



User Manual: HUB4Trucks Truck Company Guide



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INTRODUCTION

The purpose of this document is to provide an overview of the features of the new remote fleet monitoring dashboard, named "HUB4Trucks".

The new platform has been designed as a practical and dedicated tool to support fleet managers in their daily activities by providing them with the ability to independently monitor and manage all the devices of their Truck Company.

This manual is dedicated to *Truck Companies* and aims to guide users by helping them to maximize the potential of the tool in question.

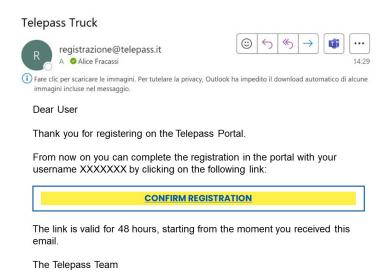
By the end of this guide, users will be able to interact with the dashboard.

The Truck Company profile, reserved for fleet managers, provides access to information on all on-board units (OBUs) associated with the same contract code (Truck Company - Customer).

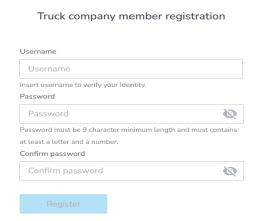
1.1 Login of the Truck Company



Once the confirmation email for activation has been received by the Sales Partner, the Fleet Manager (Customer User), to complete the registration, must click on the "*CONFIRM REGISTRATION*" link within it:



Once you click on "CONFIRM REGISTRATION" the following screen will appear:



The <u>Truck Company Contract Code</u>, i.e. the sequence of numbers (e.g. "XXXXXXXXX") provided in the confirmation email, <u>must be used as a username</u> for all subsequent accesses.

The Fleet Manager will then have to choose a **password** and confirm it. After these steps, the registration process is considered completed.

The first step is to connect to the http://truck.telepass.com/home

The Homepage is shown below:



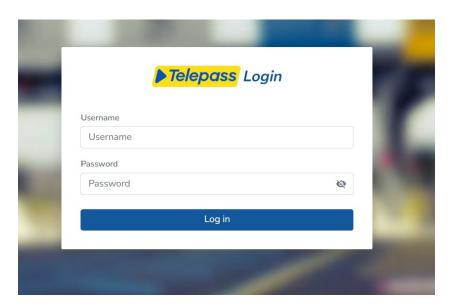


After clicking on the "*Login*" button, the user will have to enter the username (contract code) and the password chosen during registration.

Example:

• Username: XXXXXXXXX

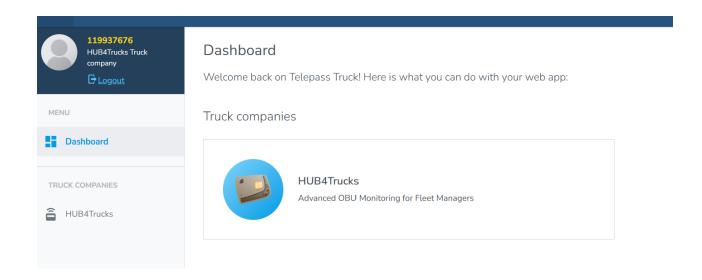
• Password: The one chosen during the registration phase:



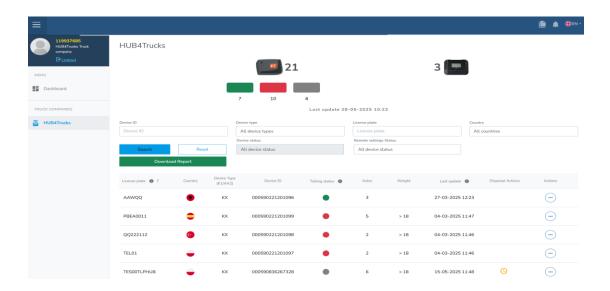
1.2 Dashboard HUB4Trucks

Users who have been granted access will see the new *HUB4Trucks* widget on the Homepage, as shown below:





