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Advanced Diagnostics System

WITH FEATURE PACK 26 - FOR SAFEPILOT, SAFEOFFSHORE AND SAFETUG

Advanced Diagnostics System – built into the Trelleborg navigation apps – turns the GPS status button into a live health check of the whole system: app, devices and cloud. A problem is visible before it becomes an incident.

Introduced with release 26.4 for SafePilot, SafeTug and SafeOffshore, it runs up to 11 automatic checks every second across navigation, connectivity and devices, and shows all connected devices together in one verdict.

Benefits

When every maneuver depends on precise navigation data, confidence starts with knowing the entire system is performing as intended. Advanced Diagnostics gives pilots and tug crews a unified view of system health across software, hardware and cloud connectivity.

For pilots and tug operators, that means trusting the data and seeing a problem instantly. For operations and technical managers, it means less downtime, faster fault-finding and fewer support calls.

With GNSS interference increasingly reported, Advanced Diagnostics System alerts users to jamming and spoofing as soon as it is detected. It also checks the license ID and battery level on every connected device.

When something changes, a second-by-second history of the last 5 minutes and a full log of changes show exactly what happened.

As the only provider delivering and supporting the complete ecosystem – app, PPU/NPU hardware and cloud services – Trelleborg can check the whole chain, giving you a single source for monitoring, troubleshooting and support.

Delivered through regular SafePilot software releases, Advanced Diagnostics System is another way your investment keeps growing in value.

Know at a glance that your whole navigation system is performing as intended – and when it isn't, locate the issue and respond across every connected device.

Features

Whole-system overview
All connected devices in one status – green, yellow or red.

Continuous checks
Up to 11 automatic checks every second.

Threat awareness
GNSS Jamming and spoofing alerts, battery checks.

Problem source visibility
Device cards and cloud services show where the problem sits, and why.

All-device control
Reboot, shut down or switch satellite systems on all devices at once.

Traceable
A full log records the whole operation from the moment the app starts.

How Advanced Diagnostics System works

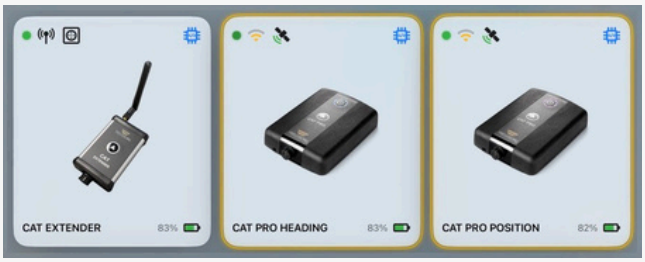
Monitor your system's status at a glance

One verdict for the whole system. The status button turns green, yellow or red, so a problem is visible without opening anything.



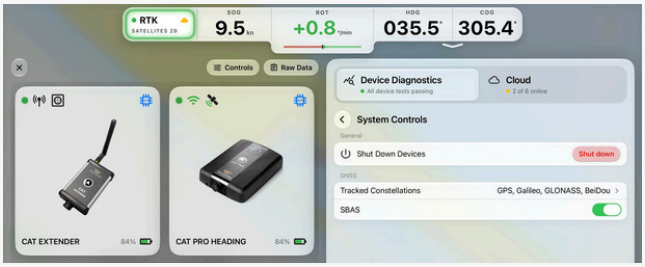
Identify the source of an issue

Device cards show where the problem sits, cloud services are listed with the reason they're offline, and alerts flag GNSS jamming and spoofing.



Act on every connected device

Reboot or shut down all devices together, switch satellite systems on all devices, and use the diagnostics history to see what happened.



ADVANCED DIAGNOSTICS SYSTEM	
Automatic checks	11 every second
Areas checked	Navigation, cloud connectivity, devices
System status	One verdict
Status button	Green / yellow / red
Device diagnostics	All connected devices together
Cloud view	All services, with reason
Threat awareness	GNSS jamming/spoofing
Device checks	Licensed ID, battery
Device control	Reboot / shut-down all
Satellite sysems	GPS / Galileo / GLONASS / BeiDou / QZSS / SBAS
History and log	Full log with diagnostics history

HOW TO GET ADVANCED DIAGNOSTICS SYSTEM

Advanced Diagnostics System is built into Trelleborg navigation apps; SafePilot, SafeTug and SafeOffshore on iPad and iPhone. Contact us to see it in action.

GET IN TOUCH

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