



ICAO

SNMC/27 WP 02

INTERNATIONAL CIVIL AVIATION ORGANIZATION

WESTERN AND CENTRAL AFRICA OFFICE

Twenty-seventh Meeting of the AFI Satellite Network Management Committee

(SNMC/27)

(Accra, Ghana, 25-29 November 2019)

**Agenda Item 1: Follow up on SNMC/25 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 25 meeting held in Freetown, Sierra Leone, from 18 to 22 November 2017.

**Reference:** SNMC 25<sup>th</sup> 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/26<sup>th</sup> Meeting held in Ouagadougou, Burkina Faso, 19-23 November 2018.

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

**2. Discussion**

2.1 The 26<sup>th</sup> meeting of SNMC (SNMC/26) held in Ouagadougou, Burkina Faso, 19-23 November 2018 was attended by Sixty (60) participants from five (05) Air Navigation Service Providers (*ASECNA-17 States, GCAA-Ghana, NAMA-Nigeria, the Roberts FIR-Guinea, Liberia, Sierra Leone and ATNS, South Africa*), the Economic Commission of Western African States (ECOWAS), Burkina Faso and French Civil Aviation Authorities, Burkina Faso Authority of Regulation of Communication (SACAA), Burkina Faso Air Force, and five (05) representatives of the industry namely AERONAV, ENGIE INEO, FREQUENTIS, ONATEL & TELECEL.

2.2 The meeting deliberated on ten (10) agenda items and formulated eleven (11) Conclusions and five (05) Decisions.

2.4 The secretariat developed the final report that was circulated, finalized and posted at: <https://www.icao.int/WACAF/Pages/SNMC-26.aspx> and <https://afisnetsnmc.org/>.



Since then, many actions have been undertaken by States/Organizations and the secretariat for the implementation of these conclusions and decisions. The status of implementation has been developed as attached **Appendix** to this working Paper

### 3. Action Required

The meeting is invited to:

- a) Review and up-date the status of implementation of SNMC/26 Conclusions and Decisions as attached in **Appendix** to this paper.
- b) Agree on any other follow-up action thereon.

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INTERNATIONAL CIVIL AVIATION ORGANIZATION  
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Twenty-fifth Meeting of the AFI Satellite Network Management Committee (SNMC/25)

Appendix

Status of implementation of the Conclusions/Decisions of SNMC 25

<b>Agenda Item 1: Follow up Conclusions and Decisions of SNMC/25<sup>st</sup> meeting</b>				
<b>Conclusions/Decision</b>	<b>Text</b>	<b>Organization</b>	<b>Status of implementation</b>	<b>Comments</b>
	<i>Implementation of SNMC outstanding Conclusions/Decisions</i>			
<b>Conclusion 25/01</b>	<b>That:</b> Concerned SNMC member Organizations are urged to implement the outstanding Conclusions/Decisions of SNMC previous meetings including those related to SNMC/24's as presented in <b>Appendix B</b> to this report	<b>All</b>	<b>Still valid</b>	
	<i>Follow up and Implementation of the outcome of SNMC 25<sup>th</sup> and future meetings</i>			
<b>Conclusion 25/02:</b>	<b>That:</b> a) SNMC members update not later than <b>31 January 2018</b> , the list of the Team of Focal Points established by SNMC 24 with the complete contact details for e-meetings (E-mailings and teleconferences); b) The SNMC current Coordinator (Robert FIR) with the assistance of the Secretariat endeavor to find the appropriate mechanism to efficiently follow up the implementation of the conclusions/decisions of SNMC meetings through the activities of the Team of Focal Points.	a) <b>All</b> b) <b>Roberts FIR</b>	<b>Not Implemented</b>	



