- Smart display shall be set ON by powering the vehicle
- If smart display has not been linked to a vehicle in the dashboard (see [step 8 - Vehicle management](#)), an error message will be shown indicating this link must be carried out :
(the text is incorrect and will be changed in a future SW version)



- If smart display link has been performed in the dashboard, the following page will be displayed, asking to fill the checklist. This page allows to check that the vehicle to which smart display is connected is correct

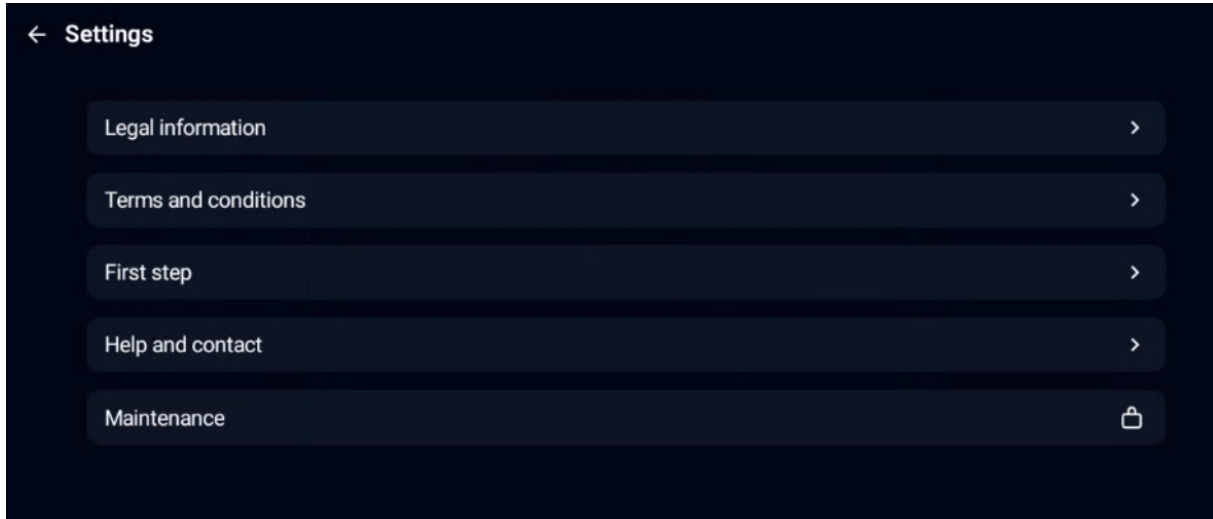


After this step, Checklist is ready to be used on the vehicle as a standalone system.

Step 11 - Smart display configuration - link with BXT0 (optional)

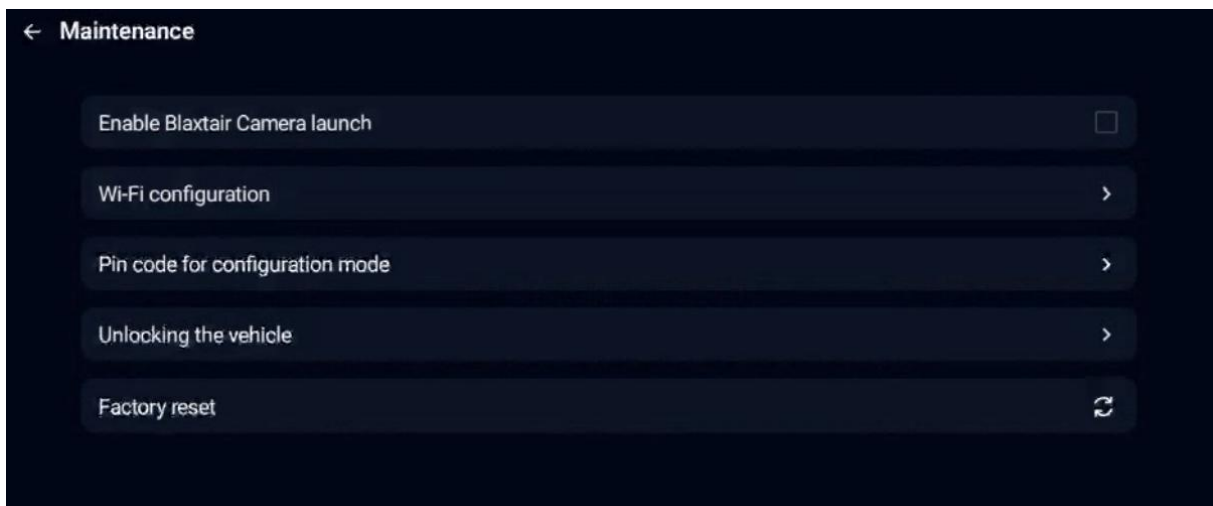
If BXT0 is installed on the vehicle (see [step 9](#)), the following configuration shall be performed

- Click on the gear (top right corner) to display following screen



- Click on "Maintenance"
- Enter password to get to the following screen :

Default password is 5504

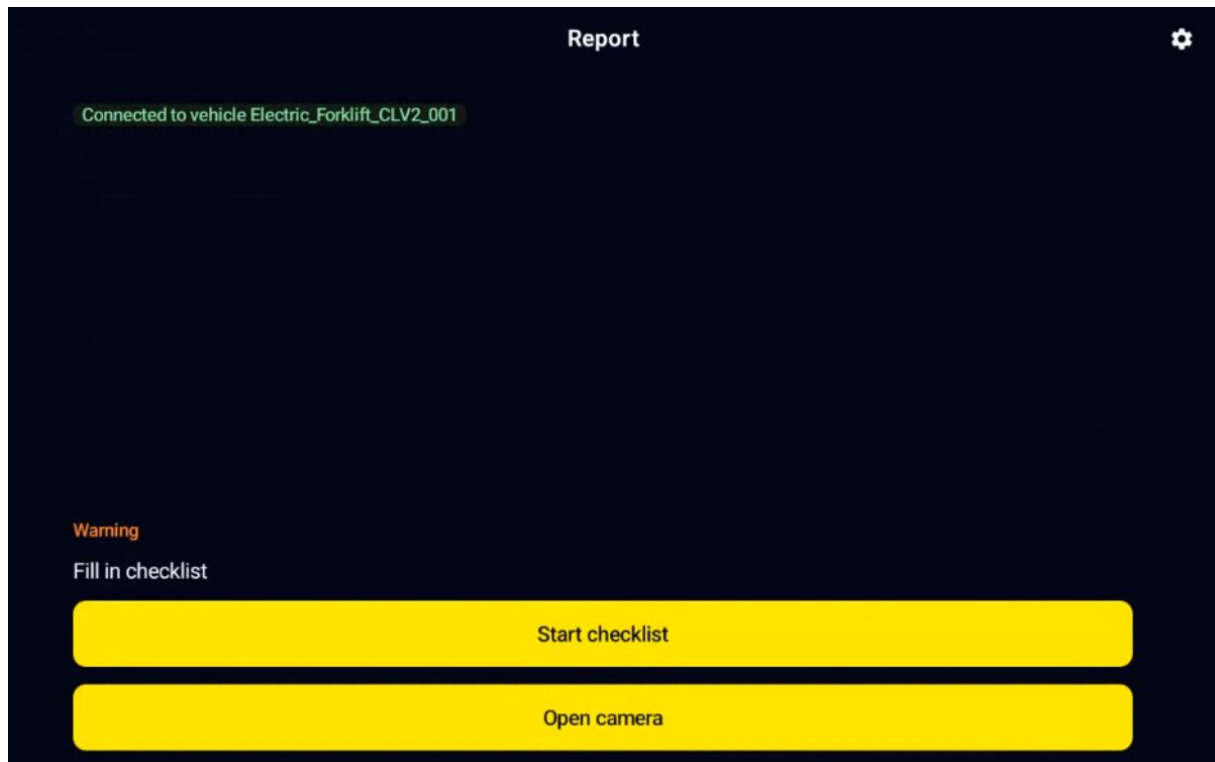


To activate link with BXT0, click on "Enable Blaxtair Camera Launch". By ticking this option :

- BXT0 video will automatically be displayed 10s after successful checklist is filled
- BXT0 video can be displayed 10s after pressing "open camera" button on the smart display home page. This "open camera" button can be used for example on a faulty vehicle to benefit from the BXT0 protection.