By clicking on the "*HUB4Trucks*" icon, users can view the Telepass Dashboard, available in **Italian** and **English**. You can change the language by clicking on the icon in the top right corner. The dashboard consists of the following functions:



- 1. OBU Overview (top)
- 2. OBU list (bottom)
- 3. Filters (with Search and Reset buttons)
- 4. Download Report (green button)
- **5.** Refresh (Search button)
- **6.** Round icon with the 3 dots on the right of the Actions column, corresponding to each OBU: it consists of the following 4 areas dedicated to each OBU:
 - a. OBU Details
 - b. Toll Domain Information



- c. Scan for anomalies (K1 only)
- **d.** Axle/weight change history (K1 only)

Please note: The Fleet Manager will need to click on the 'Search' button to update the information shown on the Dashboard. This will update the page with the latest data.

1.2.1 OBU Overview

On the Homepage, at the top center, you can view the status of all the OBUs in the contract, in particular:

- a. The total number of Truck Company K1 and AA2 OBUs (distributed and active at the time of the last update of the web page);
- b. For K1 devices only, the OBU status information:
 - i. GREEN status: Total OBU regularly functioning;
 - ii. RED status: Total number of OBUs in anomaly;
 - iii. GREY status: Total number of OBUs that are offline or unable to communicate.

In this section, only the numbers of the OBUs corresponding to those statuses will be visible, without additional information.

For details on the GREY and RED statuses, the user must use the OBU List and related filters.

The date and time of the **Last Update** shown on the top section of the homepage indicates the last update of the page (based on the last click on the "Search" button). All information shown reflects the data available at that specific time.

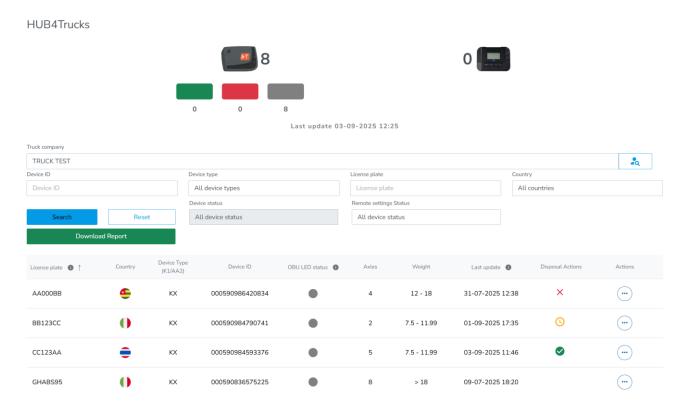
HUB4Trucks



1.2.2 List of OBUs

The OBU List, located on the Dashboard, provides an overview of all the devices in the Contract.





This section shows detailed information about each OBU:

- **a.** License Plate: This Column shows license plates associated with OBUs, which can be sorted alphabetically using the arrow icon;
- **b.** Country: The country where the license plate is registered (flag);
- c. Device Type (KX/AA): Indicates the type of OBU;
- **d.** Support ID: The identification code of each OBU;
- e. Led status (shown for K1 only):
 - When the OBU is ON, the current LED status (Green or Red) is shown;
 - When the OBU is OFF, the GRAY status is shown;
- f. Axles (K1 only): Shows current axles set on K1 devices;
- g. Weight (K1 only): Shows current weight set on K1 devices;
- **h.** Last update (K1 only): Date and time of the last update of axles, weight, LEDs, and power status. The format is expressed in dd/mm/yyyy hh:mm.
 - N.B. Note that this timestamp is not the same as the one shown in the OBU Overview.
- *i.* Disposal Actions (K1 only): Shows the latest status of the axles and weight settings remotely:
 - Accepted by driver (green);



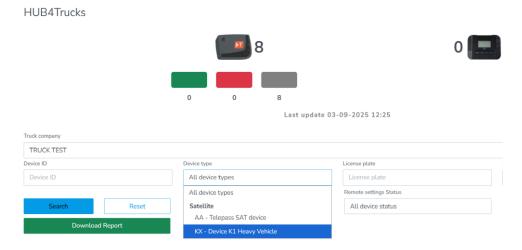
- Rejected by driver (red);
- Expired (clock icon);
- Sent operation in progress (hourglass);
- Received operation in progress (hourglass);
- Error (exclamation mark).
- *j.* Actions: The user must click on the round icon with three dots and a menu with four icons will provide quick access to the areas dedicated to the OBU.

