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SNMC/25 WP 02

**INTERNATIONAL CIVIL AVIATION ORGANIZATION
WESTERN AND CENTRAL AFRICA OFFICE**

**Twenty-fifth Meeting of the AFI Satellite Network Management Committee
(SNMC/25)
(Freetown, Sierra Leone, 18-22 December 2017)**

Agenda Item 1: Follow up on SNMC/23 Conclusions and Decisions

(Presented by the secretariat)

SUMMARY

The purpose of this paper is to inform the meeting on the status of implementation of the conclusions and Decisions of SNMC 24 meeting held in Abuja, Nigeria, from 14 to 18 November 2016.

Reference: SNMC 24th Report

Action by the meeting in paragraph 3

1. Introduction

1.1 The Working discusses the status of implementation of Conclusions and Decisions adopted by the SNMC/24th Meeting held in Abuja, Nigeria, from **14 to 18 November 2016**.

1.2 Follow-up actions indicated in the tables have been established according to information available at the Secretariat.

2. Discussion

2.1 The 24th meeting of SNMC (SNMC/24) was held in Abuja, Nigeria, from 14 to 18 November 2016 was attended by sixty-eight (**68**) participants from four (**04**) Air Navigation Service Providers (*ASECNA-17 States, GCAA-Ghana, NAMA-Nigeria and the Roberts FIR-Guinea, Liberia, Sierra Leone*), the Nigerian Civil Aviation Authority (NCAA), and representatives of the satellite industry (NIGCOMSAT).

2.2 The meeting deliberated on ten (10) agenda items and formulated 13 Conclusions and 04 Decisions.

2.3 The meeting paid a courtesy visit to the Community Development Programme (CDP), Macroeconomic Policy Department of the ECOWAS Commission for Infrastructure during which were discussed items on the eligibility of the AFISNET modernization project as an ECOWAS regional project.

2.4 The secretariat developed the final report that was circulated, finalized and posted at:



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<https://www.icao.int/WACAF/Pages/SNMC-24.aspx>

Since then, many actions have been undertaken by States/Organizations and the secretariat for the implementation of these conclusions and decisions.

3. Action Required

The meeting is invited to:

- a) Review and up-date the status of implementation of SNMC/24 Conclusions and Decisions as attached in **Appendix** to this paper.
- b) Agree on any other follow-up action thereon.

Appendix

Status of implementation of the Conclusions/Decisions of SNMC 24

Agenda Item 1: Follow up Conclusions and Decisions of SNMC/22st meeting				
Conclusions/Decision	Text	Organization	Status of implementation	Comments
Conclusion 24/01	<i>Implementation of SNMC outstanding Conclusions/Decisions</i>			
	That: Concerned SNMC member States/Organizations are urged to implement the outstanding Conclusions/Decisions of SNMC previous meetings including those related to SNMC/23's as presented in Appendix B to this report	All	Still valid	
Decision 24/02	<i>Follow up of SNMC Conclusions/Decisions</i>			
	That: In order to ensure effective implementation of the outcome of the SNMC deliberations: <ul style="list-style-type: none"> a) The Secretariat circulate in a timely manner, amongst SNMC members, the table developed to summarize the SNMC Conclusions/Decisions; b) A Team composed with Focal Points appointed by SNMC member Organizations is established as attached in Appendix C with the mandate to follow up through E-mailings and teleconferences the status of implementation of SNMC Conclusions/Decisions and report to the current SNMC coordinating ANSP with copy to the Secretariat; c) The SNMC current coordinator quarterly assess the status of implementation of SNMC Conclusions/Decisions and remind if necessary members to carry out their tasks. 	All	Not implemented	Members to confirm Focal Points



