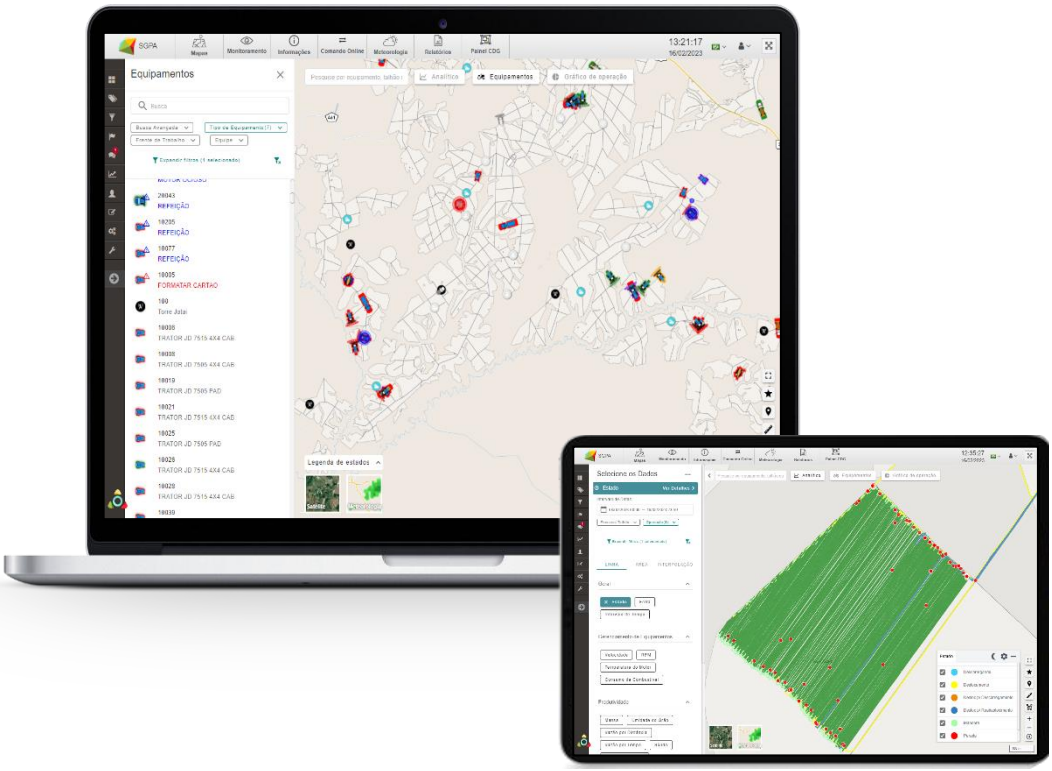
Changelog

SGPA3

Automated Process Management System



Changelog Version 2024/228
Period: 05/14/2024 to 05/20/2024
Revision 01
Date: 05/31/2024

Some applications mentioned in this report may not be available in the feature pack in your SGPA 3.0

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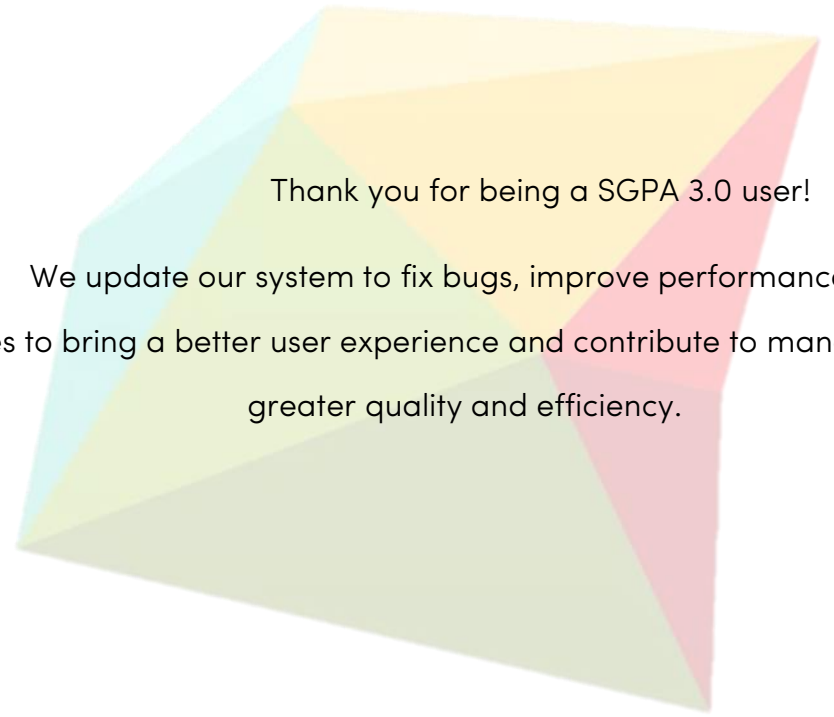

Thank you for being a SGPA 3.0 user!

We update our system to fix bugs, improve performance and add new features to bring a better user experience and contribute to management with greater quality and efficiency.

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Table of Contents

1. SGPA3

1.1 Improvements

1.1.1 CDA – Cotton Digital Certificate

In order to improve the management of Cotton Harvest data, improvements were implemented on the CDA screens relating to Records and Maps.

1.1.1.1 CDA – Records - Control Point

The new CDA "Control Point" Registry was implemented, which aims to distinguish control points, which are portals with RFID antennas, in order to track the passage of rolls, monitoring each control point individually. With this new functionality it is possible to configure several control portals, with the specifications of the control point installation location, control point description and creation/addition of Fleet(s). The settings entered in this registration will be used to display the data in the CDA Maps module, in the **Traceability** parameter.

