



**Twenty First Meeting of the Africa-Indian Ocean Planning and Implementation Regional Group
(APIRG/21)
(Nairobi, Kenya, 9 – 11 October 2017)**

Agenda Item 3: Performance Framework for Regional Air Navigation Planning and Implementation

3.3.1 OUTCOME OF THE FIRST APIRG INFRASTRUCTURE AND INFORMATION MANAGEMENT SUB-GROUP (IIM SG/1)-CNS

(Presented by the Secretariat)

SUMMARY
<p>This paper presents the outcome of the First meeting of the APIRG Infrastructure and Information Management Sub Group (APIRG IIM SG/1) in the areas related to aeronautical Communication, Navigation Surveillance and Spectrum, including the future actions planned to be conducted for the operationalization of the IIM/SG.</p> <p>Action by the meeting is at paragraph 3:</p>
<p>REFERENCE(S):</p> <ul style="list-style-type: none"> ▪ Doc 9750, 5th Edition <i>Global Air Navigation Plan</i> ▪ Doc 7474, <i>FASID Air Navigation Plan – Africa-Indian Ocean Region</i> ▪ Report on the First meeting of the APIRG Infrastructure and Information Management Sub Group APIRG IIM SG/1 ▪ Report on the second meeting of the APIRG Project Coordination Committee (APCC/2)
<p>Related ICAO Strategic Objective(s) and ASBU Key Performance Indicators and B0 Modules:</p> <p>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>ASBU KPIs & B0 Modules: All applicable to CNS and Spectrum</p>

1. INTRODUCTION

1.1 The First meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1) was held from 27 to 30 June 2017 in the second meeting room of the United Nation Complex in Gigiri, hosting the ICAO Regional Office for Eastern and Southern Africa, Nairobi, Kenya. With the main objective inter alia to:

- a) Review the recent developments in the ICAO Global Air Navigation Plan (GANP Doc 9750 5th Ed.) and Aviation Systems Block Upgrades (ASBU) Methodology as well as in the AFI Air Navigation Plan (AFI ANP Doc 7474, AFI e-ANP) and the AFI Plan of Action for the implementation of the ICAO ASBU Block 0 Modules;
- b) Review the outcome of the APIRG/20 meeting (held in Yamoussoukro , Côte d'Ivoire from **30 November to 2 December 2015**) pertaining to the areas of Aeronautical Information Management (AIM), Aeronautical Communication, Navigation, Surveillance and Spectrum (CNS-S), Aeronautical Meteorology (MET);
- c) Review the conclusions/decisions of the meeting for the establishment of the APIRG IIM/SG and the report of the first meeting of the APIRG Projects Coordination Committee (APCC);
- d) Consider the AFI Air Navigation Priorities/Targets and the Projects Approach adopted by APIRG to identify and plan Regional Projects in the above mentioned fields (AIM, CNS, MET), to be implemented based on the ICAO ASBU prioritized related modules selected by the AFI Region;
- e) Finalize IIM regional projects, establish balanced IIM Projects Teams in the spirit of “No country Left Behind” and identify IIM Project Teams Coordinators (PTCs) tasked to ensure an effective coordinated planning, implementation, operation and monitoring of the regional projects;
- f) Identify set of Indicators and Metrics for the Regional Air Navigation reporting and Air Navigation Dashboard in the areas related to IIM.

1.2 The meeting was attended by **70** participants comprising representatives of **18** States, 4 Air Navigation Service Providers (**ASECNA, ATNS, GCAA, NAMA**), **1** international airlines association (**IATA**) and **1** International Federation of Air Line Pilots' Associations (**IFALPA**).

1.3 Before the deliberation on the Agenda Items the meeting considered the Terms of Reference (**ToRs**) of the Sub Group and appointed **Mr. Kinafo Silué**, Chef Service Infrastructure Radioelectrique et Electrique SODEXAM, Côte d'Ivoire as Chairperson and **Mrs. Esther Gaborekwe Khambule**, South African Weather Service as Vice Chairperson.

2. DISCUSSION

2.1 The meeting under its **8** Agenda items reviewed the Conclusions/Decisions of the meeting for the Establishment of the APIRG Infrastructure and Information Management Sub Group (IIM/SG) held in Dakar from **28 to 30 November 2016** and those emanating from the First meeting of the APIRG Projects Coordination Committee (**APCC**) held in Nairobi from **30 to 31 January 2017**.

