

INTERNATIONAL CIVIL AVIATION ORGANIZATION

WESTERN AND CENTRAL AFRICA OFFICE

Twenty First Meeting of the AFI Satellite Network Management Committee (SNMC/21) (Conakry, Guinea, 16-20 December 2013)

Agenda Item 1: Follow up on SNMC/20 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 20 meeting held in Abuja, Nigeria, from 08 to 12 October 2012.

Reference: SNMC 20 Report

Action by the meeting in paragraph 3

1. Introduction

The Working discusses the status of implementation of Conclusions and Decisions adopted by the SNMC/20th Meeting held in held in Abuja, Nigeria, from 08 to 12 October 2012. Follow-up actions indicated in the tables have been established according to information available at the secretariat.

2. Discussion

2.1 The 20th meeting of SNMC (SNMC/20) was held in in Abuja, Nigeria, from 08 to 12 October 2012. The meeting deliberated on nine (09) agenda items and formulated 15 Conclusions and 06 Decisions.

2.2 The secretariat developed the final report that was circulated, finalized and posted at: <u>http://www.icao.int/WACAF/Pages/meetings-2012-snmc-20.aspx</u>

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/20 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 20

Conclusions/Decision	Text	Organization	Status of implementation	Comments
Conclusion 20/01	 Implementation of SNMC/19 outstanding conclusions SNMC That: SNMC member States/Organizations are urged to implement the outstanding Conclusions/Decisions of SNMC previous meetings including those related to SNMC/19's as presented in Appendix B and to undertake corrective actions in order to: a) Restore and stabilize the AFISNET operational/technical reliability and availability as required; b) Provide adequate resources to ensure maintenance personnel exchange and training; c) Improve the maintenance coordination and monitoring procedures by bilateral and multilateral maintenance personnel exchange 	All Organizations	Concerned Organizations to report	
Decision 20/02	Finalization of the common training programme for AFISNET maintenance personnel			
	That: a) A Task Force is established to finalize not later than end of July 2013, the draft training programme developed by Ghana for	GCAA	GCAA to report	

	 AFISNET maintenance personnel based on the common facilities and the provision of ICAO Training Manual for Air Traffic Safety Electronics Personnel (ATSEP), Doc 7192-AN/857 Part E-2. b) Ghana coordinate the work of the Task Force and report for circulation and consolidation among SNMC members with copy to ICAO WACAF Regional Office. 			
Conclusion 20/03	Development of training plans for Maintenance personnel			
	That: SNMC States/Organizations develop and implement short, medium and long term training plans for maintenance personnel taking into consideration the provision of the common training programme and the training capability existing in the Region; The status of implementation of the short term training will be reported to next SNMC 2th meeting.	All Organizations	States to report	
Conclusion 20/04	Licenses for AFISNET Maintenance Personnel			
	That: SNMC Sates/Organizations undertake a harmonized study for a possible issuance of licenses to AFISNET Maintenance Personnel based on the successful implementation of the training programme and plans and subsequently ensure attractive position and conditions with regard to the responsibility and accountability required from the licensed		States to report	

	personnel.			
Decision 20/05	Development of a calibration center for AFISNET Test Equipments That:			
	 In accordance with Decisions 18/02 of SNMC/18 and 19/04 0f SNMC/19 a) ASECNA tasked as Team leader by SNMC/19 pursue its effort in the development of the study for the implementation of the regional calibration center called upon by SNMC /18 and 19 meetings; b) SNMC members that have not done so, provide/complete an exhaustive list of tests equipments for the development of a data base and the finalization of the feasibility studies by end of January 2013 	ASECNA Sates	Organizations to report	At the request of ASECNA ICAO purchase ISO/CEI/1702 5:2005 Document tests equipments and received data from Roberts FIR, GCAA
	and; c) ICAO continue to support the implementation process;	ICAO	ICAO coordinated the collection of the list of	This document contains the requirements for the capability of Test equiments calibration labs
Decision 20/06	Nomination of Focal point to follow up SNMC conclusions/decisions			
	That:	Focal Point	States to Report	
	a) The nominated Focal Points as per Appendix C, forward to the			

