

ATN Ground Validation Suite

The Airtel ATN Ground Validation Suite provides an Airborne platform for the validation and interoperability testing of Ground suppliers of ATN Applications (CM, CPDLC, PM-CPDLC and ADS-C) as described in the ATN Manual issued by ICAO.

The Airtel ATN Ground Validation Suite is the reference interoperability system used by Eurocontrol in its Experimental Centre to verify compliance of ATN applications

Highlights

- Compliant with CNS/ATM Package 1 SARPS
- Compliant with EUROCAE ED-110A
- Eurocontrol Reference System
- Support of CM, CPDLC, PM-CPDLC and ADS-C Applications

Benefits

- No need to connect to Service Providers
- Low cost solution running on a single Linux PC platform
- Easy integration with ground legacy systems
- Reduce risk of interoperability with Airborne systems and Service Providers
- Training Capability for Ground End-Users

Support

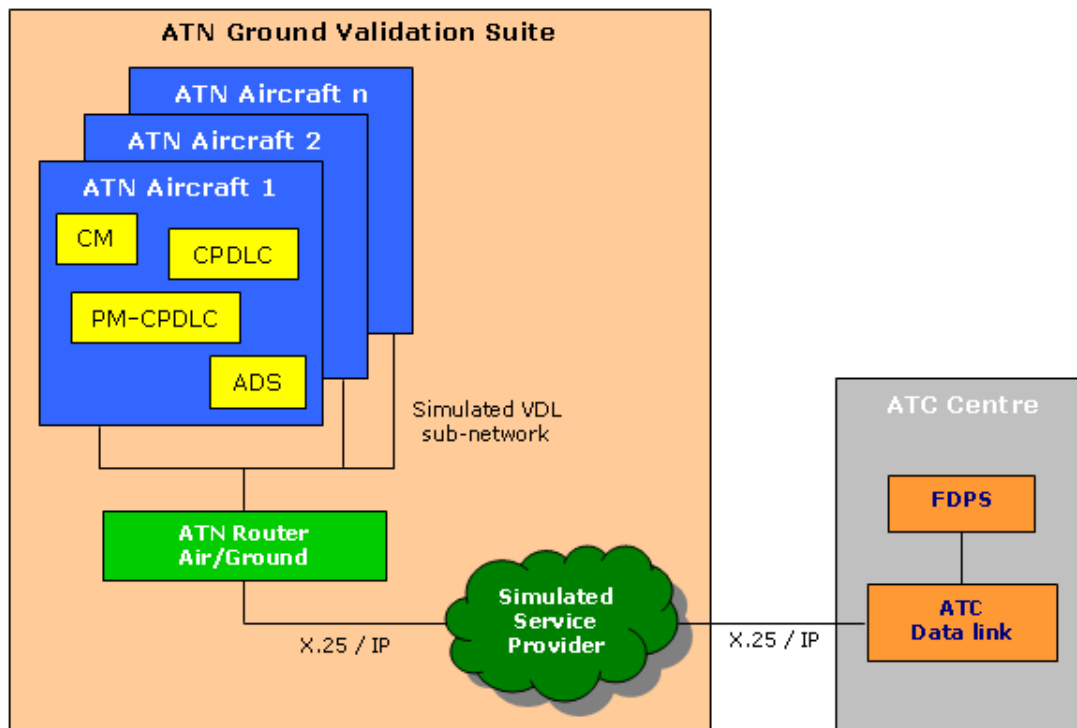
- Context Management Application Service Element as defined in ICAO Doc 9705-AN/956 Edition 2
- Controller Pilot Data Link Communications Application Service Element as defined in ICAO Doc 9705-AN/956 Edition 2
- Automatic Dependent Surveillance Application Service Element as defined in ICAO Doc 9705-AN/956 Edition 2
- Protected Mode Controller Pilot Data Link Communications Application Service Element as defined in ICAO PDR M5050003
- Support of Error Test Cases to check robustness of the system (e.g. invalid message sequences, message identifiers, unsupported messages, ...)
- Manual validation with support for up to 5 aircraft via the Graphical Interface
- Automated validation with support for up to 500 aircraft

Intended Users

- ATC System Integrators wanting to validate their systems
- ATC Centres wanting to provide training to controllers

Product Structure

The Airtel ATN Ground Validation Suite is an Airborne platform providing support of multiple aircraft, an ATN Air/Ground system stack and the simulation of a Service Provider connection. The following figure shows the architectural layout of the product and its interaction with an ATC centre:



ATN Ground Validation Suite Architecture

Platforms Supported

Airtel's software can be provided on all major platforms including PC based systems.