

# SECURITY IS THE TOP PRIORITY IN ATI AVIATION SERVICES

The airline industry will continue to grow for the foreseeable future. Experts predict that travel demand will double over the next 20 years. International Air Transport Association (IATA) figures indicate that everyday more than 100,000 commercial aviation flights take off and land, transporting on average 1 million people over 54,000 routes.

By **Enrique Bolivar**, Transportation Solutions Manager  
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Moreover, airports have large areas, multiple buildings, a constant flow of people, continuous air traffic and storage for goods. Airlines adopt and implement new technologies to improve their operations by connecting internal staff and enhancing the passenger experience. These technology evolutions, however, also open new vulnerabilities alongside the benefits. Airports and airlines are attractive targets for terrorist organizations, cyber-attacks, insider threats, urban crime, trafficking, illegal immigration in addition to other threats such as natural disasters and industrial accidents.

ALE communication solutions provide the building blocks that help reduce the risk of threats. They can notify the different stakeholders, provide the right and relevant information and improve the detection and reaction process.

These solutions offer:

- **Secure and reliable** communications based on a highly available architecture to ensure no service interruption.
- **Situational security awareness** to deliver the right information, at the right time, at the right location to improve the decision-making process.
- **Information sharing** to coordinate actions between different stakeholders such as airport staff, security forces, government agencies and airline staff, for better crisis management.
- **Integration and interoperability** with the airport's OCC, based on API integration to enhance security operations.

The airline and airport industry are embracing new technologies such as IoT to help reduce costs, improve maintenance operations and enhance surveillance systems.

Essentially, wayfinding or geo-fencing applications, CCTV cameras, intrusion detection systems and any other security device connected over internet can be integrated into the authorities' applications through the *Communications Platform as a Service (CPaaS)*, leveraging BOT, AI (Artificial Intelligence) and Information Systems Databases; creating new services

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to alert the security team, as well as enabling passengers to inform about potential threats (e.g. abandoned baggage, suspect incidents).

According to the European Aviation Safety Agency (EASA), the industry currently receives more than 1,000 cyber-attacks per month. Cyber-attacks may result in a network being taken off line, they can affect the ground communications, a company's image, cause business interruptions among other impacts.

The ALE cyber security strategy provides a layered approach to protect different aspects of the network and assets. Cyber security follows rigorous improvement, testing, evaluation and deployment of new defense strategies.

A properly designed and up-to-date communications network with appropriate security measures will reduce the risk of successful cyber-attacks. The ALE cyber security strategy is built on three pillars:

- **Built-in security** system such as technology watching, hardened software, and authentication.
- **Confidentiality** such as binaries signatures, voice and signaling encryption and secure management sessions.
- **Best practices** such as call barring, alarms and monitoring, and external authentication.

Today, security and emergency management are and will remain top priorities for the industry. Threats emerge quickly and evolve fast. It is essential to have relevant solutions that can prevent, detect and react in the right way and in a timely manner. ■



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#### ABOUT ENRIQUE BOLIVAR

Enrique is responsible for the creation of solutions, value propositions and content that address the different transportation sectors such as Railway, ATI, ITS and Ports and Logistics. He has more than 15 years of experience in the telecommunication industry working in the enterprise market. Enrique was part of the International Central Presales team and has a strong background in end-to-end solutions, network VoIP design, UCC and UCaaS solutions.