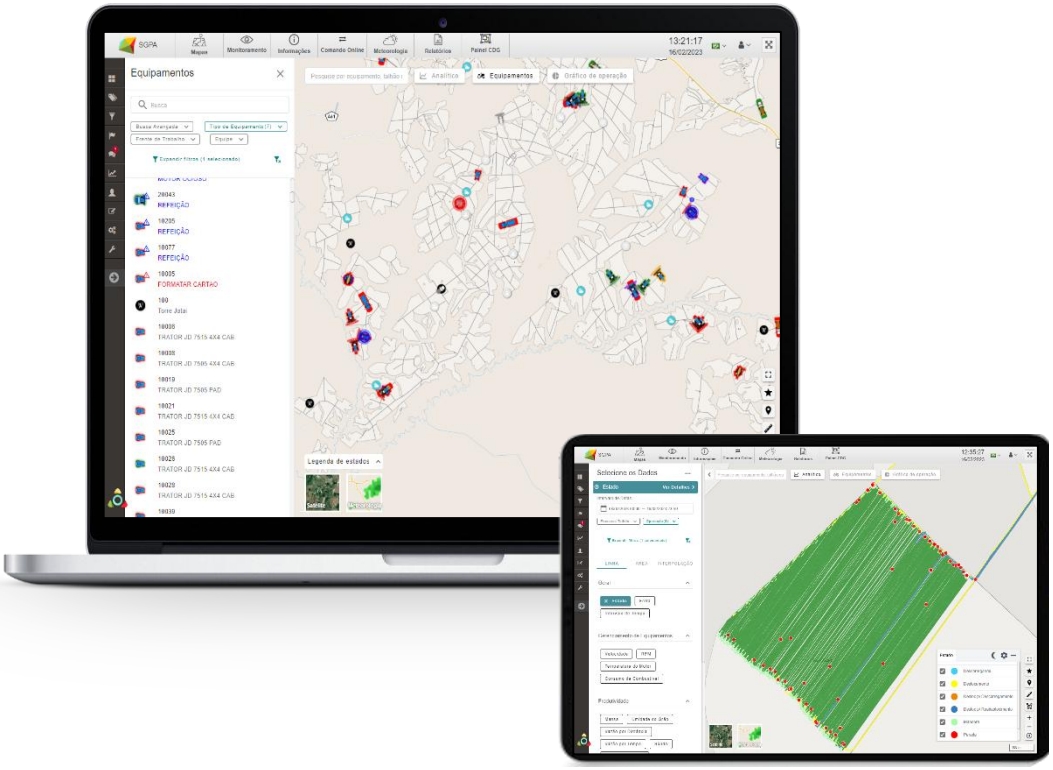
SOLINFTEC

Changelog

SGPA3

Automated Process Management System



Changelog Version 2025/269

Period: 09/02/2025 to 09/15/2025

Revision 00

Data: 09/30/2025

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

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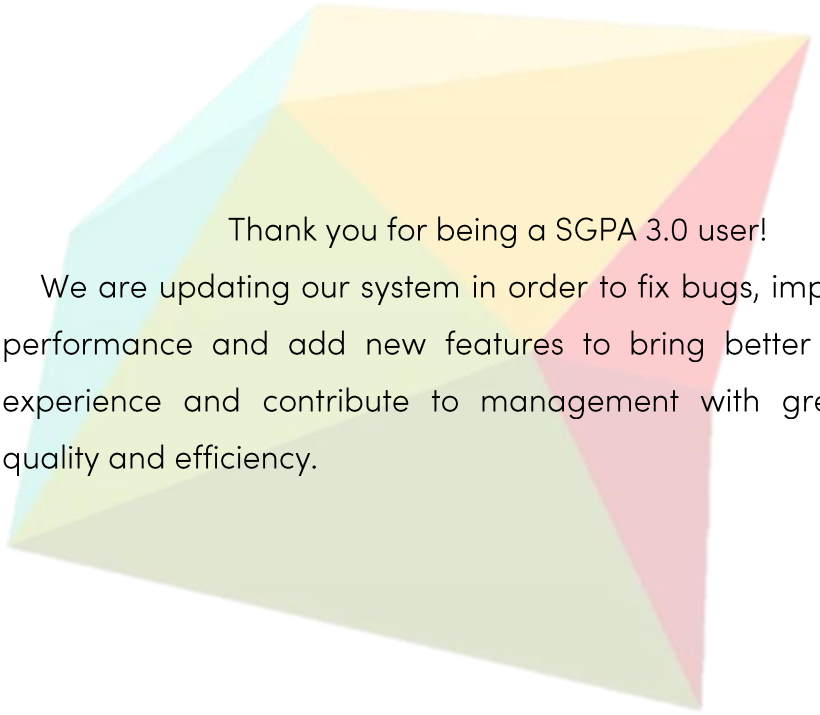