1.2.2.1 Filter Options

Filter Truck Company

The Truck Company Profile offers filtering tools to help you quickly find the information you want. Users can refine their search results using the following criteria:

- Support ID: Filter by OBU code (should be written as displayed on homepage: "00059XXXXXXXXXX");
- Device Type (K1/AA2): Select the Device Type (KX or AA) to narrow your search:

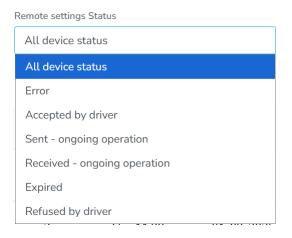


• *Title Status (Green, Red, Gray) - (K1 only):* Indicates the operational status of the devices. It will only be visible after selecting *KX-K1 Heavy Equipment* from the *Device Type filter:*





- License plate: Filter by vehicle license plate (the license plate must be written in full);
- Country: Filter by country where the vehicle is registered;
- Remote Update Status (K1 only): Filter by the last axle/weight update performed remotely:



Tips for effective filtering:

- The user should note that the Device Status only applies to K1 devices;
- Users can use multiple filters to precisely narrow down their search results;
- If you are unsure about a specific filter value, you can leave it blank to include all results for that policy.
- To start a new search or to delete all filter selections, you can click on the "Reset" button.
- The search button can also be used to refresh the page.

If you move the cursor over the columns in the OBU list, the following information will be available for the specific columns:



- **License plate**: This column shows the fleet manager's license plates which can be sorted alphabetically using the arrow icon:



- LED Status (K1 only):
 - o Green LED: Devices without anomalies;
 - Red LED: Devices in anomaly;
 - Gray LED: No information available: The OBU is turned off or not able to communicate with the proxy. The user must click on the OBU for more details.



- Last Update (x K1 only): This column shows the most recent update time for the axles, weight, LED status, and power status of the device.



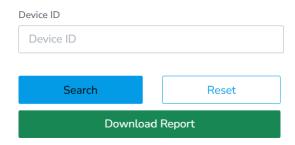
1.2.2.2 Download Report

Generate an Excel Report

The user has access to the ability to download reports in Excel format. This feature allows you to export data according to your specific needs.

An example of the report download button is shown in the following image:





Users have the option to include or exclude filters when generating the report.

Filtering Data (Optional)

To refine the data included in the report, you can apply filters. The following filters are available:

- Support ID;
- Device type;
- LED status (only for K1);
- Plate;
- Nation;
- Remote update status (K1 only);

Applying Filters

- Select the desired filters from the available options;
- Click on "Search".

Editing Filters

- To change individual filter selections, simply adjust the corresponding options;
- To clear all filters and start over, you can click on the "Reset" button.

Download the Report

- Once you have applied the desired filters (or if you want to download a report with all the data), you can click on the "Download Report" button;
- This action will generate an Excel file containing the data based on the selected filters (or all data if no filters have been applied).

Note: You cannot download a report for a specific anomaly, but **ONLY** for the device status. If the user wants to know the anomaly(s) specific to an OBU, they can select the "Search for Anomalies" area (under Actions).

N.B. Currently it is possible to download the Report for 10 or 25 OBUs at a time, depending on the number chosen for the display on the monitor: the possibility of extracting information for all the OBUs in the fleet will be released shortly.



1.3 Actions



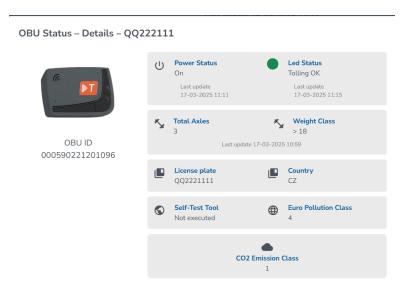
This specific section of the Homepage contains four areas that allow you to check specific information and configurations for each OBU.

