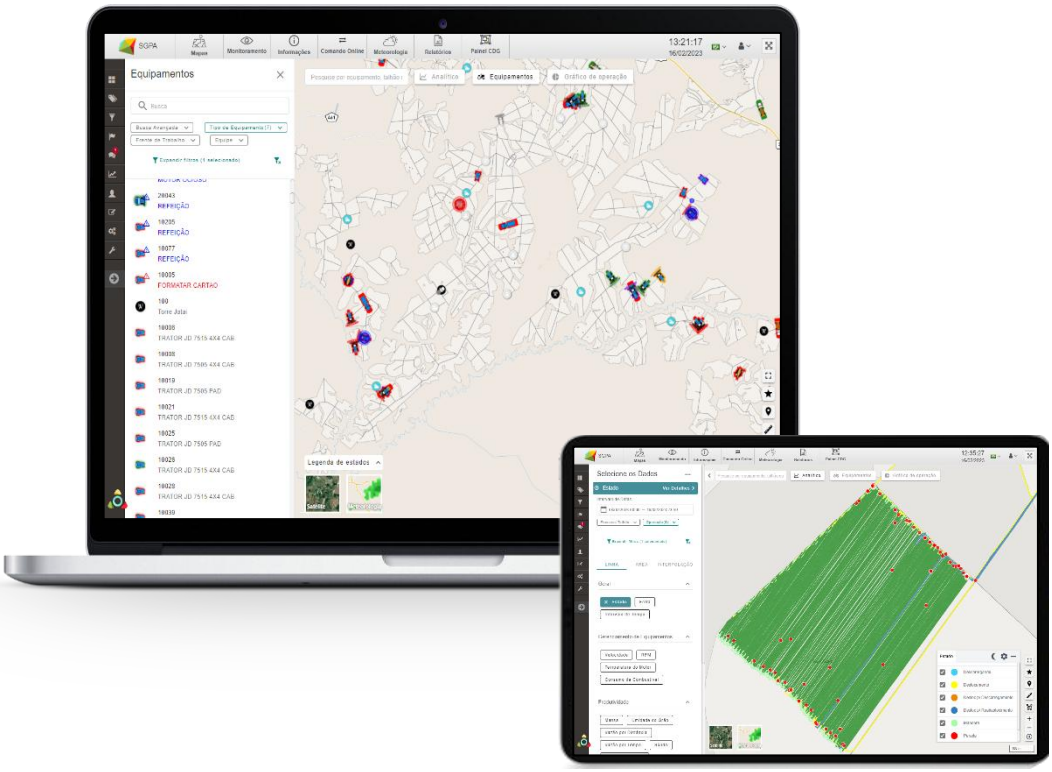
Changelog

SGPA3

Automated Process Management System



Changelog Version 2025/258
Period: 04/08/2025 to 04/21/2025
Revision 00
Date: 04/29/2025

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 in order to fix bugs, improve performance and add new features to bring a better user experience and contribute to a management with greater quality and efficiency.

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1. SGPA3

1.1 Improvements

1.1.1 Records – Equipment and Implement Measurements

Improvements made to the "Implement Measurements" and "Equipment" records. As of this version, the "12 – SP – Sections/Lines/Nozzles" Implement type was implemented, aiming to optimize operations that use displaced implements. Due to this new Implement type, the Equipment record received new fields for the Equipment Type "40 – Light Tire Tractor". The specifications of the new functionalities are described below:

⇨ **"Implement Measurements" Registration:**

When selecting the Implement Type "12 – SP – Sections/Lines/Nozzles", to register a new implement, the following configuration screen will be displayed:

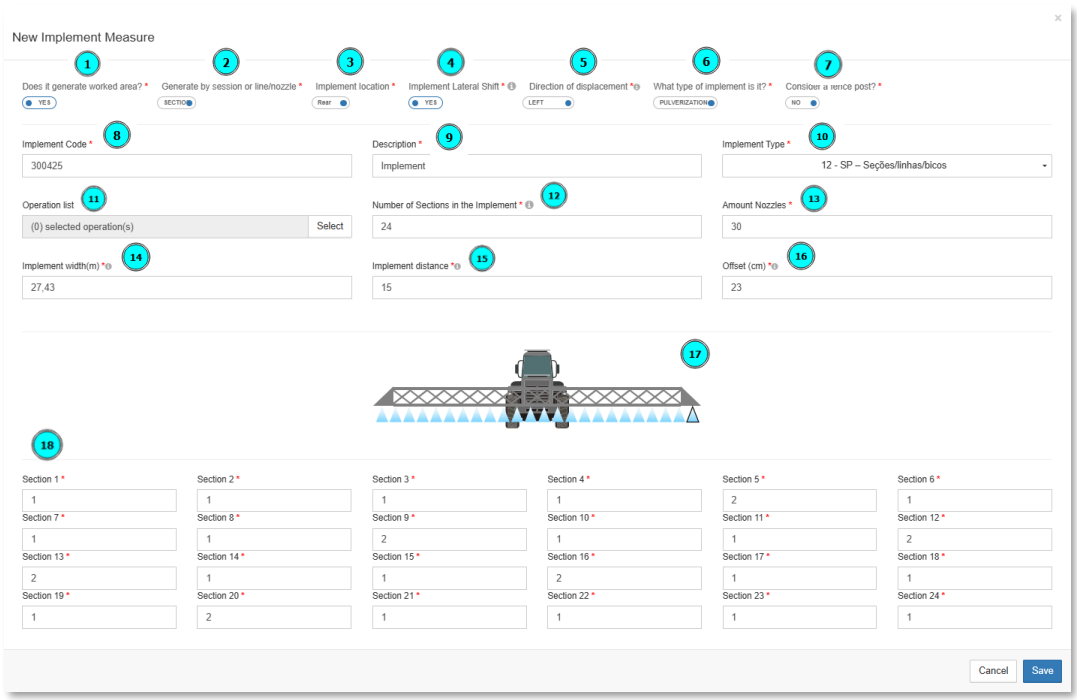

Image 01 – View of the Implement Measurements registration in the "12 – SP – Sections/Lines/Nozzles" Type

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1 **Generate worked area?** – When flag set to 'YES', opens the box for registering the Implement Width.

2 **Generate by section or line/nozzle** – This flag, when active in 'Sections', will open the boxes to register how many lines or nozzles there are per section. With the flag active in 'Line', the registration must be of the number of lines or nozzles.

3 **Implement location** – This flag has two positions that indicate whether the implement is facing backwards or forwards. Rear, when the actuation point is facing backwards, and front, when the actuation point is facing forwards. **Use case example:** Planting – actuation point facing backwards. Harvesting – actuation point facing forwards.

4 **Implement lateral displacement?** – When this flag is set to 'Yes', the "direction of displacement" flag and the "offset (cm)" box will be generated. The registration must be in centimeters according to what is shown on the machine monitor.

5 **Direction of movement** – When the implement is moving laterally, the direction in which it is moving (right or left) must be indicated.

6 **What type of equipment is it?** - Spraying or Planting.

7 **Consider fence nozzle?** – Option inactive in this version.

8 **Implement Code** – Fleet number determined by the user.

9 **Implement Description** – User-determined descriptive name.

10 **Implement Type** – Selects the implement type '12 – SP – Sections/lines/nozzles' to use the functionalities described in this document.

11 **List of operations** – Do not use for this type of implement.

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12 **Number of Sections in the Implement** – Information must be consulted on the operation monitor, observing the number of nozzles/lines distributed by sections.

13 **Number of Nozzles/Lines** – Information that must be consulted on the operation monitor or counted manually on the implement.

14 **Implement Width (m)** – Measurement that represents the effective area of the equipment, as illustrated below.

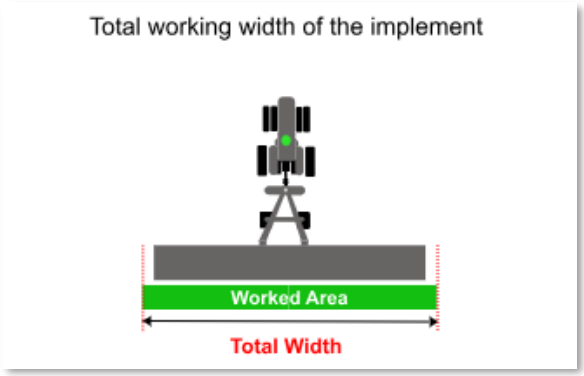

Image 02 – Illustration of overall implement width

15 **Implement distance (m)** – Measurement that represents the distance from the hitch point to the implement action point.