Maintenance page shall be exited before turning off system/ vehicle

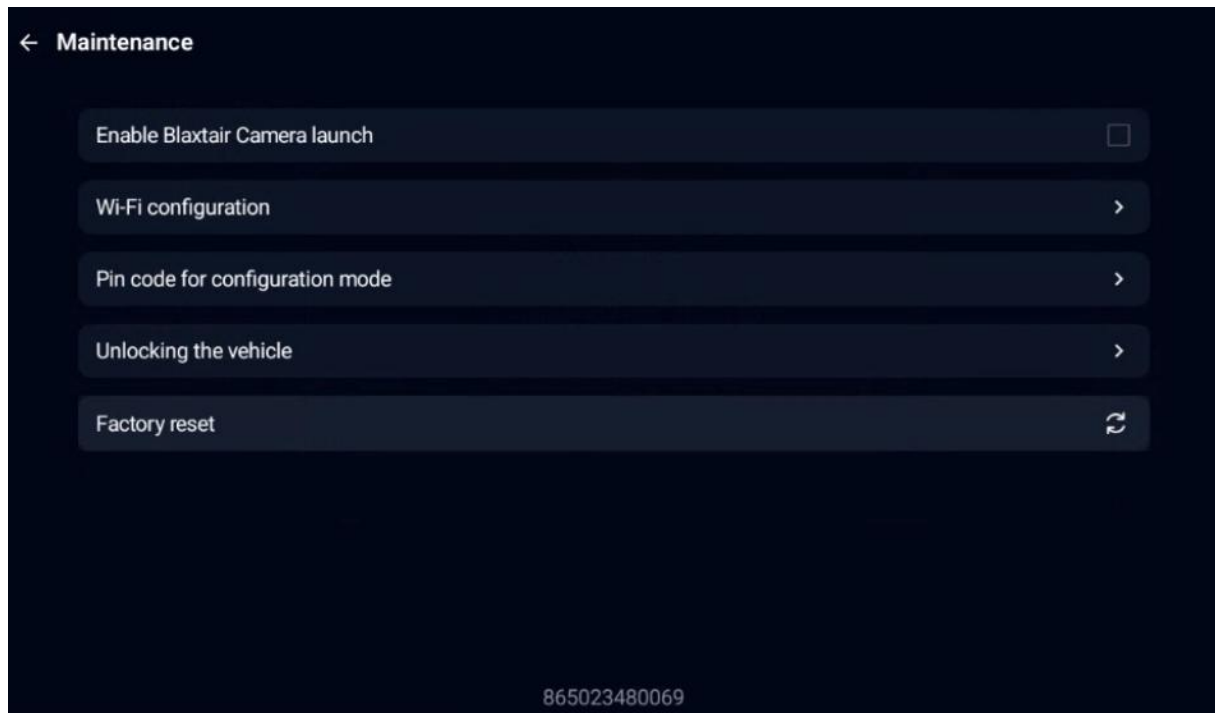
Otherwise, maintenance page will remain open/ accessible when turning system on again



After this step, Checklist + BXTO are ready to be used on the vehicle.

Step 12 - Options offered in maintenance mode

Reminder : the following page can be accessed after clicking on “Maintenance” in the setting page and by typing related password.



- Access to Smart display's Serial Number (displayed on the bottom of the page)
- “Enable Blaxtair Camera launch” : see [step 11](#)
- Wi-fi configuration - allows to select a Wi-fi network to be connected to - this is useful for areas with low/ no 4G coverage or for system software update



- Pin code for configuration mode : allows to change standard pwd to enter Maintenance mode

- Change output state : forces discrete output to high state (to disable vehicle limitations, if any). This allows to manually change the state of the discrete output from Low to High.

This works even if option “controlling discrete output” is not ticked in the dashboard

Shall not be used if not connected to the vehicle to avoid risks of power to ground shortcuts

- Factory reset : empties the smart display’s memory (reports stored in memory). This can be used to force the connection with dashboard to take into account modifications (for example after activating pincode feature or changing the list of questions)

Maintenance page shall be exited before turning off system/ vehicle

Otherwise, maintenance page will remain open/ accessible when turning system on again

Connection between dashboard and checklist

It's important to know when are connections done between checklist and dashboard as an update in the dashboard (change of checklist, etc.) will not be taken into account at other moments. Connection is possible only if network is available (4G/ Wifi) :

1. At system start (key On), if smart display's memory is empty (first use or after a "reset to factory" done in maintenance mode)
2. At the sending of a checklist
3. After pincode has been validated

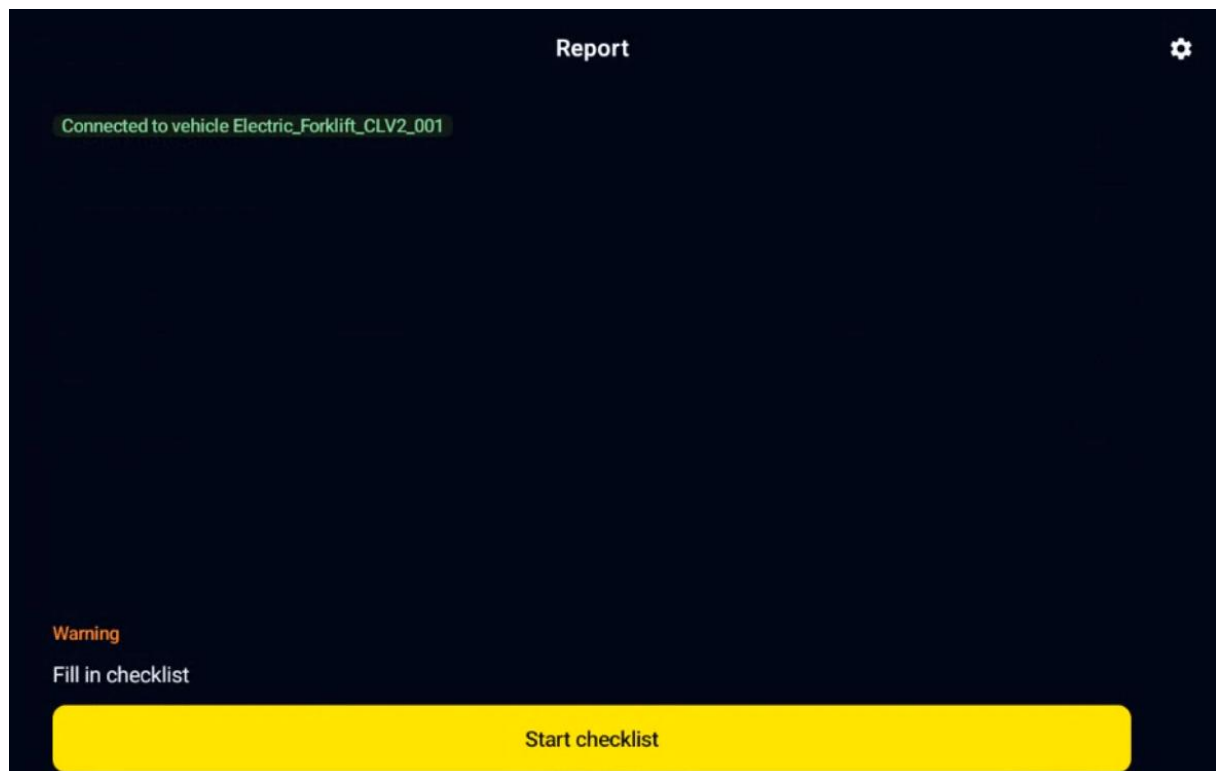
Case of connection loss/ and retrieved :

- If there's no connection : updates in the dashboard will not be taken into account by the smart display, reports of the checklist will not be sent
- When connection is recovered : unsent reports will be sent

