Background

The Directorate General of Civil Aviation (DGCA) in Lebanon manages and operates Beirut-Rafic Hariri International Airport, and is responsible for air traffic control operations throughout Lebanon’s airspace.

To help drive tourism in Lebanon following decades of damage sustained during conflicts in the Middle East, DGCA needed to prioritise investment in modern and robust simulation technology at Beirut International Airport.

They wanted a world-class simulator that met ICAO requirements for consistent, high quality training.

Airways’ solution

Airways New Zealand was awarded the contract to supply and install tower and radar simulation technology and equipment for DGCA Lebanon in May 2018, following a competitive tender process.

Airways installed a 320° LCD Tower simulator, Approach radar simulator and Area Control radar simulator, as well as nine pseudo pilot/planner positions at DGCA’s ATC facilities at Beirut-Rafic Hariri International Airport in mid 2019.

The result for DGCA Lebanon was a state-of-the-art simulation environment that’s easy to use, with photo-real 3D graphics for an immersive real-world experience.

The TotalControl simulators installed for DGCA imitate the full Lebanese air traffic control Flight Information Region, utilising Airways’ TrueView technology and photo-realistic 3D models for the tower simulator and emulation of the ATM system for the radar simulator.

Ease of use was an important function of TotalControl for DGCA — instructors can create and modify simulator exercises within a matter of minutes, and simulator pilots can easily manage complex simulated scenarios with minimal training.

The flexible configuration of TotalControl was also a valuable feature. The operation and interfaces are the same across multiple configurations — single position, multi position, networked or stand-alone — so there’s no need for users to re-learn functionality when moving between configurations.
DGCA Lebanon Case Study

Customer needs
- Train more controllers
- Modern tools for quality training outcomes
- Train staff on new ATM technology rolling out e.g. CPDLC (data link communications between controllers and pilots)

Customer experience
- Immersive 3D sim experience
  Real-world visual environment through leading-edge TrueView graphics
- Easy to use
  Intuitive sim piloting and exercise creation
- Full Flight Information Region simulation
- Designed by ATCs
  Backed by technology experts

Key facts
Location: Beirut-Rafic Hariri International Airport, Lebanon
Sim types and positions:
- 3-position 320° LCD Tower simulator
- 2-position Area Control radar simulator
- 2-position Approach radar simulator
- Nine pseudo pilot/planner positions

Airways has been providing aviation products and services for organisations throughout the world for more than 30 years.

With customers in Asia, the Middle East, Africa, the Pacific and North America, Airways is constantly improving its training tools and technologies.

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