

Enhanced surveillance data monitoring for Icelandic airspace

Frequentis Comsoft increases reliability and accuracy of surveillance data for Isavia Air Navigation Services (ANS)

Isavia ANS, Iceland’s Air Navigation Service Provider, has selected Frequentis Comsoft to upgrade its radar data monitoring system (RMD) to the latest solution, RAPS-SMD, which will enable further accurate monitoring of surveillance data, including ADS-B and WAM, and improve the air situation picture.

The reliability and accuracy of surveillance data is critically important for safe and efficient air traffic management (ATM). Air traffic situation in Iceland is provided by both radar and a country-wide ADS-B network, provided by Frequentis Comsoft Quadrant sensors. Losing access to surveillance data in one section of airspace can significantly reduce air traffic control (ATC) capacity. It is also important to have early knowledge of any issues which could negatively affect the quality of data provided to controllers to allow preventative measures; either excluding problematic data sources or activating alternative ones.

“The flight information region of Iceland is vast, and we have increased surveillance accuracy with ADS-B. It is therefore important that we have a state-of-the-art monitoring and analysis tool to exchange and make optimal use of all available sensor data for a seamless, accurate and reliable air situation picture. Having trusted the previous Frequentis Comsoft system, we were confident that the upgraded solution would continue to meet the needs of our service.”, says Arnar Thorarinsson, Manager ATM Systems, Isavia ANS.

Frequentis Comsoft has been working with Isavia ANS since 2013, equipping Iceland with Quadrant sensors to provide additional ADS-B coverage for the country and support a transatlantic surveillance corridor. The project also won the ATC Janes award in the enabling technology category. The company also provided Isavia with the next generation of surveillance distribution system (SDDS-NG) and the EUROCONTROL ARTAS surveillance data tracker. The latest upgrade has met all of the specific requirements of Isavia ANS, providing best performance and functionality.

“Our solution provides Iceland with real-time sensor observation combined with continuous technical recording, automated data export and offline post-event analysis. This enables increased accuracy and improved evaluation. It is great to be working with Isavia ANS again, supporting their goals for enhanced airspace surveillance.”, says Thomas Hoffman, Managing Director Frequentis Comsoft.

The RAPS-SMD is part of the RAPS product family and has a graphical front-end for technical and detailed display of the air situation, based on real time or replayed data, including target and service messages in ASTERIX format. In real-time mode it computes and presents targets from radar sensors, trackers, ADS-B receivers, multilateration (MLAT) systems, and is able to plot/track the air situation picture (ASP), and display and compare multiple surveillance sources simultaneously, as selected by the user. The data on up to 64 communication channels are observed in real-time in order to produce user notification and alarming in case of important critical events in the surveillance infrastructure.

About FREQUENTIS

Frequentis, headquartered in Vienna, is an international supplier of communication and information systems for control centres with safety-critical tasks. Such 'control centre solutions' are developed and marketed by Frequentis in the business sectors Air Traffic Management (civil and military air traffic control, air defence) and Public Safety & Transport (police, fire brigade, ambulance services, shipping, railways). As a global player, Frequentis operates a worldwide network of branches, subsidiaries and local representatives in more than 50 countries.

Products and solutions from Frequentis can be found in over 30,000 operator working positions and in approximately 140 countries. Founded in 1947, Frequentis considers itself to be the global market leader in voice communication systems for air traffic control with a market share of around 30%. In addition, the Frequentis Group's AIM (aeronautical information management) and AMHS (aeronautical message handling) systems, as well as GSM-R systems for Public Transport are industry leading global solutions.

The shares of Frequentis AG are traded on the Vienna and Frankfurt Stock Exchange under the ticker symbol FQT (ISIN: ATFREQUENT09). In 2019, the Frequentis Group had about 1,850 employees worldwide and generated revenues of EUR 303.6 million and EBIT of EUR 17.2 million.

About FREQUENTIS Comsoft

Frequentis Comsoft was founded by Frequentis in 2016 from major assets of the previous Comsoft GmbH, established in 1979. Its expertise covers a vast proportion of the modern ATM industry.

The Frequentis Comsoft team is also a turnkey integrator of the EUROCONTROL ARTAS systems offering a comprehensive and field-proven ARTAS service portfolio to Air Traffic Service providers within EUROCONTROL member states but also world-wide.

For more information, please visit www.frequentis.com

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