FREQUENTIS DFS
AEROSENSE

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Denmark's Naviair to tackle airspace efficiency and service provision with integrated remote tower and approach centre from FREQUENTIS DFS AEROSENSE

Frequentis Remote Tower has already been selected by seven countries worldwide

Naviair, the Air Navigation Service Provider (ANSP) of Denmark, has selected an integrated remote tower and approach system from FREQUENTIS DFS AEROSENSE, in order to manage increasing airspace demand and support the workload of Air Traffic Control Operators (ATCOs).

"Naviair will initially establish a remote tower center at Billund Airport, to manage surrounding air traffic, with the intention to provide central air traffic control (ATC) to other regional airports, instead of locally from individual airports. Locating all ATCO's in the same facility will allow for controller working environment and flexibility to be improved. We are looking forward to working with Frequentis DFS Aerosense on this project", says Carsten Fich, CEO, Naviair.

The integrated tower and approach centre is a combination of a remote digital tower (RDT) and an approach automation solution (PRISMA APP). This is the first time that both digital tower and approach services have been combined as one integrated system. The solution for Billund, Denmark's second largest airport, will include high resolution panorama view and pan tilt zoom (PTZ) cameras based on visual and infrared sensors as well as automatic object detection to increase the ATCO's situational awareness.

"The Frequentis remote digital tower solution is already widely deployed and used operationally, providing air traffic controllers with advanced visual surveillance.", says Hannu Juurakko, Frequentis Vice President ATM Civil. "Adding automation and approach integration will allow better decision making, reduce controller workload and increase safety. If capacity demands are going to be met and safety levels maintained, working smarter and providing technology to support ATCOs is key."

The centre will be multi-remote tower ready, meaning further airports wanting to obtain the benefits of RDT can be added in future. This will offer ATCO's the advantage of additional tools to increase efficiency safely, as well as valuable work experience on a level with larger airports. It also offers airport owners great efficiency gains. An additional benefit of the system is the ability to add military airports.

The approach solution, based on PRISMA, is designed to autonomously process flight plan data and surveillance data for air traffic services (ATS). This includes Safety Net functionality such as short-term conflict detection, area proximity warnings and minimum safe altitude warnings, all designed to assist the ATCO with optimal situational awareness.

The control centre is expected to be operational in Billund in 2022.

About Naviair

Naviair provides safe and efficient aviation infrastructure in Denmark, Greenland and the Faroe Islands. In Denmark the activities comprises en-route area control services in Danish airspace, approach control service to Copenhagen Airport, briefing service and Flight Information Services (FIS). This area also includes support and maintenance of radar installations and CNS equipment in Denmark.

Naviair also provides local Air traffic services (ATS) comprising aerodrome control service and approach control service at a number of airports in Denmark and Aerodrome Flight Information (AFIS) on the Faroe Islands. In Greenland the activities comprise briefing, FIS and SAR. The activities in Greenland and the Faroe Islands also include technical support and maintenance of radar installations on the Faroe Islands and navigation and communication equipment on the Faroe Islands and in Greenland as well as surveillance in Greenland. Naviair is an independent company owned by the Danish state and headquartered in Copenhagen, Denmark.

For more information visit www.naviair.dk

About FREQUENTIS DFS AEROSENSE

Frequentis AG and the German air navigation service provider DFS Deutsche Flugsicherung GmbH through its wholly owned subsidiary DFS Aviation Services, formed FREQUENTIS DFS AEROSENSE in 2018, as a joint venture to deliver turnkey remote tower solutions worldwide.

Frequentis contributes the technologies needed for state-of-art remote or digital airport control, as well as its expertise in developing customised remote tower systems, and its worldwide network of subsidiaries with local representatives that can implement remote towers around the globe. DFS Aviation Services contributes its operational experience in consulting, validation, transition and training in the air traffic management sector, bringing in the deep operational experience DFS gained through the development of its own remote tower solution.

For more information, please visit www.aerosense.solutions

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