<p>Decision 25/03</p>	<p><i>Finalization of the SNMC Website</i></p> <p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) The mandate of the Study Committee established by SNMC/24 and tasked to identify opportunities for the marketing of the SNMC Website (<b>Decision 24/04</b>) is expanded to identify the nature of information from ANSPs to be uploaded, the interest of the industry in the SNMC Webpage, the mechanism of operation and maintenance of the Website;</li> <li>b) Members as a matter of urgency appoint and forward to the Roberts FIR and GCAA their nominees in the Study Committee not later than <b>28/02/2018</b>;</li> <li>c) The funding of the operation and maintenance of the Website shall be supported on a rotational basis by the ANSP currently coordinating the SNMC, until it attains its financial autonomy through cost recovery of services</li> </ul>	<ul style="list-style-type: none"> <li>a) All</li> <li>b) All</li> <li>c) All</li> </ul>	<ul style="list-style-type: none"> <li>a) Implemented</li> <li>b) GCAA and Roberts to report</li> <li>c) Roberts to report</li> </ul> <p><b>Not implemented</b></p>	
<p>Decision 25/04</p>	<p><i>Implementation of the E-Learning project</i></p> <p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) A SNMC Group of Experts under the leadership of ASECNA is established with the mandate to identify the training courses to be delivered through E-Learning and the adequate resources to support E-Learning;</li> <li>b) Based on the common Training Manual, the Group of Experts with the assistance of the Secretariat finalize the E-Learning document not later than <b>30/06/2018</b> for approval by the SNMC Board.</li> </ul>	<ul style="list-style-type: none"> <li>a) All</li> <li>b) ASECNA</li> </ul>	<p>ASECNA to report</p> <p><b>Not implemented</b></p>	
<p>Conclusion: 25/05</p>	<p><i>Satellite back up</i></p>			



	<p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) <b>The Joint Technical Team for AFISNET re-engineering and modernization, when finalizing the Technical specifications for the AFISNET Re-engineering, include the requirement on satellite back up as one of the highest priority criteria to be considered in the evaluation of Tenders bids.</b></li> <li>b) <b>SNMC Members continue meanwhile the consultation with the satellite industry and users in order to take advantage of the best practices for the assurance of an effective satellite or intermediate back up for the network</b></li> </ul>	<ul style="list-style-type: none"> <li>a) JTE</li> <li>b) All</li> </ul>	<p style="text-align: center;"><b>Still valid Implementation going</b></p>	
<p style="text-align: center;"><b>Conclusion 25/06</b></p>	<p style="text-align: center;"><i>Regional Test Equipment Calibration Center</i></p>			
	<p><b>That:</b></p> <ul style="list-style-type: none"> <li>a) <b>ASECNA pursue its effort to establish and resume the effective implementation of the Regional Test Equipment Calibration Center;</b></li> <li>b) <b>The Secretariat continue the promotion of the Regional Test Equipment Calibration Center</b></li> </ul>	<ul style="list-style-type: none"> <li>a) ASECNA</li> <li>b) Secretariat</li> </ul>	<p style="text-align: center;"><b>Process is on going with a high cost. Planned in the next year ASECNA to report</b></p>	
<p style="text-align: center;"><b>Conclusion 25/07</b></p>	<p style="text-align: center;"><i>Mitigation of missing Flight Plans</i></p>			
	<p><b>That:</b> <b>AFISNET Members pursue their effort to mitigate missing Flight Plans and other safety related operational messages carried on the Network by:</b></p> <ul style="list-style-type: none"> <li>1. <b>Increasing the national coordination amongst all concerned stakeholders, trough the effective establishment and regular function of the Local Groups of investigation on missing Flight Plans;</b></li> <li>2. <b>Reinforcing the bilateral and multilateral technical cooperation and assistance between members;</b></li> <li>3. <b>Modernizing the messages switches to full AMHS systems</b></li> </ul>	<p style="text-align: center;"><b>ALL</b></p>	<p style="text-align: center;"><b>Members to report</b></p>	



Conclusion 25/08	<i>Mitigation of missing OPMETS</i>			
	<p><b>That:</b> Concerned members namely GCAA and NAMA expedite the finalization of the signature of MoUs with their Departments in charge of Meteorology in order to reduce the rate of missing OPMETS</p>	GCAA & NAMA	GCAA: Discussion started with the MET Office A draft SLA available and will be finalized; NAMA :Meeting with NIMET addressing the issues on missing OPMEts. Problem clarified	
<b>Agenda Item 2: Review of AFISNET operational and technical statistics of availability</b>				
<b>Conclusions/Decision</b>	<b>Text</b>	<b>Organization</b>	<b>Status of implementation</b>	<b>Comments</b>
Conclusion 25/09	<i>Restoration of AFS failing circuits</i>			
	<p><b>That:</b> As a matter of urgency, concerned ANSPs take the appropriate actions aimed at restoring the failing Aeronautical Fixed Service (ATS/DS, AFTN) circuits identified by SNMC/25 and presented at <b>Appendix F.</b></p>	ALL	Members to report	
Conclusion 25/10	<i>Coordination of maintenance operation</i>			
	<p><b>That:</b> In order to ensure effective maintenance coordination between centers:</p> <ul style="list-style-type: none"> <li>a) AFISNET CAAs consider in their Oversight system, Human Factors of air Traffic Safety Electronic Personnel (ATSEP) as a contributive element to the reinforcement of aeronautical safety;</li> <li>b) AFISNET ANSPs improve the language proficiency of their maintenance staff, organize in a regular basis,</li> </ul>	ALL	ASECNA: NOK GCAA: Budgetary allocation but no implementation	