⚠ **Important:** The other measure regarding the distance from the GPS receiver to the hitch point must be registered in the 'equipment' section.

Total distance = distance from GPS receiver to hitch point + distance from hitch point to implement action point.

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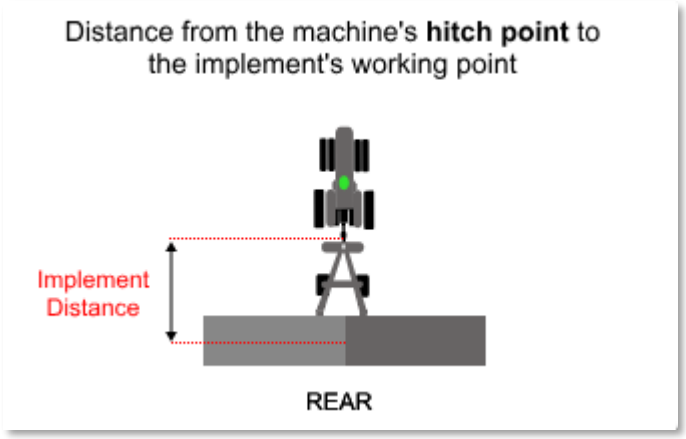

Image 03 – Illustration of machine hitch point to implement action point in Rear mode

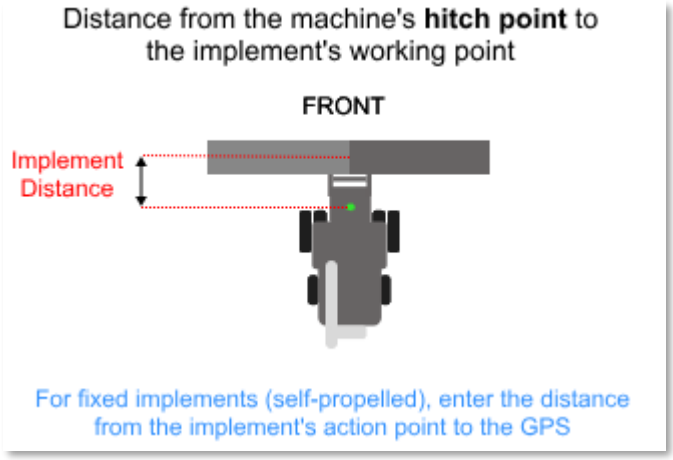

Image 04 – Frontal Illustration of machine hitch point to implement action point in Front mode

16 **Offset (cm) –** Measurement that represents the lateral displacement of the GPS to the center of the implement.

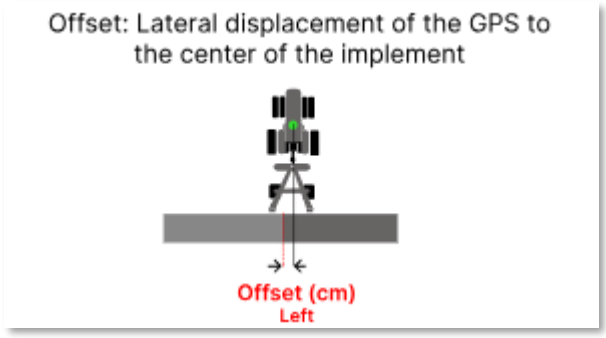

Image 05 – Offset Illustration about the Offset option

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17 **Dynamic image for registration (new) –** Image that dynamically shows how many nozzles or lines there are per section.

