

## AIRTEL ANSP CUSTOMERS



## COMPLIANCE

### EU CPDLC mandate

- ◆ European Commission Regulation EC No. 29/2009 and further amendments
- ◆ EUROCONTROL DataLink Specification EC-SPEC-0116
- ◆ EUROCONTROL SAM SWAL 3 (ED-109/DO-278 AL4)
- ◆ ETSI EN 303 214

### ATN

- ◆ ED-110B/DO-280B
- ◆ ED-120/DO-290
- ◆ ED-111
- ◆ ICAO SARPS 9705 (v2) and SARPS 9880

### FANS

- ◆ ED-154/DO-305
- ◆ ED-100A/DO-258
- ◆ ARINC 622/620/618
- ◆ MATIP RFC 2351

## ANSP DATA LINK EVOLUTION

Airtel is committed to maintaining compliance to the latest FAA and EUROCONTROL standards and is at the forefront of Data Link evolution for future Data Link applications (ATN-B2), network (ATN-IPS) and sub-networks (LDACS, Satellite, AeroMACS).



## AIR NAVIGATION SERVICE PROVIDERS DATA LINK SOLUTIONS

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### SCAN

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## AIRTEL IS THE DATA LINK COMPANY

We provide operational and test Data Link solutions to Air Navigation Service Providers (ANSPs) in America, Asia and Europe. 40% of European ANSPs use Airtel ATN to support them in meeting the European Data Link mandate.

OVER **25** YEARS IN BUSINESS

ACTIVE IN **36** COUNTRIES

**21** EUROPEAN ANSP CUSTOMERS

SOFTWARE INSTALLED **10,000** ON OVER AIRCRAFT

Airtel is pivotal in driving innovation in Data Link, shaping the future as partners of SESAR JU, SESAR Deployment Manager, IRIS, Clean Sky 2 and NextGen.



### EUROPEAN COMMISSION DATA LINK MANDATE

The European Commission has mandated SESAR Deployment Manager to develop a Data Link Services (DLS) recovery Plan (2016 and 2017 CEF Transport Calls). Airtel is a key partner in the 2017 CEF Transport Call and is actively designing the future Common European ATN Backbone (CEAB).

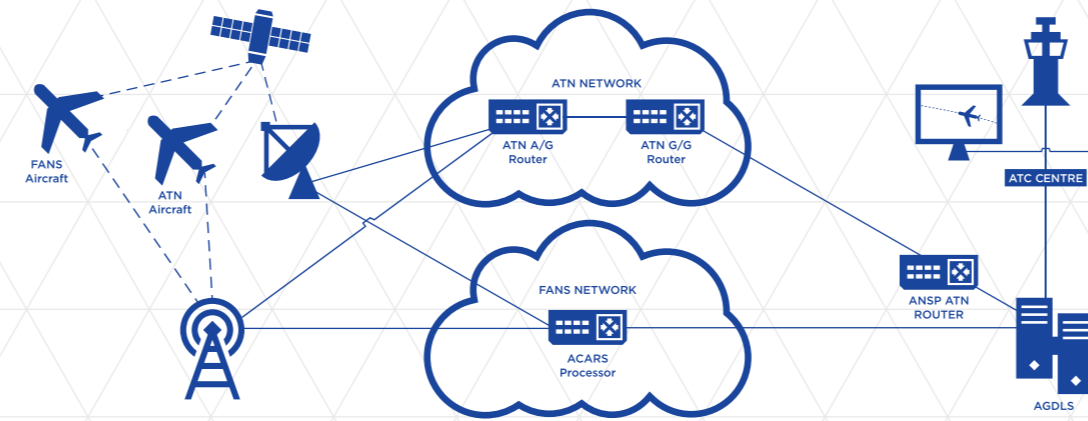
In addition, based on SESAR 2020 and IRIS activities Airtel is working to support the ATN/OSI Multilink (VDLM2 and SATCOM).

**15 European ANSP's** have met the Data Link Mandate with support from Airtel's operational and test solutions.

**Airtel continue to assist ANSPs in meeting the European Commission Data Link Requirements.**

## ANSP OPERATIONAL SYSTEMS

### Data Link System Architecture



### AIR/GROUND DATA LINK SERVER (AGDLS)

**Air/Ground Data Link System (AGDLS)** is responsible for handling Data Link communications for an ATC centre. It supports applications such as CM, CPDLC and ADS-C.

Data Link Service Functions include:

- ◆ Data Link Initiation Capability (DLIC)
- ◆ Air Traffic Clearance (ACL)
- ◆ ATC Communications Management (ACM)
- ◆ Aircraft Microphone Check (AMC)

The AGDLS interfaces with ATN and FANS networks.

