



INNOVATIONS 24.2





ABOUT COJALI

Cojali S. L., based in Campo de Criptana, is a Spanish multinational manufacturer of components and electronics, which also develops solutions of advanced diagnostics, connectivity and remote diagnostics for commercial vehicles, agricultural equipment, OHW equipment, material handling equipment and vessels, as well as ISOBUS compatibility solutions for tractors and implements.

Thanks to the wide expertise in the development of on-board and workshop technology solutions, Cojali is actively working on data processing and analysis, being this a strategic business activity, which enables the implementation of improvement processes and the release of new products onto the market.

Finally, Cojali provides a comprehensive training offer, as well as complete solutions for technical support, aimed at ensuring the successful use of technology in the automotive industry.

Cojali S. L. has three subsidiaries: Cojali France, Cojali Italy and Cojali USA, and four sales offices in Germany, Turkey, Mexico and India.

COJALI ALWAYS LOOKS FORWARD WITH THE PURPOSE OF OFFERING CUTTING-EDGE TECHNOLOGY WITHIN THE AUTOMOTIVE INDUSTRY.



5%

R+D+I INVESTMENT



600

EMPLOYEES



3

SUBSIDIARIES



135

COUNTRIES

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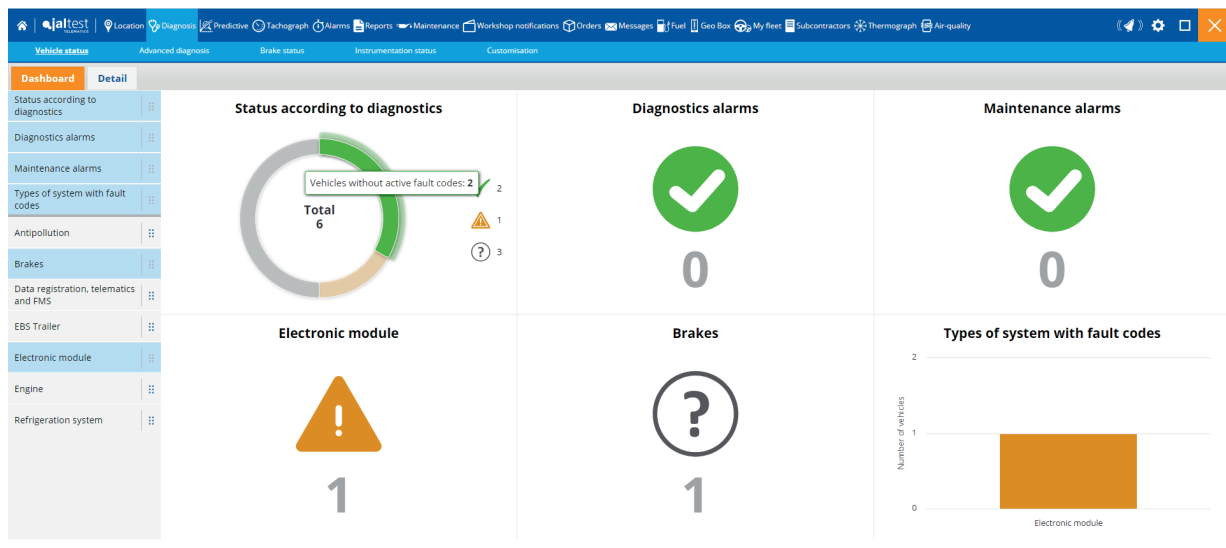


DIAGNOSTICS

1. Navigation from the diagnostics dashboard

In this version, navigation functions have been implemented on the diagnostics dashboard, so that it is possible to navigate directly from the graphs to the detail list filtered by the corresponding graph. A shortcut from the "Vehicle status based on remote diagnostics" dashboard to the detail of those vehicles meeting the conditions indicated in each dashboard graphic has been enabled.

- When the pointer is positioned over an area of the status graph, the pointer changes to the hyperlink access pointer in order to indicate the interaction.
- The access leads to the detail access list filtered according to the selection made.

