
FREQUENTIS and UAE's GCAA announce major undertaking towards trajectory-based operations

- **Frequentis and GCAA are collaborating to support the global implementation of trajectory-based operations (TBO) in air traffic management**
- **TBO represents a step towards more efficient aviation, improving airspace utilisation, and reducing environmental impact**
- **GCAA is setting the standard as a global reference in TBO implementation, positioning the UAE at the forefront of air traffic management innovation**

During Dubai Airshow 2025, the General Civil Aviation Authority (GCAA) of the United Arab Emirates (UAE) and Frequentis proudly announced their collaboration on the flight information validation and exchange (FIV-X) system. This project lays the foundation for TBO and positions the UAE as a leader in the global shift towards future-ready air traffic management.

"The FIV-X system is a major milestone in our efforts to modernise air traffic management," says Mr. Ahmed Ibrahim Al Jallaf, Assistant Director General for the Air Navigation Sector GCAA. "It is an important step toward ensuring UAE's leadership in aviation, both regionally and globally. By enabling more efficient, collaborative operations, FIV-X will help us deliver safer, smarter, and more sustainable air traffic management for the future."

TBO is a transformative concept that changes the way flights are managed. By moving beyond traditional sector-based control, it introduces collaborative decision-making based on four-dimensional trajectories. This improves predictability, reduces fuel use and emissions, and enhances safety and efficiency across the entire flight lifecycle.

"The FIV-X project is more than a technology initiative," says Josef Kutschi, Managing Director at Frequentis Comsoft. "TBO marks a significant shift in the industry, strengthening regional aviation infrastructure and showing how global partnerships can turn vision into reality. Frequentis is proud to support GCAA in shaping the future of air traffic management."

To support this shift, FIV-X will be integrated with the UAE's existing aeronautical information management (AIM) system awarded to Frequentis last year. Together, they form a strong foundation for smarter, more connected air traffic operations and pave the way for future capabilities that support even more efficient skies.

About FIV-X and FF-ICE/R1

FIV-X enables the implementation of flight and flow information for a collaborative environment release 1 (FF-ICE/R1) by introducing services such as flight plan filing and data requests. Based on system-wide information management (SWIM) principles, it ensures real-time, accurate information sharing between aviation stakeholders. Integrated with the AIM system, FIV-X forms the backbone of FF-ICE/R1 and supports future capabilities like demand/capacity balancing (DCB).

About FREQUENTIS

Frequentis stands for a safer world. Our solutions are used in our customers' command and control centres to help them make the world safer.

Frequentis is a world leader in high-tech solutions for Air Traffic Management, supporting both civil and military air traffic control organisations, as well as Public Safety and Transport, where police, emergency rescue services, fire brigades, railways, coastguards, and port authorities rely on our extensive portfolio.

The listed family business based in Vienna, Austria, drives innovative and sustainable solutions for safety and security in everyday life and in the safety-critical sector. Its air traffic optimisation solutions for air traffic control centres are contributing to reducing emissions.

As a global player with more than 2,500 employees (full-time equivalents/FTE), Frequentis has a worldwide network of companies in over 50 countries. Its products, services, and solutions are used in around 150 countries. Shares in Frequentis are traded on the Vienna and Frankfurt stock exchanges; ISIN: ATFREQUENT09, WKN: A2PHG5. In 2024, revenues were EUR 480.3 million and EBIT was EUR 32.1 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 a major part of the surveillance data chain: from distribution to processing to display.

For more information, please visit www.frequentis.com

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