



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
NINETEENTH MEETING (APIRG/19)
Dakar, Senegal, (28 – 31 October 2013)**

Agenda Item 3.5: Aeronautical Information Management (AIM)

REVIEW OF THE REPORT OF ATM/AIM/SAR/SG-13 MEETING

AERONAUTICAL INFORMATION MANAGEMENT

(Presented by the Secretariat)

SUMMARY

This Paper presents information on the outcome of the ATM/AIM/SAR SG/13 meeting convened in Nairobi, Kenya from 16-19 September 2013 related to AIM issues.

This Paper invites discussions on :

- a) AIM related outcomes of other meetings;
- b) Status of Implementation of the Conclusions/Decisions of the APIRG/18 Meeting related to AIM implementation;
- c) Draft Amendment of the AFI Basic ANP/FASID to reflect the Transition from AIS to AIM;
- d) Development of Air Navigation Report Forms (ANRF) under ASBU Methodology for ASBU Module B0 -DAIM (Performance Improvement Area 2);
- e) Survey of National Plans submitted by States in accordance with the Roadmap for transition from AIS to AIM;
- f) Implementation of Regional/Sub-regional databases;
- g) Adoption of Amendment 37 to Annex 15 by the ICAO Council;
- h) Reports of the Fifth, Sixth and Seventh Meetings of the AIS-AIM Study Group and their implication in the AFI Region.

The action by the Meeting is in paragraph 3.

REFERENCES :

- 12th Air Navigation Conference Report
- APIRG/18 – Report
- ATM/AIM/SAR SG/13 Meeting Report
- AFI AIM Implementation Task Force/2 Report

<i>Strategic Objective(s)</i>	This working paper related to the Strategic Objectives A and C
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1. INTRODUCTION

1.1 The ATM/AIM/SAR SG/13 meeting convened in Nairobi, Kenya from 16-19 September 2013, reviewed and took actions on the outcomes of the Second Meeting of the APIRG AFI AIM Implementation Task Force (AFI AIM TF/2) held in Nairobi, Kenya from 17-19 December 2012 and

deliberated on matters concerning : AIM related outcomes of other meetings; Status of Implementation of the Conclusions/Decisions of the APIRG/18 Meeting related to AIM implementation; Draft Amendment of the AFI Basic ANP/FASID to reflect the Transition from AIS to AIM; Development of Air Navigation Report Form (ANRF) under ASBU Methodology for ASBU Module B0 -DAIM (Performance Improvement Area 2);Survey of National Plans submitted by States in accordance with the Roadmap for transition from AIS to AIM; Implementation of Regional/Sub-Regional databases ; Adoption of Amendment 37 to Annex 15 by the ICAO Council and Reports of the Fifth, Sixth and Seventh Meetings of the AIS-AIM Study Group and their implication in the AFI Region.

2. DISCUSSION

AFI Region AIM related outcomes of other meetings

2.1 The meeting reviewed the information on the outcomes related to Aeronautical Information Services and Aeronautical Information Management in the AFI Region emanating from the APIRG/18 meeting, the 12th Air Navigation Conference (AN-Conf/12) and the Fifth and Sixth Meetings of the AIS-AIM Study Group (AIS-AIMSG/5/6).

2.2 The meeting then reviewed and updated the follow-up action on previous APIRG/17 and 18 Conclusions/Decisions related to AIM (Conc/Dec: 17/86, 17/88, 17/89,17/90, 17/91, 17/92: 17/93, 17/94, 17/95, 17/97, 18/35, 18/36, 18/37 18/38) as per **Appendix 3.5A** and agreed on the validity of these Conclusions/Decisions for continuous actions and consolidated all of them under one single draft Conclusion. Accordingly, the meeting endorsed the following draft Conclusion:

DRAFTCONCLUSION19/x: REGIONAL AND STATE PLANNING AND IMPLEMENTATION OF THE TRANSITION FROM AIS TO AIM

That:

- a) **The Region Develop performance goals for the transition from AIS to AIM in the AFI Region in line with the AFI transition roadmap from AIS to AIM and Aviation System Block Upgrades methodology;**
- b) **The Region and States identify achievable milestones in relation to the transition roadmap phase 1, 2 and 3;**
- c) **The Region and States develop and implement progress reporting structures, processes and frequency in terms of the transition roadmap phases 1, 2 and 3;**
- d) **States develop implementation action plans addressing the transition from AIS to AIM in line with the AFI AIS to AIM transition roadmap phases 1, 2 and 3 as well as aviation system block upgrades; and**
- e) **States to review and amend as required the AIS/AIM training programmes to encompass the required skills, competences and knowledge to transition from AIS to AIM in line with the AFI AIS to AIM transition roadmap.**

Draft Amendment of the AFI Basic ANP/FASID to reflect the transition from AIS to AIM

2.3 The proposed amendments to the AFIANP/FASID Doc. 7474 Vol.I and Vol.II with major changes in comparison to the previous versions were reviewed and it was noted that opportunity has been taken to change the title of this part from AIS to AIM to reflect the future direction on the provision of aeronautical information in the context of the Global ATM Operational Concept and associated Information Management.

