



INTERNATIONAL CIVIL AVIATION ORGANIZATION

First Meeting of APIRG Infrastructure and Information Management Sub Group (IIM/SG/1) (Nairobi, Kenya, 27-30 June 2017)

4.3 Aeronautical Communication Navigation Surveillance and Spectrum Infrastructure and Systems

4.3.9 Planning and implementation of AFI Regional Aeronautical Surveillance Projects

AFI aeronautical surveillance project

(Presented by Secretariat)

SUMMARY
This paper presents the Projects identified in the Aeronautical Communication field in support to ATM, AIM & MET services provision. <b>Action by the meeting is at paragraph 3:</b>
<b>REFERENCE(S):</b> <ul style="list-style-type: none"> <li>▪ Doc 9750, <i>Global Air Navigation Plan</i></li> <li>▪ Doc 7474, <i>Air Navigation Plan — Africa-Indian Ocean Region</i></li> <li>▪ Report of AFI/RAN 7<sup>th</sup> meeting</li> <li>▪ Report of Sp AFI/RAN 8 Meeting</li> <li>▪ Report on APIRG Meetings</li> <li>▪ Report on the meeting for the establishment of the APIRG IIM Sub Group.</li> </ul>
<b>Related ICAO Strategic Objective(s):</b> <i>A – Safety, B – Air Navigation Capacity and Efficiency, D – Economic Development of Air Transport, and E – Environmental Protection.</i> <b>Related ASBU KPIs &amp; B0 Modules:</b> All applicable to AIM, CNS and MET

1. INTRODUCTION

1.1 APIRG/20 meeting, Yamoussoukro, Cote d’Ivoire 30 November 02 December 2015, in consideration of recommendations on regional planning and implementation formulated by the AFI/RAN SP 8 meeting, Durban, November 2008 (Recommendation 6/1—Regional performance framework, Recommendation 6/2—National performance framework, Recommendation 6/3 — Re-organization of the regional air navigation plan, Recommendation 6/4 — Re-organization of APIRG) confirmed that a performance-based approach to planning of air navigation services and aviation safety offered an opportunity to strengthen a continent wide commitment to improving safety and efficiency, toward resolving deficiencies and addressing critical issues and that the objective should be to develop a comprehensive report which would contain a set of proposed work programmes based on performance objectives with measurable outcomes and metrics.

1.2 In consideration of the above a list of Air Navigation Services (ANS) Key Performance Indicators and Targets comprising operational and institutional targets at the national and regional levels was discussed and approved by APIRG/20.

Furthermore, Conclusion 20/49 of the APIRG/20 Meeting, calls upon the Secretariat to develop a consolidated catalogue of all identified projects, using a standard format, to be endorsed by the APIRG PCC.

2 DISCUSSION



2.1 The meeting for the establishment of the APIRG IIM Sub Group held in Dakar, Senegal from 28 to 30 November 2016 identified a group of Aeronautical surveillance projects in support to Air Navigation Service. The identified projects are related to:

- a) **SSR Mode S**, in continental airspace to give to Air Traffic Centers, capacity to increase the surveillance of air traffic, enhancing safety, capacity and efficiency;
- b) **ADS-C**: In oceanic and continental remote airspaces to improve air navigation service by enabling the improvement of the space organization, the flexibility of routing;
- c) **ADS-B**: In continental airspace to provide the same level of service as given by SSR with cost effectiveness. ADS-B Space will combine the advantage of both ADS-C and SSR;
- d) **Mlat/WAM**: In approach and terminal areas to supplement with cost effectiveness SSR Mode S and ADS-B.

The IIM identified projects are attached as Appendices to this Working Paper.

### 3 ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Take note of the information presented in this working paper;
- b) Identify potential additional projects to be considered by the APIRG IIM Sub/Group ;
- c) Agree on further planning and implementation actions to be conducted.

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