
Finland transforms air traffic surveillance with FREQUENTIS' highly resilient Wide Area Multilateration system

Finland set to operate world's largest Wide Area Multilateration (WAM) system with network of 120 ground stations

Fintraffic Air Navigation Services (ANS) Ltd, the Finish Air Navigation Service Provider, has enhanced its air traffic surveillance capability with a WAM system from Frequentis Comsoft. The company installed its state-of-the-art Quadrant system to provide WAM and [ADS-B \(automatic dependent surveillance - broadcast\)](#) coverage for 80 per cent of the Finnish airspace.

Providing a high-quality air situation picture with highly accurate aircraft position measurements and high update rate, the WAM system extends the air traffic surveillance capability for Fintraffic ANS., as well as creating a Mode S airspace (S = selective communication with individual aircraft), improving aircraft identification, situation picture and tracking. The south-western WAM region, including Helsinki, was put into operation in the first quarter of 2022, with air traffic controllers said to be delighted about the surveillance performance and extended system coverage. Remaining WAM regions are planned to put in operation early 2023.

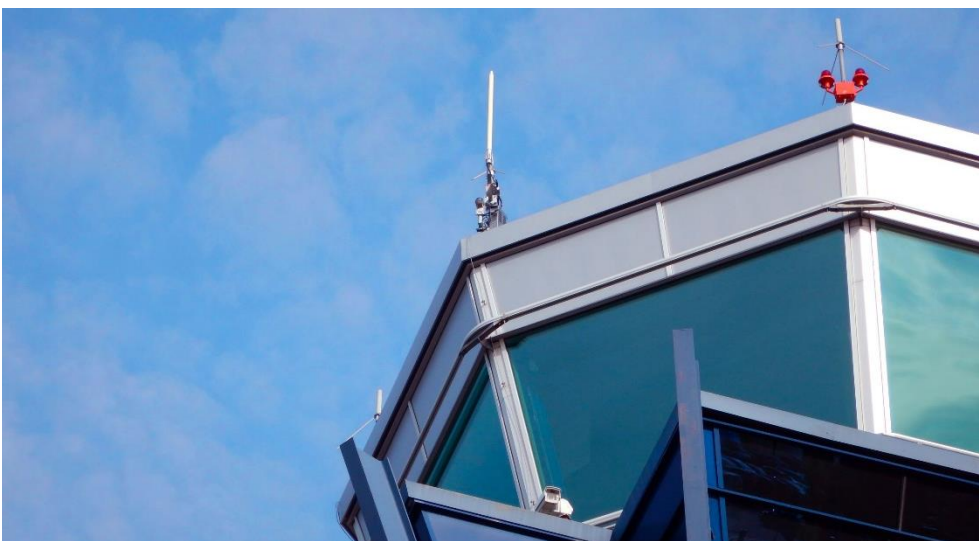
“Putting the Quadrant WAM system into operation marks a major milestone for Fintraffic ANS, contributing to transforming the Finnish airspace into full Mode S Enhanced Surveillance while extending coverage. Excellent quality, high update surveillance data integrates seamlessly with our trackers. The robust Frequentis Comsoft Quadrant ground stations, with their minimal maintenance needs, are the perfect fit for our environment with many remote locations inaccessible during winter months,” said Tero Alastalo, SUR System Manager, Fintraffic ANS.

The WAM deployment consists of more than 120 Quadrant ground stations, assigned to three regions ranging from the Baltic Sea to Northern Lapland.

“We are proud to support Fintraffic ANS in modernising surveillance across Finnish air space with our Quadrant WAM system. With this WAM system from Frequentis Comsoft we have helped them prepare for new demands on their service, providing extended surveillance capabilities while improving safety and service quality,” added Constantin von Reden, Managing Director Frequentis Comsoft.

Nordic Finland has a population of 5.5 million, yet passenger numbers are almost five times that number, with close to 25 million passengers reported in 2018 and 26 million in 2019, thanks to increasing tourism. Helsinki airport alone managed almost 22 million passengers in 2019.

The system provides WAM service for the Finnish Flight Information Region (FIR), from 6000ft above sea level, and additional lower airspace coverage for 19 airport areas. ADS-B service is provided for the FIR, and for airports to ground level. The system design provides high resilience, assuring continuous WAM service. Helsinki FIR and airport are designed with N-2 ground station redundancy.



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About Fintraffic ANS

Fintraffic facilitates mobility on the land, in the air and at sea. We help people and goods get where they are going, safely and smoothly while caring for the environment. Smart traffic management services, digital services for consumers and businesses, and real-time traffic data are helping Finland become a pioneer in sustainable transport and logistics. We employ 1,100 professionals.

Fintraffic ANS provides the en-route services as well as aerodrome control services and approach control services for 22 airports in Finland. En-route services include area control services in Finland, airspace management, aeronautical search and rescue and air traffic flow management. Company is also responsible for providing air navigation technological services.

About FREQUENTIS

Frequentis, headquartered in Vienna, is a global 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 40,000 operator working positions and in more than 150 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 dispatcher working positions for Public Transport are industry leading solutions.

The shares of Frequentis AG are traded on the Vienna and Frankfurt Stock Exchange under the ticker symbol FQT (ISIN: ATFREQUENT09). In 2020, the Frequentis Group generated revenues of EUR 299.4 million and EBIT of EUR 26.8 million. Following the transaction with L3Harris, the number of employees is around 2,100. For more information, please visit www.frequentis.com.

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