Thank you for being a SGPA 3.0 user!

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

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1. SGPA3

1.1 Specific Enhancements

1.1.1 PBI Reports - Cutting, Loading and Transporting Sugarcane and Operational Variables Reports

Implemented changes in the PBI Report "Cutting, Loading and Transporting Sugarcane. In this report, which is "D-1", it is used by the user to perform data visualization of a large range of dates. The old calculation of the Average Time was a projection for 24 hours, which confused the reading when there was more than one day selected. Now the indicator now reflects a real average per day, consistent with the filtered window. More details about the improvement are described below:

- **Before (projected metric)**

Name: Mean Time (hh:mm)

Formula: Average Time = 24h × (% of operation share in the filtered context)

Interpretation: "If this participation were repeated over a whole 24-hour day, how many hours would it take?"

Note: It is a projection, not the time actually worked.

When did it make sense?

Single-day or capacity analysis (normalize everything to 24 hours).

- **Current (actual metric per day)**

Name: Average Time (h/day)

Formula: Average Time (h/day) = Operational Hours (actual) ÷ No. of Days Filtered

Interpretation: actual daily average of that operation in the selected period.

Why is it better for D-1?

Answer directly "on average, how many hours per day did this operation take place in the filtered period?".

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Avoids the confusion of projecting to 24h when there are several days in the filter.

Simple example:

Period of 3 days with 18 hours of operation in total.

Old (24h projection): depends on the % of participation in the context; may be higher/lower than actual hours.

New (h/day): 18 h ÷ 3 days = 6 h/day (actual average).

What changes in the reports:

Reports: CCT and Operational Variables.

Field label: from Average Time (hh:mm) to Average Time (h/day).

Tooltip/Help within the reports describes the new formula.

What <u>doesn't</u> change:

Operating Hours (h) continue to show the actual recorded time.

Nothing was "corrected": the old calculation was not wrong; it was only less appropriate when the analysis involves more than one day.

In addition, the view of the day has been changed, as of this update the CCT, Operational Variables and Efficiency reports will show the date referring to the customer's productive day on the dashboard.

