The Indra Advance Air Control Automation System offers one of the most advanced automated air traffic control systems which meets International Civil Aviation Organization (ICAO) and Eurocontrol standards and recommended practices in air traffic management.

The strong requirements concerning air traffic safety and high reliability of the equipment are met by the innovative use of the state-of-the-art technology.

Being the safety and reliability the cornerstone of Indra's Automation System has served to make a system friendly to use and easy to maintain. It represents the best tradeoff for ATC systems ranging from highly competitive COTS solution to full performance semi custom systems.

Air Traffic Control Automation System

Provides Controllers with the whole information about air movements
The mission is to enhance the safety of the flights by providing the controllers with information of air movements from Radar/ADS-B/WAM/MLAT sensors, flight plans, direction finders and air-ground data-link messages. It also provides a high degree of automation of the control tasks, with flight plan management tools, automatic flight tracking system, automatic coordination between control position and control centers, safety nets, medium term traffic prediction tools among others.

Indra's Air Traffic Automation System is the result of 90 years of our experience in ATM products installed worldwide.

**Highend features:**
- Flexible use of airspace
- Performance based navigation
- Free routing
- IOP & Silent coordination
- Arrival/Departure sequence managers
- Collaborative decision making
- Contingency

The system covers en-route control, approach control and tower control, as combined control solutions. The ATC System comprises all the necessary elements and equipment to carry out the ATC services.

**System components**
- Flight Data Processing (FDP)
- Safety nets (SNET)
- ATC Tools (MTCD & CMON)
- Radar Data Compressor Unit (RDCU)
- Surveillance Data Processing (SDP)
- Air-Ground Data Link Server (AGDL)
- Situation and Flight Data Displays (SDD/FDD)
- Electronic Flight Strip (EFS)
- Arrival & Departure Manager (ADM)
- Control & Monitoring Display (CMD)
- Data Recording Facility (DRF)
- Data Base Management (DBM)
- Simulation Subsystem (SIM)

**Benefits**
- Proven system stability and performance
- Reduces technical and schedule risks
- Avoids premature technological obsolescence
- Provides cost effective growth path
- Ensures support longevity
- Easy integration of customer furnished equipment
- Avoids the need for HW and SW development
- Simplifies maintenance, logistic, and support activities
- Provides a highly reliable system
- Reduces system downtime by providing redundancy
- Streamlines controller and maintenance training
- Allows midlife technology insertion without redesign
- New functionality can be added cost effectively
- Reduces the final cost of overall system life cycle

Indra is positioned as the market’s leading supplier of air traffic management and communications, navigation and surveillance (ATM-CNS) systems. In the field of R&D, we are one of the leading companies in the SESAR program, the key technology behind the Single European Sky initiative. We are also the technology partner of many major European and International Air Navigation Service Providers.

ATM System is built on the base of a legacy of successfully delivered systems around the world, with an open system architecture complying with open system standards (UNIX/LINUX, Ethernet). It is designed to allow evolutionary upgrades and future enhancements, with modular SW and HW design, using the COTS technology from industry leaders, and all mission critical servers are redundant with proven switchover strategy.

Indra's Air Traffic Automation System is recognized as the most advanced integrated solution in terms of end-to-end flight plan management and 4D trajectory calculation.