



International Civil Aviation Organization
Eastern and Southern African Office

**Thirteenth Meeting of the Air Traffic Management/Aeronautical Information Management/Search and Rescue Sub-Group (ATM/AIM/SAR SG/13)
(Nairobi, Kenya, 16 - 19 September 2013)**

Agenda Item 12: AIM Issues

REVIEW OF THE LATEST DEVELOPMENTS AS OF APIRG/18 MEETING, IN THE IMPLEMENTATION OF THE AIM PROVISIONS, THE REQUIREMENTS OF THE AIS TO AIM TRANSITION ROADMAP, AND TAKE NECESSARY ACTION TO SUPPORT IMPLEMENTATION

(Presented by the Secretariat)

SUMMARY

This Paper presents information on the outcome 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.

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 in Performance Improvement Area 2 (ASBU BO -30);
- e) Survey of National Plans submitted by States in accordance with the Roadmap for transition from AIS to AIM;
- f) Updates on the implementation of the AFI-CAD Business Plan as per Appendix 3.6 I (AFI-CAD Doc. 007) of the APIRG/17 Report;
- 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 its implication in the AFI Region.

GLOBAL PLAN INITIATIVES:

GPI-18 Aeronautical Information

GPI- 19 Meteorological Systems

The Sub-Group is required to review and adopt Draft Conclusions emanating from this Paper.

REFERENCES:

12th Air Navigation Conference Report

APIRG/18 Report

AFI AIM Implementation Task Force/2 – Report of Second Meeting (Nairobi, 17-19 July 2012)

This Working Paper is related to Strategic Objectives: **A & C**

1. INTRODUCTION

1.1 The Second meeting of the AFI Region AIM Implementation Task Force was convened at the ICAO ESAF Office, Nairobi, Kenya from 17 - 19 December 2012. The main objective of this meeting was to provide guidance to States, in accordance with the requirements of AFI Part of the Draft e-ANP that has been presented at the 12th Air Navigation Conference. The meeting also review the ASBU modules related to interoperability system and data (AIM) that has been presented at the 12 Air Navigation Conferences. It is expected that operational improvements will be outlined in a logical stepwise block upgrades that at a minimum: *identifies the operational benefit; determine the necessary procedures; nominate the required technology; develop the business case; and propose a preliminary strategy for regulatory approval.*

1.2 The meeting was attended by 24 participants from 14 AFI Region ICAO Contracting States and 1 International organization (ASECNA). The AFI AIM Implementation Task Force developed one Draft Conclusion.

2. DISCUSSION

AFI Region AIM related outcomes of other meetings

2.1 The Secretariat presented information on meeting outcomes related to Aeronautical Information Services and Aeronautical Information Management in the AFI Region from the following meetings:

- a) The Eighteenth Meeting of the AFI Planning and Implementation Regional Group (APIRG/18);
- b) The 12th Air Navigation Conference (AN-Conf/12); and
- c) Fifth and Sixth Meetings of the AIS-AIM Study Group (AIS-AIMSG/5 and AIS-AIMSG/6).

Status of Implementation of the Conclusions/Decisions of the APIRG/18 Meeting related to AIM implementation

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) and agreed on the validity of these Conclusions/Decisions for continuous action as per **Appendix 12-A**.

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

2.3 The meeting reviewed the proposed Amendment to the AFI ANP/FASID Doc. 7474 Vol.I and Vol.II with major changes in comparison to the previous versions and 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 System Wide Information Management.

2.4 The meeting noted the proposed amendments as reflected in the FASID Tables AIM-1 to AIM-9 of this paper and ensured that the required data is populated in the new FASID AIM Tables for the development of Regional e-ANPs to be made available through GIS website at ICAO HQ as per **Appendix 12 B1-B9**.

Development of Air Navigation Report Forms (ANRF) under ASBU Methodology in Performance Improvement Area 2 (ASBU BO -30)

2.5 It is to be recalled that the SP AFI RAN 08 meeting held in Durban, South Africa agreed to the introduction of a performance-based approach to the planning of air navigation services in the AFI region. Subsequently, a series of performance framework Forms (PFF) relating to air navigation fields was considered by the meeting and referred to APIRG as a mechanism to identify the performance objectives as well as to establish timeframes for the regional planning and implementation process. This was further confirmed by the following APIRG/17 Decision17/87 (a):

DECISION 17/87: PLANNING FOR THE TRANSITION FROM AIS TO AIM

That,

- a) **based on the ICAO global ATM operational concept and the ICAO roadmap for the transition from AIS to AIM, the AFI AIM Implementation Task Force (AFI AIM TF): and**
- b) **Develop performance goals for the transition from AIS to AIM in the AFI Region and identify achievable milestones.**

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

Quality management system; WGS-84; AIRAC adherence; AIS Automation; Digital NOTAM; e-AIP; e-TOD.

