

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 www.sero-systems.de.

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