1.3.1 OBU Details

In the "*Actions*" section of the Homepage, by clicking on the "*OBU Details*" icon, a new dedicated Area will be shown containing the information listed below for both AA2 and K1.

This section shows real-time information about the OBU (provided there has been no miscommunication with the central system).

1.3.1.1 K1 Device



At the top left is the license plate associated with the OBU;



OBU ID and device type image (left).

First section (at the top):

- Power Status (On/Off):
 - Off Device off;
 - On Device on.

Last Update (below Power Status): The last time the OBU changed its power status from Off to On or viceversa;

- Led Status (Tolling OK / Tolling not OK):
 - **Tolling OK Last update timestamp** Shows the last time the OBU has changed the status to "Tolling OK" status (GO status);
 - **Tolling not OK Last update timestamp** Shows the last time the OBU has changed the status to "Tolling not OK" status (NO GO status).

Second section:

 Total Axles and Weight Class: Values set on the device (those actually communicated by the OBU).

Last update under Total Axles and Weight Class: the latest axle and weight change communicated by the OBU.

N.B.: When the setting of Axles and Weight remotely is available, for that K1 there will be an icon to be able to make the change. By clicking on it, it will be possible to change axles and weight remotely. Please refer to the paragraph 1.3.1.2 Remote axle and weight change (K1 only) for details.

Third section:

- Plate;
- Nationality plate.

Fourth section:

- Self-Test Tool:
 - OK: Self-Test Tool executed successfully;
 - Not OK: Self-Test Tool run with a failed result;
 - Not Run: Self-Test Tool not run.

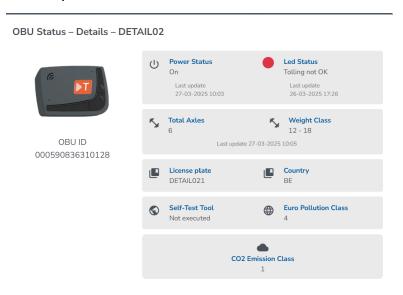


• Euro pollution class.

Fifth Section:

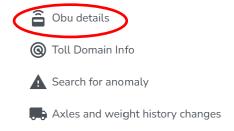
• CO2 emission class of the vehicle.

Example of an OBU in anomaly:



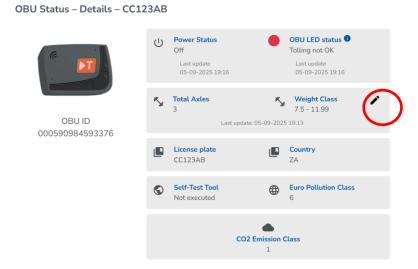
1.3.1.2 Remote axle and weight change (K1 only)

The user will be able to set Axles and Weight remotely via the HUB4Trucks Dashboard by clicking on the "*Actions*" button of the specific OBU and then on "*OBU Details*" in the same way as in the previous section.

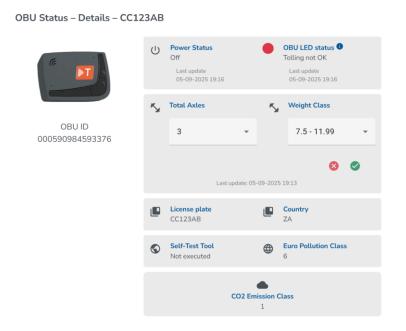


The window with the details of the configurations for each OBU will be displayed and the user will have the opportunity to modify the Axles/Weight by clicking on the *pencil* icon on the right in the second Section:





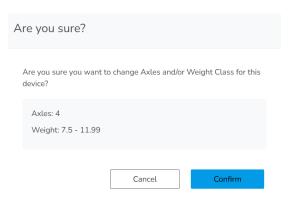
You will then be shown a view below where you can change the Axles or Weight.