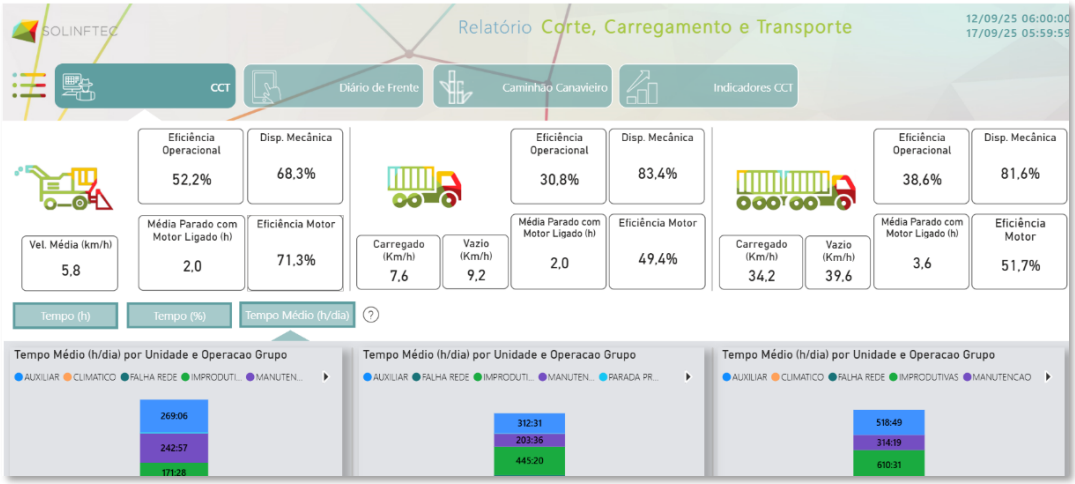

Figure 1 – CCT Report

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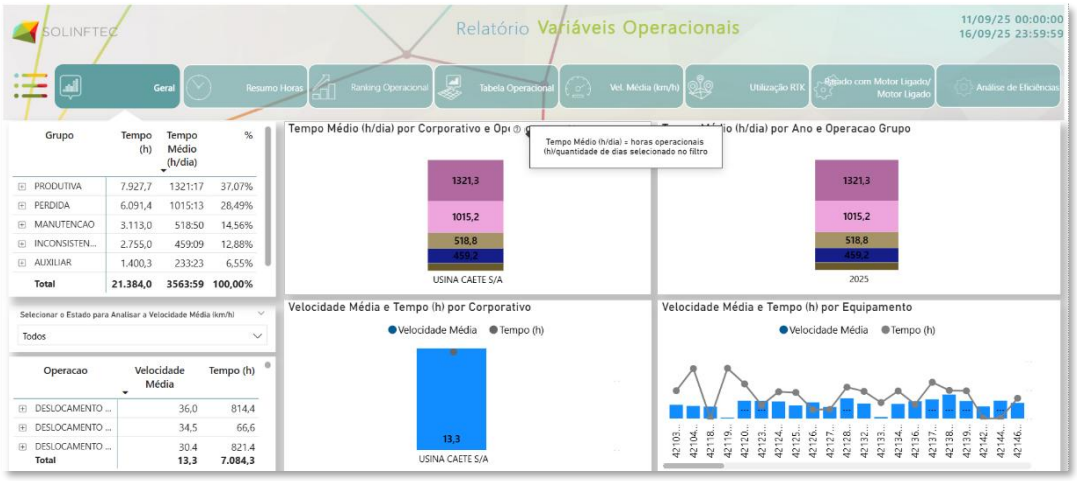

Figure 2 – Operational Variables Report

Access in: Main menu > Reports > PBI > Operational Hours > Cutting, Loading and Transporting Sugarcane and Reports of Operational Variables > Average Time

1.1.2 PBI Report – Fertigation Notes Report

Implemented in the "Report" tab the "Summarized" and "Detailed" buttons, in the PBI report "Fertigation Notes. The Detailed button will display the table that is currently in the report, which is the separate data for each step in the process. The Summary button will display a new table with a complete summary of each trip. The information is grouped together to display one trip per line, allowing for a more specific condensation of information displaying at a glance what occurred on each trip.

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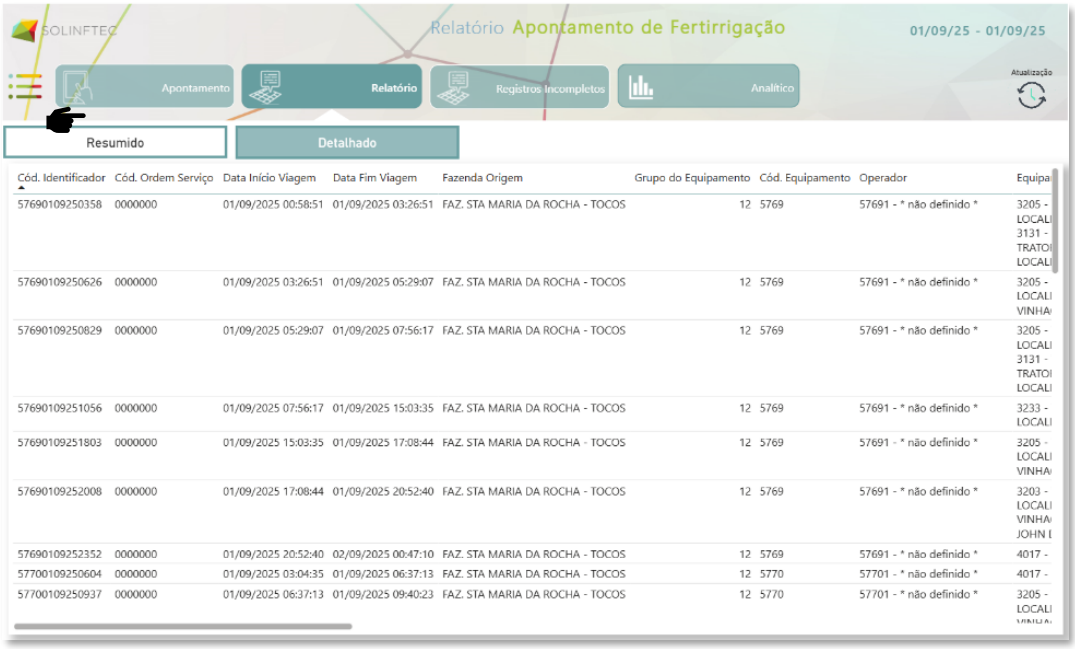