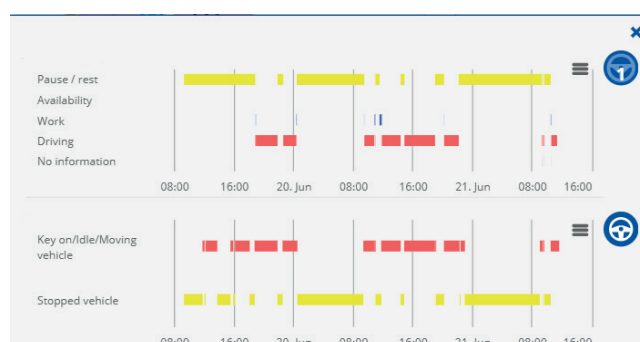
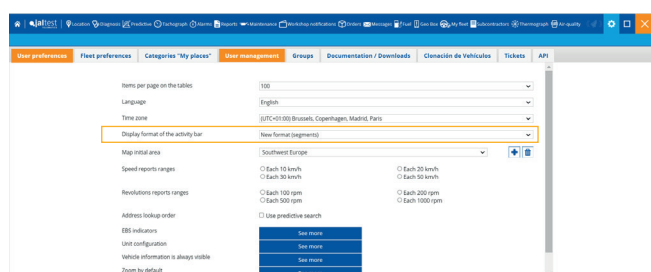




TACHOGRAPH

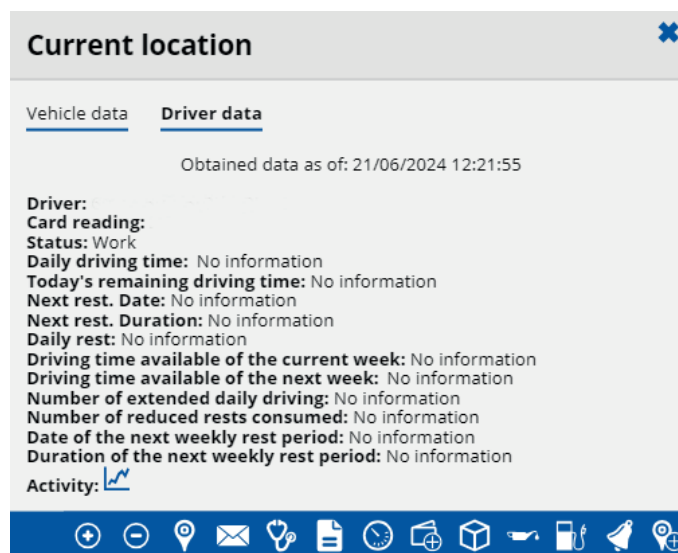
1. New display of tachograph activity by segments

As part of the release of these innovations, a new display of the tachograph activity by segments has been developed, in addition to the usual activity bar display. This new display is configurable in the "User preferences":



2. New data in the driving activity in the location information bubble

A new piece of data related to driving activity has been added: date/time of resumption of activity after a daily or weekly break. Once a pause of 6 hours is reached, the possible date/time of the next start of activity is displayed. New field called "New resumption of activity".

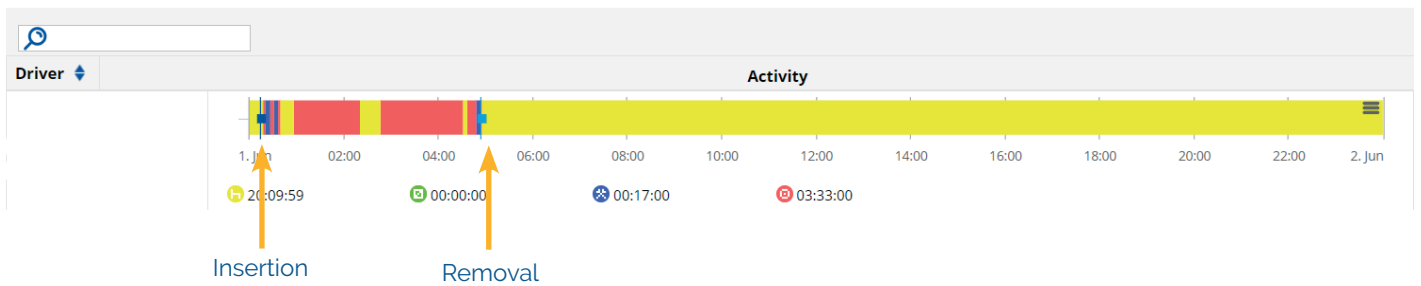




TACHOGRAPH

3. Card insertion and removal detail in the activity bar

The driver card insertion and removal event has been graphically implemented in the driver activity bar. This improvement makes it possible to better identify in the form of a milestone the moments of insertion or removal of the driver card in the tachograph.