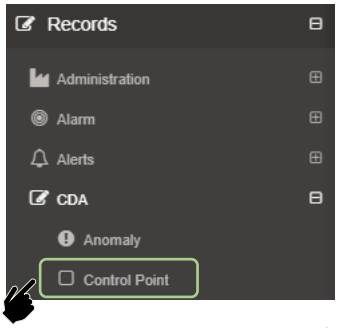

Image 01 – New registry "Control Point"

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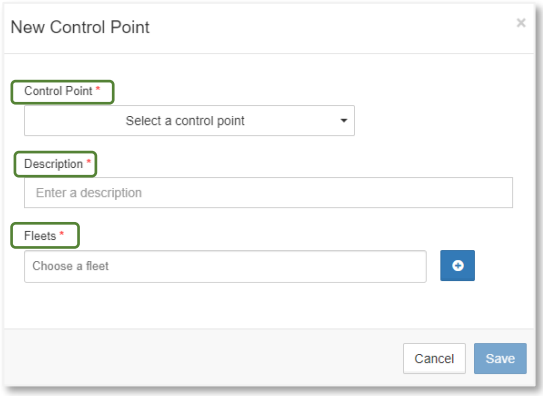

Image 02 – Screen for registering a new Control Point with fields indicating the location of the control point, description and equipment

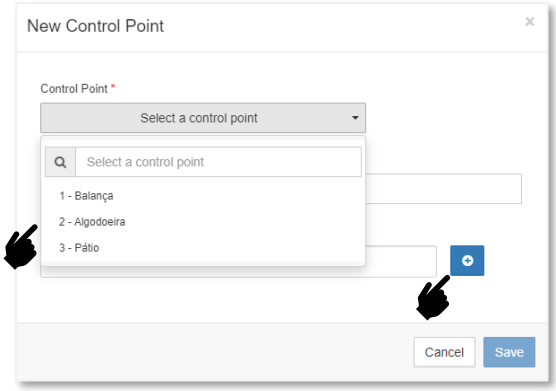

Image 03 – List to select the control point installation location and button to create an Equipment

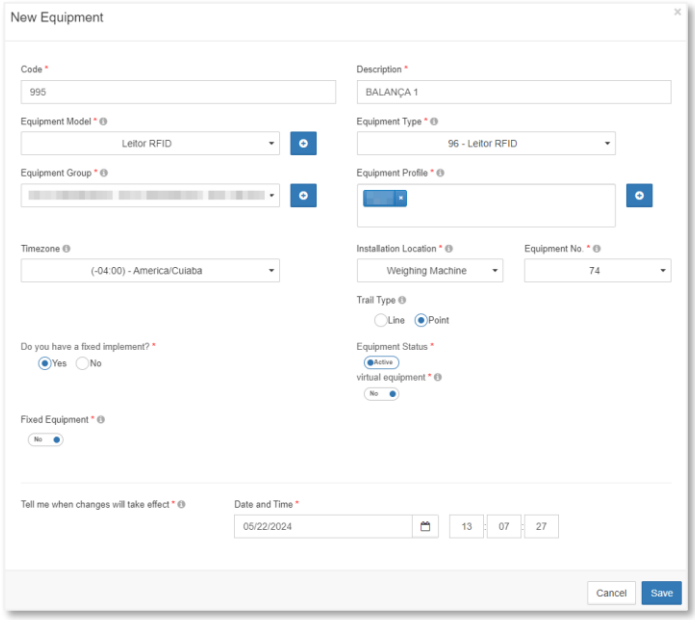

Image 04 – Access to Equipment Registration through the Control Point screen

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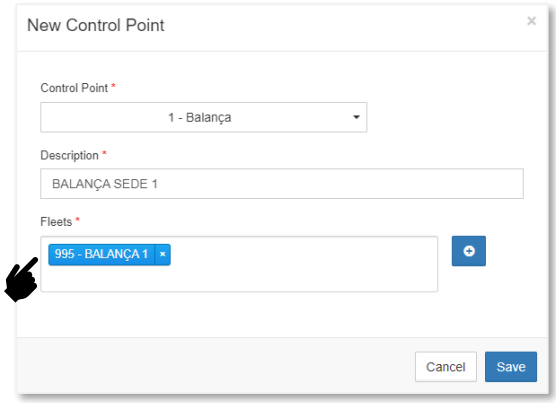

Image 05 – New equipment created and added to the Fleet field

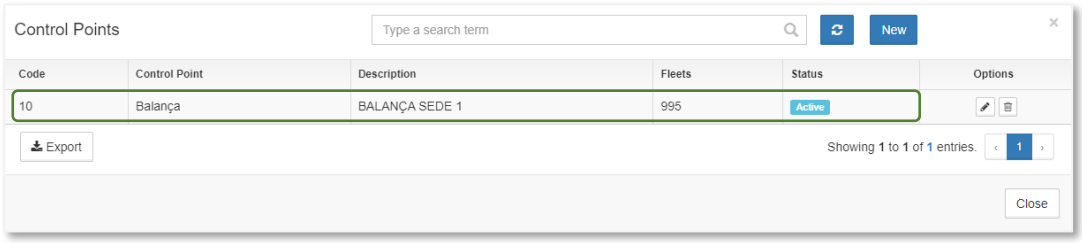

Image 06 – Control Point record created

Go to Main menu > Records > CDA > Control Point

1.1.1.2 CDA – Maps

Improvement made to display in the "Traceability" Parameter Legend of the CDA module, classifications as configured in the "Control Point" register. The Label will be displayed with the respective names of the control points inserted in the registration and according to the passage of the Rolls through the control point (RFID reading).

By clicking on the icon of each Roll on the Map, the side menu will be displayed with "Roll Information", containing the History of the Roll for each identification by RFID, with the description of the control points, the date and time at which it was read.