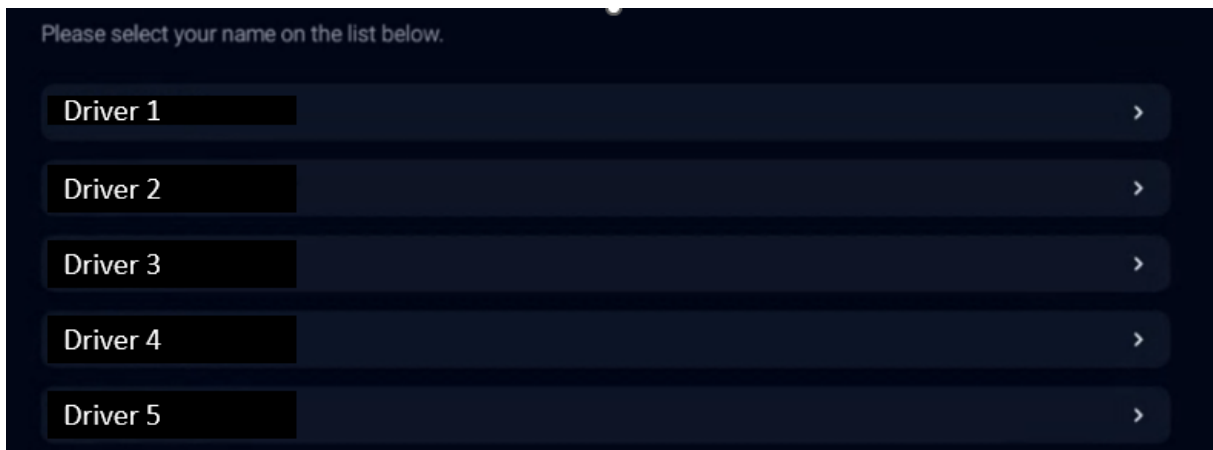
Operating Checklist by driver

This chapter will describe the nominal use of checklist by a driver

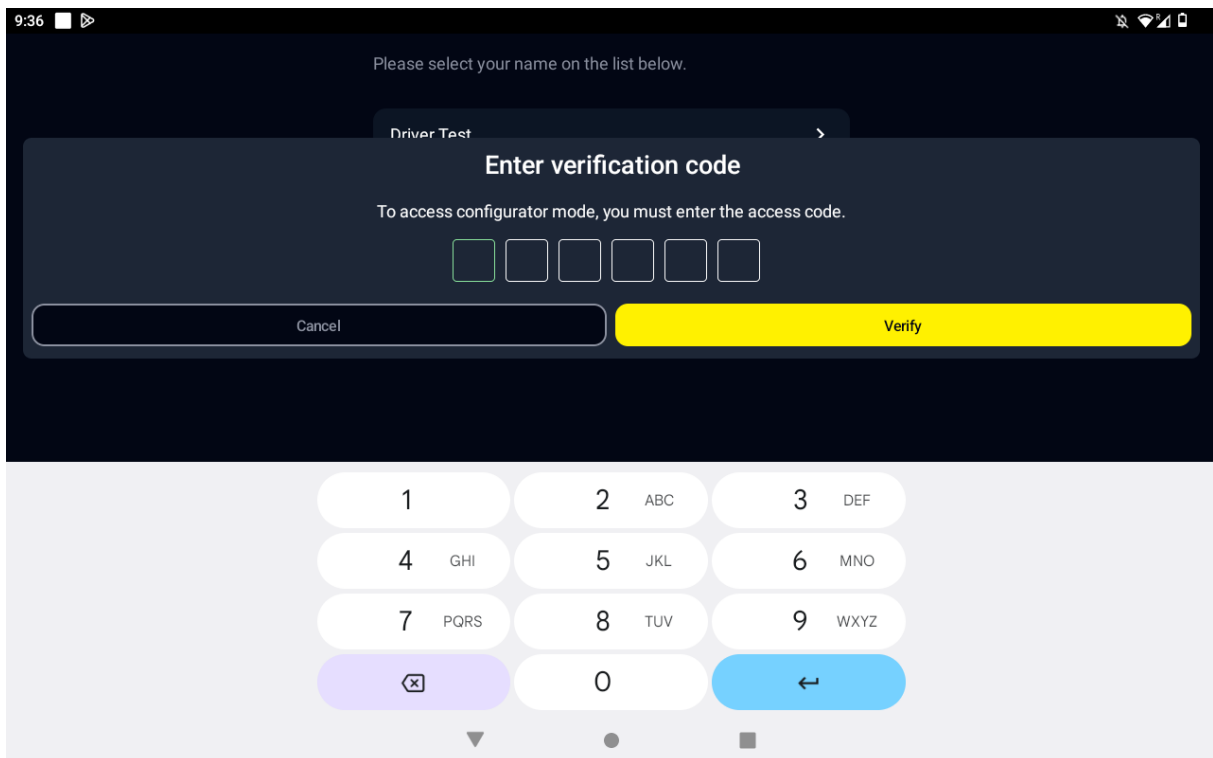
- After Key on, the following page will be displayed, **[DRIVER]** can click on "start checklist".



- **[DRIVER]** selects his/her name on the list.



- **[DRIVER]** then enters his/her PIN Code (only if "access by pincode" has been ticked in the dashboard's vehicle page)



- **[DRIVER]** answers questions of the checklist

The screenshot shows a dark-themed interface for a checklist. At the top, it says "Question 1 of 6" and has a gear icon. Below this is a status bar indicating "Connected to vehicle Electric_Forklift_CLV2_001" and "99 min". The main question is "Did the forklift leave any leaks on the ground after it was moved from where it was previously parked?". Below the question are two yellow buttons labeled "No" and "Yes".

Question 1 of 6

Connected to vehicle Electric_Forklift_CLV2_001 99 min

Operational

Did the forklift leave any leaks on the ground after it was moved from where it was previously parked?

No Yes

- After answering the last question, the following page will be displayed. **[DRIVER]** can enter a comment (optional) and validate the checklist by ticking "I confirm" and "Send"

The screenshot shows the final question of the checklist, "Question 6 of 6". It includes the same status bar as the previous screen. Below the question area, there is a "Comment" field with the text "flat tire" entered. Below the comment field is a checkbox labeled "I confirm" which is checked. At the bottom is a large yellow button labeled "Send".

Question 6 of 6

Connected to vehicle Electric_Forklift_CLV2_001 98 min

Comment

flat tire

☒ I confirm

Send

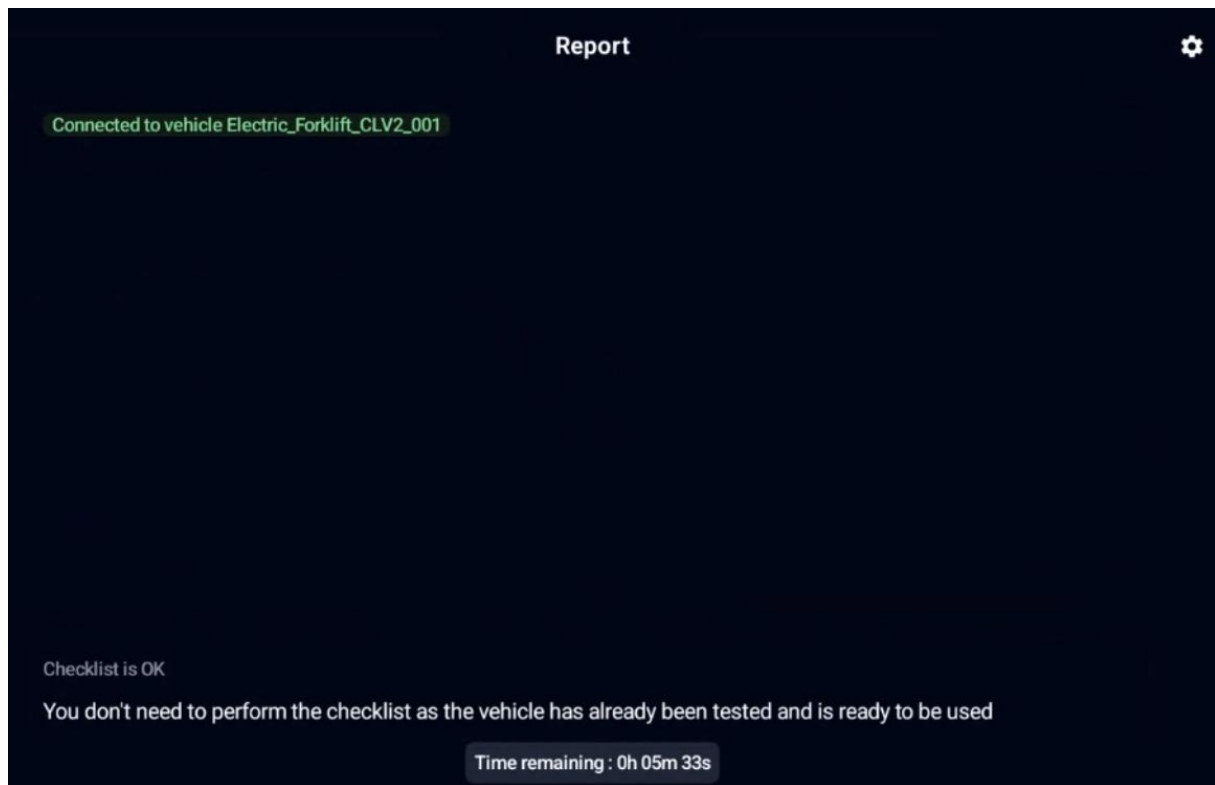
There are 3 possible outcomes of the checklist :