	<p>exchange of technical personnel and ensure the availability of maintenance Focal Points contacts details that will be regularly updated at each SNMC meeting, to facilitate maintenance operation</p>		<p><b>NAMA: Not implemented</b></p> <p><b>Roberts: Language proficiency implemented.</b></p> <p><b>Agreement with ASECNA for a training in ERNAM and with GCAA for training in the GCAA training center</b></p>	
<p><b>Conclusion 25/11</b></p>	<p><i>Protection of AFISNET stations against lightning</i></p>			
	<p><b>That:</b>  <b>ANSPS provide AFISNET maintenance personnel with an adequate strategy and sufficient resources to conduct the appropriate actions such as but not limited to measuring of the earth and limitation of its resistance to the standardized value aimed at efficiently protecting AFISNET stations against lightning.</b></p>	<p><b>All</b></p>	<p><b>ASECNA: OK</b></p> <p><b>Included in maintenance procedures</b></p> <p><b>GCAA: OK annual schedule</b></p> <p><b>NAMA: Routine maintenance</b></p>	



			<p>procedures with no issue</p> <p><b>Roberts: Contract and quarterly check on the earth value.</b></p>	
<p><b>Agenda Item 3: Evaluation and Re-engineering of AFISNET (Implementation of Special AFI/RAN meeting Recommendations 6/18)</b>  <b>Review &amp; Update of the planning for the re-engineering and modernization of AFISNET</b></p>				
Conclusions/Decision	Text	Organization	Status of implementation	Comments
Decision 25/12:	<p><i>Finalization of the Technical Specification and project scheme for AFISNET re-engineering and modernization</i></p>			
	<p><b>That:</b>  Under the coordination of ASECNA, and taking into consideration the requirements for the interconnections between AFISNET with its neighboring networks in particular SADC/NAFISAT, the Joint Technical Team for AFISNET re-engineering and modernization complete the Technical Specification and the project scheme for AFISNET re-engineering and modernization not later than <b>15/02/2018</b>.</p>	All	ASECNA to report	
Conclusion 25/13	<p><i>Funding Mechanisms for AFISNET re-engineering and modernization</i></p>			
	<p><b>That:</b>  a) The detailed project cost estimation updated by the Joint Technical Team for AFISNET re-engineering and modernization be forwarded by the Secretariat to the ECOWAS Commission for consideration in the roundtable of the donors for the ECOWAS regional project in the area of transport</p>	Secretariat	Implemented	





	<b>b) ICAO continue the coordination actions with ECOWAS in preparation of the roundtable with the funders.</b>			
<b>Conclusion 25/14</b>	<i>Finalization of the Memorandum of Understanding (MoU)</i>			
	<b>That: As a matter of urgency ANSPs who have not yet done so endeavor to provide not later than 09/03/2018, ASECNA with their comments on the draft Memorandum of Understanding aimed at governing the framework of bilateral and multilateral cooperation between members.</b>	<b>GCAA, NAMA Roberts</b>	<b>Implemented</b>	
<b>Conclusion 25/15</b>	<i>Coordination meeting of the SNMC Board</i>			
	<b>That: a) An SNMC Board coordinating meeting be convened in Dakar during the first quarter of year 2018 in order to approve the AFISNET re-engineering and modernization Project scheme and signed the Memorandum of Understanding (MoU) previously finalized by ASECNA after review and inputs by GCAA, NAMA and the Roberts FIR; b) The Secretariat facilitate the organization of the coordination meeting with the assistance of ASECNA</b>	<b>ALL</b>	<b>implemented</b>	
<b><u>Agenda Item 4: Interconnection and interoperability of AFISNET with its neighboring networks (CAFSAT, NAFISAT, SADC2)</u></b>				
<b>Conclusions/Decision</b>	<b>Text</b>	<b>Organization</b>	<b>Status of implementation</b>	<b>Comments</b>
<b>Decision 25/16</b>	<i>Monitoring of the performance of the links established through the interconnection of AFISNET with its neighboring Networks</i>			
	<b>That: ASECNA take the appropriate actions in order to follow up and monitor the performance of the links established through the</b>	<b>ASECNA</b>	<b>ASECNA to report</b>	



