

INTERNATIONAL CIVIL AVIATION ORGANIZATION
Seventh Meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG7)

(Dakar, 5 – 8 August 2024)

Agenda Item 3: *Achievements in Infrastructure and Information Management*
3.3. Implementation of ASBU elements and achievements of IIM Projects
WP 3.3P – Update on development of Project Documents (ProDoc), including the the Project Costing

(Presented by the Secretariat)

SUMMARY
<p>This working paper provides an update on the development of the Project Documents (ProDocs) including the projects costing.</p> <p>Action by the meeting in paragraph 3</p>
<p>REFERENCE(S):</p> <ul style="list-style-type: none"> ▪ APIRG Procedural Handbook ▪ APIRG/20 Report ▪ APIRG/21 Report ▪ APIRG/26 Report
<p>Related ICAO Strategic Objectives: A – Safety; B – Capacity and Efficiency</p>

1. INTRODUCTION

- 1.1 The Twentieth Meeting of the AFI Planning and Implementation Regional Group (APIRG/20), held in Yamoussoukro, Cote d'Ivoire, from 30 November to 2 December 2015, adopted through Conclusion 20/49, initial set of regional projects to assist States in the implementation of air navigation facilities and services in Africa.
- 1.2 The Meeting called the APIRG through its APCC to explore assistance and funding mechanisms in cooperation with regional and sub-regional organizations such as the African Union, the African Civil Aviation Commission, Regional Economic Communities (RECs) and financial institutions to support the Projects implementation.
- 1.3 The Twenty-first Meeting of APIRG (APIRG/21), held in Nairobi, Kenya, from 9 to 11 October 2017 recognized the challenges faced in implementing project approach and reiterated APIRG's mandate to explore assistance and funding mechanisms in cooperation with regional and sub-

regional organizations such as the African Union, AFCAC, Regional Economic Communities (RECs) and financial institutions, in accordance with the Conclusion 20/49.

2. DISCUSSIONS

- 2.1 In line with the Conclusion 20/49 of APIRG, the Secretariat developed a consolidated catalogue of all identified projects, using a standard format, to be endorsed by the APCC. In doing so, projects should be structured according to applicable areas of routing.
- 2.2 Consistent guidance on the development of ProDoc and related project costing were provided to the PTCs in May 2023 to assist them in evaluating project costs. At the Sixth Meeting of the IIM/SG held in Nairobi in 2023, 7 out of the 15 IIM Project Teams submitted their draft Projects. It was agreed after discussions that the Prodocs cannot be partially submitted to the APCC/8 meeting and therefore, all the projects' documents should be finalized for submission to the APCC/9 meeting for consideration.
- 2.3 **Appendix A** to this working paper presents the summary of project documents received so far.
- 2.4 In reviewing the draft project documents submitted, the Secretariat noted the need to harmonize the ProDocs and revise the costing for consistency with the planned activities.

3. ACTIONS BY THE MEETING

- 3.1 The meeting is invited to:
 - a) note the information provided in this paper.
 - b) urge the Secretariat to coordinate with IIM Project Team Coordinators the finalization of the project documents by 30 September 2024.

