

B2 READY TEST TOOLS

- ◆ Controller Pilot Data Link Communications (CPDLC) allows ATC data communications between controllers and pilots.
- ◆ Automatic Dependent Surveillance - Contract (ADS-C) is the means by which the terms of an ADS-C agreement will be exchanged between a ground system and an aircraft, via a Data Link, specifying under what conditions ADS-C reports would be initiated, and what data would be contained in the reports. ADS-C enables the reporting of 4D trajectories.

Together, the ATS-B2 applications enable the implementation of advanced ATM concepts such as Trajectory-Based Operations (TBO). This enables more efficient route planning, minimizing fuel consumption, and reducing environmental impact.

EUROPEAN MANDATE

The European Commission has mandated that ANSPs must support ATS-B2 applications by 31st December 2027 (European Commission Implementing Regulation no. 2021/116, Common Project 1 - CP1 Mandate). Designed for the modernization of the European ATM industry, its aim is to accelerate the digitalization of the European ATM towards greener aviation.

HOW CAN AIRTEL HELP YOU GET B2 READY?

Airtel's test tool suite is ready for ATS-B2.

We are here to guide ANSP's to meet the CP1 mandate successfully and assist you in navigating this transition towards B2 compliance. Our test tool suite is designed to support testing aimed at ensuring compliance and certification, supporting both ATN B1 and ATS B2. Airtel's test suite provides solutions for manual and automated testing including the emulation of ATN networks.

BENEFITS

- ◆ Supports for ATN-B1, ATS-B2 (Rev A and Rev B)
- ◆ CM-Logon, CM-Contract, CM-Abort
- ◆ CPDLC Start, CPDLC End, and CPDLC User Abort services.
- ◆ ADS-C Contract Request, Cancel, and User Abort services.
- ◆ Handles multiple aircraft on the ground side.
- ◆ Supports all CPDLC uplink and downlink message sets specified in the ED-110B and ED-229 (Rev A and Rev B) specifications.
- ◆ Support CPDLC Error Test Cases: Handle invalid timestamps, invalid message sequences, identifiers, references, missing LACK, and unsupported messages with precision.
- ◆ Support ADS-C Error Test Cases: Invalid timestamps, detect invalid combinations of ADS-C data blocks.
- ◆ Automatic CPDLC and ADS-C Message Generation: Configure transmission rate with ease.
- ◆ All uplink and downlink exchanges are logged for further analysis.
- ◆ Automated testing with control of 1,000 ATN Aircraft and simulation of ATN Network.
- ◆ Script-driven interface for building automated test cases.

Our B2 Ready Test Tools are the ideal solutions to meet the demands of testing modern air traffic management. With their comprehensive capabilities, Airtel empowers organizations to transition to the future of Data Link technology.