- **Faulty vehicle** : at least one “critical” question of the checklist was wrongly answered <=> checklist is failed, the vehicle is defined as “faulty”. If discrete output is used (activated in the dashboard’s vehicle page and wired to the vehicle), discrete output will change its state which may induce interaction with the vehicle. Only a valid checklist OR the “Change output state” option in maintenance mode OR the by pass of the relay mechanism allows to stop the interaction with the vehicle.



Driver can restart the checklist again if driver made a mistake while answering checklist

- **Warning vehicle** : at least one “warning” question of the checklist was wrongly answered AND no “critical” question was wrongly answered <=> the vehicle is defined as in “warning” state. If discrete output is used, warning state WILL NOT limit the vehicle movement until next Key OFF.
- **Checklist OK** : all questions were correctly answered. If discrete output is used, vehicle movement won’t be limited. The “Time remaining” gives the validity time of the checklist. In example below, the checklist will be asked again in 5min33s AND the following Key Off/ On. Reminder (see [step 7](#)) : validity timer is 8 hours if no planning is linked to the vehicle / the time before reaching the next slot of the planning if planning has been linked to the vehicle.



Dashboard Features

This chapter describes some features from the dashboard that have not been covered yet

Kpi

App admin or Company admin can access to KPIs



Reports

App admin or Company admin can access to all checklist reports from its fleet : reports will only be available if network is available around the vehicles

Reports

Search by first name and last name

🔍

⌵

📄 Export to CSV

<input type="checkbox"/>	User name	▼	Date	Vehicle name	Result
<input type="checkbox"/>	cedric chassagnol driver		05-20-2024	Electric_Forklift_CLV2_001	OK
<input type="checkbox"/>	cedric chassagnol driver		05-20-2024	Electric_Forklift_CLV2_001	Failed

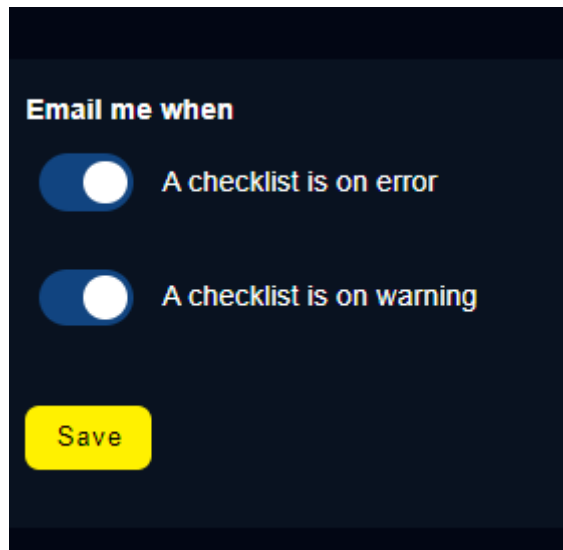
Reports list can be exported in a csv file

By clicking on a report, the following page is displayed showing date of the report, driver's name, driver's comment (if any), the questions and whether they're critical (Yes and green) or warning type (no and red) and the answer (correct in green, wrong in red)

General data					
ID	Company name	User name	Date	Vehicle name	Result
16f22f73-19ef-488a-9cc6-2d0d59aa92eb	Blaxlair	cedric chassagnol driver	05-20-2024	Electric_Forklift_CLV2_001	Failed
Comment flat tire			Signature Empty		
Questions					
#	Question	Critical	Answer		
#0	Did the forklift leave any leaks on the ground after it was moved from where it was previously parked?	Yes	Yes		
#1	Forks: Did the forks pass inspection for cracks, straightness, alignment, and wear?	No	No		
#2	Did the parking brake hold when the forklift was driven in forward and reverse?	Yes	Yes		
#3	Did the steering and braking respond properly when the forklift was driven in forward and reverse?	Yes	No		
#4	Did the forks lift to the highest point possible without any unusual sounds or movement of the mast and carriage?	No	No		
#5	Did the forklift tilt forward and backwards, side-shift, and fork-position properly?	No	Yes		

Automatic emailing in case of checklist warning or fail

By clicking on your account (bottom left part of dashboard page), you will have the possibility to enable/ disable automatic emails when a checklist is in error or warning.

A screenshot of a settings panel with a dark blue background. At the top, the text "Email me when" is displayed in white. Below this, there are two toggle switches, each with a white circle on a blue track. The first toggle is turned on and is followed by the text "A checklist is on error". The second toggle is also turned on and is followed by the text "A checklist is on warning". At the bottom of the panel, there is a yellow rectangular button with the word "Save" in black text.

Email me when

☒ A checklist is on error

☒ A checklist is on warning

Save

Known limitations

- Dashboard and Smart display will connect together only if :
 - Smart display's memory is empty (first use or after a "reset to factory" action in maintenance mode)
 - Checklist is sent
 - Valid pincode entered by driver
 - Application crash (not nominal)

=> This means that a modification in the dashboard (for example change in the planning) will not be taken into account outside the conditions above

- If checklist and pincode are activated on a vehicle, pincode will be requested at each KEY OFF/ KEY ON, not only when Checklist needs to be filled - this acts as an access control.
- Smart display's brightness cannot be changed by user (automatic adjustment is active)
- When BXT0's option is active, it takes 10s after Key ON to have transition from Checklist page to BXT0's Camera page.
- If key OFF/ On performed while in maintenance page, system will open again in maintenance page
 - If controlling discrete output at high level has been activated, it will remain active after Key OFF / ON

=> it's Mandatory to exit maintenance mode after the needed operation have been performed