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	<b>interconnection of AFISNET with its neighboring Networks (SADC 2, NAFISAT, CAFSAT) and report to the SNMC.</b>			
Conclusions/Decision	Text	Organization	Status of implementation	Comments
Conclusion 25/17	<i>Restoration of the Accra/Luanda link</i>			
	<b>That: ATNS, ASECNA, GCAA and ENANA pursue their consultation in order to identify the technical causes of the dysfunction of the link between Accra (AFISNET) and Luanda (SADC 2) and conduct the remedial actions aim at restoring its performance</b>	<b>GCAA</b>	<b>Implemented</b>	
<b>Agenda Item 5: Outcomes of APIRG 21<sup>st</sup> Meeting</b>				
Conclusion 25/18	<i>Consideration of APIRG Regional Project Approach for the modernization of AFISNET</i>			
	<b>That: In the framework of the network re-engineering and modernization, ANSPs take into account the APIRG identified and approved regional projects that may have linkage with AFISNET to ensure coordination and avoid duplication</b>	<b>ALL</b>	<b>Still valid</b>	
Conclusion 25/19	<i>Cyber Safety and resilience of AFISNET</i>			
	<b>That: In order to ensure the Cyber Safety and resilience of AFISNET ANSPs endeavor to: a) Conduct Gap analysis to identify AFISNET cyber vulnerabilities and mitigate the related risks; b) Consider the protection of AFISNET against cyber threat in the technical specification; c) Provide with the support of ICAO, technical and operational personnel with the adequate education training in the matter</b>	<b>ALL</b>	<b>Still valid a) ASECNA: Gap analysisist conducted GCAA:</b>	
Decision 25/20	<i>Expansion of the Mandate of the Joint Technical Team to address issues on Cyber Safety and resilience of AFISNET</i>			



	<p><b>That:</b>  <b>The mandate of the Joint Technical Team for AFISNET re-engineering and modernization is expanded to address issues on Cyber Safety and resilience of AFISNET.</b>  <b>The team will conduct its activities in this area under the coordination of the rolling SNMC coordinator and report to SNMC</b></p>	ALL	Still valid	
<b>Agenda Item 6: Evolutions on Satellite Communication Technology</b>				
<b>Agenda Item 7: Preparation of the ITU World Radiocommunication Conference 2019 (WRC-19)</b>				
	<i>Support to ICAO Position for WRC-19</i>			
Decision 25/21	<p><b>That:</b></p> <p>a) A regional preparatory conference involving various partners (CAAs, ANSPs, Airlines, Aerodrome Operators, Telecommunication Regulator) should be organized during year 2018 with the aim to develop a consistent document summarizing the concern of the African Civil Aviation community on WRC-19 agenda items;</p> <p>b) The Secretariat in collaboration with SNMC CAAs, ANSPs and the industry initiate and coordinate the effective preparation of the conference</p>	<p>a) All</p> <p>b) Secretariat</p>	Not implemented	
<b>Agenda Item 8: Review of the Term of reference and Work Programme of SNMC</b>				
<b>Conclusions/Decision</b>	<b>Text</b>	<b>Organization</b>	<b>Status of implementation</b>	<b>Comments</b>
	<i>Adoption of the Term of reference and Work Programme of SNMC</i>			
Decision 25/22	<p><b>That:</b></p> <p>The Term of Reference, Form of Agreement and Work Programme of SNMC are adopted as attached at <b>Appendix H</b> and may be further amended as necessary</p>	All	Implemented	



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APPENDIX F

Outstanding deficiencies identified by SNMC/25

No.	Identified circuit	Service	Actors	Comments	Deadline
1.	Abidjan/Roberts	ATS/DS	ASECNA /Roberts	OK	
2.	Accra/Cotonou	AFTN	GCAA/ASECNA	OK	
3.	Accra/Lagos	ATS/DS &AFTN	GCAA/NAMA	ATS/DS:OK AFTN: NOK	
4.	Accra/Libreville	ATS/DS	GCAA/ASECNA	OK	
5.	Accra/Luanda	ATS/DS &AFTN	GCAA/ATNS	OK	
6.	Accra/Kano	ATS/DS	GCAA/NAMA	ATS/DS: NOK	
7.	Accra/Sao Tome	ATS/DS	GCAA/ASECNA	OK	
8.	Brazzaville/Kano	AFTN	ASECNA/NAMA	OK	
9.	Dakar/Roberts	AFTN	ASECNA/Roberts	OK	
10.	Lagos/Niamey	ATS/DS &AFTN	ASECNA/NAMA	OK	