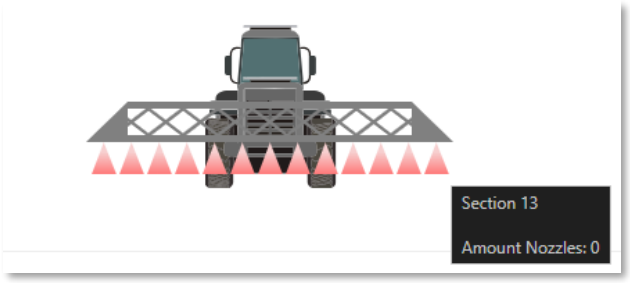

Image 06 - Dynamic image of the spraying register by section.

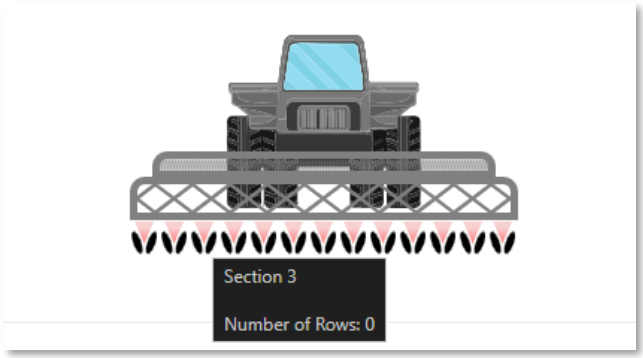

Image 07 - Dynamic image of planting registration by section.

18 **Section data** – Fields for filling in section data according to the number of sections registered in item 10. The number of nozzles or lines present in the section must be entered.

⇨ <u>Equipment Records:</u>

When selecting the Equipment Type "40 – Light Tire Tractor", the new fields will be displayed:

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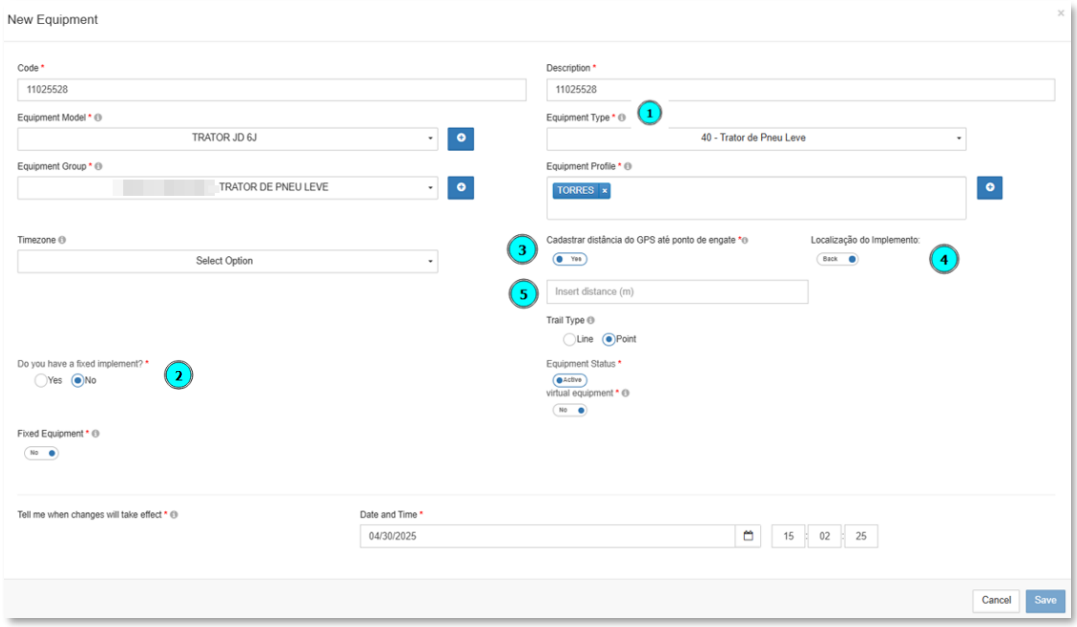
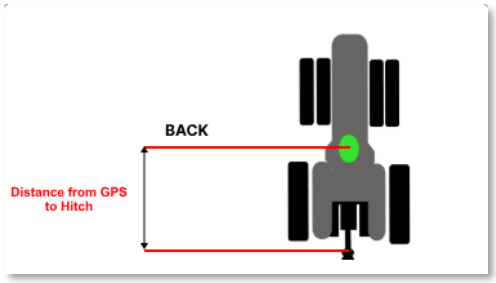


