



INTERNATIONAL CIVIL AVIATION ORGANIZATION

Fourth Meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/4)

(Virtual, 30 August - 3 September 2021)

Agenda Item 4 : Status of implementation of the regional projects adopted by APIRG

WP4.2F - PROGRESS REPORT OF IIM SG SURVEILLANCE PROJECT

(Presented by Ghana)

SUMMARY
<p>This working paper outlines the progress made by the Surveillance Project team of the IIM SG as well as the challenges encountered.</p> <p>Action by the meeting in paragraph 3</p>
<p>REFERENCE(S):</p> <ul style="list-style-type: none">▪ Global Air Navigation Plan (GANP)▪ Report of the 3rd meeting of IIM SG (APIRG IIM SG/4)
<p>This working document relates to ICAO Strategic Objectives: A – Safety and B – Air Navigation Capacity and Efficiency.</p> <p>KPIS and concerned ASBU B0 Modules: All applicable to CNS and Spectrum</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 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.

2. DISCUSSIONS

Project organization

- 2.1 The surveillance project team consists of the following members: Ghana, Cote D'ivoire, ASECNA, Cameroon, IATA, South Africa/ATNS, Seychelles and Kenya.
- 2.2 The project team's activities have been conducted mainly by electronic mail , telephone exchanges and other platforms such as zoom and Microsoft Teams. The project team holds monthly meetings to follow up on project made and develop strategies for completing outstanding deliverables.

2.3 Progress made by the Surveillance Project Team:

2.3.1. Development of Questionnaires

- a) The project team agreed that it was necessary to carry out a survey on existing surveillance infrastructure in the AFI region. The purpose of this proposed survey was to establish a baseline for work. In order to make progress with the survey, it was necessary to come out with a questionnaire.
- b) The questionnaire would among others enable us gather information on the deployed surveillance infrastructure, i.e., 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.
- c) In view of this, the team has so far, finalized a questionnaire, which would assist in obtaining relevant data to use as a reference in the work. The questionnaires have since been submitted to the ICAO WACAF Office for onward transmission to the various states.

2.3.2. Creation of repository for project and Reference document

- a) The team has compiled all the relevant documents and guidance material useful for the team's work. This seeks to provide a quick reference on all issues related to the work of the team. A repository has been created on Microsoft Teams to allow project members access to the reference documents as well as all other project documents.

2.3.3. Project Linkages

- a) The project team has identified linkages between the surveillance project and other projects in both the IIM and the AAO projects. This activity has been carried out successfully by the project team. There would therefore be coordination with such project teams as and when the need arises.

2.3.4. Review of AFI Surveillance Strategy document

- a) A team has been put in place to review the existing AFI Surveillance strategy document. This document, when fully reviewed would provide up to date guidance on surveillance deployments in the AFI Region.

2.3.5. Challenges:

- a) **Response to Questionnaire:** The project team has had challenges receiving responses to the questionnaire and would encourage States and ANSPs to assist in this regard.
- b) **Lack of active participation:** The Covid-19 pandemic has resulted in multiple virtual meetings, resulting in some team members not being able to avail themselves for our meetings because of other commitments.

3. ACTIONS BY THE MEETING

3.1 The meeting is invited to:

- a) Take note of the information provided in this paper.
- b) Encourage States/ANSPs to kindly provide responses to the questionnaire as soon as possible for the team to make progress.
- c) Assist by nominating more experts from their States or Organizations to join the Surveillance project team.

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