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Image 07 – Legend of the "Traceability" parameter showing description of the data as entered in the "Control Point" Register

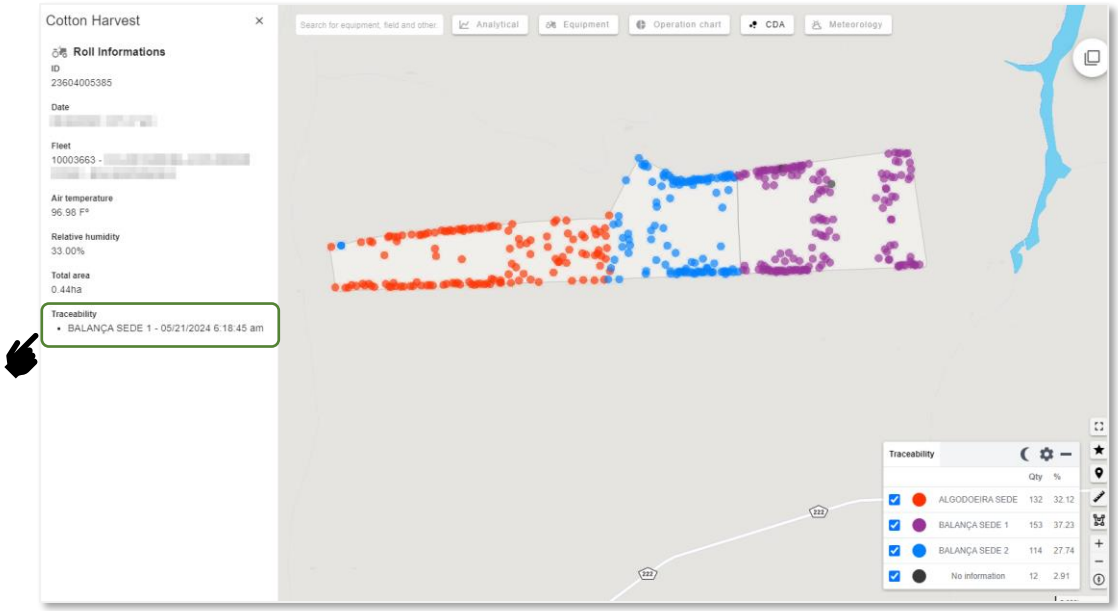

Image 08 – Module details (roll) in the Traceability parameter

Go to Top menu > Maps > CDA > Traceability

Available for Environments that have the "CDA – Cotton Digital Certificate" solution active in 2024.

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1.1.2 Records and Maps – Cotton Implement

The new Implement Type "11 – Cotton Implement" was implemented in the "Implement Measurements" Register. This new feature aims to optimize the generation of Worked Area in environments that use displaced harvesting implements. In this registration, by clicking on the "Configure" button, it is possible to configure a pattern for the Implement, selecting the "Number of modules", "Spacing" and "Module displacement". These settings are linked to the "Online Command" module, as they will be displayed on the screen for selecting and sending online commands referring to the Cotton Implement. Furthermore, the "Cotton Implement" settings will be displayed in the details of the Analytical Map Trail.

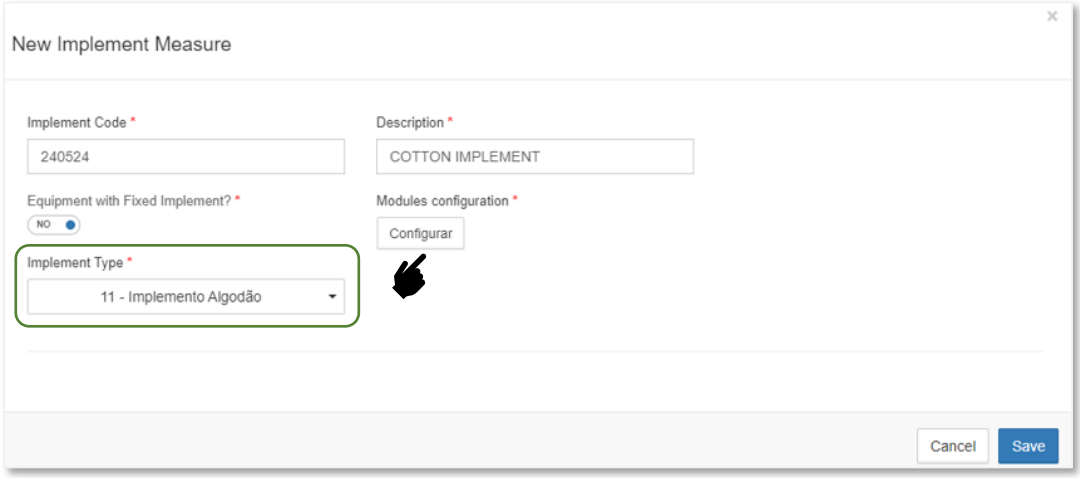

Image 09 – Implement Type Registration Screen "11 – Cotton Implement"

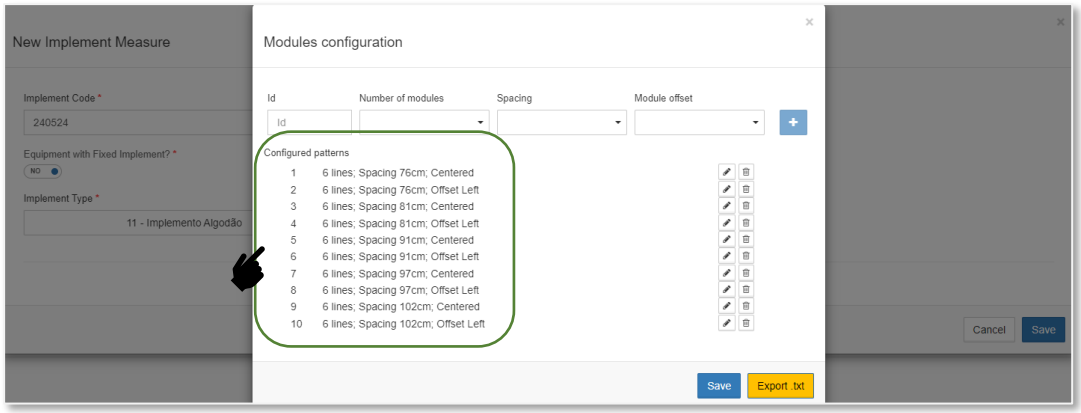

Image 10 – The 10 patterns configured in "Module configuration" in the Cotton Implement registration

