INTERNATIONAL CIVIL AVIATION ORGANIZATION

WESTERN AND CENTRAL AFRICA OFFICE

Twenty-fourth Meeting of the AFI Satellite Network Management Committee (SNMC/24)
(Abuja, Nigeria, 14-18 November 2016)

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<u>Agenda Item 3</u>: Evaluation and Re-engineering of AFISNET (*Implementation of Special AFI/RAN meeting Recommendations 6/18*)

Review of the Conclusions & Decisions of the Coordination Meeting for the finalization of the Action Plan

for AFISNET Modernization

(**Presented by the secretariat**)

SUMMARY

The purpose of this paper is to review the Conclusions & Decisions of the Coordination Meeting for the finalization of the Action Plan for AFISNET modernization and the follow up actions conducted based on these outcomes.

<u>Reference:</u> Terms of Reference and Report of the Audit of AFISNET

Report on SNMC/23 Meeting

Report on the Coordination Meeting for the finalization of the Action Plan for AFISNET modernization

Action by the meeting see paragraph 3

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1.   Introduction

1.1   The Audit of AFISNET conducted from June to October reported in Dakar on 15 October 2015 to the SNMC Board who tasked the SNMC to develop an Action Plan for AFISNET modernization and re-engineering.

1.2   During SNMC/23 held in Accra on February 2016 the Joint Technical Team (**JTE**) reviewed the draft proposal made by the consultant who conducted the Audit and developed a draft road map action plan for AFISNET Re-engineering. However the time constraints could not enable the JTE to complete in details its work.

1.3   Moreover in the absence of Nigeria, the meeting agreed through its **Decision 23/11** to expand the mandate of the JTE to carry out its remaining tasks aiming to modernizing AFISNET. SNMC/23 also noted the urgency to complete the roadmap in order to launch the AFISNET modernization exercise taking due account of current projects being conducted by SNMC members. .

2.   Discussion

2.1   Based on the above the Secretariat coordinated two back to back three days Coordination Meetings kindly hosted in Lome from 27th April to 4th May 2016 by the Togo Civil Aviation Authority with the objective to identify operational *requirements* and study the interconnection *procedures* for Secondary Surveillance Radar (**SSR**) & Automatic Dependent Surveillance Broadcast (**ADS-B**) Data sharing and implementation of ATS Interfacilities Data Communication (**AIDC**) along the Gulf of Guinea through AFISNET; this meeting was held from 27th to 29th April 2016.

2.2   The Coordination meeting on surveillance data sharing and implementation of AIDC Surveillance data sharing (**Details in WP 05A**) which involved operational and technical experts tasked the technical team to proceed with the:

- Identification of technical requirements aiming to fulfilling the identified operational require's
- Assessment of the supporting infrastructure
- Upgrade of the supporting infrastructure if needed

2.3   First, the meeting took opportunity to examine the status of implementation of the remedial actions aiming to clearing out the deficiencies identified by SNMC 23 and noted that all deficiencies have been cleared except the **Accra/ Kano** ATS/DS link to be restored when Kano connects two wire BCB card. The updated table is attached at **Appendix D** to the meeting report.

2.4   The meeting considered the technical and operational requirements for the implementation of AIDC identified by the previous meeting held from 27 to 29 April 2016 reviewed the operational needs expressed and identified the technical requirements for the AFISNET nodes taking into account the need for interconnection of AFISNET with the neighboring NAFISAT and SADC2 Networks. These requirements are presented in **Appendix E** to the report of the meeting.

2.5   The meeting reviewed and completed the draft Plan of Action initiated by the joint technical Team for AFISNET re-engineering during the last SNMC 23rd meeting and identified key activities to be conducted. The draft Action Plan for AFISNET Modernization was therefore finalized as attached at **Appendix F** to its report.

2.6   Examining the requirements for communication to support the implementation of AIDC, the meeting agreed to conduct trials under AFTN or directly between ATM systems although the Secretariat reminded the meeting that AIDC should be implemented under Aeronautical Telecommunication Network (**ATN**) components. It was agreed that the migration to ATN support, the ATS Message Handling System (**AMHS)** planned to replace the old Aeronautical Fixed Telecommunication Network **(AFTN),** will be conducted on a case to case basis following the pace of implementation of. **AMHS.**

2.7   The meeting noted that for the conduct of trials on AIDC under the current AFTN, there was no need of additional communication infrastructure and therefore there was not any new investment required for the implementation of AIDC.

2.8   The meeting identified the needs and cost for communication facilities to support surveillance data sharing with regards to the operational and technical requirements identified by the previous meeting held from 27 to 29 April 2016. The summary list of facilities is attached in **Appendix G** of its report.

The meeting proposed to include in the AFISNET modernization project, the need for funding of the short terms actions related to surveillance data sharing.

However, in order to improve air navigation safety, capacity and efficiency and to contribute to reduce CO_2 emission, ANSPs were strongly encouraged to endeavor as a matter of urgency, to prefund the actions identified for trials on short terms surveillance data sharing.

2.9   The meeting developed **short term** implementation Plans for AIDC and surveillance data sharing as attached at **Appendix H** and **Appendix I** to its report and identified future key tasks listed in **Appendix J** to his report

2.10   The meeting examined a draft Terms of Reference (**ToRs**) for AFISNET re-engineering initiated by ASECNA and nominated ANSPs responsible for the development of detailed specification for AFISNET re-engineering

The detailed report on the Coordination Meeting for the finalization of the Action Plan for AFISNET modernizations attached at Appendix to this Working Paper.

3.   Action by the meeting

The meeting is invited to:
a) Take note of the Information given above
b) Report on the status of implementation of the actions and the **short term** Plans for AIDC and surveillance data sharing implementation decided by the coordination COM meeting
c) Review and updated if necessary the Action Plan for AFISNET Modernization
d) Finalize the Terms of Reference for AFISNET Modernization and re-engineering
e) Agree if necessary on additional activities that may have been identified since then last coordination meetings;
f) Decide on further guidelines to the JTE