



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
WESTERN AND CENTRAL AFRICAN OFFICE**

**Fourth Meeting of the FANS 1/A Interoperability Team
(SAT/FIT/4)**

(Sal, Cape Verde, 8-9 June 2009)

**Agenda Item 4: Review of the ADS/CPDLC programmes and implementation
Activities in SAT FIRs**

(Presented by ASECNA)

Summary

The Working Paper gives a progress report on the implementation of the ADS/CPDLC in ASECNA FIR and call for collaborative Surveillance data exchanges in SAT area

1. Background : Implementation of ADS-C/CPDLC in ASECNA FIRs

Far in the past (1996) ASECNA conducted ADS-C trials with an ACARS data link Afrique airline. By year 2004 a full ADS-C/CPDLC was installed in Antananarivo FIR. The implementation of ADS/CPDLC programmes were purchased in the others FIRs managed by ASECNA and notably in Dakar Oceanic FIR with two centers involved: Dakar and Abidjan. In Dakar center, the ADS/CPDLC system has been completed since 2008 with the implementation of the ACARS link.

The system is being completed in Abidjan center; since last two weeks, the manufacturer is configuring ADS/CPDLC system and the first trials will be conducted very soon.

2. Discussions

ADS/CPDLC trails have been successfully conducted in N'djamena, Niamey, Dakar and Brazzaville and will be soon expedited in Abidjan. Up today in Dakar center, the ADS/CPDLC is technically full operational; an AIC has been published for trials. However it is noticed that only a few proportion of aircrafts are ADS-C/CPDLC equipped.

Most of the time, in addition to the ADS/CPDLC functionalities the system also supports Radar, FDPS, or ADS-B functionalities. SAT FIRs ANSP could take advantage in interconnecting their systems in order to share surveillance radar, ADS-C/CPDLC, or ADS-B data particularly at FIR boundaries to enhance air navigation safety. In this regard the availability and the integrity of communication facilities must be improved.

3. ACTION BY THE MEETING

The meeting is invited to:

- Take note the in formations provided above;
- To agree on a global planning of full operational implementation of ADS/CPDLC;
- To recommend the airlines to equipped their aircrafts to take advantage of ADS/CPDLC implementation in the corridor;
- Discuss, amend and endorse ASECNA proposals regarding cooperation for the surveillance systems interoperability for data and applications exchanges ;
- Take a suitable conclusion related to subject.