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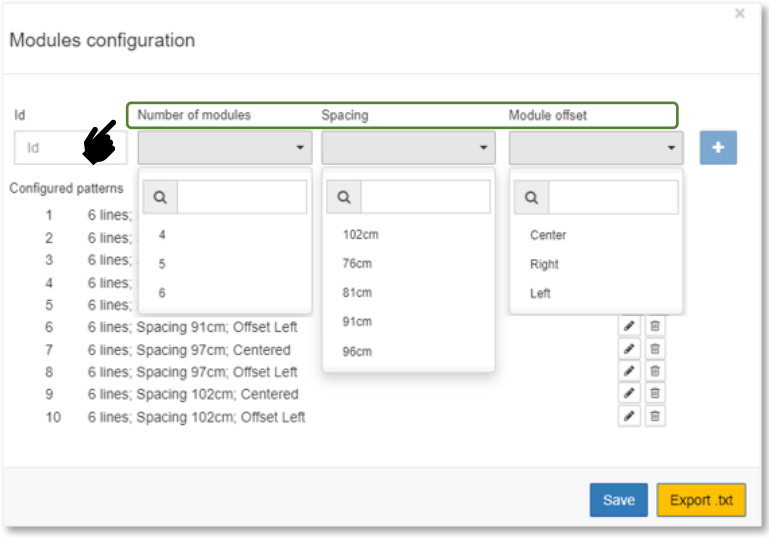

Image 11 – Pre-defined values in the fields "Number of modules", "Spacing" and "Module displacement"

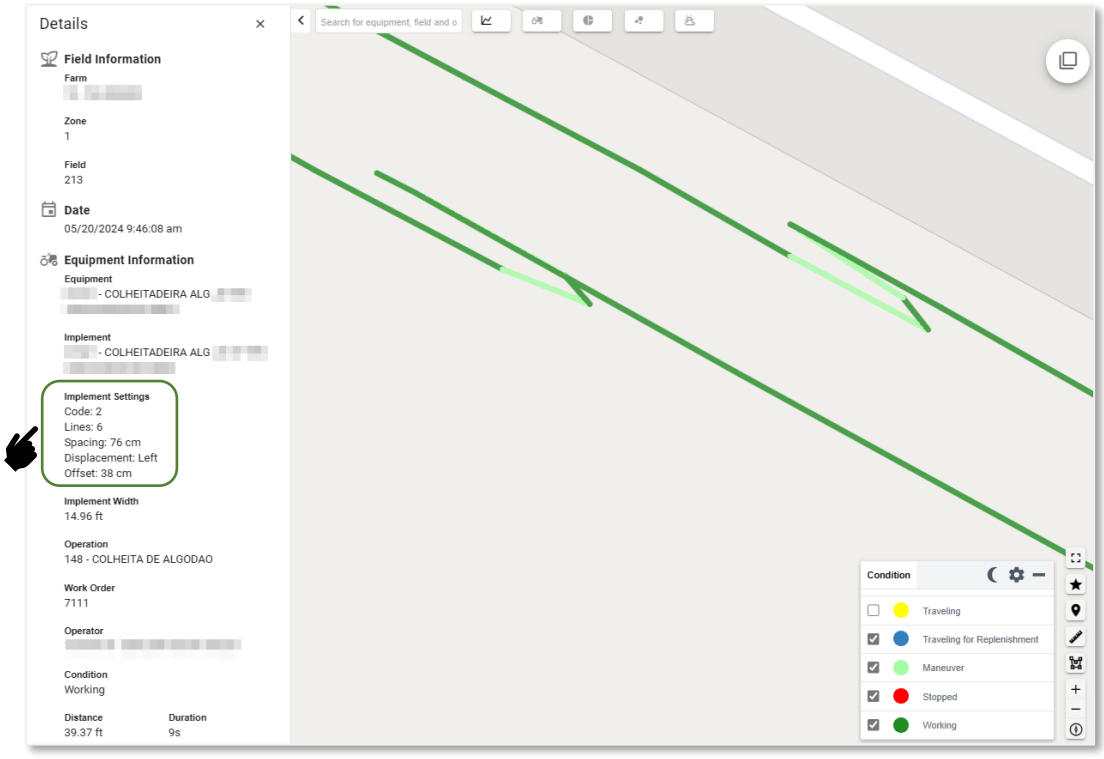

Image 12 – Implement Settings in the trail details in the Analytical Map

Go to Main menu > Records > Equipment > Implement Measurements > Implement Type > 11 – Cotton Implement and in Top menu > Maps > Line > Details > Implement Settings

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1.1.3 Modules – Online Command

The new **Online Command** types "Update Cotton Implement Registration" and "Update Cotton Implement Entry" have been implemented.

The purpose of the command "Update Cotton Implement Registration" is to update the Cotton Implement data, that is, to indicate the Configuration Code, the Number of Lines, the Spacing between Lines, and the Direction in which the implement moves (C = Center, E= Left and D = Right).

The "Update Cotton Implement Entry" command aims to change the entry on the on-board computer. For this operation, in addition to selecting the Configuration Code, Number of Lines, Spacing between Lines and Implement Travel Direction, it is necessary to fill in the "Implement Offset (Centimeter)" field to indicate the Implement Travel Distance in relation to GPS.

⚠ Condition for the correct functioning of this feature: when selecting the Implement Travel Direction as **C (Center)**, the "Implement Offset (Centimeter)" field must be filled in with a value of **0**.

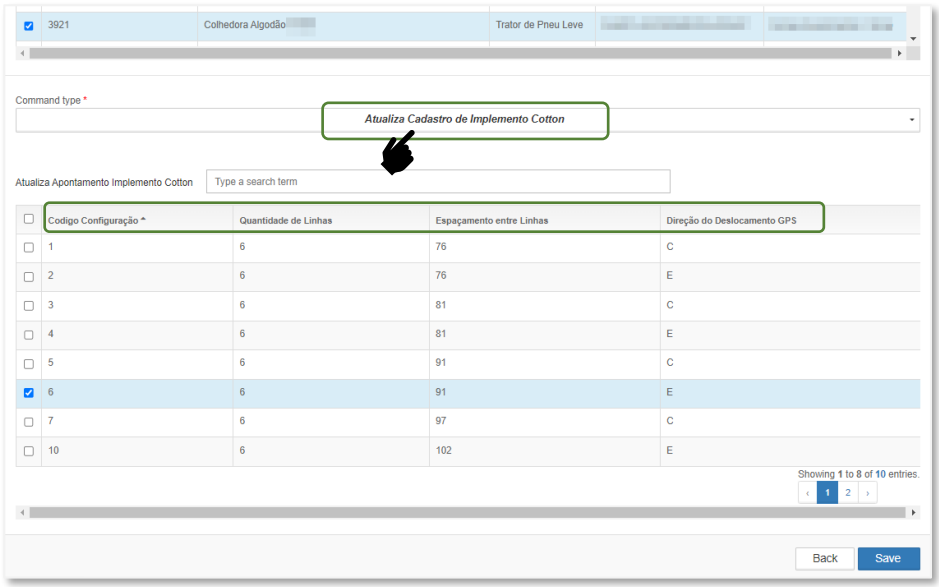

Image 13 – Online Command "Update Cotton Implement Registration"

