
Frequentis Comsoft integrates space-based ADS-B data into Isavia's surveillance infrastructure

Isavia ANS, Iceland's Air Navigation Service Provider, selected Frequentis Comsoft to integrate its space-based ADS-B surveillance data sources with the ground-based infrastructure consisting of radars, ADS-B ground stations and multilateration.

Isavia ANS announced on February 16th that it had successfully implemented a space-based ADS-B system in their 5.4 million square kilometers of controlled airspace. The addition of space-based ADS-B to Isavia ANS' current surveillance capabilities extends Isavia's current ground-based air traffic surveillance framework, focusing on enhancing the real-time air traffic surveillance in the North-Atlantic surveillance corridor connecting Europe and North America to all customers.

Frequentis Comsoft has provided surveillance data quality analysis and tracker tuning services for the integration of space-based ADS-B surveillance data feeds into Isavia ANS' main surveillance data processing system (SDP), the EUROCONTROL ARTAS tracker. This extension of Isavia ANS' surveillance infrastructure enlarges surveillance coverage and closes coverage gaps both over Greenland and the Atlantic Ocean.

"We have worked with Frequentis Comsoft for many years, trusting their expertise in surveillance. We are pleased to now be able to further increase the quality of our surveillance data to support the demands of our airspace," says Arnar Thorarinsson, Manager ATM Systems, Isavia ANS.

Isavia ANS current configuration, based on ground-based ADS-B sources in Iceland, Greenland, and Faroe Islands, radar sources in Iceland and multilateration network, provided by Frequentis Comsoft Quadrant sensors, was the starting point of the work. The reliability and accuracy of surveillance data is critically important for safe and efficient Air Traffic Management (ATM) because losing access to surveillance data in one section of airspace can significantly reduce Air Traffic Control (ATC) services. Surveillance data quality analysis performed by Frequentis Comsoft has ensured the reliability and accuracy of the new surveillance data for the Reykjavik Control Area as well as the correct transmission characteristics. An iterative tuning approach for the EUROCONTROL ARTAS tracker has been followed to achieve the integration of the combined set of surveillance data sources into one seamless and enlarged air situation picture. The resulting EUROCONTROL ARTAS service meets the requirements of the EUROCONTROL Specification for ATM Surveillance System Performance (ESASSP) standard.

“Frequentis Comsoft provides surveillance data quality analysis and tracker tuning services for the integration of the ADS-B data feeds,” says Thomas Hoffman, Managing Director Frequentis Comsoft. “We have been working with Isavia ANS since 2013 and we are pleased to again be supporting their goals for increased surveillance of their airspace. The latest upgrade has met all Isavia ANS specific requirements, providing best performance and functionality.”

About Isavia ANS

Isavia ANS, Iceland’s Air Navigation Service Provider (ANSP), provides air navigation services for domestic and international flights in the Reykjavik Control Area and at Icelandic airports. Isavia ANS provides air navigation services that span the North Pole to Scotland, and from the Greenwich Meridian in the east to west of Greenland. Over a quarter of all air traffic crossing the North Atlantic passes through the Isavia ANS’s managed Reykjavik Control Area, where customers enjoy flexibility with regard to flight routing and altitudes.

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

In 2016, Frequentis Comsoft joined the Frequentis Group as its competence centre for AMHS, AIM, surveillance technologies and ATM systems. Frequentis Comsoft provides software-centric solutions covering the complete surveillance data chain: from sensors to distribution to processing to display.

For more information, please visit www.frequentis.com

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