



INTERNATIONAL CIVIL AVIATION ORGANIZATION

Third Meeting of APIRG Infrastructure and Information Management Sub Group (IIM/SG/3)
(Virtual Meeting, 12-14 October 2020)

Agenda Item XX: Title of the Agenda item

Title of the Working Paper

(Presented by Mali)

SUMMARY

This paper presents GROUND/GROUND COM PROJECT.1: Implementation of Ground/Ground communication (ATS/DS, AIDC, VoIP)

Action by the meeting is at paragraph 3

REFERENCE(S):

- Annex 10
Annex 11,
Doc 4444

Related ICAO Strategic Objective (s):

In the framework of the technologies Roadmap for Communication defined in the GANP and the AFI strategy, assist States in the implementation of :

- a) Air Traffic Service /Direct Speech (ATS/DS) in accordance with the operational requirements of Annex 11, Air Traffic Service Chapter 6, Doc 4444 Procedures for air Navigation services Chapter 10 and the provision of Annex 10 Volume 1
b) Air Traffic Service Interfacilities Data Communication (AIDC) in accordance with the requirements of Annexes 10 and 11 and the relevant supporting guidance documents (Doc 44, Doc 9694...)
c) Voice over Internet Protocol (VoIP)

All tasks will be carried out by COM experts nominated by AFI States participating in the project, led by the Project-Team Coordinator and under the supervision of the Project Facilitators (ROs/CNS, Dakar and Nairobi) through the IIM SG working methodology. Upon completion of the tasks, the results will be sent to the Project Facilitators as a final document for submission to, and if necessary approval by the APIRG Projects Coordination Committee (APCC). For the purpose of collaborative decision-making, meetings will be held with the areas involved.

Related ASBU KPIs & B0 Modules:

All APIRG projects specifically related to:

- ✓ PIA2-Increased Interoperability, Efficiency and Capacity through Ground-Ground Integration (B0-FICE)
✓ PIA3-Increased effectiveness of ground based safety nets (B0-SNET)
✓ PIA3- Air Traffic Situational Awareness (ATSA) (B0-ASEP)



1. INTRODUCTION

- 1.1 The provision of coordination service between Air traffic controllers will cover all Air Traffic Control Centers involved in the provision of air Navigation service for international civil aviation. The implementation scheme will be in accordance with the requirements of the provision of Aeronautical fixed Service (AFS) as defined by the AFI Air Navigation Plan (AFI/RAN Abuja 1997).
- 1.2
- a) ATS/DS: The requirements for ATS/DS are contained in the AFI Air Navigation Plan (ANP), FASID Table CNS 1D (ATS/DS Plan) and ATS/DS circuits have been implemented in accordance with these AFI Rationalized Plan. Significant improvements are noted, notably with the implementation of aeronautical satellite telecommunications. However, the non- availability of ATS/DS encountered from time to time results from the obsolescence of some VSAT technologies
 - b) AIDC: The introduction of automated Air Traffic Management systems in the region associated with surveillance data processing systems has paved the way to the automation of the transfer and coordination of Air Traffic between air traffic centers.
AIDC appears to complement ATS/DS service and will gradually play the first role in traffic coordination.
 - c) VoIP: In the AFI region the ATS/DS Network is based on point to point circuits and the absence of an ATS voice switching and signaling system does not facilitate the automation of backup links for ATS/DS. The implementation of VoIP will bring more flexibility and increase the availability of vocal, coordination communication.



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2. DISCUSSION

2.1 As part of the implementation of the project mentioned above and in accordance with the 2nd meeting of the Sub-Group IIMSG APIRG held from 09 to 11 July 2018 in Dakar, we propose to develop the following documents:

- The description of the Project; - Work Organization (Project); - Project Reference Terms (TOR);
- Project links with other IIMSG projects (Linkage); - The Survey to be sent to the states for the collection of information on the project;
- The guide for implementation of ATS / DS, AIDC and VoIP in APIRG area; - The estimate of the cost of the project.

However, the following documents have been produced and are perfectible:

- Project description;
- Survey.

It will be for members of the COM project 1 to divide these tasks while setting deadlines. Thus, the members of the group must decide on the task (s) they intend to achieve. Each document produced by a member of the group must be validated by the whole group (plenary). To do this, the teleconference / Messaging on social networks could serve as a framework for consultation, exchanges and meetings of the group.

2.2 The questionnaire will identify all the ATS / DS-VoIP systems, AMHS switches and AIDC systems already implemented and being implemented in the AFI area.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

Take into account the training needs of the members of the project COM1:

- VoIP training for the implementation of ADS-DS using VoIP technology
- Training on AIDC with AMHS;

3.2 **Draft Conclusion/Decision 3/xxxx: *Title of the Draft Conclusion/decision***

That:

- project members undertake to contribute and review their registration to the project according to their area of expertise;
- the group's meeting schedule is submitted to the Regional Office in terms of coaching to ensure wide participation of members.

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