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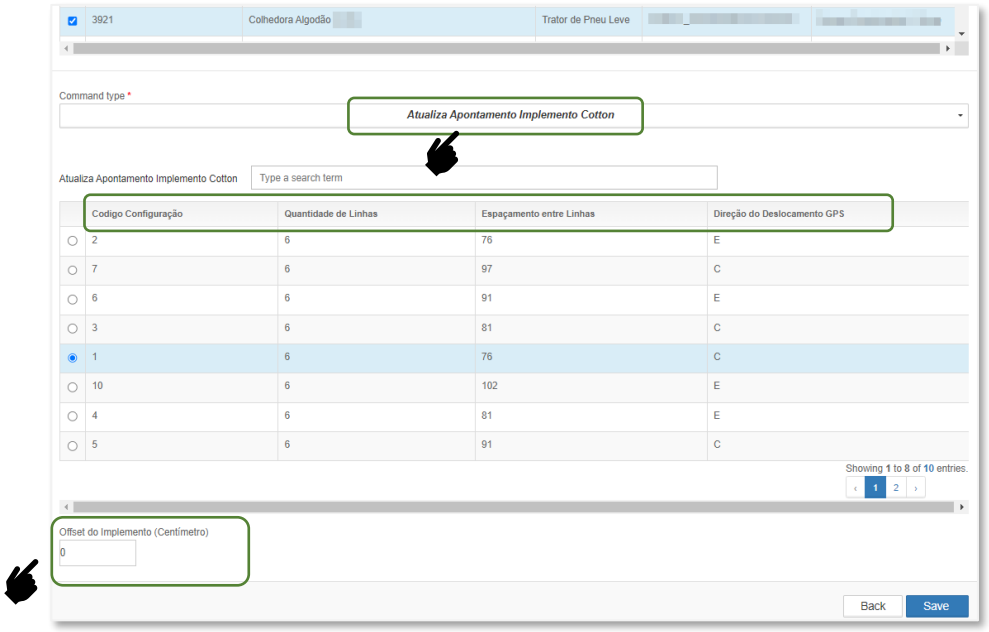

Image 14 – Online Command "Update Cotton Implement Entry"

Go to Main menu > Modules > Online Command > Equipment Type > 40 – Light Tire Tractor > Command Type > Update Cotton Implement Registration / Update Cotton Implement Entry

1.1.4 Maps/Monitoring – Meteorology

Improvements made to the "Meteorology" module. From this version, the module will feature the following standardizations:

- The "Meteorology" module button displays a shortcut to open the "Weather Graph".
- In the "Weather Graph", the **Wind Speed, Max. Wind Speed** and **Humidity** are displayed in line graph.
- In the "Weather Graph", when selecting Equipment of the **Rain Gauge** type, it only displays the **Rain, Evapotranspiration** and **Battery** parameters. When selecting **Weather Station** type equipment or when no equipment is selected, all parameters are displayed.

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- In the "Weather Graph", the Atmospheric Pressure parameter was removed.
- In the "Climate Maps" menu, displays on the equipment cards a shortcut button for the "Weather Graph" and Date/Time of the last meteorological data update.
- In the "Weather Forecast" the **Humidity** data is presented, with Average and Maximum values for the period and **Wind Speed** data with Average and Minimum values for the period. Additionally, the Rain parameter is displayed with the measurement unit percentage (%).

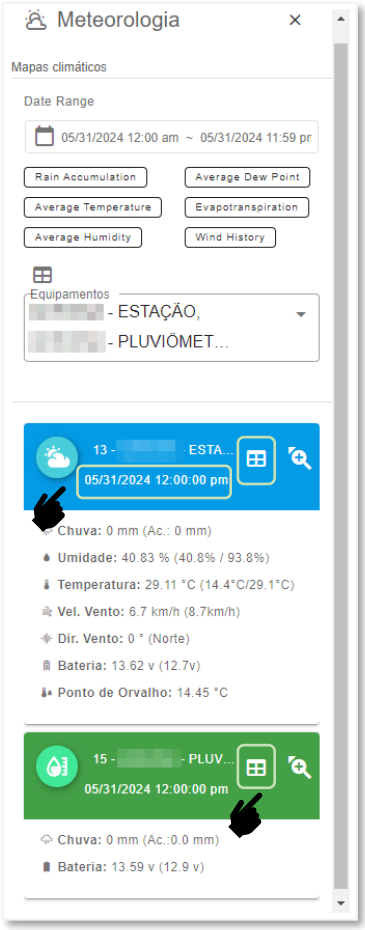

Image 15 – Equipment cards with a shortcut button for the "Weather Graph" and Date/Time of the last meteorological data update.