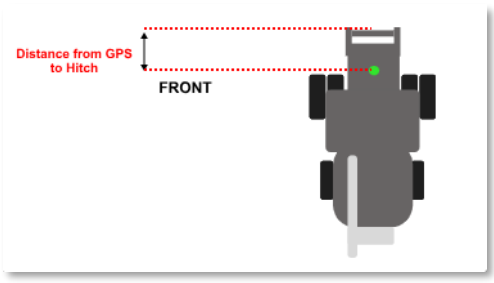
Image 08 – GPS distance registration configuration for the "40 – Light Tire Tractor" type equipment.

Equipment type – For the GPS distance registration process – hitch, the model '40 – Light tire tractor' must be selected. Only by selecting this model will it be possible to carry out the new registration.

Do you have a fixed implement? – Only with the option Not selected. The user can register the distance value.

Register GPS distance to the hitch point (new field) – Measurements must follow the illustrations below. Always consider the GPS receiver up to the implement hitch.





Images 09 and 10 – Illustration of GPS Distance to Hitch in Rear and Front Mode

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4 **Implement Location (new field)** – This flag has two positions that indicate whether the implement is facing backwards or forwards. Rear, when the point of action is backwards, and front, when the point of action is forwards.

Use case example: Planting – point of action backwards. Harvesting – point of action forwards.

5 **Insert distance (m) (new field)** – Register the value measured in meters, according to the image illustrated in item 3.

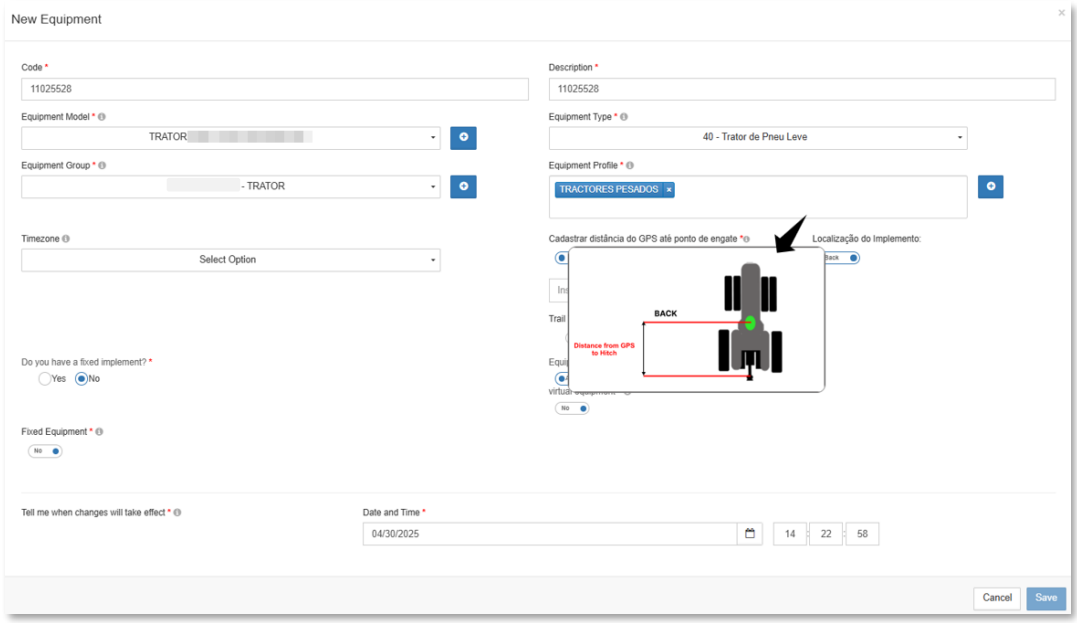

Image 11 – **Display of an** illustrative image when clicking on the "i" icon in the "Register GPS distance to the hitch point" field in the Equipment registration

Go to Main Menu > Records > Equipment > Implement Measurements > Implement Type > 12 – SP – Sections/Lines/Nozzles and in Records > Equipment > Equipment > Equipment Type > 40 – Light Tire Tractor

1.1.2 Monitoring – Equipment Pop-up (Totem)

Improvements made to Monitoring for "66 – Totem" Type Equipment. As of this version, in the "Patrimony" tab of the Equipment pop-up, two new pieces of

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information will be available to be displayed: "Firmware receiver" and "Preamble". In addition, the Minimum and Maximum Frequency configuration values of the antennas are displayed in megahertz (MHz).

