FREQUENTIS ORTHOGON SUPPORTS THE AIRPORT OPERATIONS PLAN WITH ITS DEMAND CAPACITY BALANCER SOLUTION

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The solution provides a powerful digital twin of the airport operations to make it more efficient and resilient to disruptions.

The Demand Capacity Balancer (DCB) extends the airport operations planning horizon by accurately forecasting demand, capacity and performance metrics. It bridges the gap between strategic, pre-tactical and tactical planning by replacing the conventional scheduled-based planning with a rolling Airport Operations Plan (AOP).

DCB enables information sharing and integration with the Network Operations Plan (NOP), for example through its unique capability to calculate and automatically propose Target Times of Arrival (TTA). By extending the current planning of airport collaborative decision-making (A-CDM) it will improve the efficiency and resilience of airport operations by optimising the use of resources which will improve the predictability. This supports the AOP implementation in accordance with the ACI “Ground Coordinator” concept and in compliance with the Common Project One (CP1) regulation and SESAR deployment in Europe.

Frequentis Orthogon partnered with NATS and successfully deployed the solution for London Heathrow Airport, where it has been in operation since 2017. DCB combines real-time data, analytics results and advanced simulation capabilities to enable scenario-based planning and

aids effective collaborative decision making. It supports the airport operational stakeholders how to respond in both real-time and pre-planning scenarios to improve operational decision-making and airport performance.

DCB predicts individual flight arrival times using global data coverage that encompasses the influence of operational and weather conditions. It allows for a more effective resource allocation, associated with time and cost savings for managing the operational resources and hence significantly reducing overall OPEX. Its integrated TTA capability enables airport operators to become a proactive partner of the network to improve punctuality, reduce operating costs, including for airlines, and to improve passenger satisfaction.

“We are pleased to be providing a key solution that supports the implementation of both the Initial and the Extended AOP in compliance with the CP1 regulation in Europe. Results from the DCB deployment in Heathrow showed a considerable reduction of delays by complementing conventional ATFM regulations. As we look towards aviation recovery, this is a fundamental way that airports can increase efficiency, cost effectiveness and sustainability through reduced CO2 emissions,” says Frank Köhne, Managing Director Frequentis Orthogon.

About FREQUENTIS Orthogon

Frequentis acquired Orthogon in 2021. The company was founded in 1987 and is headquartered in Bremen, Germany. The company specialises in traffic optimisation solutions, traffic flow management, and visualisation solutions for air traffic management (ATM), air traffic control (ATC), and airports. Its international customer base includes system integrators, air traffic control organisations, and airports.

For more information on Orthogon, please visit www.frequentis-orthogon.com

About FREQUENTIS

Frequentis, headquartered in Vienna, is a global supplier of communication and information systems for control centres with safety-critical tasks. Such ‘control centre solutions’ are developed and marketed by Frequentis in the business sectors Air Traffic Management (civil and military air traffic control, air defence) and Public Safety & Transport (police, fire brigade, ambulance services, shipping, railways). As a global player, Frequentis operates a worldwide network of branches, subsidiaries, and local representatives in more than 50 countries. Products and solutions from Frequentis can be found in over 40,000 operator working positions and in more than 150 countries.

Founded in 1947, Frequentis considers itself to be the global market leader in voice communication systems for air traffic control with a market share of around 30%. In addition, the Frequentis Group’s AIM (aeronautical information management) and AMHS (aeronautical message handling) systems, as well as GSM-R dispatcher working positions for Public Transport are industry leading solutions.

The shares of Frequentis AG are traded on the Vienna and Frankfurt Stock Exchange under the ticker symbol FQT (ISIN: ATFREQUENT09). In 2020, the Frequentis Group generated revenues of EUR 299.4 million and EBIT of EUR 26.8 million. Following the transaction with L3Harris, the number of employees is around 2,100.

For more information, please visit www.frequentis.com

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