Cód. Identificador	Cód. Ordem Serviço	Data Início Viagem	Data Fim Viagem	Fazenda Origem	Grupo do Equipamento	Cód. Equipamento	Operador	Equipa
57690109250358	0000000	01/09/2025 00:58:51	01/09/2025 03:26:51	FAZ. STA MARIA DA ROCHA - TOCOS	12	5769	57691 - * não definido *	3205 - LOCALI 3131 - TRATOI LOCALI
57690109250626	0000000	01/09/2025 03:26:51	01/09/2025 05:29:07	FAZ. STA MARIA DA ROCHA - TOCOS	12	5769	57691 - * não definido *	3205 - LOCALI VINHA
57690109250829	0000000	01/09/2025 05:29:07	01/09/2025 07:56:17	FAZ. STA MARIA DA ROCHA - TOCOS	12	5769	57691 - * não definido *	3205 - LOCALI 3131 - TRATOI LOCALI
57690109251056	0000000	01/09/2025 07:56:17	01/09/2025 15:03:35	FAZ. STA MARIA DA ROCHA - TOCOS	12	5769	57691 - * não definido *	3233 - LOCALI
57690109251803	0000000	01/09/2025 15:03:35	01/09/2025 17:08:44	FAZ. STA MARIA DA ROCHA - TOCOS	12	5769	57691 - * não definido *	3205 - LOCALI VINHA
57690109252008	0000000	01/09/2025 17:08:44	01/09/2025 20:52:40	FAZ. STA MARIA DA ROCHA - TOCOS	12	5769	57691 - * não definido *	3203 - LOCALI VINHA JOHN I
57690109252352	0000000	01/09/2025 20:52:40	02/09/2025 00:47:10	FAZ. STA MARIA DA ROCHA - TOCOS	12	5769	57691 - * não definido *	4017 -
57700109250604	0000000	01/09/2025 03:04:35	01/09/2025 06:37:13	FAZ. STA MARIA DA ROCHA - TOCOS	12	5770	57701 - * não definido *	4017 -
57700109250937	0000000	01/09/2025 06:37:13	01/09/2025 09:40:23	FAZ. STA MARIA DA ROCHA - TOCOS	12	5770	57701 - * não definido *	3205 - LOCALI

Figure 3 – Fertigation Notes Report

Access in: Main menu > PBI > Reports > Fertigation Notes Report

Available for the Sugarcane Vertical Environments that have the extra report "Fertigation Notes".

