News

Lufthansa Systems expands Lido solutions with GPS spoofing detection from SkAI Data Services

- Lufthansa Systems integrates GPS spoofing detection from SkAI's GPSwise solution into its Lido charting solutions to enhance navigational safety

- The solution provides real-time spoofing data for pilots and situational awareness tools

- This partnership helps airlines proactively respond to one of the most pressing navigation challenges: GPS spoofing

Raunheim, 8th April 2025. Lufthansa Systems collaborates with SkAI Data Services to increase flight safety by detecting and mitigating real-time GPS spoofing. The integration of the GPSwise detection solution from SkAI Data Services into the navigation solutions Lido mPilot and Lido eRoute Manual adds a new layer of protection to both airborne and ground operations. This enables pilots and airline operations teams to respond quickly and effectively to spoofing threats, ensuring greater efficiency and supporting safe, reliable flight operations.

Unlike GPS jamming, which disrupts satellite signals and causes receivers to fail temporarily, GPS spoofing actively feeds false position, altitude, and timing data into aircraft navigation systems. This can result in:

- False Enhanced Ground Proximity Warning System (EGPWS) alerts

- Flight Management System (FMS) position degradation

- Restricted Required Navigation Performance (RNP) capabilities

- Incorrect ADS-B data transmissions

These risks can lead to operational disruptions, flight delays, unnecessary rerouting, increased pilot workload, and even emergency diversions.

"Our detection solution improves situational awareness both in the cockpit and on the ground, enabling faster and more accurate responses to GPS spoofing. Airlines benefit from access to the most up-to-date information, reducing dependance on pilot reports or outdated data. By focusing only on precisely affected areas rather than entire airspaces, operational efficiency is significantly improved," said Benoit Figuet, Co-Founder SkAI Data Services.

In cooperation with the Zurich University of Applied Sciences – Centre for Aviation, SkAI Data Services developed a solution that uses real-time ADS-B data analysis to detect GPS spoofing and jamming activity. The service will be available in the Lido charting applications Lido mPilot for iOS and Lido eRoute Manual for Windows. These airborne applications provide pilots with real-time GPS spoofing information and support in-flight mitigation strategies. In addition to cockpit integration, airline operations teams are supported with access to the GPSwise web application, which highlights spoofing trends and affected

aircraft. Furthermore, SkAI Data Services generates daily email reports, highlighting spoofed aircraft within the fleet and supporting proactive maintenance and mitigation efforts.

"This partnership reinforces the commitment of Lufthansa Systems to aviation safety and operational resilience. By equipping airlines with precise GPS spoofing detection and mitigation tools, we aim to minimize disruptions, improve navigational accuracy, and enhance overall flight safety," said Andreas Medlhammer, Product Owner Lido Charting Applications at Lufthansa Systems.

Through integrating the detection service from SkAI Data Services, Lufthansa Systems expands the value of its Lido solutions and supports airlines in proactively responding to one of the most complex threats to navigation in today's airspace environment.

About Lufthansa Systems
Lufthansa Systems GmbH, the leading airline IT provider, has been shaping the future of digital aviation for almost 30 years. Helping airlines unlock their full potential, the company combines profound industry know-how with advanced technological expertise. A subsidiary of the Lufthansa Group, the company offers its more than 350 customers worldwide a portfolio with often market-leading products that cover all airline business processes – on the flight deck, in the cabin, and on the ground. Lufthansa Systems is committed to improving its own environmental footprint and that of its airline customers of all sizes and business models. Headquartered in Raunheim near Frankfurt/Main, Germany, Lufthansa Systems employs around 3,000 people at its locations in 16 countries. www.LHsystems.com

About SkAI Data Services
SkAI Data Services GmbH is an innovative provider of data-driven solutions and consultancy services for the aviation industry. Originating as a spin-off from the Zurich University of Applied Sciences, SkAI delivers state-of-the-art capabilities in GPS interference detection, mid-air collision risk assessment, and flight operations optimization. Its work in GPS jamming and spoofing detection was recognized with a fellowship from the Armasuisse Cyber-Defence Campus. By turning complex data into actionable insight, SkAI helps aviation stakeholders stay one step ahead in an increasingly challenging operational environment. https://www.skai-data-services.com/

Press Contact
Lufthansa Systems GmbH
Press Office
Mr. Ansgar Luebbehusen
Mrs. Ida Seibert
Tel.: +49 (0)69 696 90000
E-Mail: publicrelations@LHsystems.com