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IIM Project references	IIM Project title	Project Objectives	Estimated Cost (USD)	Comments
AIM Project 4	Monitoring of the Aeronautical information quality and Improvement of NOTAM	Deliver performance report on the improvement of aeronautical information quality by States, develop necessary assistance documents and tools and assist States in the provision of enhanced NOTAM.	-	Not available
AIM Project 5	Implementation of Aerodrome mapping data sets and Instrument flight procedure data sets	Develop necessary assistance documents and tools and assist States in the implementation of Aerodrome (AD) mapping data sets and Instrument flight procedure (IFP) data sets.	-	Not applicable
COM Project 1	Implementation of Ground/Ground communication (ATS/DS, AIDC, VoIP)	Assist States in implementing Air Traffic Service/Direct Speech (ATS/DS), Data communication between air traffic services (AIDC: Air Traffic Service Interfacilities Data Communication) , and the Voice over Internet Protocol (VoIP: Voice over Internet Protocol) in accordance with the operational requirements of Annex 11, Doc 4444 Procedures for Air Navigation Services and the provisions of Annex 10 Volumes II & III	186 656	
COM Project 2	Implementation of Ground/Ground communication (AFTN, AMHS)	Assist States in the implementation of Aeronautical Fixed Service Network (AFTN) and Air Traffic Service Message Handling System (AMHS) in compliance with ICAO requirements.	340 512	ProDoc and planned actions to be reviewed and Cost to be adjust accordingly
COM Project 3	Implementation of Air/Ground communication (HF/VHF voice data, CPDLC)	Assist States in the implementation of Aeronautical Mobile Service through High Frequency/Very High Frequency (HF/VHF) voice Communication, High Frequency/Very High Frequency Data link communication (HF/VHF DL) and Controller/Pilot Data Link Communication (CPDLC).	147 372	
COM Project 4	Implementation of interoperable seamless telecommunication infrastructure	Develop an AFI interoperable seamless telecommunication infrastructure to support ATM, AIM, MET and aeronautical telecommunication services.	112 458	
COM Project 5	Assessment of AFI Aeronautical Networks Cyber Security	Develop and implement a global Cyber resilience framework over the AFI region for Air Navigation Services to prevent internal and external threats impacting availability, reliability, integrity and continuity of Air Navigation Services	123 940	
NAV Project	Implementation of Conventional Nav'Aids and GNSS (Core and Augmented)	Analyse the implementation and operational status of conventional radionavigation aids and the use of GNSS (both core and augmented) and propose a strategy going forward in line with the recommendations and requirements of the GANP and Annex 10 as well as the relevant outcomes of the 14 th Air Navigation Conference.	66 480	

IIM Project references	IIM Project title	Project Objectives	Estimated Cost (USD)	Comments
SUR Project	Implementation of Surveillance systems	Assist States in the implementation of the Secondary Surveillance Radar Mode S (SSR), the Automatic Dependent Surveillance Contract (ADS-C) and the Automatic Dependent Surveillance Broadcast (ADS-B) ground and space based Multilateration (Mlat) in ompliance with the related requirements.		Project costing not received
SPEC Project	Development of Policies and Systems for protection of Aeronautical Frequency	Develop a resilient framework for coordination of Aeronautical frequencies in the region, Establish a forum and logical infrastructure for coordination of aeronautical frequencies with State regulators sub-region and regional frequency Management bodies, Ensure states are conversant with developed ICAO tools on frequency management, Establish a forum for coordination and support of ICAO positions for forthcoming WRC and Carryout studies on effects on aeronautical frequency bands from adjacent bands.		Project costing not received
MET Project 1	Provision of global, regional, and local meteorological products/Information	Assist States in transitioning from current aeronautical meteorological information to the future SWIM-enabled environment in the AFI region by assisting AFI States to progressively develop capability of handling OPMET data in digital format (XML/GML) and to start using XML/GML codes in operational environment.	508 154	Estimated cost higher, need to review the ProDoc and planned actions to adjust the costing accordingly.
MET Project 2	Provision of meteorological information in the ICAO Meteorological Information Exchange Model (IWXXM) format	Assist States in developing capacity to handle the OPMET data in digital format (XML/GML) and to start using XML/GML codes in operational environment by 2024	431 984	Estimated cost higher, need to review the ProDoc and planned actions to adjust the costing accordingly.
MET Project 3	Implementation of ICAO Annex 3 provisions relating to Space Weather requirements within the AFI Region	Assist the states within the ICAO AFI region to meet the space weather information requirements in accordance with the ICAO Annex 3.	64 838	
MET Project 4	Implementation of Aeronautical Meteorological Personnel Competency Standards in the AFI Region	Assist States in complying with the requirements of the World Meteorological Organization (WMO) in respect of qualifications, competencies, education and training of meteorological personnel providing service for international air navigation Implementing a competency assessment process for aeronautical meteorological forecasters (AMF) and aeronautical meteorological observers (AMO).	270 500	ProDoc and planned actions to be reviewed and Cost to be adjusted accordingly
MET Project 5	Mitigation of the deficiencies related to the availability of the OPMET data in the AFI region	Assist States in improving the availability of OPMET data to end-users in the AFI region	55 740	
Total			2 308 634	