1.1.3 Records – Implement and Equipment Measures

Improvements made to the "Implement Measures" register:

⇨ **Type of Implement "0 – Fixed Implement"** - New fields were implemented, to be used in equipment type "40 – Light Tire Tractor", in order to improve the current data processing. The specifications of this record are described below:

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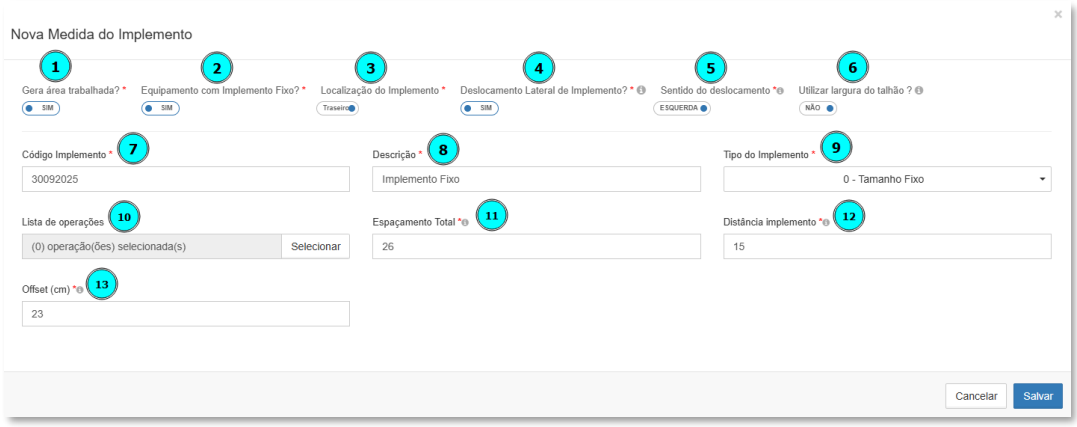

Figure 04 – New view of the Implement Type Register "0 – Fixed Size"

1 **Generate worked area?** – Active flag in 'YES', opens the box for Total Spacing record.

2 **Equipment with Fixed Implement?** – Flag inactive.

3 **Implement Location (new field)** – Flag that indicates where the displacement of the worked area should be effected longitudinally. **Example use case**: Crop implement is "Frontal". Planting the implement is "Rear".

4 **Lateral displacement of implement? (new field)** – Flag that indicates where the displacement of the Worked Area should be effected laterally. **Example use case**: Tractor off-center planter.

5 **Direction of Offset (new field)** – Movement of the Worked Area/Area Overlap to the right or left.

6 **Use field width?** Considers the width data that is in the field register to assemble the Worked Area.

7 **Implement code** – Fleet number determined by the user.

8 **Implement description** – Descriptive name determined by the user.

9 **Implement Type** – 0 – Fixed Size

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10 List of operations – Inactive record. - Do not use.

11 Total spacing (m) – Measurement that represents the effective area of the equipment, as illustrated below.

Figure 05 – Illustration of the total width of the implement

12 Implement distance (m) (new field) – Measure that represents the point of attachment of the tractor (equipment) to the point of action/effective of the implement.

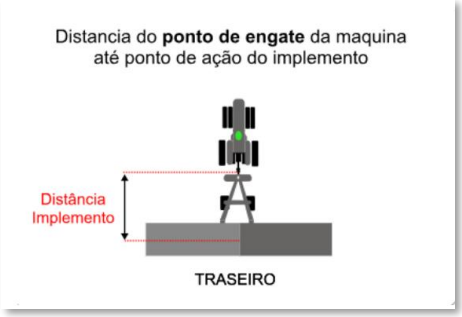

Figure 06 – Illustration of the Distance from the Implement

13 Offset (cm) (new field) – Measure that represents the lateral displacement of the GPS receiver to the center of the implement.

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Figure 07 – Illustration of the Offset option

⇨ <u>Equipment Record:</u>

When selecting the Equipment Type "40 – Light Tire Tractor", the fields that are linked to the fields implemented in the Implement Measures record for Types "0 – Fixed Implement" and those available in type "12 - SP – Sections/Lines/Nozzles" will be displayed:

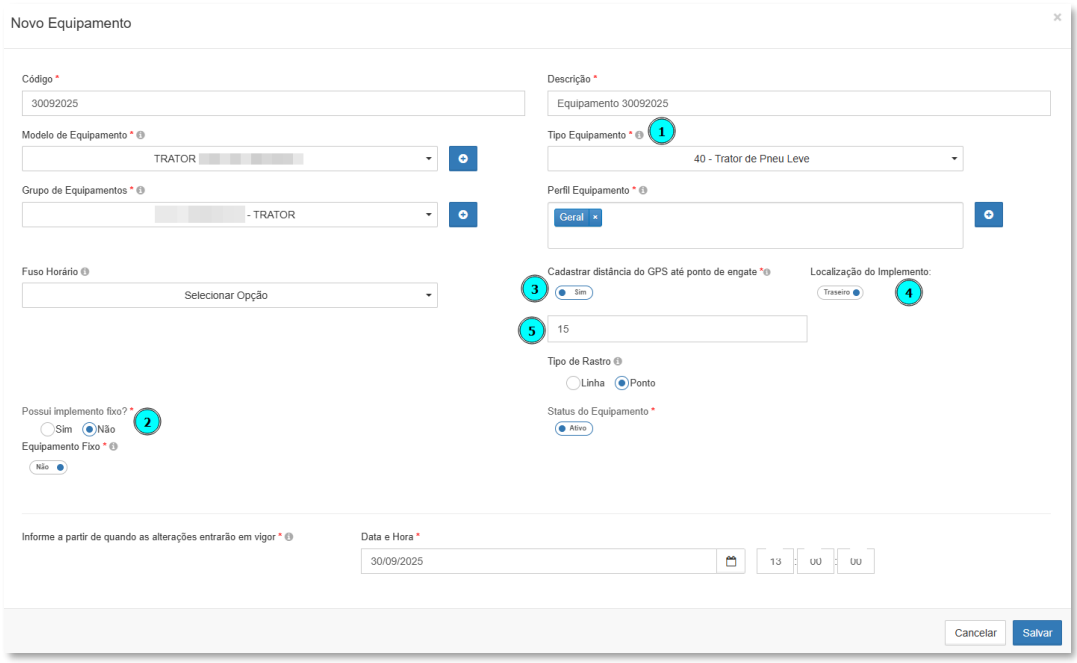

Figure 08 – GPS distance record configuration for the equipment of type "40 – Light Tire Tractor".

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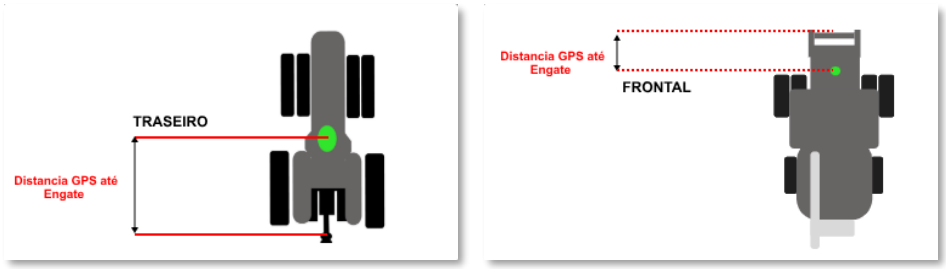
1 **Type of equipment** – For the record process of the GPS distance – hitch, the model **'40 – Light tire tractor' must** be selected. Only by selecting this model will it be possible to register again.

2 **Does it have a fixed implement?** - Only with the option **Not** selected can you register the distance value.

3 **Register GPS distance to the hitch point** – The measurements must follow the illustrations below. Always consider the GPS receiver until the attachment of the implement.



Figures 09 and 10 – Illustration of the GPS Distance to the Hitch in Rear and Front mode

4 **Implement Location** – This flag has two positions that indicate whether the implement is backward or forward. Being rear, when the point of action is rear, and frontal, when the point of action is forward.

Example use case: Planting – point of action backwards. Harvest – point of action forward.

