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COM3: Air/Ground Communication Implementation Progress Report

**Presented by: South Africa
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1. SUMMARY

This working paper outlines:

- The status of the project;
- Indicate the challenges encountered by the team;
- Possible recommendations;
- The documentations developed by the team; and
- Action; and
- Draft Conclusion.



2. INTRODUCTION

1. Recommended as Communication project to assist with the implementation of Air/Ground communication aimed at ensuring Air Traffic Control within AFI region 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**).
2. Tasks are carried out by COM/ IT experts nominated by AFI States, 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



HF/VHF Voice

The requirements is contained in the AFI Air Navigation Plan (ANP), FASID TABLE CNS 2A (Aeronautical Mobile Service and Aeronautical Mobile Satellite service-AMS)

CPDLC: Associated with surveillance data processing systems with possible automation of the transfer and coordination of Air Traffic between air traffic Centres (AIDC)

HF/VHF and Data Link

3. RATIONALE/ JUSTIFICATION



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4. PROJECT DELIVERABLES



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4.1

PLANNING DOCUMENTATION



| NO | IIM COM 3 PROJECT DELIVERABLES | START DATE | COMPLETION DATE | STATUS |
|-------|--|------------|-----------------|--------|
| 4.1.1 | Project team coordinators and experts appointment finalisation | 27/02/2018 | 28/05/2018 | |
| 4.1.2 | Project Team Organization (South Africa) | 27/02/2018 | 28/05/2018 | |
| 4.1.3 | Project ToR and Description (Seychelles) | 27/02/2018 | 28/05/2018 | |
| 4.1.4 | Project link finalisation (All) | 27/02/2018 | 28/05/2018 | |
| 4.1.5 | Project Questionnaire (ASECNA) | 27/02/2018 | 28/05/2018 | |
| | | | | |



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4.2

IMPLEMENTATION STATUS REPORT OF HF & VHF STATIONS (VOICE & DATA LINK)



| NO | IIM COM 3 PROJECT DELIVERABLES | START DATE | COMPLETION DATE | STATUS |
|-------|---|------------|-----------------|--------|
| 4.2.1 | Implementation/Operation status report of CPDLC Circuits | 2018 | 31/03/2022 | 54% |
| 4.2.2 | Implementation/sharing and Operation status report of Remote VHF/HF systems | 2018 | 31/03/2022 | 54% |
| 4.2.3 | Assessment/Reporting on the operation of Air ground communication systems and operation | 2018 | 31/03/2022 | 10% |
| 4.2.4 | Assessment Template (South Africa) | April 2021 | 31/05/2021 | |
| 4.4.1 | Detailed guidance provided to States not complying with the AFI AMS Plan | 2018 | 31/12/2022 | 10% |
| 4.2.5 | List of States with VHF and CPDLC, implemented | 2018 | 31/03/2022 | 54% |



PROJECT QUESTIONNAIRE RESPONSE

SEYCHELLES

GHANA

**SOUTH
AFRICA**

KENYA

BOTSWANA



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4.3 MEETINGS



| NO | IIM COM 3 PROJECT DELIVERABLES | START DATE | COMPLETION | STATUS |
|--------------|--------------------------------|-------------------|-------------------|-------------|
| 4.3.1 | Kick-off meeting | 27/02/2018 | 27/02/2018 | 100% |
| 4.3.2 | Project progress meeting | 27/03/2018 | 27/03/2018 | 100% |
| 4.3.3 | Project progress meeting | 24/04/2018 | 24/04/2018 | 100% |
| 4.3.4 | Project progress meeting | 26/06/2018 | 26/06/2018 | 100% |
| 4.3.5 | IIM Sub-Group Meeting | 2019 | 2019 | 100% |
| 4.3.6 | Project progress meeting | 03/12/2020 | 03/12/2020 | 100% |
| 4.3.7 | IIM PTC Meeting | 12/03/2021 | 12/03/2021 | 100% |
| 4.3.8 | Project progress meeting | 29/03/2021 | 29/03/2021 | 100% |
| 4.3.9 | Project progress meeting | 24/05/2021 | 24/05/2021 | 100% |
| 4.3.10 | IIM PTC Meeting | 11/06/2021 | 11/06/2021 | 0% |