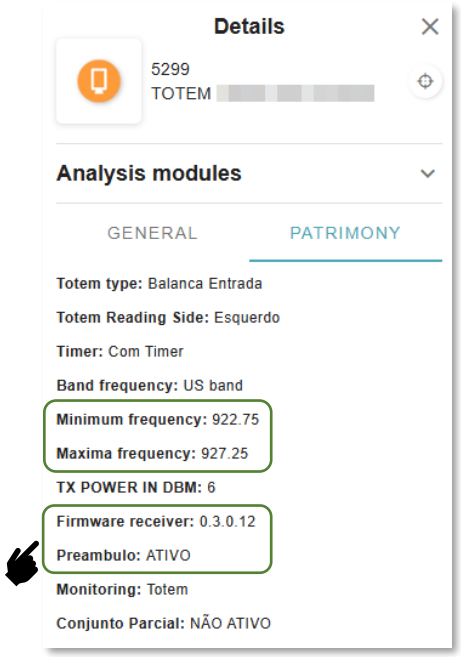

Image 12 – New information available in the pop-up for the "66 – Totem" type equipment

Go to Top menu > Monitoring > Equipment menu > Equipment type > 66 – Totem > Pop-up > Patrimony tab > Receiver firmware and Preamble

1.1.3 Telemetry – Failures Configuration (Export)

Improvement made to the "Telemetry" module to implement the "Export" functionality on the "Failures Configuration" screen. In the exported file, the data is presented divided into five columns: "Failure Code", "Failure Description", "Display Failure", "Manufacturer Criticality" and "Customer Criticality".

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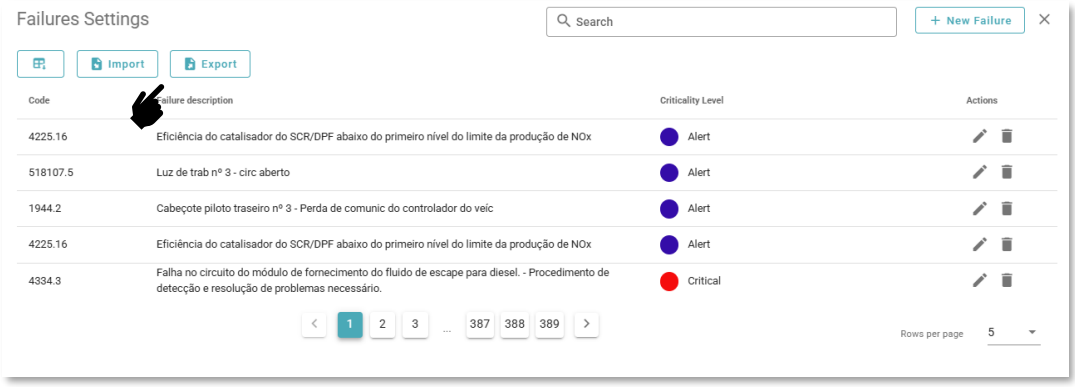