2.4 The proposed amendments as reflected in the FASID Tables AIM-1 to AIM-9 were highlighted to ensure that the required data are populated in the new FASID AIM tables for the development of Regional e-ANPs which would be made available through GIS website

at ICAO HQ as per Appendix 3.5B1-B9.

2.5 The small work group for AIM reviewed the data contained in the tables for the States present in the group and updated them accordingly. The group proposed that the data be sent out to all States for review and update.

Development of Air Navigation Report Forms (ANRF) under ASBU Methodology in Performance Improvement Area 2 (ASBU Module B0 -DAIM)

2.6 The current performance framework forms (PFFs) have been redesigned and aligned with ASBU framework and called the Air Navigation Report Forms (ANRFs). The ANRF will be the basis for performance monitoring of the ASBU implementation. The meeting noted that effective 2014, and on annual basis, a Global Air Navigation Report will be released which indicates the following:

- The Regional Air Navigation Report Form (ANRF) that provides data for shared review will be utilized in developing the annual Global Air Navigation Report.
- The spirit of such a global review is to assist in understanding which areas require special attention and effectively improve air navigation performance in the future.
- This review also provides an opportunity for world civil aviation community to compare the progress across different ICAO Regions in the establishment of air navigation infrastructure.

2.7 The meeting was informed that according to the ICAO road map for transition from AIS to AIM, in AIM, some key aspects such as: Quality management system; WGS-84; AIRAC adherence; AIS Automation; Digital NOTAM; e-AIP; and e-TOD, should be considered.

2.8 The meeting then reviewed and endorsed the AIM Air Navigation Report Form (ANRF) attached under Appendix 3.5C1- C3.

Survey of National Plans submitted by States in accordance with the Roadmap for transition from AIS to AIM

2.9 The requirement for States to develop national plans for transition to AIM was reflected and details are to be shown in the AFIFASID. The meeting then reviewed and updated, as appropriate, the information at Appendix 3.5D concerning the National Plans submitted by States in accordance with the Roadmap for the transition from AIS to AIM and the current status in the AFI Region as per state circular letter ref. T 2/7-0725 dated 7 August 2012.

2.10 The meeting then agreed that an AIM/SWIM Seminar be organized in the AFI Region, in order to provide States with a better understanding of the planning and implementation issues related to the transition from AIS/AIM to Information Management/SWIM, and expedite the implementation of the AIM/SWIM requirements in a harmonized manner.

2.11 In view of the above the meeting endorsed the following draft Conclusion:

Draft Conclusion - 19/X– AIM/SWIM SEMINAR, FOR THE AFI REGION

That: In order to provide AFI States with a better understanding of the planning and implementation issues related to the transition from AIS/AIM to Information Management/SWIM, and expedite the implementation of the AIM/SWIM requirements in a harmonized manner with other regions, ICAO ESAF and WACAF Regional Offices in coordination with EUROCONTROL and Regional Air Navigation

Providers (ANSPs), undertake necessary action to organise an AIM/SWIM Seminar for 2014/2015.

Implementation of Regional/Sub-regional AIS Databases as an enabler for the transition from AIS to AIM

2.12 Considering the revised Global Air Navigation Plan adopted by the 12th Air Navigation Conference, it was agreed that the Concept of AFI-CAD when implemented, will offer all AIM related tasks including even the classic AIM services to reduce the ANSP's efforts and timelines needed by the States on their way to the AIS/AIM transition process. This is also in line with Recommendation 3/8 (c) of the 12th AN Conference which states:

Recommendation 3/8 (c): State actions relating to service improvement through aeronautical information management as well as digital air traffic management information

That States:

c) engage in intra-regional and interregional cooperation for an expeditious transition from aeronautical information service (AIS) to aeronautical information management (AIM) in a harmonized manner and to using digital data exchange and consider the regional or sub regional AIS databases as an enabler for the transition from AIS to AIM

2.13 To this effect, the meeting noted that ASECNA is progressively developing and plans to implement in accordance with the AFI-CAD Concept, a Regional AIS Database to accommodate all its Member States and other States in the AFI Region as per **Appendix-3.5E**. In accordance with the AFI-CAD Concept, the meeting also noted that South Africa has invited AFI States to join the South African Regional AIS Database as an alternative to enhance the AIM implementation process within the AFI Region as per **Appendix 3.5F**.