<p>Decision24/03</p>	<p><i>Operation and Maintenance of the AFISNET Website</i></p> <p>That:</p> <ul style="list-style-type: none"> a) As a matter of urgency SNMC members should establish communication mechanisms aiming to regularly providing GCAA with the relevant information they may wish to upload on the AFISNET Website (www.afisnetsnmc.org); b) GCAA kindly continue to afford hosting the AFISNET Website until it attains its financial autonomy through cost recovery of services to be delivered to external partners 	<p>ALL+GCAA</p>	<ul style="list-style-type: none"> a)Not implemented b) Partially implemented 	
<p>Conclusion 24/04</p>	<p><i>Autonomy of Funding for the SNMC Website</i></p> <p>That: In order to ensure the financial autonomy for hosting and maintaining the SNMC Website:</p> <ul style="list-style-type: none"> a) A Study Committee composed of SNMC experts is set up as attached in Appendix D, with the task to identify opportunities for the marketing of the SNMC Website; b) The committee working under the leadership of GCAA may call for the assistance of any relevant expertise in the matter of website marketing and will submit its deliverable to SNMC/25 for formal approval; c) SNMC should appoint their representative in the Study Committee no later than 30/04/2017 	<p>Study Committee</p>		<p>GCAA to report</p>
<p>Conclusion 24/05</p>	<p><i>Development of E-learning</i></p>			



	<p>That: In order to finalize the E-learning project document under development by ASECNA:</p> <ul style="list-style-type: none"> a) Members should endeavor to identify relevant courses to be delivered by E-learning; b) In doing so they should also identify other potential candidates which may need to take benefit from the provision of the AFISNET common training manual approved by SNMC/22; c) ICAO is encouraged to support the SNMC E-learning initiative by providing guidance and facilitating technical assistance from the industry. 	<p>All</p>		<p>a & b) Members to report</p> <p>d) Initiatives taken to promote with the industry</p>
<p>Decision 24/06</p>	<p><i>Satellite back up</i></p>			
	<p>That: SNMC members continue the discussion with the industry in order to find a set of best available realistic and cost effective proposals aiming to ensure the back up of AFISNET, bearing in mind the critical safety of life and time sensitive constraints of the services supported by the network.</p>	<p>All+Intelsat</p>	<p>Not implemented</p>	<p>Members and INTELSAT to report</p>
<p>Conclusion 24/07</p>	<p><i>Regional Test Equipment calibration Centre</i></p>			
	<p>That: In view of the benefits expected by the SNMC community and the tangible progress made in studies, training of experts and positive results of initial calibration activities:</p> <ul style="list-style-type: none"> a) NAMA, who have not yet done so, is urged to forward to ASECNA, the list of potential test equipment candidate to be calibrated to enable expedite the finalization of the study; b) ASECNA is encouraged to complete the formal establishment of the Regional Test Equipment calibration Centre with regard to the Strategic Plan attached at Appendix E; 	<p>NAMA ASECNA ICAO</p>		<p>A & b) Nama and ASECNA to report</p> <p>d) ICAO Liaised with ASECNA on the issue</p>



	c) ICAO continue to support the development of the Regional Test Equipment Calibration Center by facilitating various partnerships.			
Agenda Item 2: Review of AFISNET operational and technical statistics of availability				
Conclusions/Decision	Text	Organization	Status of implementation	Comments
Conclusion 24/08	<i>Restoration of the AFS circuits</i>			
	That: As a matter of urgency concerned SNMC members take the appropriate action to restore the failing AFS (ATS/DS-AFTN) circuits summarized in Appendix F to this report no later than 31/05/2017	ASECNA, GCAA, NAMA		Concerned ANSPs to report
Conclusion 24/09	<i>Mitigation of missing Flight Plans</i>			
	That: As a matter of high importance and urgency for safety insurance, and considering the methodology circulated by ASECNA: a) GCAA and Roberts FIR who have not yet done so, establish the multidisciplinary local investigation Groups composed of technical and operational personnel and including airlines representatives in order to take remedial measures to address the main causes of missing Flight Plans; b) NAMA, endeavor to ensure the effective functionality of the multidisciplinary local investigation Group already established; c) ASECNA is encouraged to assist SNMC members if needed; d) ANSPs should report on the actions conducted and the detailed results to SNMC/25	All		a &b) GCAA, NAMA & Roberts to report c) ASECNA to report



