



INTERNATIONAL CIVIL AVIATION ORGANIZATION
WESTERN AND CENTRAL AFRICAN OFFICE

Second Meeting of APIRG Infrastructure and Information Management Sub Group (IIM/SG/2)
(Dakar, Senegal, 09-11 July 2018)

Agenda Item 4: Status of implementation of the AFI IIM regional projects adopted by APIRG
Report on progress made by the surveillance project team of the IIM

(Presented by Ghana- Surveillance project team leader)

SUMMARY
<p>This is a report on the progress of work by the Surveillance Project team of the IIM .It gives information about the working methods of the project team as well as work done so far.</p> <p>Action by the meeting is at paragraph 3:</p>
<p>REFERENCE(S):</p> <ul style="list-style-type: none"> ▪ APIRG 21 REPORT
<p>Related ICAO Strategic Objective(s): <i>A – Safety, B – Air Navigation Capacity and Efficiency, D – Economic Development of Air Transport, and E – Environmental Protection.</i></p> <p>Related ASBU KPIs & B0 Modules: B0-ASUR, B0 -SNET, B0-ASEP</p>

1. INTRODUCTION

1.1 Following the change of working method of APIRG into project approach, a number of project teams were formed and approved by APIRG, including the surveillance project team. The objectives of the team were to, in the framework of the technologies Roadmap for Surveillance defined in the GANP and AFI strategy, assist States in the implementation of:

- a) Secondary Surveillance Radar Mode S (**SSR**) in accordance with the operational requirements of Annex 11, Air Traffic Service, Doc 4444 Procedures for air Navigation services and the provision of Annex 10 Volume IV and its supporting Documents
- b) Automatic Dependent Surveillance Contract (**ADS-C**)
- c) Automatic Dependent Surveillance Broadcast (**ADS-B**) ground and space-based as well as Multilateration (Mlat)
- d) Surveillance Data Sharing.

1.2 The scope of the our work was identified as, the provision of Air Traffic Surveillance to cover all areas of routing and homogeneous traffic flow in the AFI Region in all Centers involved in the provision of Air Navigation Service for International Civil Aviation.



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

2. DISCUSSION

2.1 The work of the project team has mainly been by electronic mail and telephone exchanges. The project team recalled the side meeting of the surveillance team held in Nairobi, in 2017, during which members present, decided that it would be necessary to carry out a survey of existing surveillance infrastructure in the AFI region. The purpose of this proposed survey was to establishment a baseline for work. In order to make progress with the survey, it was necessary to come out with a questionnaire

2.2 The questionnaire would among others enable us gather information on the deployed surveillance infrastructure, ie Radar, ground-based ADS-B, ADS-C and Multilateration/WAMLAT and assist in the identification of the availability and reliability of these systems in the region as well as access the possibility of sharing surveillance data.

2.3 In view of this, the team has so far, finalized a draft questionnaire, which would assist in obtaining relevant data to use as a reference in the work. The questionnaire is attached.

2.4 In addition to the questionnaire , the surveillance team had identified initial linkages with the following IIM projects:

- COMS 1-AIDC
- Cyber Security

The surveillance project team is of the view that, as the work progresses, more linkages with other IIM projects would be identified

3 ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Take note of the information provided in this paper.
- b) Propose possible improvements to the questionnaire and finalize its endorsement.
- c) Encourage states/ANSPs to kindly provide responses to the questionnaire as soon as possible in order for the team to make progress
- d) Request ICAO (ESAF and WACAF) regional offices to assist in the provision of a database of the contact details of all possible respondents as well as collation of this questionnaire.

---END---