2.2 The meeting considered the requirements governing planning an implementation of Aeronautical Communication, Navigation, Surveillance (CNS) services and spectrum provision as identified by the 7th meeting on the AFI Regional Air Navigation service held in **Abuja, Nigeria**, from **12 to 23 May 1997**, the provision of the Special AFI RAN 8th Meeting, Durban South Africa **24-29 November 2008 (Doc 9930, SP AFI/08)** and the AFI Regional Plans revised by APIRG meetings.

2.3 Consequently the meeting reviewed the regional Projects identified in the matter of Aeronautical Communication, Navigation, Surveillance and Aeronautical Spectrum aimed at fulfilling the Air Navigation Service requirements, in line with the AFI ANS regional Performance objectives, Priorities and Targets, and the related ICAO ASBU prioritized modules identified by the AFI Region.

2.4 The meeting approved and include Three (03) new Regional Projects in the CNS field respectively on an *Integrated Aeronautical Telecommunication Infrastructure* (IIMSG COM Project.4), *Assessment of AFI Aeronautical Networks Cyber Security* (IIMSG COM Project.5) and *Implementation of a Data Link Regional Central Monitoring and Reporting Agency* (IIMSG CMRA Project). This last project was identified by APIRG/20 (Conclusion 20/24: *Establishment of a Project Team for the implementation of a data link central monitoring and reporting agency (DL/CMRA)*).

2.5 Nine (09) Regional Projects were identified in the CNS & Spectrum field. The meeting also appointed the CNS Regional Project Teams (PTs) members and assigned the **Projects Teams Coordinators (PTCs)**. The AFI IIM Regional CNS Projects and Project Teams are respectively attached in **Appendices A** and **B** to this working Paper.

2.6 In addition the meeting reviewed the list of deficiencies in the above areas listed at **Appendix C** to this working Paper.

2.7 The project Teams began identifying the inter-linkage between the identified projects with the aim at developing coordination mechanisms in order to avoid duplication and ensure compatibility and interoperability of the solutions to be envisaged in the projects and their cost effectiveness:

- ***MET-CNS projects links***
- ***CNS-AIM-MET-ATM projects links***
- ***CNS-AIM-MET-AOP projects links***

This task was not completed and project Teams were requested to continue and complete the linkage mechanisms

2.8 In the spirit of APIRG/20 **Conclusion 20/32: *Coordination for air navigation service planning and implementation***, the meeting tasked the Secretariat to develop a draft procedure aimed at ensuring similar coordination with the APIRG Airspace and Aerodrome Operations Sub-Group (AAO/SG).

2.9 The meeting noted that surveys were necessary for the establishment of the baseline of the projects. It was agreed that the Project Teams Coordinators should submit a questionnaire to the Secretariat preferably by **30 September 2017** for consolidation and circulation to Administrations/Organization. This questionnaire is still awaited.

2.10 The meeting reviewed the Air Navigation Reporting Forms (**ANRFs**) related to the AFI identified ASBU modules together with the Performance Indicators and Performance Metrics. In this regard the meeting was reminded that these Indicators and Metrics are the contributive foundation for the development of the AFI Regional IIM Dashboard.

2.11 The meeting invited the Sub Group to take opportunity of the emerging Information and Communication Technologies (**E-Mailing, Skype...**) to provide more consistency, in order to work with more flexibility and effectiveness on the issues of coordination of planning, implementing and monitoring of air navigation services and facilities in the Region and, if necessary, make future proposals to update its Terms of Reference, Composition, Working Methods and Work Programme.

2.12 At the end, the meeting adopted Eleven (**11**) Draft Conclusions and Five (**5**) Draft Decisions related to aeronautical Communication Navigation Surveillance and spectrum.

The detailed report of APIRG IIM/SG/1 is made available on the ICAO webpage at:

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Take note of the information presented in this working paper, highlighting the work achieved by the First meeting of the APIRG IIM/SG;
- b) Review and endorse the draft conclusions decisions in the CNS areas emanating from the First meeting of the APIRG IIM/ SG;
- c) Consider the remaining tasks identified by the IIM Sub Group and take the necessary additional conclusions/decisions in this regard;
- d) Urge Administration/Organizations to undertake and conduct the appropriate actions aimed at operationalizing the APIRG IIM/SG.

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