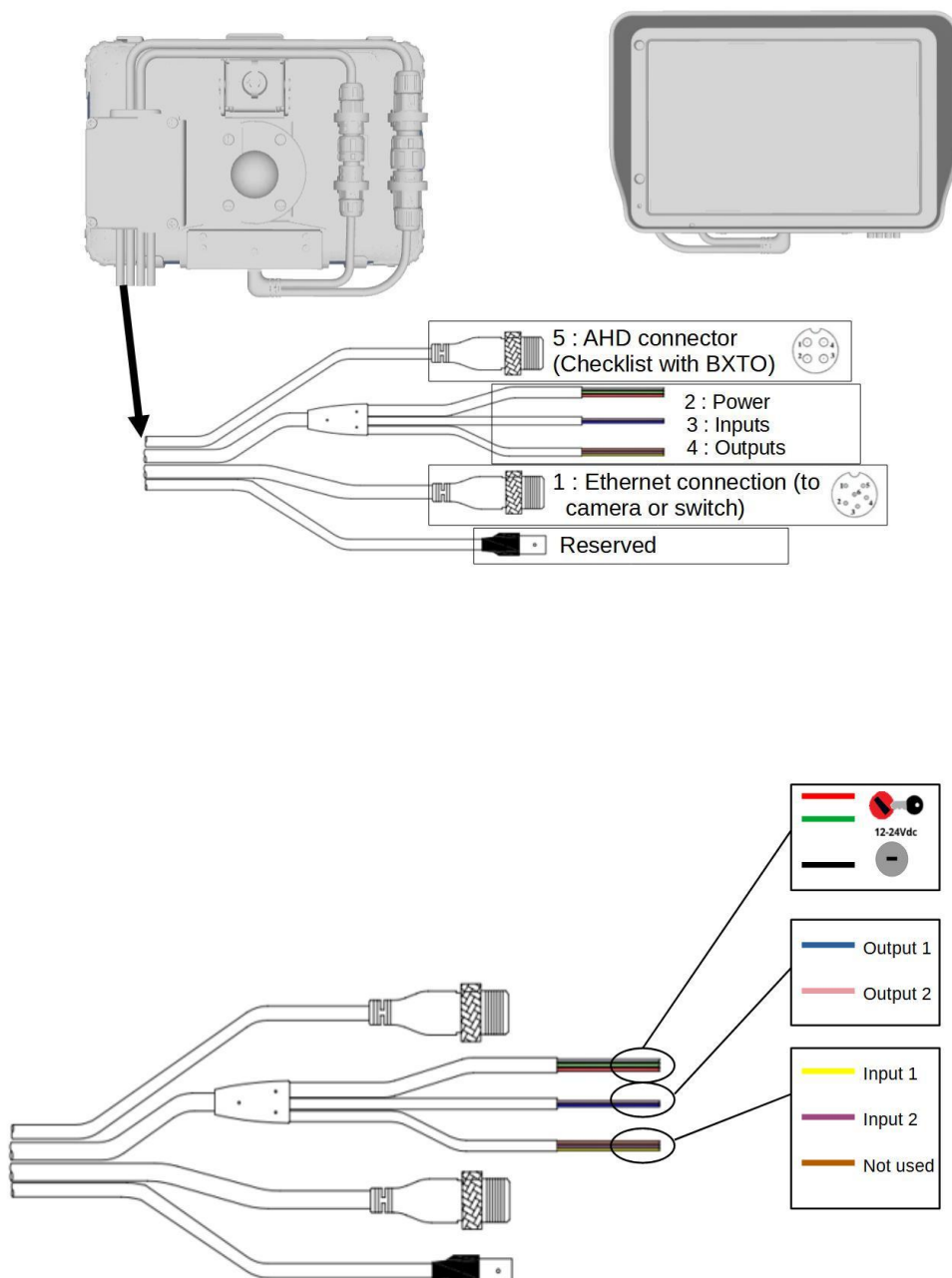
- Setting for minimum timer to fill the checklist is in minutes. So it's not possible to set it to 30s for example.
- Disclaimer only available in settings and not on opening page of Checklist
- Since version 0.6.5 (in production since december 2024), it's possible for user to change the sound volume level using tablet's button. User can not decrease sound below 25% of max volume.

Case B: Checklist embedded to BXT MR130/MR260

The Blaxtair checklist requires actions on the smart display and on the checklist dashboard to be functional. This paragraph presents the installation steps required on the smart display.

Step 9 - Smart display installation in the vehicle

The smart display presents the following cables:



Power/ IGN (Ignition) / Ground :

- (mandatory) Cradle power (red wire) and IGN (green wire) must be connected to the same power source. This source shall be disconnected when the vehicle is off (Key/IGN OFF); otherwise, this could lead to the vehicle battery being drained.
- (mandatory) Cradle ground (black cable) must be connected to the ground corresponding to the power source. This step is mandatory for any checklist.
- (optional) Discrete outputs (blue and pink wires) can be used to interact with the vehicle.

Will be activated only if the following conditions are fulfilled:

- (1) Activated on the Dashboard settings on the vehicle page linked to this tablet

The screenshot shows the 'Edit vehicle' interface. At the top, there are two checked options: 'Functionality selector: * Checklist' and 'Dashboard Connect'. Below this is a section for 'Picture or avatar. Max size 2MB' with a 'Browse' button. The main form contains several input fields: 'Name*' (Vehicle 86502XXXXXX), 'Worksite*' (54f72b58-987f-427b-ae70-703d42b49d2f), 'Vehicle type*' (Default vehicle group), 'Category*' (Reach truck), 'Model', 'Brand', 'If you cannot find the brand, write it', 'Planning', and 'Device identifier' (86502XXXXXX). At the bottom, there are two toggle switches: 'Access by pincode' (disabled) and 'Access by checklist' (enabled). A red circle highlights the 'Controlling discrete output' toggle, which is currently turned on.

- (2) And activated in the configuration of the outputs on the smart display
- (3) AND
 - Checklist is valid
 - OR a segment interacting with the vehicle is being answered
 - OR Checklist has been answered with only “non critical” questions wrongly answered (until Key off)

Smart display has to be locked on its cradle. We advise cradle to be secured with the provided screws to avoid smart display to be dismounted **as smart display is not made to work without its cradle.**

Step 10 - License activation

To activate the license you need to have the “Checklist license card” ready. You should have ordered the “license for checklist” (kit ref. 699-980-008) to Arcure/Blaxtair and received the activation quick start guide ([20250625 QSG Checklist.pdf](#)) and the license card.



Below article will explain how to activate your license.

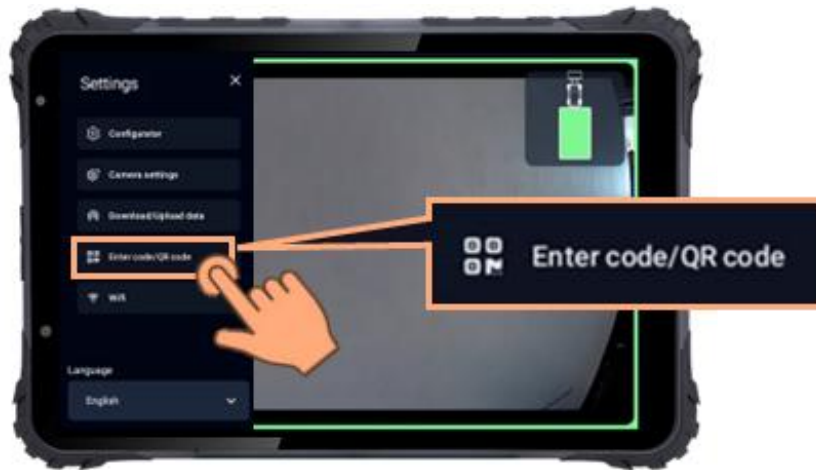
An active Dashboard Connect subscription for the Blaxtair system is required before you can activate the Checklist license.

Dashboard activation is presented in the following Quick start guide:

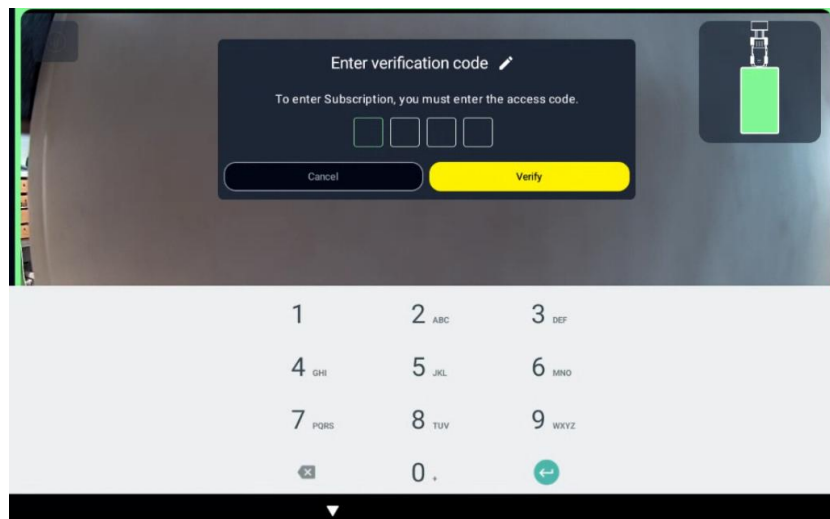
[20250626 QSG abonnement.pdf](#)

4G or Wifi connexion is mandatory to perform the next steps.