For Weight:

The user will only be able to change the Weight Classes; it is not possible to set the specific weight. Once the Axles/Weight has been changed, the user clicks on the "Green" icon and the following confirmation pop-up is displayed: "Are you sure you want to change the Axles and/or Weight Class for this device?" and a summary of the changes made.





- Clicking "Cancel" allows you to make further changes before sending;
- Clicking "*Confirm*" will send the notification to the OBU, based on the status of the OBU (On/Off).

Please note:

If the user tries to edit a notification that has already been sent, a "Request already in progress" popup will appear in the Dashboard and block the notification.



In the dashboard list and in the "OBU Details" area, you will see status changes, which can be as follows:

• Sent - Operation in progress (Yellow Hourglass Icon): The change has been sent to the OBU, but the OBU has not yet received the notification because it is turned off. If the OBU is not turned on within 12 hours, the notification will expire. If the OBU is powered on within 12 hours, the notification will be captured by the OBU and the status will change from "Sent - Operation in Progress" to "Received - Operation in Progress".



• Received - Operation in progress (Yellow Hourglass Icon): The OBU is powered on and flashing blue (notification received). If the driver does not respond to the notification by pressing the *orange T* key on the OBU, the status remains pending until action is taken within the 20-minute limit, after which the notification expires.



OK - Accepted by the driver (Green Flag Icon: Limited only to the most recent change in Axles/Weight and does not include historical data): Once the change has been sent to the OBU, it starts flashing blue but the driver will be able to listen to the notification, by pressing the T key, only when the device is stationary and within 20 minutes from the notification sending,



otherwise it expires. Only once the user accepts the change (by pressing the + Button), the OBU acquires it and the status in the dashboard changes from *Yellow Hourglass* to *Green Flag*. The data is also updated on the Truck K1 APP with the new configuration.



Rejected - Rejected by the driver (Red X Icon: Limited only to the most recent axle/weight change and does not include historical data): If the driver, after receiving the notification - always when stationary, by pressing the T key and within 20 minutes of sending it - decides to reject the Axles/Weight change proposed by the fleet manager (by pressing the - key), the status in the dashboard will change from Yellow Hourglass to Red X.



• **Expired** (Yellow Clock Icon): In this case, If the OBU is not turned on within 12 hours, the notification will expire. If the driver turns on the OBU within 12 hours but does not listen to the notification within 20 minutes or does not accept/reject the change, the status in the dashboard will change from Yellow Hourglass to Yellow Clock. The fleet manager can decide to send the notification to the driver again.



Please note:

- Once the change notification is received on the OBU, the device starts flashing blue. The flashing
 lasts a maximum of a set time (20 minutes) to minimise driver distraction while driving. If
 during this time the driver does not stop driving and hears the notification, the notification will
 expire;
- Until the driver listens to the notification received, the other menu functions are disabled;
- The change of Axles/Weight sent remotely by the Fleet Manager can be listened to by the driver
 ONLY when the vehicle is stopped by pressing the T key;
- The change of Axles/Weight can be confirmed by pressing the + button or reject it by pressing the button.

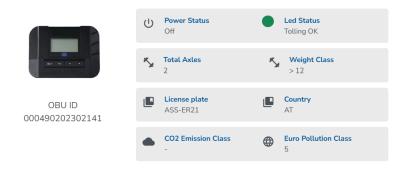
1.3.1.3 AA2 Devices

In this section, the user has access to all information about the AA2 devices, as well as the K1s, except for:



- Self-Test Tool;
- Date and time of the changes in Status, Axles, and Weight.

OBU Status - Details - ASS-ER2



- At the top left is the *plaque* associated with the OBU;
- OBU ID and device type image (left).

First section (top):

- Power Status (On/Off):
 - Off Device turned off;
 - Access Access Device.
- Led Status (Tolling OK / Tolling not OK):
 - Tolling OK Last update timestamp Shows the last time the OBU has changed the status to "Tolling OK" status (GO status);
 - **Tolling not OK Last update timestamp** Shows the last time the OBU has changed the status to "Tolling not OK" status (NO GO status).

Second section:

• Total Axles and Weight Class: Values set on the device (those actually communicated by the OBU).