2.7 The current PFFs have been redesigned and aligned with ASBU framework and called the Air Navigation Report Form (ANRF). The ANRF will be the basis for performance monitoring of the ASBU implementation. The ANRF templates for all the 18 Modules of the ASBU Block 0 will be available in Volume III of the e ANP and the FASID of each Regional e-ANP. The meeting also noted that effective 2014, and on annual basis, a Global Air Navigation Report will be released which indicates the following:

- a) The Regional Air Navigation Reports (ANRF) that provides data for shared review will be utilized in developing the annual Global Air Navigation Report.
- b) The spirit of such a global review is to assist in understanding which areas requires special attention and effectively improve air navigation performance in the future.
- c) 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.

2.8 The meeting then reviewed and endorsed the new ASBU framework called the Air Navigation Report Forms (ANRF) attached under **Appendix 12 C1- 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 AFI FASID. The meeting then reviewed and updated, as appropriate, the information at **Appendix 12D** 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 proposed 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 The meeting then agreed as follows:

Draft Conclusion - 2/1 – AIM/SWIM SEMINAR, SIP FOR THE AFI REGION

That the ICAO Regional Offices Dakar, and Nairobi, 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, undertake necessary action, in coordination with EUROCONTROL, and Regional ANSP's for the organisation of an AIM/SWIM Seminar, as a Special Implementation Project (SIP) for 2014/2015.

Updates on the implementation of the AFI-CAD Business Plan as per Appendix 3.6 I (AFI-CAD Doc. 007) of the APIRG/17 Report

2.12 Following the recent review of the revised AFI Plan 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 has also been re-confirmed by Recommendation 3/8 (c) of the 12th AN Conference which states:

ANC 12 Rec.3/8 (c):

That States:

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 the States in the Western and Central African Region as per **Appendix-12E**. 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 with the AFI Region as per **Appendix 12F**.

2.14 The meeting then endorsed the possibility of AFI States migrating to the ASECNA Regional AIS Database in accordance with the AFI-CAD Concept as per Recommendation 3/8 (c) of the 12th Air Navigation Conference, and also endorsed the possibility of AFI States migrating to the South African Regional AIS Database in accordance with the AFI-CAD Concept as per Recommendation 3/8 (c) of the 12th Air Navigation Conference.

Adoption of Amendment 37 to Annex 15 by the ICAO Council

2.15 The meeting reviewed the proposal to amend Annex 15-Aeronautical Information Services with consequential amendments to Annex 4-Aeronautical Charts, Annex 11-Air Traffic Services, and Annex 14 – Aerodromes, Volume I – Aerodrome Design and Operations, and Volume II – Heliports, relating to the quality system, use of automation, electronic AIP, NOTAM format, electronic terrain and obstacle data. Additionally, the paper presents a proposal to re-structure the first three chapters of Annex 15 to strengthen the progress of the transition from aeronautical information service (AIS) to aeronautical information management (AIM).

2.16 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. Amendment 57 to Annex 4 was also adopted.

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

2.17 The meeting reviewed the summary of the results of the Fifth Meeting of the ICAO AIS-AIMSG and related comments concerning the activities of the ICAO AIS-AIMSG Ad-hoc Group on AIM Development and the Ad-hoc Group on Aeronautical Charting. The meeting then noted the work program, and the progress made with the AIS-AIMSG. The Secretariat provided information to the meeting on the recently adopted Amendment 37 to Annex 15, and future ICAO document changes supporting the transition of AIS to AIM. The information included previous work by the Global AIS-AIM Study Group (AIS-AIMSG) including the *Roadmap for the Transition of AIS to AIM* and Amendment 36 to Annex 15.

2.18 Information was provided on the work done to develop a strategy to move Annex 15 to an AIM operational focus, including redeveloping Annex 15 in 2 phases across 2 amendments, developing a *PANS-AIM*, reworking Doc. 8126-*Aeronautical Information Services Manual*. Amendment 38 to Annex 15 is being planned by AIS-AIMSG, focussed on developing new chapters 4, 5, and 6 dealing with Aeronautical data information scope and collection, temporality and distribution, and information services. These new chapters will replace current chapters 4-11, and the existing material in those chapters will be reviewed and either retained, relocated or deleted. Concurrent with the Amendment 38 development activity, a new PANS-AIM document will be developed, assembled in part from material identified for relocation from Annex 15.

2.19 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 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.

AFI Region AIS-AIM Air Navigation Deficiencies

2.20 The Secretariat provided an update on AIS-AIM related Air Navigation Deficiencies in the AFI Region. The meeting discussed the fact that the deficiency list does not reflect the Region's performance in Implementation of Phase 1 of the AIS-AIM Roadmap. 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 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-12G**.

2.21 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 -12H**.

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;
- c) discuss regional AIS-AIM Transition progress, 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, 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 draft conclusions to enhance the AIM implementation process within the AFI Region;
- e) consider and endorse the new ASBU framework called the Air Navigation Report Form (ANRF) attached hereto, for review and update as necessary under Appendix XX;
- f) develop additional ANRF's to meet any new performance objective identified for the AFI Region as necessary;
- g) pursuant to ANC 12 Rec.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;

- h) review the Terms of Reference and work programme of the working Group at **Appendix-12I** for endorsement; and
- i) review and agree on Appendices under this paper for endorsement.