	 current SNMC Coordinator (NAMA) a quarterly report on the status of implementation of the conclusions/decisions of SNMC 20; b) The current coordinator (NAMA) circulate amongst SNMC members a consolidated quarterly report on the status of implementation of the conclusions/decisions of SNMC 20; c) The electronic medium should be used for data exchange and reporting. Agenda Item 2: Review of AFISNET operational and technical st 	NAMA coordinator atistics of availabil	NAMA to report	
Conclusion 20/07	Improvement of AFS (ATS/DS &AFTN) circuits		•	
	That: As a matter of urgency concerned SNMC States conduct immediate collaborative actions aiming to investigating on the current failing AFS circuits and clear out the deficiencies reported to SNMC and attached in Appendix D	ASECNA GCAA NAMA	Organizations to report	
Decision 20/08	Mitigation of missing Flight Plans			
	 That: a) Local Study Groups comprising technical and operational personal be established by each SNMC member not later than end of December 2012, in order to assess the technical and operational causes of missing flight plans, propose and undertake actions for their mitigation; b) The outcome of the local assessment should be shared with concerned centers for collaborative remedial actions; 	All Organizations	Organizations to report	No report to Secretariat on related activities

	c) The current coordinator (NAMA) aggregate the reports of the local Study Groups and report to next SNMC meeting.	NAMA	NAMA to report
Conclusion 20/09	Automation of AFISNET operational Performance assessment		
	That:		
	In accordance with APIRG/18 deliberations (APIRG/18 Report		
	§ 3.4.28) adopting the Performance Data Collection Form (PDCF),		
	1) States/Organization endeavor to:		
	a) Participate in the development of a comprehensive database for AFS-AFTN statistics management and monitoring in the AFI Region;	All States	To consider when
	b) Fill the Excel PDCF document and other relevant forms and report to the regional Office		implementing AMHS systems
	2) ICAO assist States/Organization in the automation of AFISNET		
	Performance assessment		
Conclusion 20/10	Automation of AFISNET Four Levels Performance Assessment system		
	That:		
	a) As a matter of urgency ASECNA circulate the model of four levels Performance Assessment principle for consideration by SNMC Administrations/Organizations;	ASECNA	ASECNA to report
	b) In order to ensure a common performance evaluation exercise an automated network Performance Assessment system development be initiated by ASECNA and presented to next SNMC meeting.		
Age	enda Item 3: Implementation of Special AFIRAN meeting recommendations	6/18 and 6/19 <u>Au</u>	udit of AFISNET
Decision 20/11	Terms of reference Action plan and timescale of the Audit of AFISNET		

Conclusion 20/12	That:a)The revised terms of reference, the action plan and the timescale of the AFISNET audit, be adopted as per Appendix E b)b)ICAO continues to coordinate the implementation process of the audit and launch the request for proposals for the audit to be completed within the timescale.High level SNMC Administration meeting	ICAO	Implemented	The Secretariat coordinate the funding mechanism and funds are now available
	That: SNMC States/Organizations convene as soon as possible under the auspices of ICAO, a high level Administration heads meeting in order to agree on the funding mechanism for the implementation of Recommendation 6/18 of SP AFI RAN.	ICAO	Not implemented	Conclusion no more valid
Conclusion 20/13	Participation of SNMC members in the meeting of the Task Force on the Development of a Regional Project on an AFI Integrated Aeronautical Telecommunication Infrastructure That:			
	SNMC members endeavor to implement the Conclusion/Decisions derived from the outcome of the meetings of the Task Force for the AFI Aeronautical VSAT Networks Regional Project and actively participate in the future meetings of the Task Force for the development of an AFI Regional integrated aeronautical telecommunication infrastructure	States	Partially Implemented	Task force meeting attended by SNMC members
Agenda Item 4: Interco	nnection and interoperability of AFISNET with its neighboring networks (C	CAFSAT, NAFISA	AT, SADC2)	
Conclusion 20/14	Completion of the interconnection process between AFISNET and its			