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

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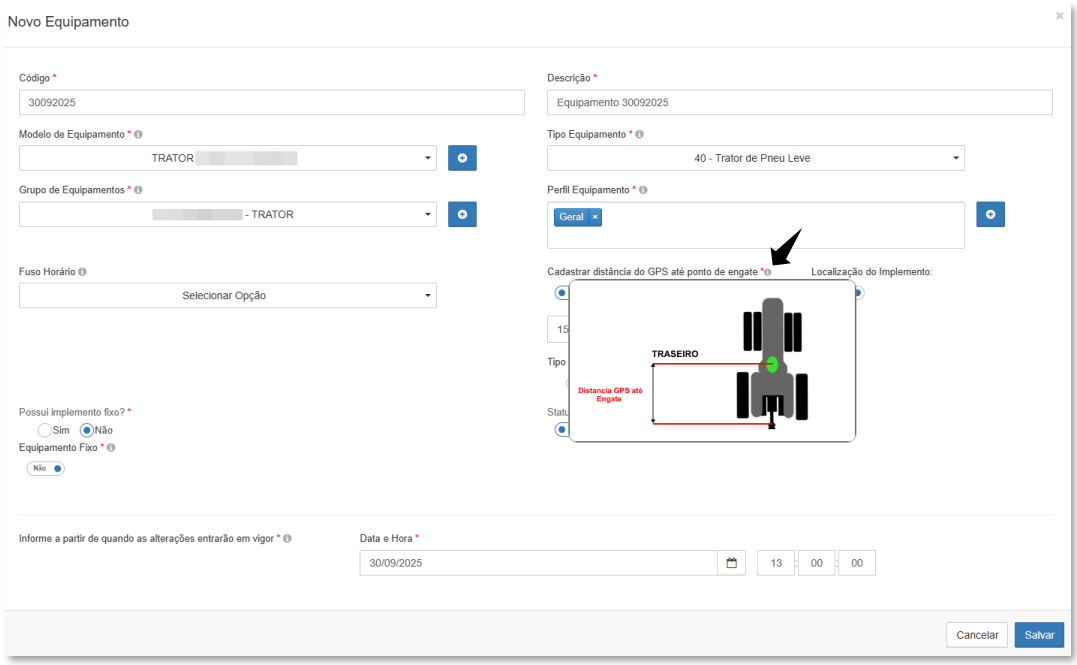

Figure 11 – Displaying an illustrative figure by clicking on the "i" icon in the field "Register distance from GPS to the hitch point" in the Equipment record

⇨ **New processing for MPA 2500/Auteq System.,**

For the equipment model "11 - MPA 2500/Auteq", there is a new processing rule for this system, making the rate count (seeds/hectare) more accurate. This new rule is applied to the types of records: "6 – Seeds by sections", "10 – Seeds by Sections/rows with Shutdown", "12 – SP – Sections/rows/nozzles".

Access in: Main Menu > Records > Equipment > Implement Measures > Implement Type > 0 – Fixed Implement and in Records > Equipment > Equipment > Equipment Type > 40 – Light Tire Tractor

1.1.4 Maintenance - Edge Configuration

Improved the "Edge Configuration" screen in the "Crate Type" field to add four new crate types. Thus, the total quantity was updated to fifteen options, namely:

- 1 small crate
- 2 small crates

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- 3 small crates
- 1 large crate
- 2 large crates
- 3 large crates
- Small Together
- Great Together
- 2 medium crates
- 2 extra-large crates
- 3 extra-large crate
- 1 crate of 40 (new);
- 1 x 22t crate (new)
- 2 x 22t crates (new)
- 3 crates of 22 (new)