Image 13 – Export button on the Telemetry Failures Configuration screen

A	B	C	D	E
Failure code	Failure description	Show failure	Manufacturer Criticality	Client Criticality
3376	Software controlador motor não dá sup. gerenciamento de potência (gerenc.potência de motor habilitada	No	Not configured	Alerta
3377	Interruptor de velocidade do motor constante detectado	No	Not configured	Alerta
3380	Circuito de acionador de aumento de velocidade do ventilador em curto com B+	No	Not configured	Alerta
3381	Circuito de acionador de diminuição de velocidade do ventilador em curto com B+	No	Not configured	Alerta
3382	Curto circuito do acionador do ventilador hidráulico com B+	No	Not configured	Alerta
3383	Circuito aberto do acionador do controle do ventilador hidráulico ou em curto com o terra	No	Not configured	Alerta
3384	Circuito do acionador multiviscoso da hélice controlado eletronicamente em curto com B+	No	Not configured	Alerta
3385	Circuito do solenoide do acionador multiviscoso da hélice - circuito aberto ou em curto com o terra	No	Not configured	Alerta
3386	Circuito aberto do acionador de aumento de velocidade do ventilador ou em curto com o terra	No	Not configured	Alerta
3387	Circuito aberto do acionador de diminuição de velocidade do ventilador ou em curto com o terra	No	Not configured	Alerta
3388	O fornecimento de tensão de 12VH está baixo	No	Not configured	Alerta

Image 14 – File exported on the Telemetry Failures Configuration screen

Go to Top Menu > Telemetry > Failure Configuration > Export

Available for Environments that have the "Telemetry" solution active.

1.1.4 PBI Reports – Operational Performance (Cane)

Improvement made to the PBI Report "Operational Performance", for the Sugarcane vertical. In this version, the Farm code was implemented in the "Operational Area (ha) and Operational Yield (ha/h)" graph to optimize identification.

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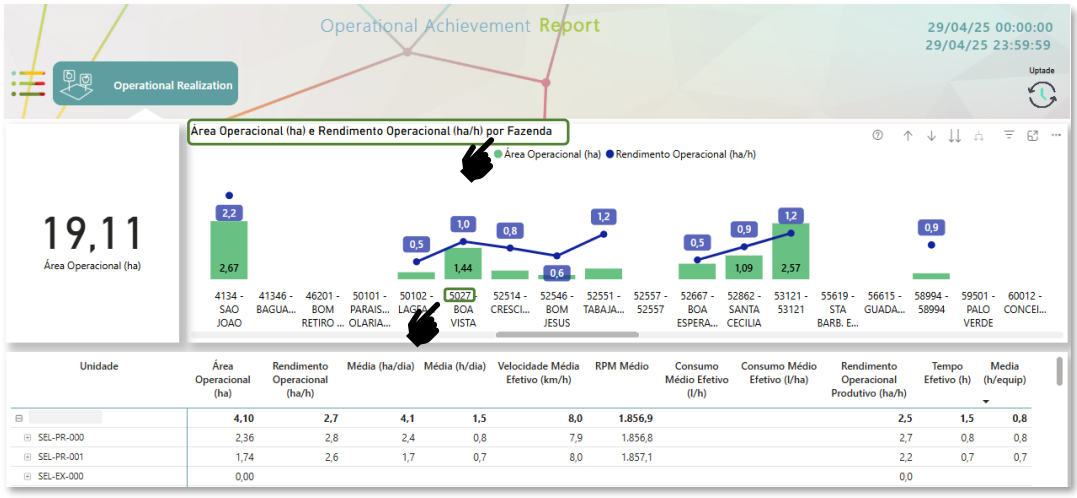

Image 15 – "Operational Area (ha) and Operational Yield (ha/h)" chart showing the Farm code

Go to Main Menu > Reports > PBI > Map Reports Menu > Operational Performance > Operational Area (ha) and Operational Yield (ha/h) Graph by Farm

1.1.5 PBI Reports – General Daily (Cane)

Improvement made to the "General Daily" PBI Report, from the Sugarcane vertical, to implement the "Operation" level in the "Top 5 Offenders" graph.