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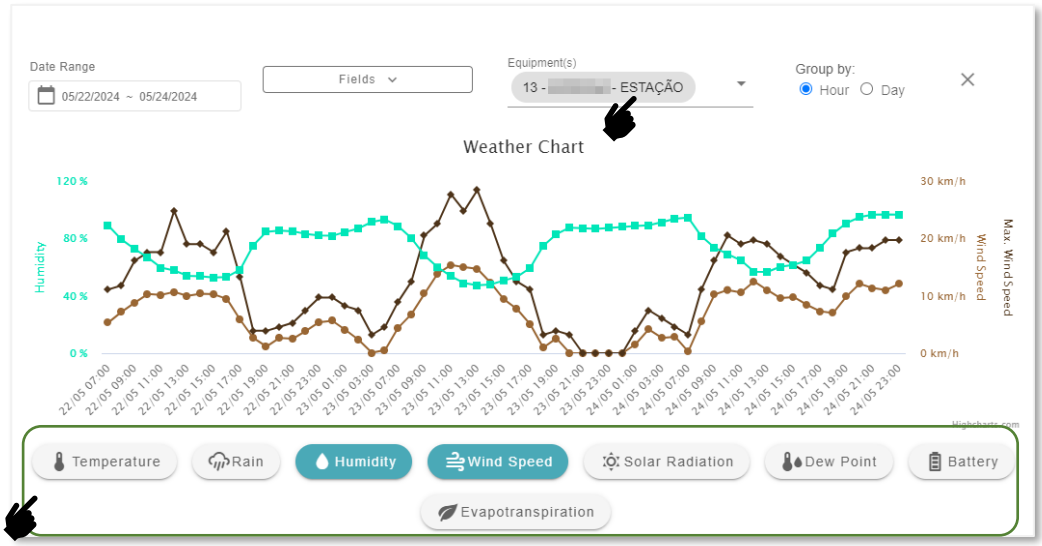

Image 16 – Weather Station type equipment displaying all parameters and Wind Speed Graphs, Max. Wind Speed and Humidity are displayed in line

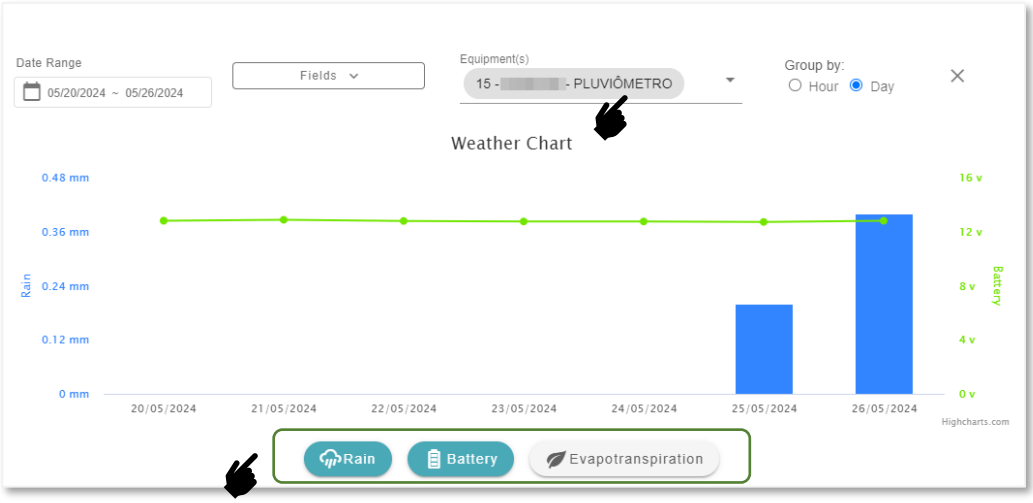

Image 17 – Filter selected with Rain Gauge type equipment displays only the Rain, Evapotranspiration and Battery parameters

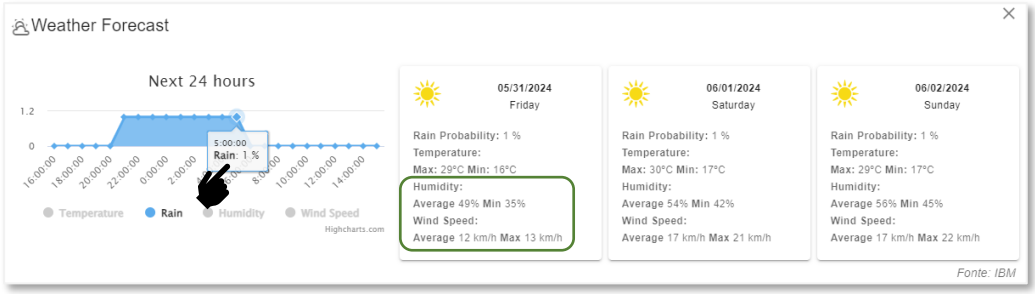

Image 18 – Humidity data, with Average and Maximum values, Wind Speed with Average and Minimum values and Rain parameter displayed in percentage (%).

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Go to Top menu > Maps/Monitoring > Weather

Available for Environments that have the “Climate” solution active.

1.1.5 PBI Reports – Hauling Tractor Flow – FUT

With the aim of improving the monitoring of operation performance using the FUT tool, the new PBI Report “FUT Adherence" was implemented.

In this new report, which is updated hourly, it is possible to see the system's guidance in the field and check whether the operator followed that guidance. The indicators are structured at the level of **Units, Fronts, Fleets** and **Operators** that are better adhering to the recommendations.

The report is based on two records generated by the Transshipment tractor. When a relocation occurs, a record is generated marking Date, Time, Fleet and Operator. When a significant number of deallocations occur, it may indicate an operational problem. Another record generated refers to when the Transshipment tractor starts harvesting with the Harvester. The algorithm analyzes at the beginning of the harvest whether the Transshipment is operating with the correct Harvester that called it, whether it was done without being called, or whether it received an optimization point and respected it or not. This way, it is possible to act in the operation, not letting adherence to FUT optimization fall and ensuring the system's results. The “Table” tab of the report contains all the information about the occurrences.

Furthermore, the title of the report “FUT Adherence” was changed to “Using FUT”.