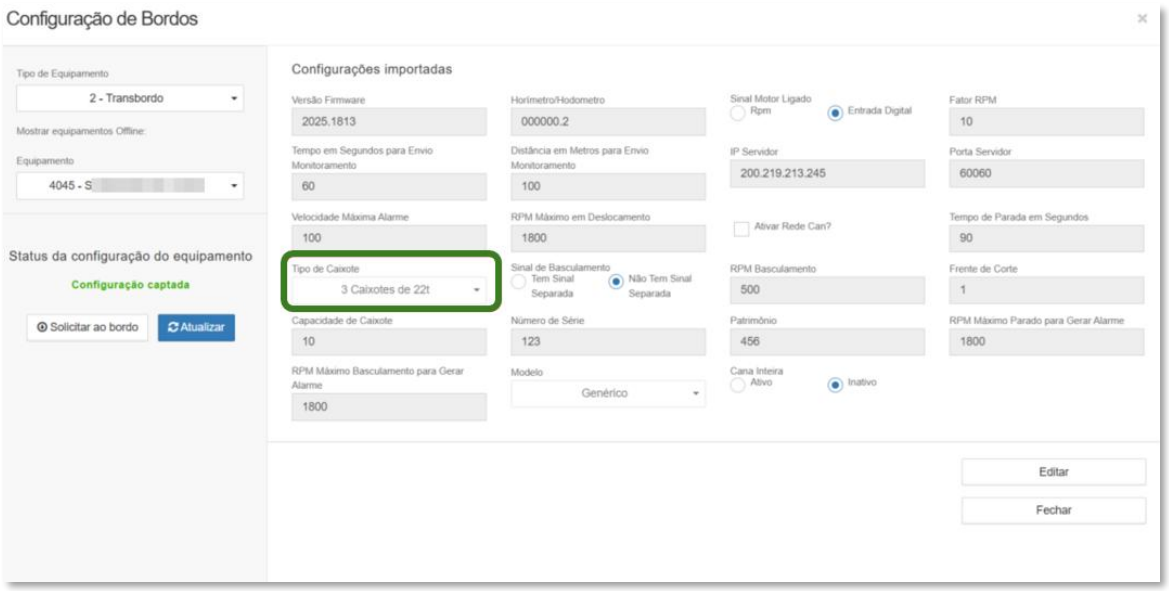

Figure 12 – Edge configuration

Additional information: the use of the crate type configuration: The crate type is used by MAG to project the distance between the center of the crates and the GPS antenna installed in the tractor cab. The correct projection of the center of the crate is essential in the Conventional CDC, especially at the time of tipping the

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transshipment, when, through georeferencing, the system defines in which trailer the load will be registered.

Access in: Solinftec Maintenance > Maintenance > Edge Configuration > Equipment Type > Equipment > Field Crate Type

1.1.5 PBI Report – Online CCT and Online Operational Variables

Improvement made to change the way of presenting the date of update of the last record. This change aims to avoid different interpretations according to the filtering applied in the report.

The data continues to be processed normally, but specific records may not have reached the source at the time of the update.

Previously, when applying filters in the report, the date of the last record was changed according to the selected filter (for example: Equipment / Operation / Front / Unit). Now, the displayed date always corresponds to the last record received, regardless of equipment, operation, front, unit, farm, or any other filter applied.

Access in: Main menu > Reports > PBI > Online Reports > Cutting, Loading and Transportation of Sugarcane Online and Online Operational Variables

2.1Bugs

2.1.1 PBI Reports - Worked Area and Dynamic Report (Perennials)

Adjustment applied in order to correct the metric of "Operational Yield ha/h" and to correctly account for the time of Effective in the metric of the Worked Area.

Access in: Main menu > Reports > PBI > Dynamic Report and Area Reports > Worked Area

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2.1.2 Alarms – Monitoring

Adjustment made to display the alarm "No connection to screen" in the Monitoring.

Access in: Top menu >Monitoring > Equipment > Pop-up > Alarms > No connection to screen

2.1.3 Online Command – Implement Record

Adjustment made in the Online Command "Updates Implement Record" to allow sending the command when the value "-1" is inserted in the "Torque" field.

Access in: Main Menu > Modules > Online Command > New Command > Type of Equipment > Equipment > Type of Command > Updates Implement Record > Torque Field and in Top Menu > Equipment >Monitoring > Pop-up > Online Command > Command Type > Updates Implement Record > Torque Field

2.1.5 Monitoring – Advanced Search

Adjustment made in the Monitoring, in the Advanced Search filter by Retrieval Speed equal to 0 (zero), for the type "22 – Hydroroll", where when selecting the filter in the equipment menu, it should only list equipment with the value 0.

Access in: Top menu > Monitoring > Advanced Search > Type Equipment > 22 - Spool > Pickup Speed (m/h) > Equal to 0 (zero)

2.1.6 Report Generator - Supply

Adjustment applied in the generation of the Supply Report, which provides its correct operation.

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Access in: Side menu > Reports > Report Generator > Type of Report > Supply > Report > Regional/Unit/Equipment/Date - Supply

If you have any questions or other clarifications, please contact us via email suporte@solinftec.com.br or call +55 18 3622 2270.

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