Market Segment:
Airport

Country of installation:
Norway

Year of Installation:
2014-Ongoing

End Customer:
AVINOR

Solution:
**Door entry and emergency communication.
Operational Communication**

Key Products:
TCIS-4, TMIS-1

Key Technology:
**HD Voice
Ambient noise reduction
SIP Integration**

Zenitel streamlines communications at Oslo Airport

Zenitel was the first choice for flight tower communication towards the command center at Røyken providing superior audio quality across the airport entrance.

The End Customer

Oslo Airport, Gardermoen is Norway's largest airport, connecting to 26 domestic and 158 international destinations. The airport terminal was expanded in April 2017, when a new terminal was opened. In total, the airport now has a capacity of 32 million passengers.

The Requirement

Zenitel has a longstanding relationship with Oslo Airport, delivering air traffic control tower communication and intercom devices to the terminals. The customer had an existing customized analog communication system from Zenitel and wanted to upgrade this to an IP-based solution, as well as create their own customized stations.

The task was to enable open duplex communication between flight control at Gardermoen and the airplane control center at Røyken. Quick communication setup was essential, as was the monitoring and reporting of system errors. Additionally, door intercoms needed to be connected as SIP stations to the existing IPBX. The goal was to establish fast and reliable communication between the two locations, while also enabling seamless access to door intercoms.

The Solution

Zenitel has recently upgraded the analog communication system in the air traffic control room tower to an IP hotline system, utilizing four XE7 AlphaCom servers. Two of these servers are networked in AlphaNet, while the remaining two are intended to serve as redundant servers. The XE7 servers were chosen due to their capability of recording analog signals using AGA boards. This upgrade will enhance the communication capabilities in the air traffic control room.

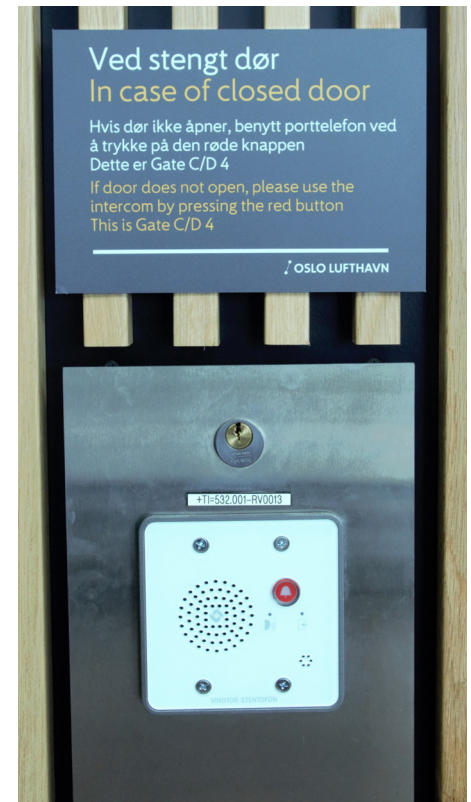A total of 20 IP master station kits have been utilized to construct custom intercom stations within the flight tower. In addition, over 100 Zenitel Turbine Intercom devices have been installed and are directly connected to the IP telephone server at Oslo airport. This enables passengers and other personnel to reach out for help in case of an emergency or to access information via help points. The intercom devices serve as a reliable communication tool, enhancing safety and providing convenience for airport users.

The Result

The IP system in the air traffic control room tower enables and ensures a constant, uninterrupted line anytime. Now the airport benefits from a system with complete continuity, where all calls made to the air traffic control room tower are reported on both sides of the A&B system. If system A fails, the client can easily switch to system B.

Zenitel's Turbine Intercom Stations deliver crystal clear audio, making it possible to hear and be heard, even in challenging environments like airports. Here, noise levels can be extremely high which is why noise reduction is so important. The stations connect directly to the customers IP Network and telephone server making them easy to deploy anywhere, at any distance, ensuring that the solution is scalable in case of future developments.

Why **Zenitel?**

Zenitel is well positioned to drive the future of intelligent critical-communication solutions. Through our portfolio of IP products & solutions, with built-in intelligence and a focus on cybersecurity, we provide organizations with superior, scalable security and flexibility. Zenitel is the proven, preferred choice for environments requiring crystal-clear audio to ensure the protection of human life, property, assets and the management of critical activities. With interoperability at all levels, we seamlessly integrate with access control, video management and security platforms.