
Artificial Intelligence to optimise Saudi Arabian air traffic management

- **Frequentis and Saudi Air Navigation Services (SANS) have been exploring potential operational efficiency gains through digital and data operations analysis**
- **Aim is to develop modifications and a technology strategy to enhance a set of objectives including safety, efficiency, and punctuality, to increase airspace throughput**
- **Planning, tactical, engineering, and operational procedures were analysed for workflow enhancements**
- **Project will support grand vision for Saudi Arabian aviation sector growth**

Frequentis Control Room Consulting (CRC) was selected by SANS to explore how data analytics can be utilised in order to optimise and enhance its air traffic management (ATM) to meet the Saudi Arabian aviation sector growth strategy. Through collaborative workshops and system maturity assessments, teams from Frequentis and SANS identified workflow inadequacies and information deficits at key decision points.

“It was a pleasure to work with SANS engineers and ATM professionals as part of our joint engagement to explore modernising Saudi Arabian ATM data and analytics platforms. Together, the Control Room Consulting team and SANS analysed the data science methods that will improve the quality and timing of decisions,” says Josef Kutschi, Managing Director Frequentis Middle East.

A series of workshops, led by Frequentis principal data scientists and consultants, along with SANS strategy, operations, and engineering departments, provided recommendations and a data technology modernisation strategy for the upcoming years. The workshops followed CRC’s unique methodology to bring lean management into control rooms, securing information flows to ensure the best decision quality for systems.

The intention is to achieve operational efficiency gains in support of the Saudi Arabian grand vision for aviation sector growth.

“The accelerated expansion of Saudi air traffic has exerted new challenges on SANS requiring us to look at our processes and the ways we can increase airspace throughput while maintaining safety. Activating operational analytics is an exciting project we have enjoyed working on with Frequentis experts, which has presented many possibilities for unlocking efficiency gains to enable our growth strategy. Through the employment of a modernised approach and technology set for air navigation

services, operational analytics and data science workloads can be enhanced,” says Ahmad Al Zahrani, Chief Strategy Officer SANS.

About FREQUENTIS Control Room Consulting

Frequentis control room consulting bridges the gap between user experience and technical set-up.

Today's highly automated world demands innovative approaches for successful solutions. Integrated teams excel in such an environment. By adding Frequentis consulting services to improvement initiatives, we support our customers in everything from optimising their demands to the non-disruptive integration of new features and functionality into their production environments.

Based on Frequentis' deep knowledge in safety-critical environments in various domains, Frequentis consulting services offer the required support by drawing on decades of experience in designing, specifying and delivering safety-critical solutions, ensuring maximised productivity, a safe technological environment, satisfied users and an evergreen approach within all phases of the customer's control-room lifecycle.

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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, railways, coastguards, port authorities). 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 2,200 employees (full-time equivalents/FTE), Frequentis has a global network of companies and representatives in more than 50 countries. Its head office is in Vienna, Austria. Frequentis' products, services, and solutions are used at more than 45,000 operator working positions in around 150 countries. Shares in Frequentis are traded on the Vienna and Frankfurt stock exchanges; ISIN: ATFREQUENT09, WKN: A2PHG5. In 2022, revenues were EUR 386.0 million and EBIT was EUR 25.0 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

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