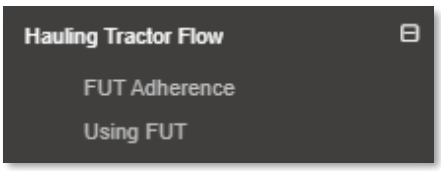

Image 19 – Hauling Tractor Flow PBI Report Menu - FUT

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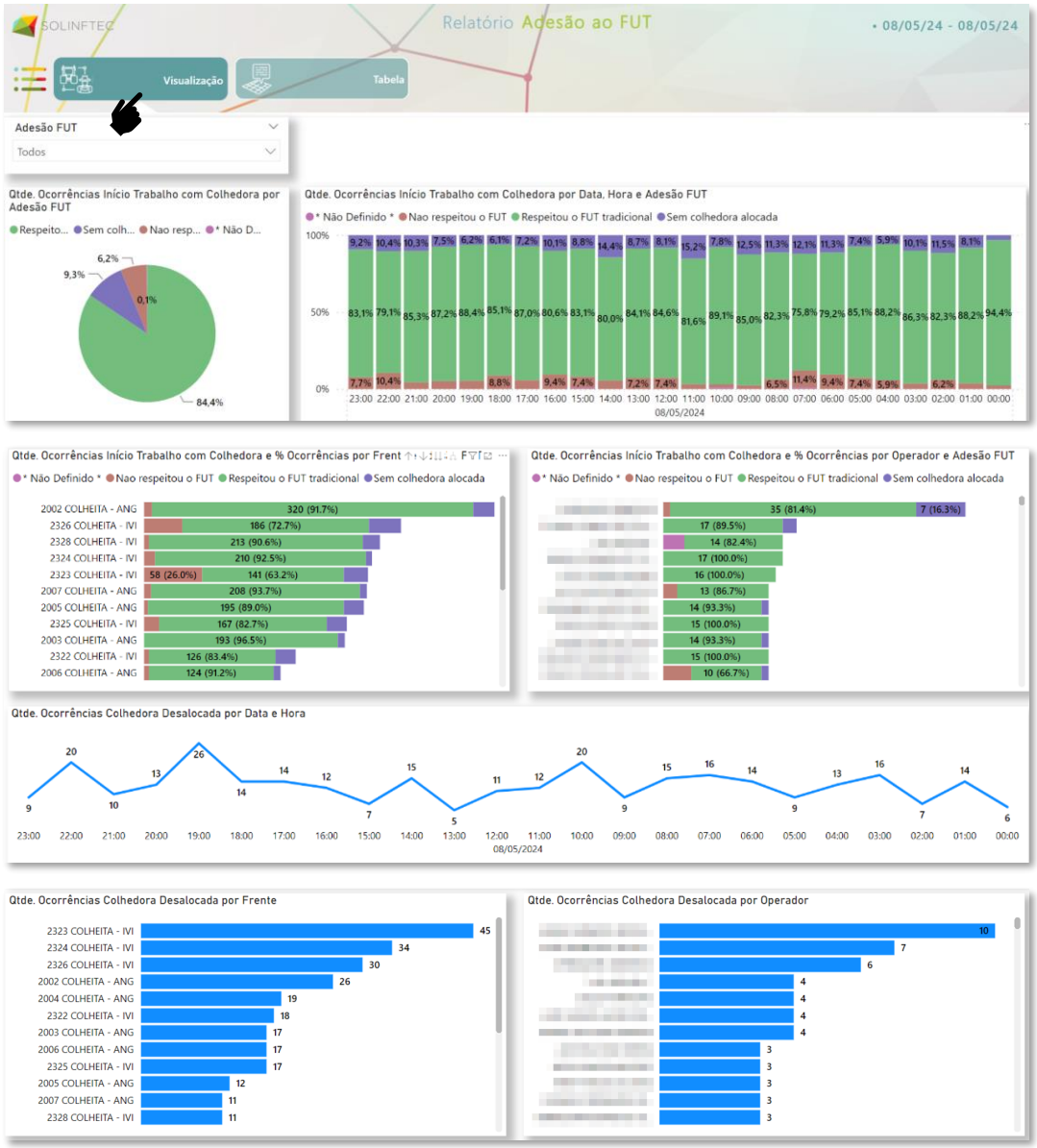

Images 20, 21 and 22 – "Visualization" tab in the "FUT Adherence" report

Image 23 – "Table" tab in the "FUT Adherence report

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Go to Main menu > Reports > PBI > Hauling Tractor Flow – FUT

Available for Sugarcane vertical environments.

1.1.4 PBI Reports – Operational Variables

Improvement made to the PBI Report "Operational Variables", from Sugarcane Vertical. It was implemented in the "Average Speed (km/h)" minimum and maximum value range, for the Average Speed target. The "Average Speed and Time (h)" graphs will display green in the columns, if the values are within the target range, or red, if the values are outside the target range.

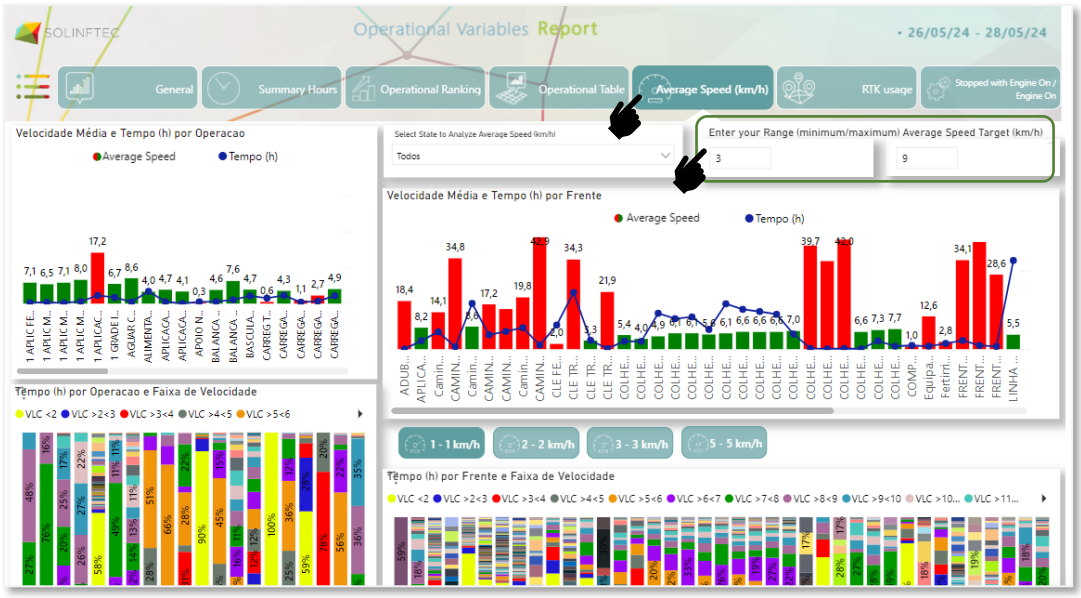

Image 24 – Minimum and maximum value range in the "Average Speed (km/h)" tab from the "Operational Variables" report

Go to Main menu > Reports > PBI > Operating Hours > Operational Variable Reports

Available for Sugarcane vertical environments.

