

## Case Study: NAV Portugal

### Objectives

- Improve air-ground communications
- Comply with EU mandate
- Improve departure clearance services

### Why Airtel ATN

- Unique, innovative, cost effective solution
- Proven software platform
- EUROCONTROL compliant

### Solution

- Airtel ATN Data Link Server
- Airtel ATN Air/ground router

### Results

- First successfully tested DLS implementation
- Successfully tested with
  - EUROCONTROL's Test Facility Centre in Brétigny
  - ATN and ACARS SITA connection

### Background

NAV Portugal provides air traffic services in the flight information regions (FIR) under Portuguese responsibility. The organisation ensures that national and international regulations are complied with in the best safety conditions, optimising capacities and emphasising efficiency while not neglecting environmental concerns.

In 2006 NAV Portugal contracted the Airtel ATN/Indra consortium to supply the next generation Data Link gateway systems for Lisbon ACC ATM system in order to comply with EUROCONTROL's Link2000+ programme.

EUROCONTROL, the European Organisation for the Safety of Air Navigation created the Link2000+ programme in order to cope with the ever increasing air traffic in Europe. The programme plans and coordinates the implementation of operational air-ground Data Link services for ATC in Europe by 2013, as mandated by the European Commission.

NAV Portugal chose Airtel ATN because of its unique solution which is fully EUROCONTROL Link2000+ compliant.

### Enabling Technology

The Airtel ATN/INDRA Data Link Server provides a CM/CPDLC data link gateway for ATN and FANS aircraft for Lisbon ACC. It also provides Departure Clearance services for the Lisbon, Faro, Funchal and Porto Airports.

### Results

This is one of the first successfully tested implementation of the Data Link Server under EUROCONTROL's Link2000+ programme. And it was an important milestone reached with Airtel ATN's partner INDRA in this second dual-stack ATN/FANS Data Link Server implementation.

In February 2010 Site Acceptance Tests were completed successfully, including successful ATN and ACARS connection with the SITA Network. Pre-operational trials also included successful end-to-end testing with

*"We started the Data Link project on the pioneer phase of the EUROCONTROL Link2000+ programme. We reached an important milestone for the provision of FANS and ATN data link services in Lisbon FIR with the now successfully tested Data Link Server dual stack solution."*

**José Vermelhudo, Project Manager and Head of Systems and Software, NAV Portugal**