Third section:

- Plate;
- Nationality plate.

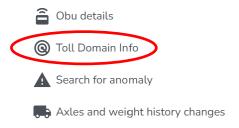
Fourth section:

- CO2 emission class of the vehicle;
- Euro pollution class.



1.3.2 Toll Domain Information

In the "*Actions*" section of the Homepage, by clicking on the "*Toll domain information*" icon, a new dedicated area will be displayed, containing information on the Toll Domains, i.e. the Services active for AA2 and K1 devices.



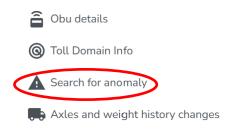


- Active Toll Domains: List of all active toll domains;
- Country: with the flag of the nation;
- *PAN Number* (France, Spain, Portugal): To view the PAN number associated with the OBU, users need to hover over the eye icon;
- Download the Vehicle Declaration: Possibility to download the Vehicle Declaration (for Austria, Scandinavia and Hungary).
 - N.B. For AA2 devices, the Vehicle Declaration is not always available.
- Toll Domain Activation Date: This field displays the date on which the service was requested.



1.3.3 Anomaly Search (K1 only)

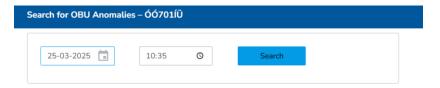
The user will be able to investigate anomalies related to an OBU, <u>at a specific date and time</u>, via the HUB4Trucks Dashboard by clicking on the "**Actions**" button corresponding to the OBU in question and then on "**Search for Anomalies**" in the same way as in the previous section.



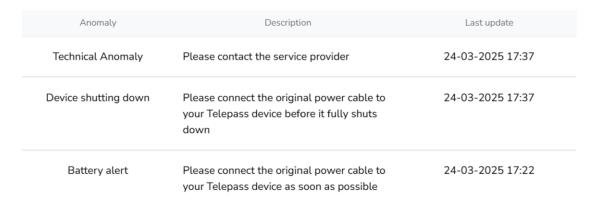
This action will generate a new area dedicated to the investigation of anomalies.

By accessing the new area, the system will immediately display any active anomalies relating to **the exact date and time in which the search is being carried out**. If no anomaly is present at the time you are searching, then the list of anomalies will be empty. In any case, users can search for anomalies based on a specific date and time (for example, to check if, on the date and time the vehicle received a fine, the device was working).

- A search function is available in the new area. Users can enter a specific date (dd.mm.yyyy) and time (hh:mm) to query the system and check if there were any active anomalies on the device at that exact moment.



If an anomaly was active on the specified date and time, the following screen is presented:



where the details listed below are contained:



- o Anomaly: This column shows the identified anomaly;
- Description: A complete description of the anomaly is provided, detailing the problem and suggesting possible actions to be taken;
- o Last Update: Indicates the precise date and time when the anomaly occurred.

If the anomaly is still present/active at the current time, it will be detectable during the ongoing investigation.

Please note that the "Last Updated" timestamp reflects the occurrence of the anomaly, not its resolution.

Therefore, the timestamp of the "Last updated" field (which indicates the presence of the anomaly) will always be equal to or earlier than the timestamp of the ongoing investigation.

List of anomalies:

Anomaly Name	Anomaly Descrition
Service Anomaly	Service not active in this area. Toll roads can't be used with the indicated service
Blocked device anomaly	Don't travel on toll roads. Contact the service provider about the detected anomaly
GNSS anomaly	Don't travel on toll roads, the GPS signal is not sufficient for localization service. Contact the service provider about the detected anomaly
Tampering anomaly	The tamper sensor detected a fraud tentative. Please contact the service provider
Battery alert	Cable disconnected, please connect the original power cable to your Telepass device as soon as possible
Device shutting down	Cable disconnected, please connect the original power cable to your Telepass device before it fully shuts down
Temperature warning	Telepass device temperature warning. Please contact the service provider
LTE anomaly	Don't travel on toll roads, LTE signal in not sufficient for a data connection. Contact the service provider about the detected anomaly
Device shut down	Device shut down or inactive for more than 24 hours, please check the power cable, if the problem persists contact the service provider.
Technical Anomaly	Please contact the service provider
Craftsman exemption active	You declared a toll exemption for your vehicle in the current country

