The SERIS® Air Traffic Control (ATC) Simulator is a fully scalable, high fidelity simulator solution. The 3D immersive simulator supports the development of practical skills required for day-to-day operations and simulation of emergency scenario management. Realistic radar and airport tower simulation are provided for en-route, approach and tower controllers. The solution is highly customisable and adaptable, offering the full training spectrum, from ab-initio to operation and refresher training in a realistic airport and airspace environment.

Virtual Tower Simulator
- Seamless 360° visual environment
- Airport visual database with 3D models of all buildings and airside structures, runways, taxiways and aprons including an accurate rendering of markings
- Interactive control simulation
- Supports 3D models for aircraft, vehicles and ships
- Generates day and night scenarios as well as different weather conditions
- Simulation of aircraft emergencies

Radar and Surveillance Simulator
- Facilitates full training spectrum in air traffic control surveillance operation
- Allows flexible distribution of processes across computer elements:
  - Surveillance Detection
  - Radar Data Processing
  - Flight Data Processing
  - Automatic Dependent Surveillance – Broadcast (ADS-B) including Wide Area Multilateration (WAM)

Non-Radar Simulator
- Provides comprehensive procedural control operations training
- Available as a standalone or integrated module with the virtual tower or radar simulator to create complex scenarios

Voice Communications Control System
- Integrated communications network for simulation
- Customisable voice recognition feature

Additional capabilities:
- ATC ConOps development and validation
- Airspace design and optimization (sectors, routes, approach procedures)
- Remote tower camera positioning
- Airport or airspace visualization tools

Contact us to demonstrate future capabilities.