LOCATION

1. New icon display in “Location” for vehicles working without displacement

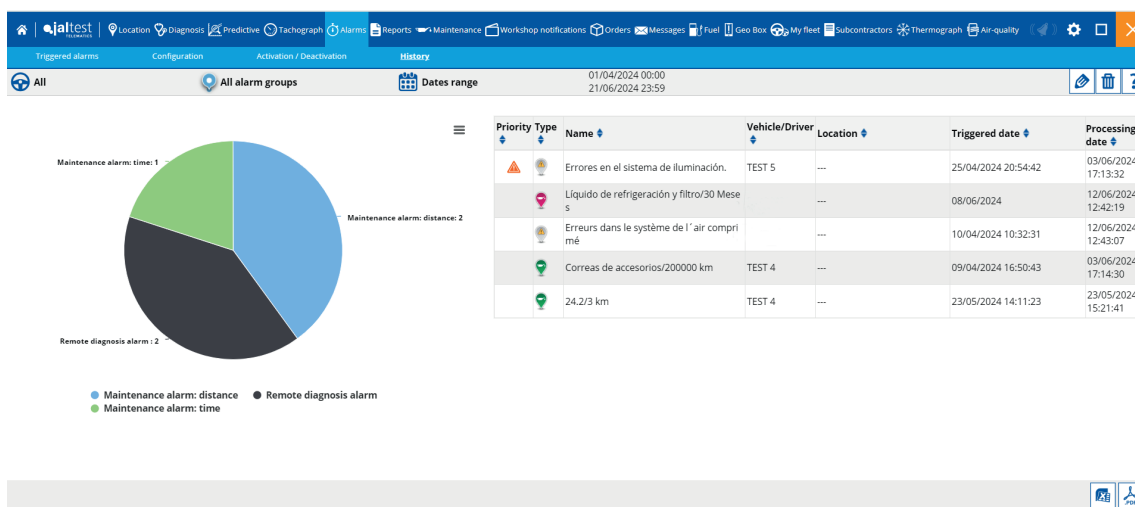
An improvement has been implemented for cases where the working time is measured through the “RPMWorking” parameter, so that when the RPM value that identifies the working conditions is reached, the status changes to the “Moving vehicle” status instead of maintaining the “Vehicle at idle speed” status as it was done so far.



ALARMS

1. Improvement in the “History” menu of “Alarms”

New option to export to Excel and pdf the alarm history from the “History” menu of “Alarms”.



2. New configuration of diagnostic alarms

With this version, it is possible to configure the alarms considering the status of the fault code (active, not active, others) when triggering these alarms.

The screenshot shows the 'New alarm' configuration window. It includes a search bar and a table for selecting the system type. The table has columns: Type of vehicle, Brand, Model, System type, and System. Below the table, there is a section for 'Fault code status' with radio buttons for 'Active fault code', 'Inactive fault code', and 'Others'. The 'Active fault code' option is selected. A note at the bottom states: 'Select this option if you want the alarm to be triggered only with some fault codes. If not selected, the alarm will be triggered with any code'.

Type of vehicle	Brand	Model	System type	System
TRUCK	VOLVO	FH V4	Brakes	ABS/EBS, Electronic Braking System
TRUCK	FORD	F-MAX	Compressed air processing	EAPU, Electronically Controlled Air Management
TRUCK	FORD	F-MAX	Auxiliary brakes	Retarder Retarder



ALARMS

3. New group of alarms

New group of alarms: Workshop exit/entry.

New alarm

☐ Operating hours

☐ Fuel level variation alarm (FMS / BLE Cojali)

☐ Measurement reading alarm through remote diagnosis *

☐ Input alarm

☐ Maintenance alarm: time

☐ Custom maintenance alarm

☐ Driver activity alarm

☐ Cold control/Thermograph

☐ Environmental indicator

☐ Workshop exit/entry

☐ FMS/J1939 reading

☐ Remote diagnosis alarm *

☐ Diagnosis connector disconnected *

☐ Maintenance alarm: distance

☐ Maintenance alarm: operating hours

☐ Tachograph file not downloaded

☐ Non-authorized use alarm

☐ Indication of low battery level

☐ Electric vehicle indicators

* Available with subscribed remote diagnosis functionality.

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ALARMS

4. New “Code” field in alarms

With the new version, the data “Code” is incorporated in the lists of configured alarms and triggered alarms, “Configuration” menu and “Triggered alarms” menu respectively.

The diagram illustrates the integration of the "Code" field into the alarm system. On the left, a vertical list of checkboxes allows users to select which fields are displayed in the alarm lists. The "Code" checkbox is highlighted with an orange arrow pointing to the "Code" column in the "Triggered alarms" table. Another orange arrow points from the "Code" checkbox to the "Code" column in the "Configuration" table.

