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## **FREQUENTIS and LVNL extend integrated tower solution at Amsterdam Schiphol airport**

- **Dutch Air Navigation Service Provider, LVNL, adds Frequentis' unified data exchange platform to increase efficiency, flexibility, and redundancy of its tower applications**
- **Frequentis' MosaiX digital platform breaks down operational silos, integrates voice and data applications, and embeds a cyber security layer**

“The Frequentis state-of-the-art ATM platform, MosaiX, for Amsterdam Schiphol airport tower has laid the foundation for more organised data exchange between applications through the MosaiX service bus. It also simplifies the integration of future applications,” says Marcel Bakker, General Manager Systems & Infrastructure at LVNL. “The implementation of MosaiX was one of the largest releases in recent times in the tower domain, yet the operation was managed without any disruption.”

LVNL, the ANSP of the Netherlands, has been completing a tower modernisation program with Frequentis since 2017 to modernise its end-to-end tower infrastructure, starting with replacing paper flight strips with an Electronic Flight Strips System (EFSS), the Frequentis smartSTRIPS system.

“Air traffic control is a fast-changing, dynamic environment that requires agility from all organisations – that’s what we are achieving in our partnership with LVNL, in this highly cooperative relationship that allows us to continually learn from each other and drive ongoing improvement,” says Hannu Juurakko, Frequentis Executive Vice President ATM Civil and Chairman of the Frequentis ATM Executive Board. “With the implementation of MosaiX we have enabled LVNL to provide more organised data exchange between applications, as well as to simplify the integration of future applications.”

The EFSS is the first tower application to run on MosaiX and is now hosted on a redundant cluster of servers, which will accommodate other applications, including ATIS (Automatic Terminal Information Service), DMAN (Departure Manager), SMAN (Surface Manager) and Safety Nets. This architecture has the advantage of requiring less hardware and will reduce annual power consumption by maximising the number of applications running on a minimal number of servers. Another important advantage is the triple redundancy, which ensures high availability of the applications.

The next important step towards a comprehensive, automated, and fully integrated tower suite will be the introduction of the DMAN around the middle of 2024.

Meet us at Airspace World in Geneva, stand F17, 8-10 March 2023.



Amsterdam Schiphol Tower © LVNL

## About LVNL

Aviation connects the Netherlands with the world. For over 90 years, LVNL has been ensuring safe air traffic flows, in a professional and competent manner.

Provision of air traffic services is the core activity of LVNL. All other tasks of LVNL are also laid down in the Aviation Act. These include modernisation and management of technological systems, providing aeronautical information and air traffic control training and providing aeronautical maps and publications.

For civil air traffic control matters, LVNL is the link between the government and all other parties involved in air traffic control. The aim is to design air traffic control as effectively as possible with all stakeholders, with a balance between safety, efficiency, and the environment and with full attention to quality.

## About FREQUENTIS

Frequentis is a global supplier of communication and information systems for control centres with safety-critical tasks. The listed family company develops and markets its “control centre solutions” in the Air Traffic Management segment (civil and military air traffic control, air defence) and the Public Safety & Transport segment (police, fire brigades, emergency rescue services, coastguards, port authorities, railways). With a market share of 30%, Frequentis is the world market leader in voice communication systems for air traffic control. Frequentis is also the global leader in aeronautical information management and aeronautical message handling systems.

As a global player with around 2,000 employees (full-time equivalents/FTE), Frequentis has a global network of companies in over 50 countries; its head office is in Vienna, Austria. Frequentis’ products, services, and solutions are used in more than 40,000 operator working positions in around 150 countries. Shares in Frequentis are traded on the Vienna and Frankfurt stock exchanges; ISIN: ATFREQUENT09, WKN: A2PHG5. In 2021, revenues were EUR 333.5 million and EBIT EUR 29.0 million.

Wherever Frequentis’ systems are used, safety-critical operators bear responsibility for the safety of other people and goods. The company also works towards a more sustainable future through its air traffic optimisation solutions.

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

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