



INTERNATIONAL CIVIL AVIATION ORGANIZATION

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

Agenda Item 5: Identification of the linkage between AFI IIM Projects

5.1: AIM-MET projects links

(Presented by the Secretariat)

SUMMARY

This paper presents an over view of factors leading to the establishment of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG) and associated projects. It also provides a list of AIM and MET projects and the linkage between them.

Action by the meeting is at **paragraph 3**.

REFERENCES

- SP AFI/08 RAN Report
- GANP 5th edition
- APIRG/19 & APIRG/20 Reports
- IIM/E Report
- APCC/1 Report

This Working Paper is related to Strategic Objective: **A**

Introduction

1.1 The alignment of the Regional Air Navigation System Implementation Plan with the ASBU Methodology was discussed in the APIRG/19 Meeting, held in Dakar, Senegal from 28 to 31 October 2013. In considering the implications for APIRG under the new ICAO Global Air Navigation Plan (GANP) and being mindful of the outcome of the SP AFI/08 RAN Meeting, APIRG/19 decided, amongst others, to review its working methods and organization using project management principles and other methodologies as and when necessary, and consider making adjustments to better support the ICAO performance framework in its planning and implementation activities aligned with the aviation system Upgrades.

1.2 In its 20th meeting, APIRG adopted a new structure which the included the Infrastructure and Information Management (IIM/SG). The IIM/SG comprises MET, AIM and CNS technical Areas.

1.3 Through APIRG Conclusion 20/49, the set of projects identified by previous APIRG sub groups including AIM and MET were adopted and made applicable to the IIM/SG by the APIRG Projects and coordination committee in its first meeting held in Nairobi from 30-31 January 2017 which also formally dissolved the previous sub groups through its Decision 1/01.

1.4 The APIRG Projects Coordination Committee (APCC), in its first meeting held in Nairobi, Kenya from 30 to 31 January, directed that the APIRG Sub-groups should establish linkage between Projects to be under taken by the Sub-groups to enhance coordination, eliminate duplication and create synergies.

2 Discussion

2.1 In response to the APCC directive, this working papers attempts to establish linkages that may exist between AIM and MET projects under IIM/SG. The purpose of which is identify the inter-linkage in order to avoid duplications and ensure compatibility and interoperability.

2.2 In support of the future ATM systems, the AMET Modules of the ASBU methodology GANP require the exchange of OPMET information in digital format during the implementation of ASBU Block 0 Module (2013-2018). Due to the volume of the data, AMHS is required for the exchange. Trials on AMHS have been conducted in AFI region by particularly ATNS (South Africa) and ASECNA.

2.3 The meeting will recall that the aim of the AIM is to ensure the flow of aeronautical information/data necessary for safety, regularity, economy and efficiency of international air navigation.

2.4 The meeting will further recall that in the roadmap for transition from AIS to AIM, one major milestone is ensuring Interoperability with meteorological products.

2.5 The meeting will recall that meteorological information will be a key enabler to the globally interoperable, harmonized ATM system of the future through system-side information management (SWIM) and the associated collaborative decision making within the operational community.

2.6 MET and AIM Projects identified are listed in **attachment 1** to this working paper

2.7 AIM2/MET2 Project will address the exchange of digital OPMET and other aeronautical information through the established AFI RODBs (Dakar and Pretoria). The meeting may wish to formulate the following draft conclusion:

2.8 Pursuant to Conclusion 20/41 of the APIRG/20, AFI States will be encouraged to participate in the activities of the future Expert Group on the implementation of the AIM and MET related SWIM Activities

This will consist of the following:

i) The global transition plan for table-driven data representation (XML/GML) for AIM and MET Data such as, METAR/SPECI, TAF and SIGMET

ii) Transition Plan for handling OPMET Information AIM information in Digital Format in the AFI region

iii) Training Seminars to develop capability building for handling OPMET and AIM data in digital format in the AFI region

Draft Conclusion 1/xx: Aeronautical Information Exchange

That, all AFI aeronautical digital information will be exchanged through the established AFI Meteorological Bulletin Exchange (AMBEX) scheme.

2.8 AIM3/MET1/MET2 projects will provide electronic terrain and obstacles data for the provision of digital MET data. The meeting may wish to formulate the following draft conclusion:

Draft Conclusion 1/xx: Use of e-TOD Data for the provision of MET Data

That, e-TOD Data be used in the provision of digital OPMET data in the AFI Region.

Action by the Meeting

3.1 The meeting is invited to:

- a) Note the information provided in this working paper;
- b) decide on the draft Conclusions proposed for the Sub-Group's consideration.

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Appendix

IIM PROJECTS

AIM –Projects

1. AIM₁. Assessment and development of QMS applied to AIM in AFI States
2. AIM₂. Implementation of Aeronautical Information Exchange Systems (AIXM)
3. AIM₃. Implementation of the provision of electronic terrain and obstacle data (e-TOD) (AFI Region)

MET –Projects

1. MET₁. Implementation of information concerning en-route weather phenomena which may affect the safety of aircraft operations (SIGMET), Quality Management System for aeronautical meteorology (QMS/MET) service, in the AFI region
2. MET₂. Implementation of Terminal Area Warnings and Forecasts, Provision of WAFS Forecasts and Optimization of OPMET data exchanges in the AFI Region

Proposed AIM/MET Projects

	AIM ₁	AIM ₂	AIM ₃
MET ₁			X
MET ₂		X	X