2.14 The meeting then endorsed the possibility of AFI States migrating to the ASECNA Regional AIS Database or to the South African Regional AIS Database in accordance with the AFI-CAD Concept.

2.15 In view of the above, the meeting endorsed the formation of a Working Group with terms of reference as per **Appendix 3.5I** to implement ASECNA's development of a Regional AIS Database intended to accommodate all States in the WACAF Region and ATNS's development of a Regional AIS Database intended to accommodate AFI States wishing to enhance the AIM implementation process.

Adoption of Amendment 37 to Annex 15 by the ICAO Council

2.16 The meeting noted that the 6th Meeting of the 198th Session of the Council of ICAO adopted Amendment 37 to Annex 15, effective 14 November 2013 and incorporating all Phase 2 AIS/AIM Roadmap transition steps, and that Amendment 57 to Annex 4 was also adopted by the ICAO Council.

Reports of the Fifth, Sixth and Seventh Meetings of the AIS-AIM Study Group and their implications in the AFI Region

2.17 The meeting was informed that with the implementation of the future Amendment 38 the total revision and restructure of Annex 15 will be complete. A new PANS-AIM Document will focus on procedures and practices, and revisions to Doc. 8126 will focus on the development of an AIS organization from an AIM perspective, and contain guidance on meeting the requirements of the SARPs

and PANS. The meeting was also informed about the anticipated AIM Divisional Meeting to be held in Montreal in February 2015. This Meeting will review and finalize the Draft PANS-AIM Document, Draft Amendment 38 and SWIM elements.

AFI Region AIS-AIM Air Navigation Deficiencies

2.18 The Secretariat provided an update on AIS-AIM related Air Navigation Deficiencies in the AFI Region. The Phase 1 Steps became effective on 18 November 2010, in line with the effective date of Amendment 36 to Annex 15. Several States reporting in accordance with the AFI Region WACAF State circular letter Ref.: T 2/7-0725 dated 7 August 2012 have not completed all Phase 1 Steps. Many States have failed to report any AIM implementation progress at all. It is considered that the AIS-AIM related deficiencies list should be updated to record deficiencies where States have reported that they have not yet completed the Phase 1 Steps or where they have failed to provide any reports of progress. The list of proposed AIS-AIM related deficiencies is provided at **Appendix 3.5G**

2.19 The meeting further noted the potential deficiencies arising when Amendment 37 to Annex 15 comes into effect on 14 November 2013, including the AIS-AIM Transition Phase 2 Steps. It is considered that this needs to be brought to the attention of APIRG/19 Meeting. A summary of AIS-AIM related deficiencies anticipated after 14 November 2013 based on implementation of Roadmap steps is provided at **Appendix 3.5H**

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information provided in this working paper;
- b) note the AIS-AIM related transition outcomes in the Region; and
- c) discuss
 - i.) regional AIS-AIM Transition progress;
 - ii.) the criticality of AIM to ATM safety, efficiency and capacity improvements required to manage increasing demand, including *inter alia* RNP approach procedures, PBN based separation and route structures, CCO, CDO, ATFM and airspace management;
 - iii.) strategies to promote the profile of AIS/AIM within States and ANSPs, and to ensure the necessary organizational focus and resources are applied to AIM implementation;
- d) review and adopt the above draft Conclusions to enhance the AIM implementation process within the AFI Region;
- e) pursuant to ANC 12Rec.3/8 (c), endorse the formation of a Working Group to implement ASECNA's development of a Regional AIS Database intended to accommodate all States in the WACAF Region and ATNS's development of a Regional AIS Database intended to accommodate AFI States wishing to enhance the AIM implementation process; and
- f) review and agree on Appendices under this paper for endorsement.

See: <http://www.icao.int/WACAF/Pages/meetings.aspx> for the following:

- a) ICAO AFI Region Seminar on Transition to AIM: Phase 1 to 3. (Dakar, Senegal, 25-26 November 2013)
- b) AFI Region Seminar/ Workshop on WGS-84 Implementation to Support GNSS and PBN aeronautical operations (Dakar, Senegal, 27 – 29 November 2013);
- c) ICAO AFI Region LIDAR Seminar/Workshop (Dakar, Senegal, 30th November 2013);

