



ORGANISATION DE L'AVIATION CIVILE INTERNATIONALE

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

(Nairobi, July 31 – August 03, 2023)

Agenda item 3.4: Achievements in the implementation of IIM/SG projects

WP3.2A Evaluation of the COM 1 project: Implementation of ground/ground communication (ATS/DS, AIDC, VoIP)

(Presented by the IIM COM1 project team)

SUMMARY
<p>This working paper presents the progress of the IIM-SG COM 1 project “Implementation of ground/ground communication (ATS/DS, AIDC and VoIP)” and the various challenges encountered. Meeting action in <b>paragraph 3</b> .</p>
<p><b>REFERENCE(S):</b></p> <ul style="list-style-type: none"> <li>▪ Annex 10 – Aeronautical Telecommunications (Volumes 1, 2 and 3)</li> <li>▪ Appendix 11 – Air Traffic Services</li> <li>▪ Doc 4444 – Procedures for Air Navigation Services</li> <li>▪ Doc 9694 – Manual of Air Traffic Services (ATS) Data Link Applications</li> <li>▪ IIMSG5 WP3.1A3 Appendix 2 Level of implementation of ASBU elements in the CNS domain</li> </ul>
<p>This working paper relates to <b>ICAO's Strategic Objectives</b> : air navigation safety, capacity and efficiency.</p> <p><b>KPIS and ASBU B0 modules concerned:</b> KPI ASBU and associated B0 modules:  All APIRG projects specifically related to:</p> <ul style="list-style-type: none"> <li>▪ PIA2 - Increased interoperability, efficiency and capacity through ground-to-ground integration (B0-FICE)</li> <li>▪ PIA3 - Increased Effectiveness of Ground Safety Nets (B0-SNET)</li> <li>▪ PIA3 - Air Traffic Situational Awareness (ATSA) (B0-ASEP)</li> </ul>

1. INTRODUCTION

1.1 The IIM-SG COM 1 project “Ground/Ground Communication Implementation (ATS/DS, AIDC and VoIP)” will foster ground/ground coordination communications supporting improved safety, capacity and aeronautical operational efficiency in the AFI region. A brief description is provided in Annex A.

1.2 The objectives of the project are to assist States in the implementation of \_:

- a) Air Traffic Service/Direct Speech (ATS/DS: Air Traffic Service/Direct Speech).



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- b) Data communication between air traffic services (AIDC: Air Traffic Service Interfacility Data Communication).
- c) Voice over Internet Protocol (VoIP: Voice over Internet Protocol )

**1.3** All tasks will be executed by telecommunication experts nominated by the AFI States participating in the project, led by the Project Team Coordinator and under the supervision of the project facilitators (OR/CNS, Dakar and Nairobi) according to the methodology of work of the SG IIM. Once the tasks are completed, the results will be sent to the project facilitators as a final document for submission and, if necessary, approval by the APIRG Project Coordinating Committee (APCC ).

## 2. DISCUSSION

### 2.1 Principles of achievements

As part of the implementation of the COM 1 project, after the various exchanges and meetings, the group has issued the following documents:

- The description of the Project;
- The action plan;
- The Project planning;
- The questionnaire for collecting the concerned systems status;
- The Project cost estimate (budget).

The project team proposes to develop the guide for the implementation of ATS/DS, AIDC and VoIP in the APIRG zone.

The project team will breakdown the project scope into tasks with given deadlines for the deliverables. The framework for consultation, exchanges and meetings of the group can be done by teleconference, chatting, or in physical meeting. All deliverables will be subject to validation, by the group and/or by the coordinator before being submitted to APIRG approval.

#### 2.1.1 IIM-SG COM 1 Action Plan

An action plan, that resume major actions, has been developed and provided in Annex C.

#### 2.1.2 Status of the implementation of the action plan IIM-SG COM1 2023

The IIM-SG COM 1 project is based on three (3) systems domains which are the ATDS/DS, AIDC and VoIP.

A questionnaire (provided in Annex D) is proposed to collect data about the status of implementation of the 3 systems. An assessment will be made based on collected data to determine the percentage of implementation of the three systems in AFI Region.

This questionnaire will help to identify ATS/DS, AIDC and VoIP systems implementation rates.

Project activities are planned and monitored through the IIM COM 1 Project Plan (provided in Annex C).



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### **2.1.3 Evaluation of the implementation of ATS/DS, AIDC and VoIP in the AFI Region** *(project baseline questionnaires)*

A survey questionnaire on the implementation of ATS/DS, AIDC and VoIP systems in the AFI region was developed by the project team. That questionnaire (different from the first one) will be used to get feedback from concerned States while they are completing the systems implementation. According to IIM-SG5 WP3.1A3 Appendix 2 Level of implementation of ASBU elements in the CNS domain, the rate of implementation of AIDC is up to 5%. A monitoring is required during 2024 to state about the rate of implementation of ATS/DS, AIDC and VoIP systems in each State.

### **2.1.4 IIM-SG COM 1 Project Cost Estimate**

The project cost has been estimated and a draft of budget is provided in Annex E.

## **3. RECOMMANDATION TO THE MEETING**

**3.1** The meeting is invited to:

- a) Approve a capacity building workshops for the project teams on ATS/DS, AIDC and VoIP systems.
- b) Approve the project budget.
- c) Provision the project with required resources as suggested by the project team.
- d) Officially nominate the COM1 Project team members.

### **3.2 Conclusions**

- COM1 Project Team members to contribute significantly according to their sphere of competences.
- ICAO support team to coach the COM1 Group as well as necessary to encourage members participation.

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**Annex A:** IIM-SG COM 1 Project Description.

**Annex B:** IIM-SG COM 1 Action Plan.

**Annex C:** IIM-SG COM 1 Project Planning.

**Annex D:** ATS/DS, AIDC and VoIP Implementation Status Questionnaire.

**Annex E:** IIM COM 5 Project Cost Estimate.