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1.1.5 PBI Reports – CCT Online

Improvements applied to the "CCT" Tab of the PBI Report "Cutting, Loading and Online Cane Transportation", to change the layout of the graphs "Time (hh:mm) by Unit and Operation Group" and "Time (hh:mm) per Hour and Operation Group". In addition, the buttons "Time (h)", "Time (%)" and "Projection (h)" were included.

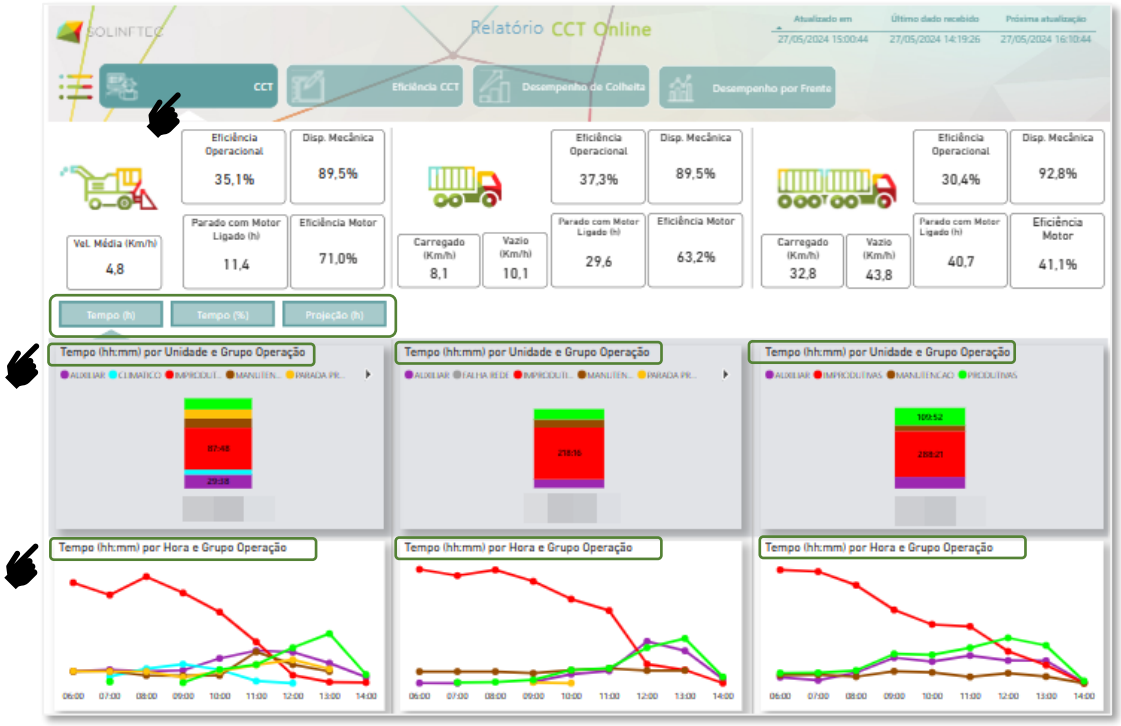

Image 25 – Change of the graphs layout and included buttons for Time (h), Time (%) and Projection (h)

Go to Main menu > Reports > PBI > Online Reports > Cutting, Loading and Online Cane Transportation > CCT Tab

Available for Sugarcane vertical environments. Applied on 05/21/2024.

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1.1.6 Records – Unit Profile

Improvement made to the "Unit Profile" Registration in order to limit the selection to a maximum of 5 units. This improvement is valid for new records and for editing Unit Profile records.

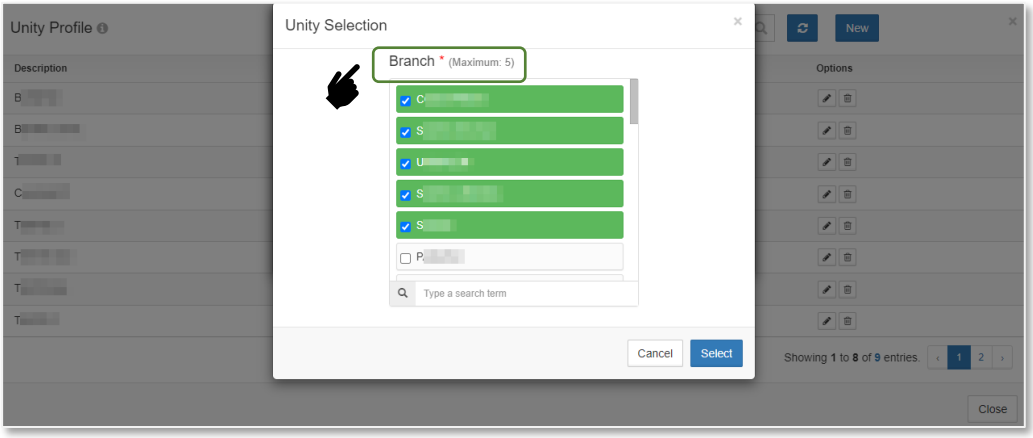

Image 26 – Selection limit of 5 units in the Unit Profile registration

Go to Main menu > Registrations > Administration > Unit Profile > New/Edit

1.2 Bugs

1.2.1 PBI Reports – Filters

Adjustment applied to the "Equipment" Filter of PBI Reports to avoid slowdowns in loading data.

Go to Main Menu > Reports > PBI > Filters > Equipment

Applied on 05/25/2024.

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1.2.2 PBI Reports – Filters

Adjustment made to the PBI Report Filters to not count invalid values in the total of selected records when the "Consider invalid entries" option is active.

Go to Main Menu > Reports > PBI > Filters > Consider invalid entries

In case of doubt or further clarification, please contact us via email suporte@solinftec.com.br or call +55 18 3622 2270

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