



INTERNATIONAL CIVIL AVIATION ORGANIZATION

Sixth Meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG6)

(Nairobi, 31st July – 3rd August 2023)

Agenda Item 3 Achievements in CNS, AIM and MET

3.2. Implementation of ASBU elements and Achievements of IIM Projects

WP3.2K Summary of achievements of APIRG IIM/SG regional Projects (Aeronautical Meteorology (MET) Project 1)

Provision of global, regional, and local meteorological products/Information

[Presented by: Met Project 1 PTC (South Africa)]

SUMMARY
<p>This working paper outlines the summary of achievements on the implementation of APIRG Projects under APC/IIM/SG Meteorology Project 1, for consideration by the meeting.</p> <p>Action by the meeting in paragraph 3</p>
<p>REFERENCE(S):</p> <ul style="list-style-type: none"> ▪ ICAO State Letter reference T17/6.11 – 0194 dated 20 March 2023 and T17/6.11 – 0247 dated 13th of April 2023. ▪ APIRG 25th meeting Report, APIRG/25 Decision 25/13, and decision 25/17 ▪ Doc 9750, Global Air Navigation Plan ▪ Electronic Air Navigation Plan— Africa-Indian Ocean Region (eANP- AFI) ▪ APIRG Procedural Handbook
<p>This working document relates to ICAO Strategic Objectives:</p> <p>A – Aviation Safety, B – Air Navigation Capacity and Efficiency,</p> <p>KPIS and concerned ASBU B0 Modules:</p> <p>B0/1-AMET PFF – 1, ASEP, FRTO, CDO and CCO</p>

1. INTRODUCTION

1.1 Aeronautical meteorological service provision is integral to the realization of a safer and more efficient globally interoperable air transport system. In this regard, Aeronautical Meteorology (MET) is required to provide information to satisfy the needs of the future ATM system. As the future ATM system evolves, the demands on MET will require improved or new systems, information, and products to support it.

1.2 In line with the latest edition of the Global Air Navigation Plan (GANP) approved by ICAO Council and the associated Aviation System Block Upgrades (ASBU) methodology, the

overarching outcome of MET/14 is that the future development of MET services shall be fully aligned and integrated into the future System Wide Information Management (SWIM) system.

- 1.3 So far the Global, regional and local meteorological information is supposed to have reached the stage where it is able to support flexible airspace management, improved situational awareness, collaborative decision-making and dynamically optimized flight trajectory planning; which is what this Project team has assessed and come up with the draft project plan to assist some of the States within the ICAO AFI Region that will be implemented over the period of two years.
- 1.4 APIRG Infrastructure and Information Management Sub – Group, Meteorology Project one (APIRG IIM/SG MET Project 1) was established in 2017, during the first meeting of APIRG IIM/SG meeting held in Nairobi, Kenya from 27 to 30 June 2017. At the time, the main objective was to assist AFI states with the implementation of:
 - SIGMET and standards and recommended practices of Annex 3 and Part V – MET of the AFI Air Navigation Plan (ANP)
- 1.5 The objective of this Project team have been revised during the re-alignment process that was approved by APIRG/25 through APIRG/25 Decision 25/13 in the APIRG/25 held in Kigali, Rwanda from the 7th – 11th of November 2022. The main purpose have been the :
 - a) Alignment of the project’s references with the groups, threads, elements of ASBU modules introduced by the 6th edition of the GANP and applicable to the AFI region in MET area.
 - b) Establishment mechanism to address, Low level of implementation of AMET-B0 module applicable elements in the AFI region.
- 1.6 Within the revised scope of the Project, the main objective will be to:
 - a) Assist States to review and conduct gap analysis between their National ASBU Plans and the Regional Air Navigation Plan.
 - b) Assist States in updating their National Plans to integrate ASBU elements applicable in their area.
 - c) Assist States in the implementation of State ASBU implementation action plan.
 - d) Report on the implementation of project activities.
- 1.7 Project team membership/composition: [Appendix A]

Appendix A: to the Working paper

2. DISCUSSIONS

2.1 Project Scope

The Project benefit to all ESAF and WACAF States and interested Organizations and cover the implementation of the following ASBU MET elements.

- AMET-B0/1 Meteorological observations products
- AMET-B0/2 Meteorological forecast and warning products
- AMET-B0/3 Climatological and historical meteorological products
- AMET-B0/4 Dissemination of meteorological products

2.2 Baseline (2022) – Status of the ASBU implementation [Appendix B]

The project team have received ASBU implementation information (through the ASBU Collection Tools) from 33 States, and the process to identify States that will be assisted with the implementation of the ASBU elements is still underway (Preliminary work has already been done). The status of the implementation of the ASBU elements by these States is provided in the graphs below.

- 31 States responded to the distributed ASBU data collection tools.
- The 2022 Baseline is **30% for AMET B0/1, 30% for AMET B0/2, 10% for AMET B0/3 and 30% for AMET B0/4.**
- The milestone set for 2023 requires the Project team to achieve **50% for AMET B0/1, 50% for AMET B0/2, 50% for AMET B0/3 and 50% for AMET B0/4.**
- The target at the end of the project is set at **80% for AMET B0/1, 80% for AMET B0/2, 80% for AMET B0/3 and 80% for AMET B0/4.**

The status of the implementation of the ASBU elements, based on the received information from individual States is at 72% with:

- AMET – B0/1 at 72%,
- AMET – B0/2 at 82%
- AMET – B0/3 at 77%
- AMET – B0/4 at 58%

The individual implementation Status for each state is as indicated in **Appendix B**, to this working paper.

2.3 Status of the implementation of the 2023 Action Plan [Appendix C]

The project team is on track in terms of the implementation of the project team’s activities: which includes the coordination of meetings,

- Review of the project Implementation guidance materials,
- Confirmation of the Team membership,
- Revise Project Team Costing,
- Assess status of Implementation of the AMTE B0 elements/analyse the ASBU Data Collection tools received from ICAO RO,
- Perform ASBU gap analysis and Establish Priorities,
- Produce the report on ASBU analysis and,

The team is currently in the process of developing Action Plan to address the deficiencies identified upon Gap analysis.

The team have already identified Project Team Experts who will drive the process of assisting States as needed through.

- Trainings
- Workshops
- Drafting of guidance materials
- Drafting of Operational procedures
- National Framework

2.4 Revised Project Team Costing [Appendix D]

The draft project team costing has been attached as appendix D to this working paper.

3. ACTIONS BY THE MEETING

3.1 The meeting is invited to:

- a) Note the Progress made by the Project Team
- b) review and provide input, the status of ASBU Threads/Elements related to ASBU Block 0 - AMET and encourage states to update their status of implementation.
- c) Encourage States to provide support to the nominated experts, that will enable them to provide meaningful contribution to the work of the project teams.

3.2 **Draft Conclusion /Decision 6/xx : Title of Conclusion/Decision**

That ;

- a) APIRG IIM/SG/5 considers and approve the 2023 Implementation plan for IIM/SG Met Project 1 as well as its associated project costing.

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