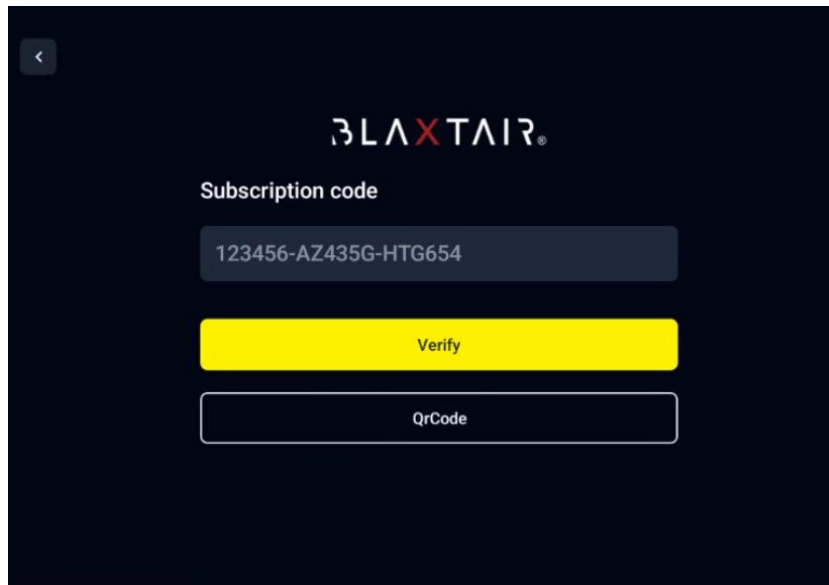
- 1 Go to “Enter code/QR code” on the configurator



You will have to use your password which is 1235 by default



2 Enter the license code



A dark-themed mobile application screen for BLAXTAIR. At the top left is a back arrow icon. The BLAXTAIR logo is centered at the top. Below it, the text "Subscription code" is displayed. A dark gray input field contains the code "123456-AZ435G-HTG654". Below the input field are two buttons: a prominent yellow "Verify" button and a white-outlined "QrCode" button.

<

BLAXTAIR®

Subscription code

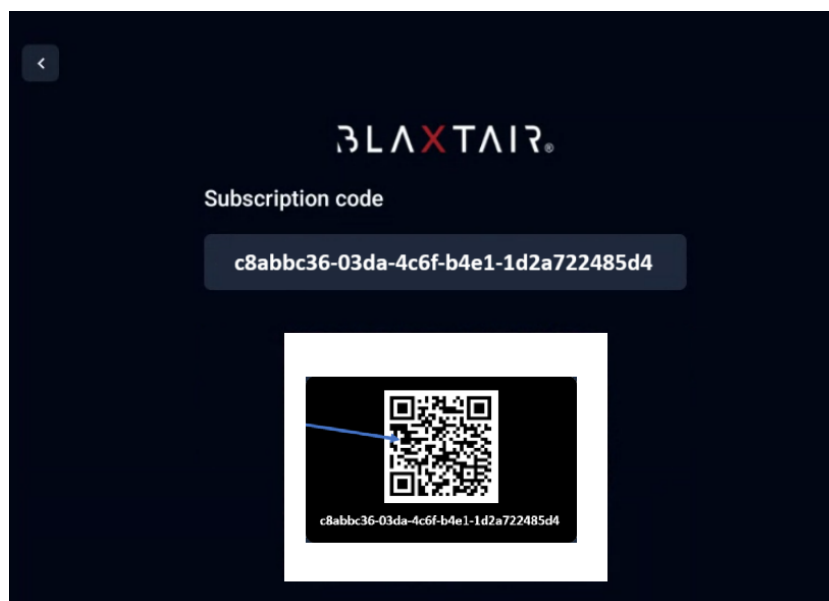
123456-AZ435G-HTG654

Verify

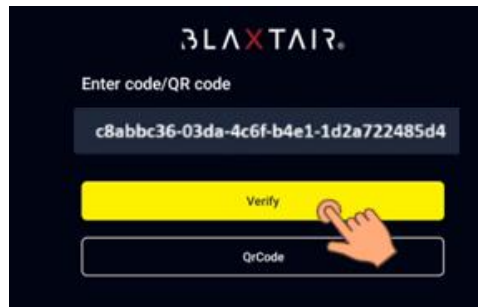
QrCode

Once you reach this page you have two ways to activate the code:

Automatic (scan the license QR Code using the camera at the back of the smart display)



Click on “Verify”.

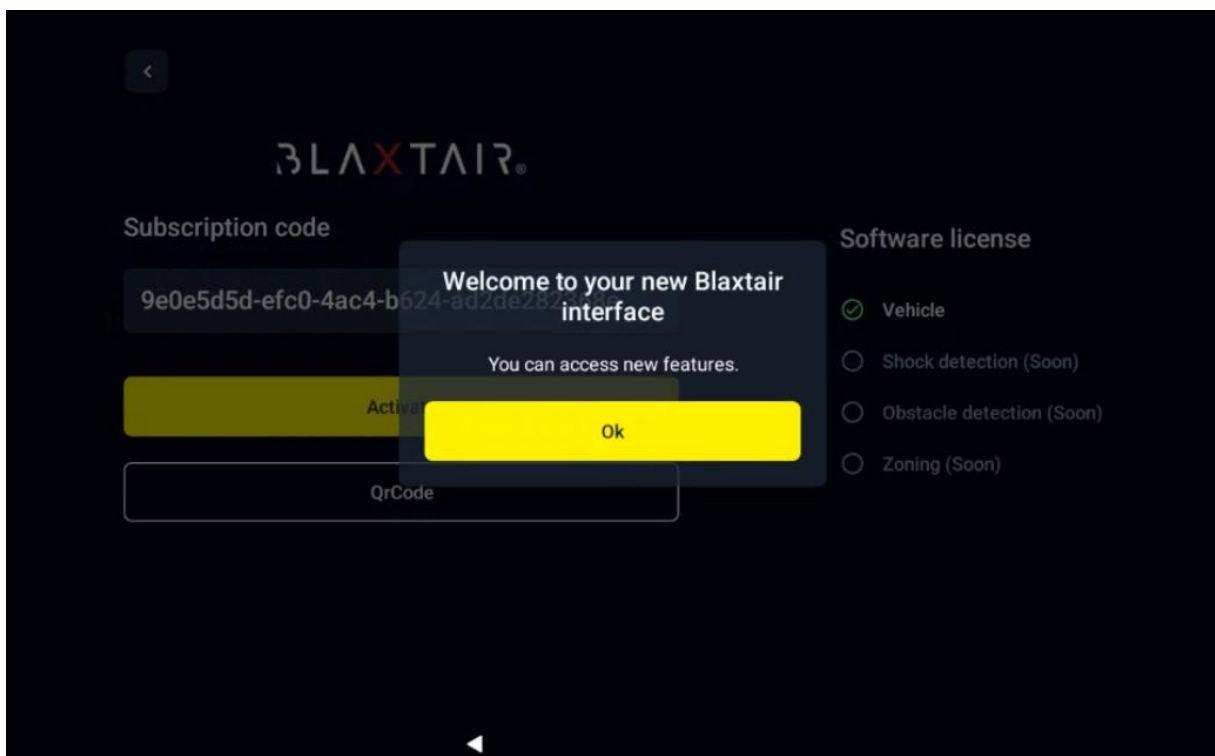


The scanned license will be checked/green and the screen displays:



License activation

Click on “Activate”. The screen displays:



Click on “OK”.

