

## SeRo Systems Awarded EUROCONTROL Contract for 1030/1090 MHz Data Collection Services

- •Eollow-on to original contract awarded in 2020.
- •EMIT platform provides comprehensive monitoring and analysis services.

FRANKFURT, GERMANY, March 20, 2024 /EINPresswire.com/ -- SeRo Systems, a leader in air traffic surveillance security and monitoring solutions, announced today that it has been awarded a 5-year follow-on contract for spectrum monitoring services from EUROCONTROL, the civil-military



**EMIT Screenshot** 

organization dedicated to supporting European aviation.

Under this contract, SeRo will continue to provide real-time data collection and processing



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> Dr. Matthias Schäfer, managing director of SeRo Systems

services, including host/data collection, preprocessing and a user interface, for the European Monitoring of Interrogators and Transponders (EMIT) platform. Developed by SeRo in 2020, EMIT provides comprehensive monitoring services, collects and manages the vast amount of data from the Europe-wide ground network of 1030/1090 MHz receivers, and combines the data feeds into a single feed. The system also processes the data, enabling automated detection and analysis of surveillance anomalies.

"We are honored to extend our partnership with EUROCONTROL to continue delivering critical spectrum

monitoring services that enhance airspace safety and efficiency," said Dr. Matthias Schäfer, managing director of SeRo Systems. "This contract leverages SeRo's decade of experience in Big Data, high TRL surveillance data collection, and processing architecture, to help detect and

analyze threats, including spectrum congestion or equipment malfunction. SeRo is committed to developing solutions that make air surveillance more secure and robust for stakeholders in Europe and around the world."

"This system and SeRo have been important parts of our efforts to uphold the integrity of the CNS infrastructure and reduce spectrum



congestion in our airspace," added Petr Jonáš, EUROCONTROL ATM/CNS Expert. Since 2020, EMIT has helped the European air traffic surveillance community not only monitor and manage frequency congestion but also detect and investigate incidents as well as avionics, transponder, and ground radar issues."

Since its launch, EMIT has collected an impressive 3.15 trillion signals and boasts a growth rate of nearly 5 billion signals per day. Its capabilities include processing 90,000 signals per second during peak traffic hours, ensuring comprehensive monitoring and automated detection of anomalies within the European surveillance infrastructure. SeRo's proprietary deduplication algorithm ensures precise data analysis, while features such as online analysis, data archiving, and sensor operations monitoring enhance the system's effectiveness and usability.

## About SeRo Systems

Headquartered in Frankfurt, Germany, SeRo Systems provides technology and engineering expertise to monitor and ensure the security and safety of air navigation and surveillance services and enforce spectrum and regulatory compliance. We design advanced passive air traffic surveillance sensors and operate a sensor network that collects ADS-B and spectrum data from commercial and military aircraft in the US and Europe. For more information about SeRo's innovative solutions, visit <a href="https://www.sero-systems.de">www.sero-systems.de</a>.

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