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HFDL / VDL REQUIREMENT (Manual / Guidance)



| Task | Start Date | End Date | Status |
|--|------------|-------------|--------|
| 4.4.1 Project initiation and Framework | 17/03/2021 | 17/03/2021 | |
| 4.4.2 HF DL Manual | 01/04/2021 | 30/09/2021 | |
| 4.4.3 HF DL CONOPS | 01/09/2021 | 29/04/2022 | |
| 4.4.4 VDL Manual | 01/09/2021 | 29/04/2022 | |
| 4.4.5 VDL CONOPS | 01/09/2021 | 29/04/2022 | |
| 4.4.6 Review | 01/10/2021 | 31 Dec 2021 | |
| 4.4.7 Consolidation & Finalisation | 01/01/2022 | 28 Feb 2022 | |
| | | | |



| Task | Start Date | End Date | Status |
|---|------------|------------|--------|
| 4.4.8 Review of the VDL Manual and VDL CONOPS | 01/07/2022 | 30/09/2022 | |
| 4.4.9 Consolidation & Finalisation of the VDL Manual and VDL CONOPS | 02/05/2022 | 02/05/2022 | |
| 4.4.10 Consolidation & Finalisation of the two main sections (HFDL and VDL) | 01/08/2022 | 30/09/2022 | |
| 4.4.11 Final review of the HFDL / VDL Requirement (Manual / Guidance) | 03/10/2022 | 30/11/2022 | |
| 4.4.12 Approval/Publish | 01/12/2022 | 30/12/2022 | |





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4.5

AFI COMMUNICATION STRATEGY



| Task | Start Date | End Date | Status |
|--|------------|------------|--------|
| 4.5.1 Project initiation and Framework | April 2021 | 17/03/2021 | |
| 4.5.2 Assessment and Analysis Phase (SWOT and PESTLE) | 01/04/2021 | 30/09/2021 | |
| 4.5.3 Define Vision, Mission and Values | 01/07/2021 | 30/11/2021 | |
| 4.5.4 Goals, Objectives, Strategies and Expected Results | 01/12/2021 | 28/02/2022 | |
| 4.5.5 Implement Phase | 01/03/2022 | 30/06/2022 | |



| Task | Start Date | End Date | Status |
|-------------------------------------|------------|------------|--|
| 4.5.6 Performance Measurement Phase | 01/07/2022 | 30/08/2022 | A large, 3D gold-colored '0%' icon, indicating that 0% of the tasks are completed. |
| 4.5.7 Review and Modify Phase | 01/09/2022 | 30/10/2022 | |
| 4.5.8 Approval/Publish | 01/11/2022 | 30/12/2022 | |



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4.6

PROJECT COSTING



| | TASK | START | END | |
|-------|---|------------|------------|-----|
| 4.6.1 | Project Costing Template | 01/05/2021 | 30/08/2021 | 50% |
| 4.6.2 | Gather Requirements – Assessment Report | May 2021 | 30/09/2021 | 10% |
| 4.6.3 | Draft COM3 Project Costing Report | 01/10/2021 | 31/12/2021 | 0% |
| 4.6.4 | Final COM3 Project Costing Report | 01/01/2022 | 31/03/2022 | 0% |



4.7. PROJECT STATUS SUMMARY

- 1. Initiate and appoint Experts
- 2. Project Description, ToR, Plan, Linkage and Questionnaire

Quarterly – AFI States
Air/Ground Implementation
Survey and Status Reports
until 31 March 2022

- 1. Develop HFDL / VDL Requirement (Manual / Guidance)
- 2. Develop AFI COM Strategy
- 3. COM3 Project Cost

2018

2018-2022

2019-2022

2021-2022

2022

Teleconferences,
Workshops, Seminars or
Team meetings until
31 March 2022

Guidance provided to
States not complying

Completed

Started

Not started



1. PROJECT QUESTIONNAIRE STATE RESPONSES

5. CHALLENGES

2. COM 3 PROJECT PARTICIPATION – VDL/HDL SUBTASK

3. STATES PARTICIPATION – ASSIST WITH AFI COMMUNICATION STRATEGY SWOT ANALYSIS AND THEIR FUTURE PLANS



6. OUTLOOK - NEXT PERIOD REPORT

- Questionnaire survey analysis report;
- AFI Air to Ground Implementation status report;
- HF DL and VDL States Requirement Manual / Guidance;
- AFI Communication Strategy; and
- Project costing document.



7. MEETING ACTION

The meeting is invited to:

- Take note of the progress made so far regarding the IMSG Communication Project 3 deliverables and challenges;
- Encourage State participation in the AFI region projects; and
- Submit projects Questionnaire responses.



8. DRAFT CONCLUSION

That ;

Effective and efficient participation/coordination of Administrations in the IIM Projects activities

That;

- States verify the participation of its qualified experts to assist with the development of AFI HDL/VDL Manual/Guideline by 31 October 2021; and
- Secretariat to distribute the project questionnaire survey State response on or before 30 November 2021.



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(ESAF) Office
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Beijing

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Bangkok



THANK YOU