

FREQUENTIS SINGAPORE PTE LTD



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FREQUENTIS

Any Drone | Any Airspace | Any Time



Prioritising Safety in Unmanned Aircraft System Traffic Management

With over 75 years of cross-industry experience, Frequentis Air Traffic Management (ATM) ensures the safety of 95% of the world's passengers and aircraft, helping Air Navigation Service Provider (ANSP) worldwide efficiently deliver safer and more secure capacity for airspace users. Frequentis has been working with Nordic and Baltic stakeholders on the SESAR Gulf of Finland (GOF) U-space and GOF 2 projects, exploring the safe integration of drones, trial and validating use cases in line with the European U-space regulatory framework.

The ability to manage crewed and uncrewed traffic in shared airspace is becoming increasingly complex due to the rapid growth in drone use cases. The primary concern here is the safe integration. A factor of high importance is the seamless information exchange between all stakeholders and procedures to ensure safe separation between drones and manned aircraft. For this, organisations must enhance their technological capabilities so that they can introduce drones both safely and efficiently. This has required the development of new technologies.

Safeguarding shared airspace with accelerated drone management

Both the aviation industry and drone users must adopt innovative technologies to ensure safe and fair access to the skies. To successfully operate drones, an organisation will need systems for voice and



data communications, and uncrewed traffic management (UTM).

Frequentis has created a UTM suite of systems that support secure data exchange and access to UTM services. It facilitates a common information services (CIS) environment for all uncrewed aviation

stakeholders.

The Frequentis UTM suite is available as a user-friendly and interactive mobile app and web portal, consisting of the UTM Operation Manager and the UTM Airspace Manager applications. The UTM Operation Manager caters to both business and private drone operators, providing a comprehensive suite of features designed to enhance airspace safety, and efficiency. The UTM Airspace Manager is an application used by Air Traffic Controllers (ATCO) to manage drone traffic within their area of responsibility.

With a secure open protocol, seamless data exchange between all relevant stakeholders, including government authorities, entrepreneurs, ATCOs, and drone operators can be ensured. A standout feature of the system is the drone map, which provides valuable insights into permanent and temporary flight restriction zones, permitted flight altitudes, flight registrations, airspace monitoring, and the ability to request flight plan approvals and take-off clearance. The interactive tools, accessible through the website and mobile app, ensure that drone operators have a comprehensive understanding of their operating environment, further enhancing safety and situational awareness.