



GPS Jamming/Spoofing

GPS Jamming/Spoofing mitigation in Lido Navigation Solutions

The partnership

To address the growing challenge of GPS signal disruption in aviation, Lufthansa Systems has introduced a **GPS Jamming/Spoofing** detection into its Lido Navigation Solutions. Using the GPSwise detection system from SkAI Data Services, this capability is now integrated into Lido mPilot and Lido eRoute Manual. It equips pilots and airline operations teams with real-time data to detect and respond to both GPS jamming and spoofing, improving navigational safety and operational continuity.

Understanding GPS interference

GPS interference can take two primary forms: **jamming**, which blocks or degrades satellite signals, and **spoofing**, which feeds false position, altitude, or timing data into aircraft systems. Both can severely affect navigational accuracy and aircraft systems, with spoofing, in particular, leading to:

- Incorrect Flight Management System (FMS) positioning
- False Enhanced Ground Proximity Warning System (EGPWS) alerts
- Reduced Required Navigation Performance (RNP)
- Erroneous ADS-B data transmission

The result can be operational delays, rerouting, increased workload for flight crews, and in some cases, emergency diversions.

Key benefits & features



Improved situational awareness

- Pilots and dispatch teams receive timely notifications on interference hotspots, supporting faster decisions and safer navigation in affected airspace.



Cockpit and ground integration

- Detection is available directly in-flight via Lido applications, while operations teams benefit from GPSwise's web interface and daily reports highlighting impacted aircraft.



Targeted operational response

- Unlike broader airspace restrictions, the system highlights precisely affected regions, helping reduce rerouting, delays, and unnecessary diversions.

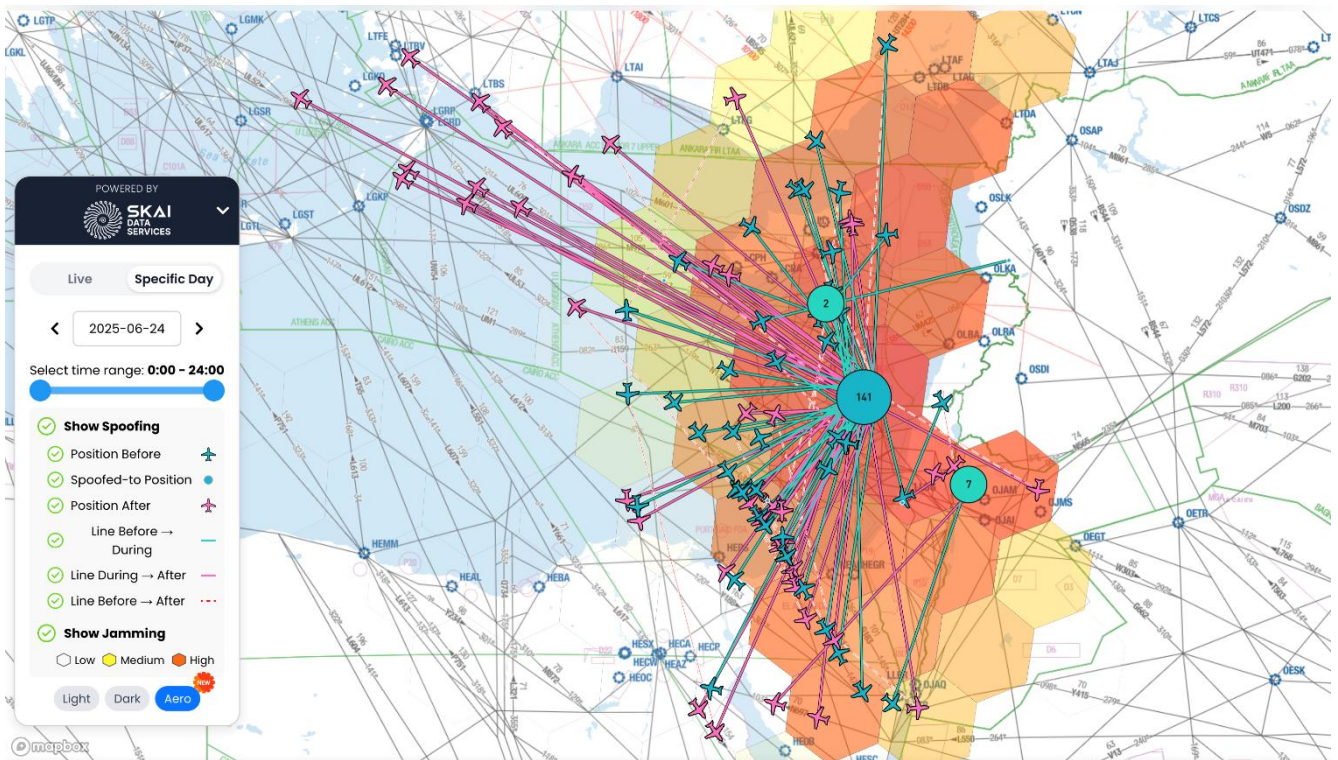


Collaborative safety innovation

- Developed in partnership with SkAI Data Services and Zurich University of Applied Sciences – Centre for Aviation, the solution supports more accurate navigation and better operational resilience.



Smart, safe operations



Screenshot of GPSwise – a live GPS spoofing and jamming tracking map.

Real-time insight in the cockpit

With GPS Jamming/Spoofing detection now embedded in Lido mPilot (iOS) and Lido eRoute Manual (Windows), pilots receive real-time GPS interference notifications within the familiar charting environment. The solution enhances situational awareness and supports in-flight decision-making, enabling faster responses to interference along the planned route.

The detection capability is based on GPSwise by SkAI Data Services, a system developed in cooperation with the Zurich University of Applied Sciences – Centre for Aviation. It analyzes live ADS-B data to identify spoofing and jamming activity in real time.

Supporting airline operations

Our GPS Jamming/Spoofing detection also extends to airline operations teams. Through the GPSwise web platform, operators can monitor spoofing and jamming events across regions and fleets, track affected aircraft, and access daily reports with actionable insights for maintenance and planning.

This end-to-end visibility improves coordination between dispatch and cockpit and reduces reliance on manual incident reporting.

Improving safety and efficiency

The integration of the GPS Jamming/Spoofing detection adds an important layer of resilience to Lido navigation solutions.

Let's fly smarter

It enables airlines to maintain more accurate situational awareness, avoid unnecessary diversions or delays, and support safer, more reliable operations in contested or congested airspace.

“This partnership reinforces Lufthansa Systems’ commitment to aviation safety and operational resilience. By equipping airlines with precise GPS jamming/spoofing detection and mitigation tools, we aim to minimize disruptions, improve navigational accuracy, and support safe flight operations.”
— **Andreas Medlhammer, Product Owner, Lido Charting Applications, Lufthansa Systems**

“Our detection solution improves situational awareness both in the cockpit and on the ground, enabling faster and more accurate responses to GPS interference.”
— **Benoit Figuet, Co-Founder, SkAI Data Services**

Deployment and access

The GPS Jamming/Spoofing detection is available in:

- Lido mPilot (iOS)
- Lido eRoute Manual (Windows)
- GPSwise Web Application for operations teams

For more information please contact marketing@LHsystems.com

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