Triggered alarms table:

Code	Priority	Group	Name	Vehicle/Driver	Date
269			Erreurs dans le système tachygraph	TEST 5	18/06/2024 20:39:47

Configuration table:

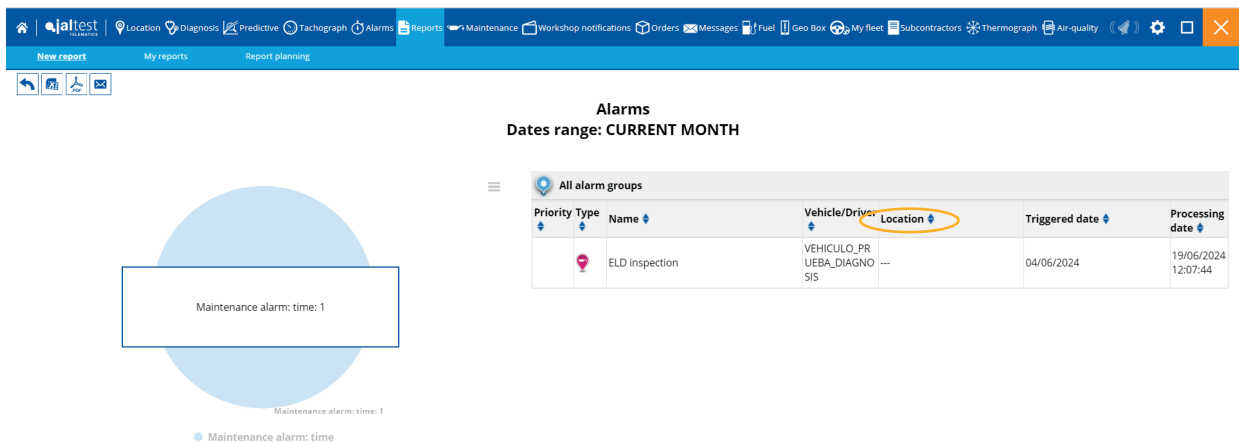
Code	Priority	Group	Name	Vehicle/Driver
1287			deriw	



REPORTS

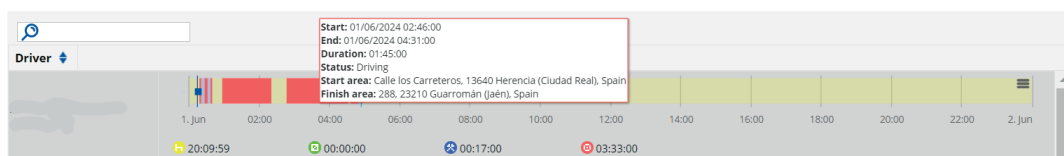
1. Improved “Alarm history” report

New column to access the location where each alarm was triggered. When this location coincides with a POI, the name of the POI is directly displayed, otherwise, the postal address is displayed. In case the location is not available, “---” is displayed.



2. Improved “Tachograph activity history” report

The “Tachograph activity history” report has been improved to incorporate the location of the different activities. In the case of the “Driving” activity, it indicates the start and end areas.





REPORTS

3. Improved “Door” and “Ramp” reports

With this version, the “Door” and “Ramp” reports are enriched by incorporating the total number of door and ramp opening operations in a selected period.

Door Status
Dates range: CURRENT MONTH

Overview

Number of openings in the selected period	41
Duration	05:27:00
Number of total openings	165
Duration	13:12:56

Table:

Number plate	Number of openings in the selected period	Duration	Number of total openings	Duration
	0	00:00:00	79	01:00:07
	29	03:33:27	29	03:33:27
	1	00:00:02	17	06:33:24
	11	01:53:31	11	01:53:31
	0	00:00:00	10	00:00:00
	0	00:00:00	9	00:02:37
	0	00:00:00	5	00:07:49
	0	00:00:00	4	00:02:01

4. Improved “Activity analysis” report

New option to group trips by days and maintain this grouping in the export to Excel and pdf.

Activity table
Vehicle: Date: Current month

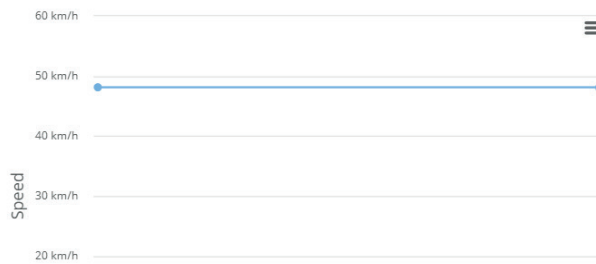
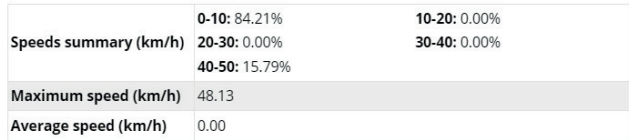
☐ See stops
☐ Group trips by days

☐ Group

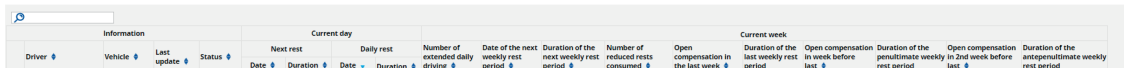
Start area	Finish area	Start date	Finish date	Total time	Initial odometer value (km)	Travel distance (km)	Time with the vehicle in motion	Drivers	Detail
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New graphs have been incorporated in the "RPM" and "Speeds" sections that allow you to see the detail and evolution of these parameters.