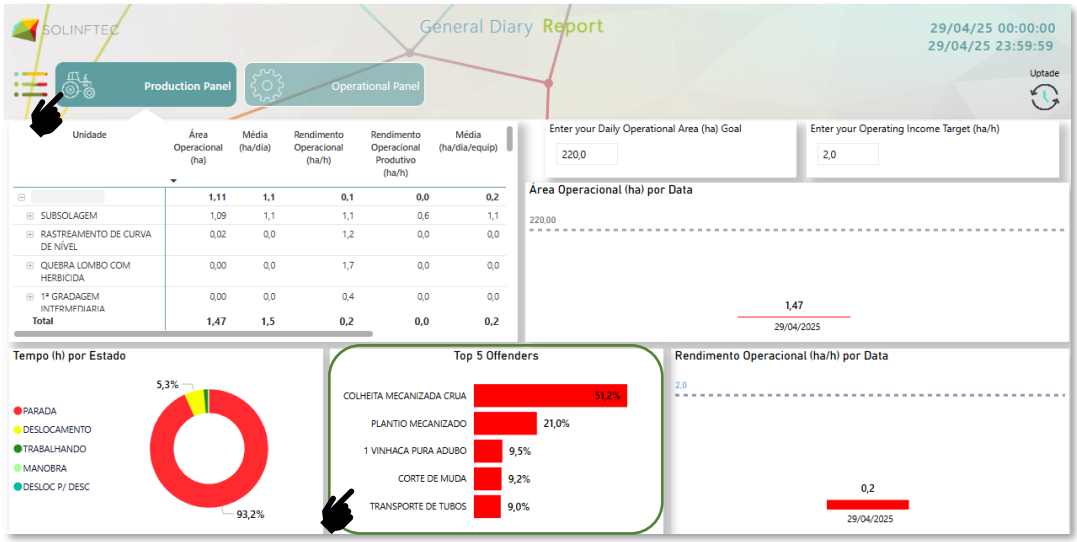

Image 16 – "Top 5 Offenders" chart showing Operation level

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Go to Main Menu > Reports > PBI > Map Reports Menu > General Daily > Production Panel Tab > Top 5 Offenders Chart

1.2 Bugs

1.2.1 Maps and Monitoring – Quality Monitoring

Adjustment applied in order to automatically update the data in the "Quality Monitoring" menu, that is, when occurrences are checked, they will not be displayed in the menu.

Go to Top Menu > Maps/Monitoring > Top menu within the map > Quality > Occurrence check

Available for Environments that have the "Quality Monitoring" solution active. Applied on 04/25/2025.

1.2.2 Maps and PBI Reports – Weather - Solar Radiation

Adjustment made to display the data of the climate variable "Solar Radiation" in the same standard on the climate map "Global Solar Radiation" and in the PBI Report "Climate Conditions.

Go to Top Menu > Maps and Monitoring > Top menu within the map > Meteorology > Climate Maps > Global Solar Radiation

Available for Environments that have the "Climate" solution active.

1.2.3 Maps - Measuring Distances

Adjustment made to the Analytical Map to allow the use of the "Measure Distances" tool (ruler icon) when interpolated maps are active.

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Go to Top Menu > Maps > Interpolation > Bottom right menu > Measure Distances

1.2.4 Maps – Application Failure Area

Adjustment made to the "Fertigation/Irrigation" Map "Application Failure Area" to stop displaying the loading bar at the top of the screen when there is no data.

Go to Top Menu > Maps > Analytical > Area > Application failure area

Available for environments that have the "Fertigation" solution active.

1.2.5 Monitoring – Trail - Graph and Table

Adjustment made in Monitoring to display "Desired RPM" values in the same pattern in the "Graph" and in the "Table" of the Trail.

Go to Top Menu > Monitoring > Equipment > Equipment Pop-up > Trail > Trail Graph and Table > Desired RPM

1.2.6 PBI Reports – Filters

Adjustment made to "PBI Reports" to display in the "Equipment" filter only the fleets linked to the "User Group" to which the user belongs and to avoid slowness in loading the filter data.

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

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1.2.7 Telemetry – Engine Load Profile

Adjustment made in the "Telemetry" Module in order to display the RPM data in the same pattern on the "Engine Load Profile" option screen and in the file exported in PDF format.

Go to Top Menu > Telemetry > Equipment > Detailed Equipment > Sensors > Engine Load Profile > Filter > PDF Format > Export

1.2.8 Records - Checklist

Adjustment made to the "Checklist" registry to allow the use of the "Import Plans" functionality by inserting files in '.csv' format.

Go to Main menu > Records > Equipment > Checklist > Import > Import Plans

1.2.9 Records - Automatic Operations

Adjustment made to the Registry to allow saving of "Automatic Operation" records.

Go to Main menu > Records > Operation > Automatic Operations > New/Edit

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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