



INTERNATIONAL CIVIL AVIATION ORGANIZATION
Regional Workshop on Aeronautical Surveillance
(Dakar, Senegal, 20 to 21 June 2011)

Agenda item 8: Trials and Implementations in ICAO AFI Regions and Other ICAO Regions

(Presented by the Secretariat)

Summary

This paper presents a brief on Aeronautical Surveillance implementation status and trials that are of interest to the AFI Region.

Action by the meeting is **at Paragraph 3.**

Reference

- ICAO Annex X Volume IV Surveillance and collision avoiding Systems
- ICAO Annex 10, Volume III Part I: Digital Data Communication Systems, chap. 9
- ICAO DOC 9871 Technical Provisions for Mode S Services and Extended Squitter
- ICAO DOC 9684 Manual on Secondary Surveillance Radar (SSR) System
- ICAO Doc 9688 Manual on Mode S Specific Service

This Working Paper is linked to ICAO strategic objectives **A & C**

1. Background

The AFI aeronautical surveillance plan was adopted by the APIRG/13 meeting (Sal, 25-29 June 2001) and has been included in the AFI FASID, Part IV Since June 2001. Since then, States have been implementing surveillance systems.

2. Discussion

2.1 In order to ensure a harmonization of the systems to be implemented in the aim of interconnectivity and interoperability to guarantee a reliable support to the a Global Air Navigation Service provision in the frame of Performance Based Navigation within AFI Region APIRG/16 set up AFI Surveillance Implementation Task Force to draw up a Surveillance Implementation strategy for AFI.

CNSG/4 Meeting updated the status of implementation of AFI Surveillance plan and reported to APIRG /17 meeting.

2.2 APIRG/17 Meeting recognized that operational ADS-C/CPDLC procedures were implemented in 2009 within the EUR/SAM Corridor (Atlantico, Canaries and Dakar Oceanic FIRs) by Brazil, Spain and Senegal (ASECNA). Since then implementation activities were reported from ASECNA with SSR capability and ADS-C/CPDLC procedures in Ndjamena, Niamey, Dakar, Abidjan and, Brazzaville, managed airspaces, ADS-C/CPDLC in Antananarivo.

2.3 Implementation projects developed by Cape Verde (SSR ADS-C), Ghana (SSR) and Seychelles for ADS-C procedures were also noted.

The meeting expressed the need for trials in respect of ADS-B and multilateration prior to operational implementation.

2.4 In SAM Region studies have been being developed to conduct trials on Surveillance data exchange through REDDIG and CAFSAT networks.

3. Action by the meetings

The meeting is invited to:

- a) Note the information in this paper;
- b) Address in its deliberation issues related to ongoing or planned trials and implementation of Aeroautical Surveillance System within AFI;
- c) Develop an harmonize scheme for trials between AFI region and other ICAO neighbouring Regions