### ANSP ROUTER

**The ANSP ATN Router** provides ATN connectivity between the ATC System and the ATN Network. The Router is composed of two independent nodes working in operational/standby mode.

### BENEFITS

#### ADAPTABLE

Airtel understands that each ANSP has specific requirements and adapts core technologies to meet those needs, working directly with the ANSP or their chosen system integrator.

#### PROVEN TECHNOLOGY

Airtel has operational AGDLS systems and ATN Routers in ANSPs across Europe. Airtel is the chosen integration partner for companies including Leonardo, INDRA, Si ATM, Airtel Routers are key components in the ARINC/RC-IMS Network.

#### EXPERIENCED

Airtel has 21 years of experience in data link and remains solely focused on developing and delivering Data Link solutions and services.

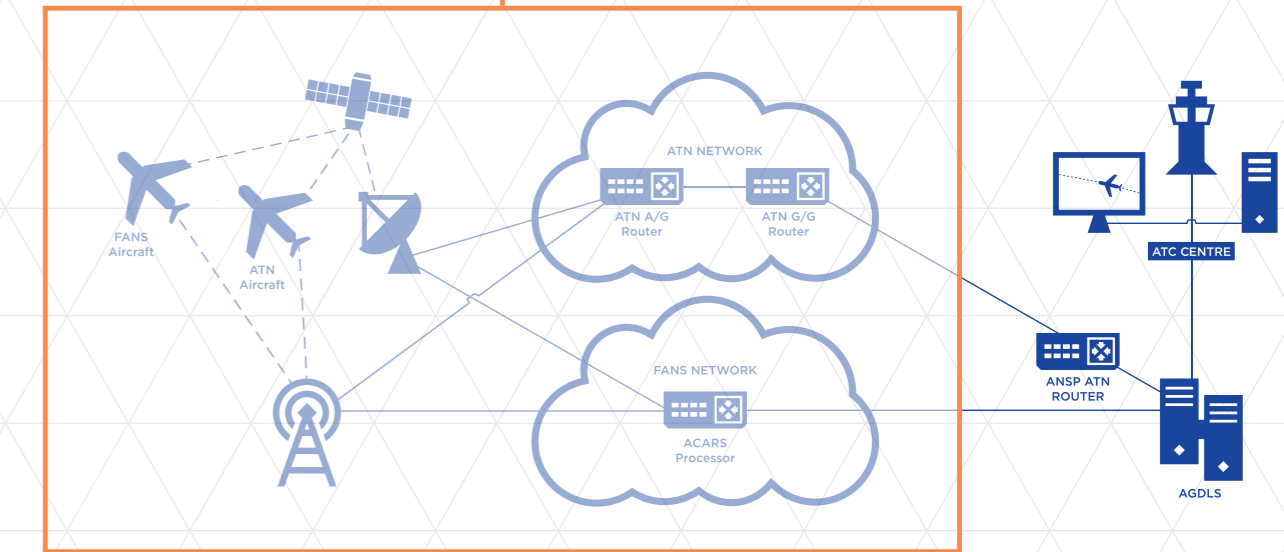
### ANSP MONITORING

**The Protocol Decoder (PDEC)** is a protocol analyser that decodes captured logs and generates LISAT Files and GOLD reports.

ANSPs are encouraged to share CPDLC data in LISAT Format to EUROCONTROL-NM to help monitoring the Data Link performance.

## VALIDATING ANSP SYSTEMS

### Ground Validation Suite



### GROUND VALIDATION TEST SYSTEM (GVS)

The GVS provides ANSPs with an independent means to validate their CPDLC data link deployments.

The GVS is easy to set up and requires no coordination with CSP or Avionics. The user interface provides an intuitive platform for the user to send and receive messages and achieve an end to end test of the ANSP Data Link equipment.

The GVS emulates up to 1,000 aircraft (ATN or FANS) in one PC to provide a realistic test scenario for the ANSP.

In addition, the GVS can be used as a Shadow Test system to create realistic training scenarios for Air Traffic Controllers in their shadow systems.

### BENEFITS

#### ADAPTABLE

Airtel GVS can connect to ANSP CPDLC System as an ATN Router or as an ATN CSP Network. It has been used to test a variety of FDPS/AGDLS systems and supports CPDLC messages.

#### PROVEN TECHNOLOGY

15 ANSPs in Europe have used Airtel Test Equipment to validate ANSP Data Link systems.

#### EXPERIENCED

Airtel Test Equipment are the de-facto industry standard for testing and validating ATN implementations.