The checklist is active on the system. Turn Off/On the vehicle. A list of drivers should be displayed on the smart display:

- Default driver → if no driver is created for your company in the dashboard

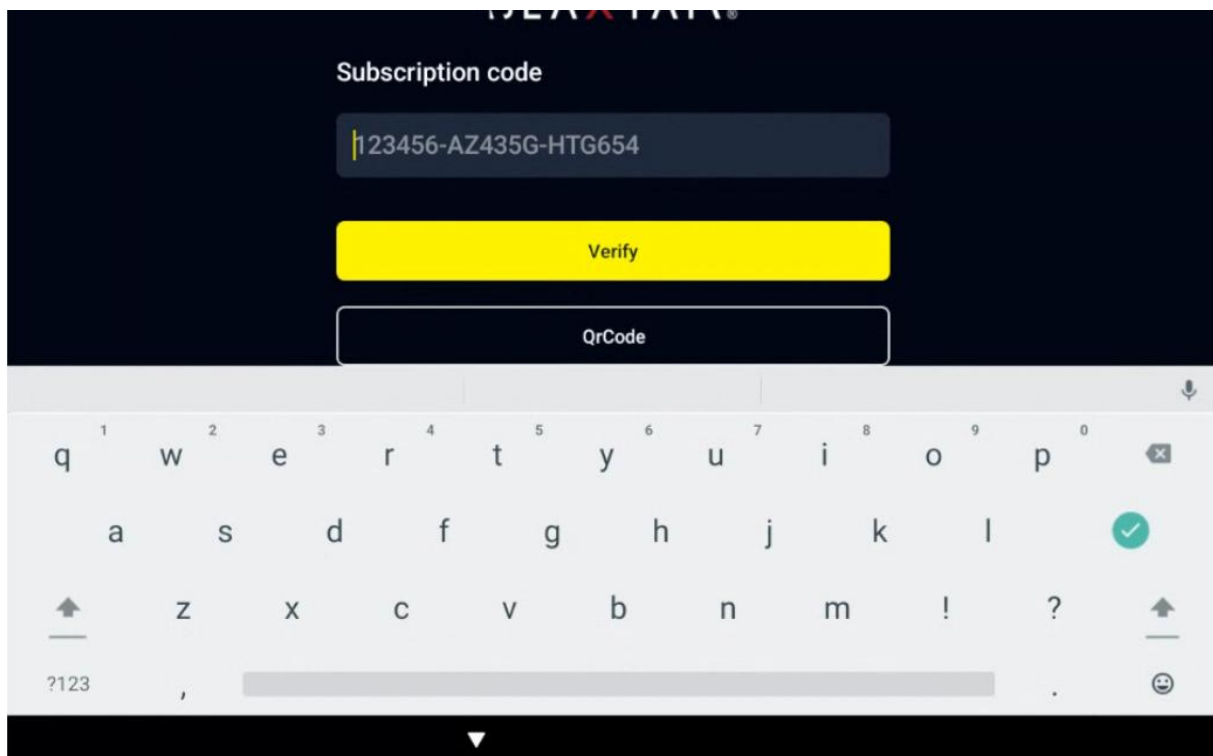
or

- Personalized list of drivers if a least one driver is created in the dashboard for your company.

If no configuration is performed on the dashboard connect, a list of default questions is displayed on the smart display once a driver is selected.

If the checklist is configured on the dashboard, the defined list of questions should be displayed on the smart display.

For information, another option to enter the code is manual entry in the page below:



An active Dashboard Connect subscription for the Blaxtair system is required to activate the Checklist license.

Dashboard activation is explained in the Quick start guide:

[20250626_QSG_abonnement.pdf](#)

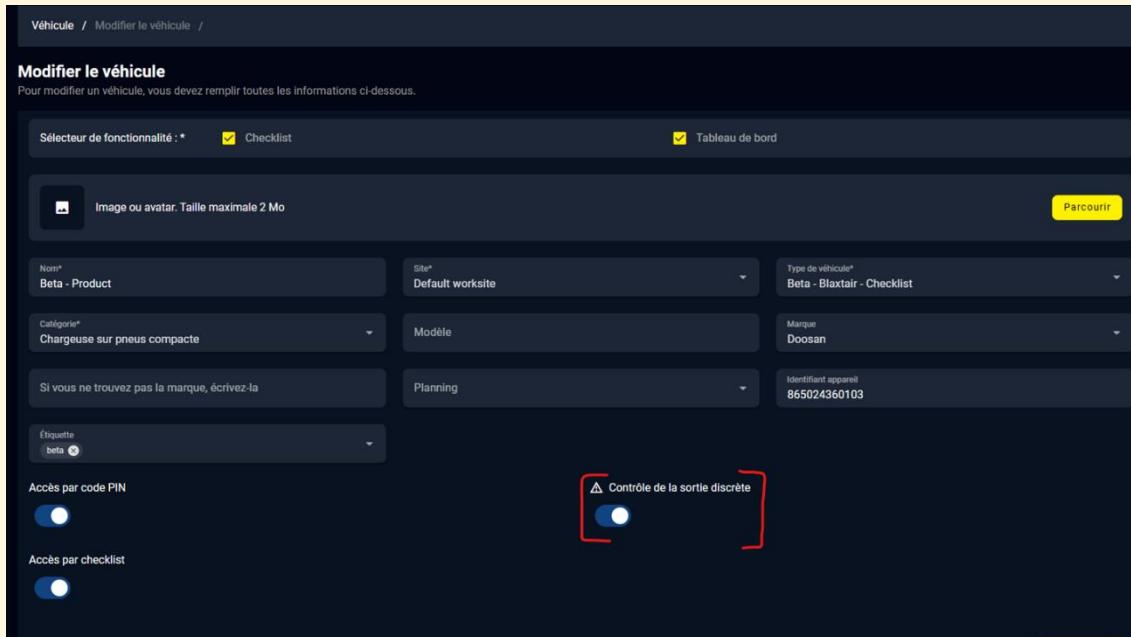
Step 11 (Optional) - Output activation

This paragraph explains how to activate control of the discrete output using the checklist. This feature enables interaction with the vehicle based on the checklist state.

To interact with the vehicle, activate the output linked to the checklist in the configurator.

Step to be performed on the Blaxtair Dashboard

In order to visualize the checklist option in the configurator of the smart display, it is mandatory to activate the dashboard checklist option “Control discrete output”



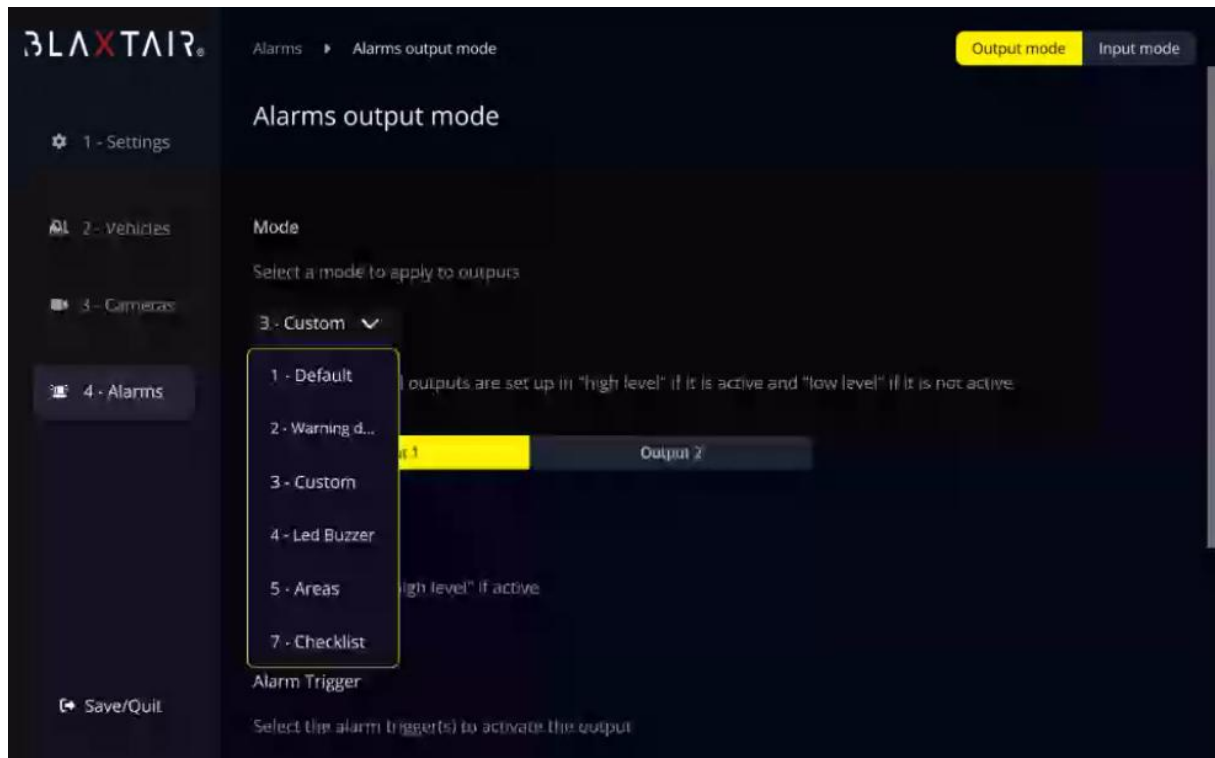
The screenshot shows the 'Modifier le véhicule' (Edit vehicle) page in the Blaxtair Dashboard. The page has a dark theme. At the top, there's a breadcrumb 'Véhicule / Modifier le véhicule /'. Below it, the title 'Modifier le véhicule' is followed by a subtitle 'Pour modifier un véhicule, vous devez remplir toutes les informations ci-dessous.'.

