



Market Segment:
Airports

Country of installation:
Malta

Year of Installation:
2020

End customer:
Malta International Airport

Solutions:
**PAVA, BGM and
Centralised Control**

Key Products:
**INTEGRA, DANS01, EOLZ01,
iVENCS, 100V Loudspeakers**

Key Technology:
**Compact wall mount solution,
IP-based connectivity,
centralized control and
monitoring**

Malta International Airport enhanced with PAVA system

ASL/Zenitel delivers a cost-effective solution, securing and streamlining Malta International Airport's (MIA) operations.

The Customer/End User

As the only airport on the island, Malta International Airport, located southwest of the capital Valletta, is a vital part of the country's travel infrastructure as it serves all of the Maltese islands.

The Requirement

The airport needed to increase its capacity and needed an innovative new turnkey PAVA networked solution that would optimise existing assets and limit downtime during the transition period. In their brief, MIA established that the solution should be reliably functional in emergency use as well as day-to-day-operations and should automatically adjust the volume to maintain intelligibility depending on noise levels. The most critical requirement was the intelligibility and accuracy of messaging across the site, key to MIA plans to safely manage increased foot fall.

It was also important that the project was delivered in a timely manner utilising existing IP infrastructure to minimize disruption to the airport's normal services. Additionally, the system needed to be flexible so that it could be easily expanded as the facility evolves.

MIA handled the physical installation, with ASL/Zenitel guiding the project from conception, acoustic design, and planning stages, through to build, testing and commissioning. Zenitel also continue to ensure that the system remains optimized by providing MIA with on-going 3rd line maintenance.

The Solution

ASL/Zenitel built, tested and delivered a distributed IP-based system initially consisting of two compact wall mount INTEGRA which covered 14 zones across the airport with distributed hardware situated in two separate communication rooms. Over the course of the project, the system was expanded to incorporate an additional INTEGRA and subsequently 8 further zones. The solution is enhanced by

Zenitel's renowned iVENCS core, which provides central control and monitoring via a simple and powerful User Interface.

Hundreds of existing and new high-quality 100V loudspeakers located around the airport deliver the critical and operational messages to travellers. To guarantee safety and security the system is fully compliant with EN 54 standards and includes localised battery backup to ensure operation in the event of a mains power failure.

Additionally, the system features 8 dynamic noise sensors (DANS01), a fire microphone and 18 gate microphones (MPS10). Impedance end-of-line monitoring is provided through the use of an EOLZ01 device, which ensures that MIA can seamlessly monitor their existing loudspeakers.

The Result

After the system's deployment, MIA welcomed over 2,500,000 passengers in 2021, a 45.3% increase compared to 2020, showcasing ASL/Zenitel's ability to help streamline and enhance operations. ASL/Zenitel delivered a cost-effective solution that streamlined MIA's operations and secured it with a cutting-edge PAVA system. The networked solution saved money and made the installation process more efficient, while the technology's ability to evolve future-proofs the system.

The solution is interoperable with legacy software and hardware and supported by a powerful API that allows for further integration with the flight automation system.



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.