Sixth Meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG6)

IIM Surveillance Project- Implementation of Surveillance Systems

GHANA

Content

1. Introduction

The IIM Surveillance Project team, was established to support the implementation of ICAO Standards and Recommended Practices (SARPs) and carry out specific activities aimed to enable APIRG to discharge its functions and responsibilities in harmonizing the implementation of Surveillance infrastructure in the AFI region.

2. Project Documentation Status

Project objectives

The objectives of the team were to, in the framework of the technological 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.

2. Project Documentation Status

▪ Project scope

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 Centres involved in the provision of Air Navigation Service for International Civil Aviation.

2. Project Documentation Status

- ▪ **Project documentation /** Project Deliverables /Achievements

  - Project Questionnaire

  - Project Documentation

  - Project Link with other IIM projects

  - AFI ADS-B Mandate

  - Mode-S Interrogator Identification code and 24 bits addresses allocation guidance material.

  - AFI Surveillance Strategy

  - Project Cost Estimate

3. Summary of Achievements

Ref. ASBU element	Deliverable	Task/activity	Beneficiary States	Status	Comments
ASUR-B0/1 ASUR – B0/3	Project Questionnaire	The questionnaire has been developed and sent to the ICAO regional office for onward distribution to the various states.	All	Completed	Awaiting responses from States/ANSPs for analysis
ASUR – B0	Project Documentation	Developed a repository of all relevant ICAO documents related to the Surveillance project.	All	Completed	
	Project Link with other IIM projects	A matrix containing the linkages between the Surveillance Project and other IIM as well as AAO projects has been developed.	All	Completed	This is to ensure better coordination and collaboration with those project teams
ASUR-B0/1 ASUR – B0/3	AFI ADS-B Mandate	The ICAO regional offices are assisting the project team to conduct ADS-B equipage survey of all flights operating in the AFI region by picking this information from the States /ANSPs.	All	Pending	State letters have been sent by the ICAO regional office. States/ ANSPs encouraged to provide the required information to assist in our work.

3. Summary of achievements

Ref. ASBU element	Deliverable	Task/activity	Beneficiary States	Status	Comments
ASUR – B2/1	Mode-S Interrogator Identification code and 24 bits address allocation	The ICAO WACAF Regional Office is planning to hold a workshop on Mode-S II codes and addresses allocation. The WACAF Regional office is also planning to integrate a functionality, that will facilitate the assignment of the Mode S II codes in the frequency finder application.	All	Pending	Workshop dates would be communicated when available.
ASUR-B0/1 ASUR – B0/3 ASUR – B2/1	AFI Surveillance Strategy	A team has been constituted to develop a revised Surveillance strategy for the AFI region.	All	Pending	An initial draft has been done.
	SURV Project cost estimation	Cost of the Surveillance project activities ready. The team used the template provided by the ICAO secretariat as a guide.	All	Completed	Attached to the report.
ASUR – B2/1	Mode-S Interrogator Identification code and 24 bits address allocation	The WACAF Regional Office is planning to hold a workshop on Mode S II codes and address allocation. The WACAF regional office is also planning to integrate a functionality, that will facilitate the assignment of the Mode S II codes in the frequency finder application.	All	Pending	Workshop dates would be communicated when available.

3. Challenges and Project next steps

Challenges:

The main challenge of the project team has been:

- The lack of active participation of experts of the team due to their other schedules.

- Delays in receiving responses from states on surveys and questionnaires.

Project next steps:

- Finalise the revision AFI surveillance Strategy Document.

- Analyse all our survey and questionnaire documents when received from States.

Actions by the meeting

The meeting is invited to:

a) Take note of the information provided in the working paper.

b) Encourage States to nominate experts to the Surveillance Project team.

c) Encourage States to respond to questionnaires and survey requests.

THANK YOU