The main form area contains several sections:

- Sélecteur de fonctionnalité :** Two checkboxes are visible: 'Checklist' (checked) and 'Tableau de bord' (checked).
- Image ou avatar:** A section with a placeholder image and a 'Parcourir' button.
- Form fields:**
 - Nom :** 'Beta - Product'
 - Site :** 'Default worksite' (dropdown)
 - Type de véhicule :** 'Beta - Blaxtair - Checklist' (dropdown)
 - Catégorie :** 'Chargeuse sur pneus compacte' (dropdown)
 - Modèle :** (empty)
 - Marque :** 'Doosan' (dropdown)
 - Si vous ne trouvez pas la marque, écrivez-la :** (empty)
 - Planning :** (empty)
 - Identifiant appareil :** '865024360103'
 - Étiquette :** 'beta' (dropdown)
- Accès par code PIN :** A toggle switch is turned on.
- Accès par checklist :** A toggle switch is turned on.
- Contrôle de la sortie discrète :** A toggle switch is turned on, highlighted with a red rectangle.

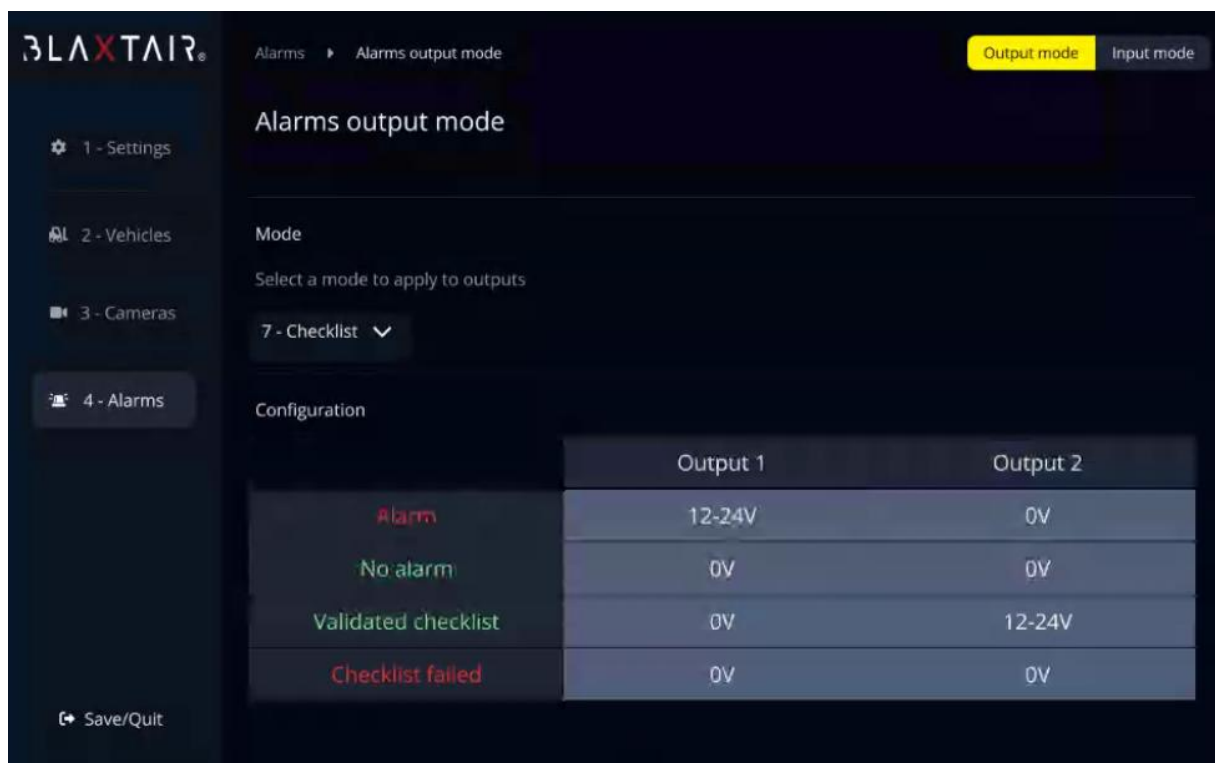
Step to be performed on the Smart display (configurator)

1. Access the Output mode in the configurator



2. Select either the mode “7-Checklist” or “3-Custom”

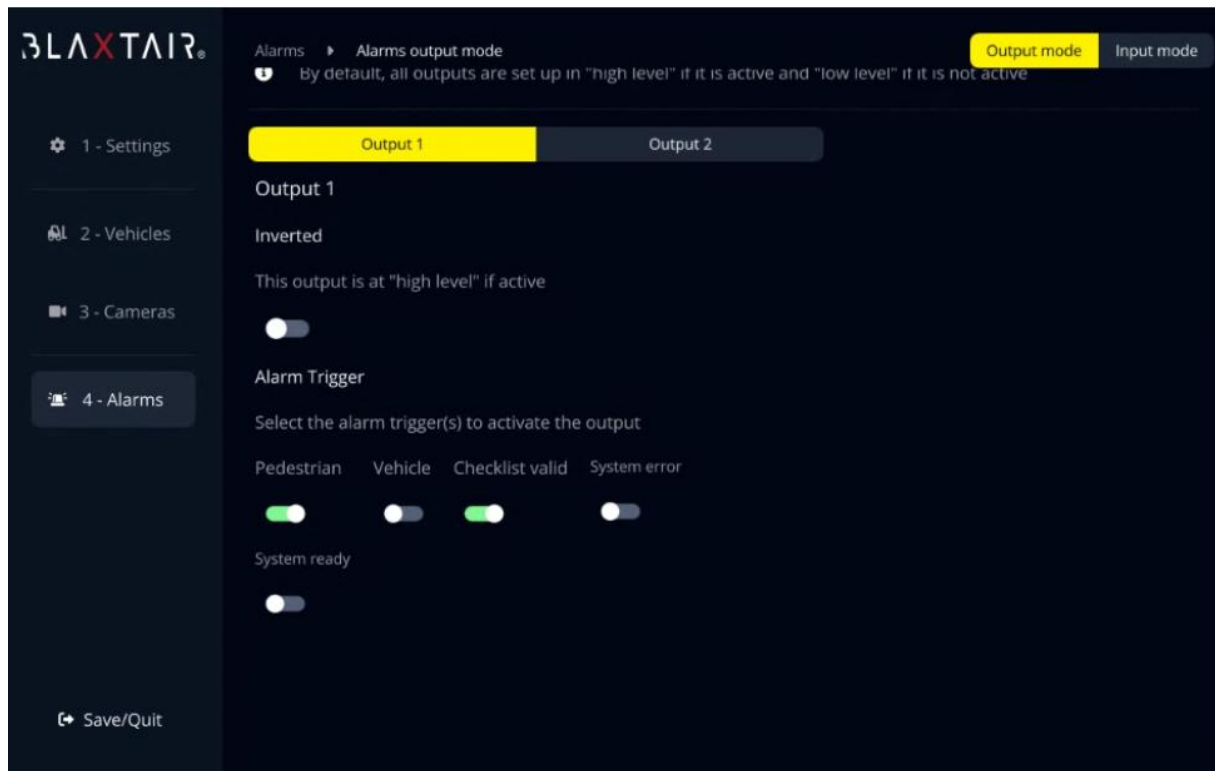
2.a. Select the mode 7-Checklist to activate the output depending on checklist state only.



The output 2 is at 12-24V if the checklist is valid and at 0V if the checklist is failed.

The output 1 is linked to the pedestrian detections.

2.b. Select the custom mode in order to select the output to be linked to the checklist.
This mode allows also to combine different type alerts to one output.



Once this step is completed and the wiring performed, the vehicle's state depends on the checklist status (valid, warning, failed) and the question segment (operational or visual).