Conclusion 24/10	<i>Mitigation of missing OPMETs</i>			
	<p>That:</p> <ul style="list-style-type: none"> a) SNMC members who are not in charge of the collection of national OPMETs namely, GCAA, NAMA and Roberts FIR, should establish and sign with the national Meteorological Agency a contract of service with requirements of Quality of Service (QoS) on OPMETS data availability, accuracy, transit time in order to provide their ACCs with relevant OPMETs row data. b) The dissemination of the OPMETs data collected by the Kano, Lagos and Accra centers to Niamey and by Roberts center to Dakar, should be continuously monitored in view to ensure the rate of availability agreed in the AFI Region; c) ASECNA should ensure the agreed level of availability of the transmission from Niamey to the regional OPMET Data Base of Dakar and from Dakar to the World area forecast Centers (WAFCs) of London. d) ICAO continue to support the actions for the mitigation of missing OPMETs through Workshops and seminars involving all stakeholders. 	All		ANSPs to report
<u>Agenda Item 3:</u> Interconnection and interoperability of AFISNET with its neighboring networks (CAFSAT, NAFISAT, SADC2)				
Conclusions/Decision	Text	Organization	Status of implementation	Comments
Decision 24/11	<i>Endorsement of the Reports on the coordination technical meetings of the Joint Technical Team</i>			
	<p>That:</p> <p>The Reports on the Coordination Meeting for Surveillance Data sharing and implementation of AIDC along the Gulf of Guinea and on the Coordination Meeting for the finalization of the Action Plan for AFISNET modernization and re-engineering held in Lomé, Togo from 27th April to 4th May 2016</p>	All	Implemented	



	are approved and attached together with their amended Appendices			
Conclusion 24/12	<i>Implementation of the updated Plans for short term trials on surveillance data sharing, AIDC and AMHS</i>			
	<p>That:</p> <ul style="list-style-type: none"> a) SNMC members endeavor to conduct, when possible, before the end of year 2016, the short term trials on surveillance data sharing and implementation of AIDC as proposed by the SNMC Joint Technical Team; b) They will take the opportunity to conduct where possible trials on AMHS interconnectivity as preamble to the implementation of the ATN ground component 	All	Partially implemented	
	<i>Finalization of the Technical Specifications for AFISNET re-engineering and modernization</i>			
Decision 24/13	<p>That: Based on the tasks carried out by the Joint Technical Team:</p> <ul style="list-style-type: none"> a) The detailed Technical Specifications for AFISNET re-engineering and modernization should be finalized in consideration of the draft developed by ASECNA and presented to the JTE; b) SNMC members endeavor to develop their contribution in accordance with the Action Plan and tasks distribution agreed by the Lomé meeting as attached at Appendix H and forward to ASECNA for compilation no later than 31/01/2017; c) ASECNA should finalize the detailed Technical Specification with the assistance of the Secretariat if necessary no later than 20 /03/2017 	ALL		ASECNA to report
Conclusion 24/14	<i>Development of a project scheme for AFISNET re-engineering and modernization</i>			
	<p>That:</p> <ul style="list-style-type: none"> a) SNMC Members provide no later than 15 December 2016 the Secretariat with their contribution for the finalization of the draft Project Scheme for AFISNET re-engineering and modernization aiming to ensuring 	ALL	Not implemented	No contribution was received from members



	<p>the relevance and consistency of the AFISNET Re-engineering exercise.</p> <p>b) The Secretariat consolidate and finalize the Project Scheme for AFISNET re-engineering and modernization to be included in the Request for Proposals document before 31 December 2016</p>			
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Agenda Item 4: Evaluation and Re-engineering of AFISNET (Implementation of Special AFI/RAN meeting Recommendations 6/18)

Conclusions/Decision	Text	Organization	Status of implementation	Comments
	<p><i>Consideration of the APIRG new structural organization (APCC, IIM/SG) and mechanisms (Project Approach) for the future workprogramme of SNMC</i></p>			
Conclusion 24/15	<p>That: In order to enable seamless improvement of Air Navigation Service, SNMC Members:</p> <p>a) Actively attend the forthcoming meetings of the APIRG Information and Infrastructure Sub Group (IIM/SG);</p> <p>b) Include the Re-engineering and modernization of AFISNET exercise in the framework of the APIRG Project Approach mechanisms;</p> <p>c) Identify regional/sub regional additional Communication projects in relation with AFISNET to be conducted in this framework</p>	All	Implemented	APIRG IIM COM Projects have impact on AFISNET

