

## **FREQUENTIS predicts a converged UTM/ATM**

**The primary concern with integrating unmanned traffic management (UTM) and air traffic management (ATM) is safety and ensuring manned aviation, as well as persons and property on the ground are not negatively affected. The key to solving this is enabling timely and high-quality information sharing between ATM and UTM, and the ability to communicate real-time, addressing the challenge of integrating drones in the vicinity of an airport.**

Frequentis believes that by considering existing ATM systems, already widely deployed by Air Navigation Service Providers (ANSPs) around the world, and using established standards, the transition risks for ANSPs will be minimised.

“We are aware many of our customers are concerned about the growing number of drones that want to fly legally in protected or controlled airspace. The need to safely integrate these unmanned aircraft is essential. Our tested and proven ATM solutions form the basis for a converged UTM and ATM system and with the right partner ecosystem, ANSPs reduce the risk of opening up the airspace to new entrants.” states Jan Ziegler, Frequentis Head of New Business Development UTM.

Frequentis was selected to present its concept at the International Civil Aviation Organisation’s (ICAO) second drone enable symposium in Chengdu China in mid-September, with Frequentis Director of Strategic Marketing, Markus Klopff, suggesting key factors that would ensure its success. Firstly, a SWIM (system-wide information management)-based data sharing platform would enable the creation of a safe and secure connection layer for ATM, UTM and other stakeholders, such as airport, police, or search-and-rescue agencies. Secondly, by combining the strengths of a UTM platform with widely utilised digital ATM solutions like electronic flight strips and aeronautical message handling systems, real-time communication between drone operators and air traffic controllers could be facilitated.

Frequentis formed a strategic partnership with Altitude Angel, the global company defining UTM, in March 2018, in order to connect ATM to UTM and pave the way for safer use of unmanned aircraft systems (UAS); allowing them to safely co-exist in the shared airspace. Altitude Angel’s Airspace Management Operating System, GuardianUTM, covers over 80 countries and is a key component of its autonomous drone navigation system.

Frequentis will be presenting its drone management solution at ATCA in Washington, DC, September 30 - October 3, 2018 at booth 329.

Caption 1: optional, if picture enclosed

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## About Altitude Angel

Altitude Angel is an aviation technology company delivering solutions that enable the safer integration and use of fully automated drones into airspace. Through its Airspace Management Operating System, GuardianUTM, they deliver the essential software 'building-blocks' that enable national deployments of U-Space compatible services. GuardianUTM's foundation components are also available to enable third-party UTM developers to incorporate enterprise-grade data and services into their UTM solutions. Altitude Angel was founded by Richard Parker in 2014 and is headquartered in Reading, UK.

<https://www.altitudeangel.com/>

## About FREQUENTIS

Frequentis is an international supplier of communication and information systems for control centres with safety-critical tasks. These control centre solutions are developed and distributed by Frequentis in the business segments Air Traffic Management (civil and military air traffic control, and air defence) and Public Safety & Transport (police, fire and rescue services, emergency medical services, vessel traffic and railways). Frequentis maintains a worldwide network of subsidiaries and local representatives in more than fifty countries. The company's products and solutions are behind more than 25,000 operator positions in almost 140 countries. With this extensive portfolio, Frequentis is the leading provider of voice communication systems... all making our world a safer place every day!

For more information, please visit [www.frequentis.com](http://www.frequentis.com)

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