In order to facilitate the correction of the data on the duration of the next weekly rest period, the "Rest breaks" report now includes the duration of the last three weekly rest periods.

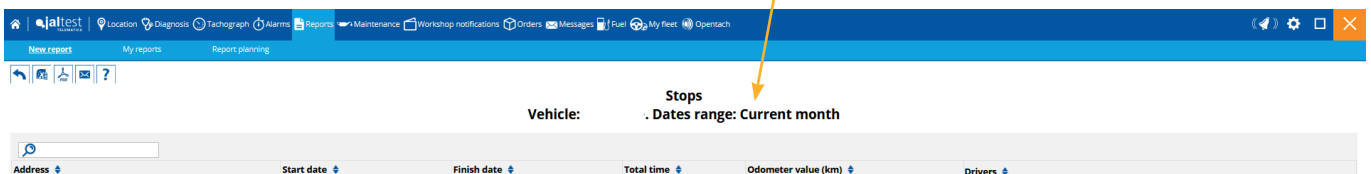
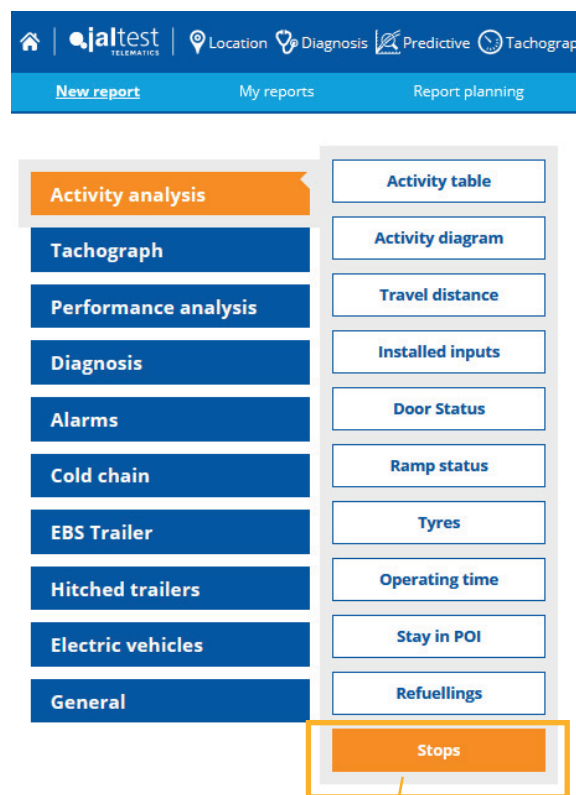




REPORTS

7. New report: Stops

A new report has been added to the "Activity analysis" section dedicated to obtaining the stops made by a vehicle in a selected period of time.





MAINTENANCE

1. New maintenance tasks

With this version, it is possible to manage new maintenance tasks mainly addressed to buses and coaches. With these maintenance tasks, it is possible to plan the maintenance of doors and ramps according to the number of operations.

New maintenance task [X]

Group
Group

Name
Name

Configuration

- ☐ Configuration by distance
- ☐ Configuration by period
- ☐ Operating hours spent between
- ☐ Number of occurrences

Engine
Engine
Brakes
Transmission
Antipollution
Electronic control units
Electrical system
General
Operating hours of cold engine
Operating hours of refrigeration system
Number of door openings
Number of ramp deployments

Hours

Enter comment

[<] [>]



This version introduces a new alarm of great interest for electric vehicles. In addition to the alarms of previous versions, with this version it is possible to generate alarms due to excessive temperature of the battery cells.

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ELECTRIC VEHICLE

2. New section for EVs in trip detail

New section in the trip detail dedicated to the electric vehicle consumption. Total consumption, consumption per distance, consumption per time and energy recovered are provided.

3. Improved “EV View” menu

With this version, the time period can be extended in the graphical representation of the SOC evolution or SOC curve.

4. Improved “Energy summary” report

The new graphical representation combines the three energies covered in the report (consumed, charged and recovered).





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