Agenda Item 5: Interconnection and interoperability of AFISNET with its neighboring networks (CAFSAT, NAFISAT, SADC2)

Conclusions/Decision	Text	Organization	Status of implementation	Comments
Conclusion 24/16	<p><i>Interconnection and interoperability of AFISNET with its neighboring networks</i></p>			
	<p>That: In order to ensure the continuous provision of aeronautical communication service:</p>	All		ASECNA to report



	<p>a) The interconnection and interoperability of AFISNET with its neighboring networks should be pursued in a balanced manner with respect to the current architecture and topology of the network</p> <p>b) The expansion of AFISNET beyond the AFI Region should be finalized with the aim of providing a robust infrastructure to sustain the implementation of the global Aeronautical Telecommunication Network components (AIDC, AMHS)</p>			
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Agenda Item 6: Evolutions on Satellite Technology

	<i>Follow up satellite emerging technology</i>			
Conclusion 24/17	<p>That: When modernizing the network, SNMC members should follow up the evolution of the emerging satellite technology and take advantage of the satellite capacity available in Africa as possible spectrum solution, bearing in mind the necessity to continuously meet the Standards and Recommended Practices and guidelines governing the provision of aeronautical communication in the AFI Region</p>	All		Members to report

Agenda Item 7: Preparation of the ITU World Radiocommunication Conference 2019 (WRC-19)

	<i>Preparation of the ITU World Radiocommunication Conference 2019 (RC-19)</i>			
Conclusion 24/18	<p>That: SNMC Members should endeavor to undertake adequate actions aimed at ensuring the protection of the C-Band operated by AFISNET. They will inter alia:</p> <p>a) Participate when feasible in the various preparatory activities for WRC-19 organized at the national, sub regional and international levels;</p> <p>b) Provide in a timely manner their contribution to the forthcoming draft ICAO Position for WRC-19;</p>	All	Partially implemented	Members to report



	<p>c) Take into account the forthcoming final ICAO position for WRC-19 to conduct the Collaborative Decision Making (CDM) with the stakeholders involved in the usage of aeronautical spectrum, in particular CAAs and National Telecommunication Regulators;</p> <p>d) Consider the identified stakes and challenges on the FSS band when conducting the re-engineering exercise of AFISNET</p>			
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Agenda Item 8: Review of the Term of reference and Work Programme of SNMC

Conclusions/Decision	Text	Organization	Status of implementation	Comments
	<i>Adoption of the Term of reference and Work Programme of SNMC</i>			
Decision 24/19	<p>That: The Term of Reference, Form of Agreement and Work Programme of SNMC are adopted as attached at Appendix I and may be further amended as necessary</p>	All	Implemented	



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Outstanding deficiencies on AFISNET identified by SNMC/24

No.	Identified circuit	Service	Actors	Comments	Deadline
1.	Accra/Bobo	ATS/DS &AFTN	GCAA/ASECNA		
2.	Accra/Brazzaville	ATS/DS	GCAA/ASECNA		
3.	Accra/Cotonou	AFTN	GCAA/ASECNA		
4.	Accra/Lagos	ATS/DS	GCAA/NAMA		
5.	Accra/Libreville	ATS/DS	GCAA/ASECNA		
6.	Accra/Lomé	AFTN	GCAA/ASECNA		
7.	Accra/Kano	ATS/DS	GCAA/NAMA	ATS/DS link to be restored when Kano connects two wire BCB card	28/02/2017
8.	Accra/Niamey	ATS/DS &AFTN	GCAA/ASECNA		
9.	Brazzaville/Kano	AFTN	ASECNA/NAMA		
10.	Accra/Luanda	ATS/DS & AFTN	GCAA/ENANA		
11.	Brazzaville/ Nairobi	AFTN	ASECNA/KCAA		
12.	Dakar/Bamako	AFTN	ASECNA		
13.	Dakar/Roberts	AFTN	ASECNA/Roberts		
14.	Lagos/Niamey	ATS/DS &AFTN	ASECNA/NAMA		
15.	Lagos/Cotonou	ATS/DS &AFTN	ASECNA/NAMA		