Visualization of anomalies:

1. Anomalies that start and end before the search criteria you set (date mm.yyyy dd and time hh.mm) will not be included in the search results. Anomaly NOT reported





2. Anomalies that start before the search criteria you set (date mm.yyyy dd and time hh.mm) and continue beyond will be included in the search results. **Anomaly reported**



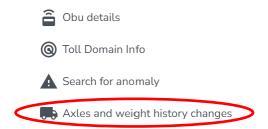
3. Anomalies that start and end after the search criteria you set (date mm.yyyy and time hh.mm), will not be included in the search results. **Anomaly NOT reported**





1.3.4 Axles/Weight change history (only for K1)

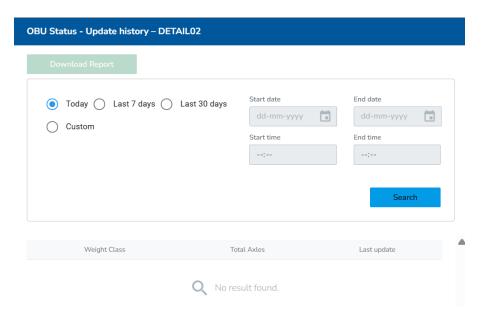
The user can check the history of the OBU Axle and Weight configurations via the HUB4Trucks Dashboard by clicking on the "*Actions*" button next to the OBU in question and then on "*Axle/Weight Change History*".



This action will display a dedicated area containing a history of OBU Axles and Weight updates. This history is designed to help users monitor their OBU configurations over time, especially in relation to:

- Weight Class Changes;
- Total Axles Changes.
- The area provides a search functionality that allows users to filter the history of changes. Users can search for changes made during the following periods:
 - o **Today**: Shows the changes made to the current date;
 - Last 7 days: Filter the history to show changes from the last 7 days, including the current day;
 - Last 30 days: Filter the history to show changes from the last 30 days, including the current day;
 - Customize (max 1 year): Allows users to manually select a start date ("Start Date") and an end date ("End Date") for a custom search, with a date range of up to one year.

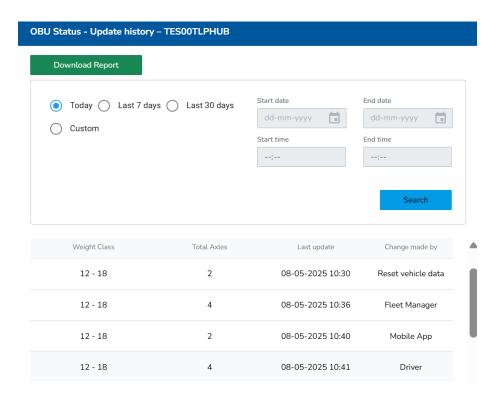




- To select dates for a custom range, users can click the calendar icon in the "From date" and "To date" fields. This action will open a calendar popup, allowing you to select dates.
- Once the desired search criteria have been applied, the following information will be visible to the user:
 - Weight Class;
 - Total axles;
 - Last Updated;
 - o *Modified by*: Identifies who made the change, namely:

OPTIONS	MEANING
APP MOBILE	Change made by the <i>Driver</i> on the Truck K1 APP
DRIVER	Change made by the <i>Driver</i> on the OBU HMI by navigating to the OBU Menu
VEHICLE DATA RESET	Change made by the <i>Sales Partner</i> at the CRM level
FLEET MANAGER	Change made by the <i>Fleet Manager</i> using the remote axle/weight change function on the Truck website





- Users can then click the "Download Report" button to generate a report of the filtered results;
- If you made multiple changes on the same date, multiple rows with different timestamps will appear in the table.
- The date displayed in this section represents the most recent communication update from the OBU. Therefore, the information displayed reflects the last update transmitted, not the current date and time in case the user searches for the current date and time.