	neighboring networks			
	neighboring neiworks			
	That:			
	States/Organizations pursue the interconnection process between			
	AFISNET and the neighboring networks in order to achieve the			
	remaining AFS circuits required for ATM operation in particular:			
	a) ASECNA and ATNS to continue their technical cooperation	ASECNA	ASECNA &	
	to assist the concerned States to establish via the	ATNS	ATNS to report	
	interconnection between AFISNET and NAFISAT/SADC 2			
	the Moroni/Victoria, Moroni / Dar-es-Salam, Alger/Tripoli,			
	Pointe Noire/ Luanda links and stabilize the following			
	circuits: Brazzaville/Kinshasa, Luanda/Brazzaville;			
	b) ASECNA, ENNA and French DGAC to complete the	ASECNA	ASECNA,	
	establishment of the link between Algiers and Aix.	ENNA	ENNA, France to report	
		France		
	a) ICAO continue to essist the concerned statishedders, with			
	c) ICAO continue to assist the concerned stakeholders with guidance and technical coordination meetings aiming to	ICAO		
	meeting agreement on cost effectiveness solutions for the			
	implementation of the interconnection.			
Conclusion 20/15	Bilateral agreement covering the interconnections between AFISNET			

	and SADC/2 and NAFISAT		
	That: ATNS and ASECNA continue further discussions to finalize and endorse the bilateral agreement covering the interconnections between AFISNET and SADC/2 / NAFISAT and assist other SNMC members if needed, to conclude similar agreements aiming to ensuring a quality of service level supported by the links.	ASECNA/ATNS	ASECNA & ATNS to report
	AFISNET in ICAO Aviation System Block Upgrades (ASBU) context		
Conclusion 20/16	That SNMC States/Organizations endeavor to prepare and participate in the 12 th (Montreal, 10-30 November 2012) Air Navigation Conference and take into account the ASBU concept and methodology to better conduct the AFISNET modernization exercise.	All States	Implemented
	Agenda Item 5: Outcome of ITU WRC-12 pertaining to VSATs Networks	and preparation o	f WRC-15
Conclusion 20/17	Implementation of Resolution 154 (COM 6/24)- WRC-12 and preparation of WRC-15		
	That: SNMC Sates/Organizations endeavor to:	All States	Still valid and Partially implemented

	 a) Appropriate and promote the outcome on issues of WRC-12 related to the provision of spectrum for civil aviation; b) Actively participate in the studies called upon by Resolution 154 (COM6/24)-WRC 12 through the activities of AFI/FMG, ACP WG F meetings and ATU regional meetings; c) Strengthen their collaboration with their National Authority of Regulation of Telecommunication and other stakeholders involved in the usage of aeronautical spectrum in order to agree on Collaborative Decision Making (CDM) in support to the forthcoming ICAO position for the future WRC-15/16 			
	Agenda Item 6: AFISNET band width re-enginee	ering		
	Satellite back up and AFISNET band width re-engineering			
Conclusion 20/18	That:			
	 SNMC Sates/Organizations: a) develop a customer requirements to be submitted to the satellite Service Provider INTELSAT and that will address the feasibility of technical solutions to be deployed in case of satellite failure and; b) Schedule the IBS to leased band conversion with INTELSAT and complete the implementation of conclusion 17/10 and 18/13, 19/13 of respective SNMC/17, 18 and 19 meetings. 	States	Still valid Not implemented	
	Agenda Item 7: Review of the APIRG/18 conclusion related	d to AFISNET		
Conclusion 20/19	Review of the APIRG/18 conclusion related to AFISNET			
	That:	All States	Still valid	
	SNMC Sates/Organizations:		States to report	

	 a) Implement APIRG/18 Conclusions 18/24, 18/25 & 18/26 related respectively to: Contingency Planning for AFI VSAT Networks Operations Best practices for AFI VSAT Networks Modernization of AFI VSAT Networks b) Increase their pace of participation to CNS/SG and APIRG forthcoming meetings. <u>Agenda Item 8:</u> Required Communication Performance of AMS support. 	nnortad by AFISN	FT	
		pported by AFISI		
Conclusion 20/20	Required Communication Performance of AMS supported by AFISNET			
	That:	All States	Still valid	
	When re-engineering AFISNET States/Organizations take advantage			
	of the benefit provided by RCP concept for the reinforcement of the			
	Quality of Service of aeronautical mobile communication within			
	SNMC airspace.			
	Agenda Item 9: Review of the Term of reference and Work Prog	gramme of SNMC		
Decision 20/21	Term of reference and Work Programme of SNMC			
	That;	All States	Implemented	
	The revised Terms of Reference of SNMC is adopted as presented at		PP	
	Appendix			

Performance Data Collection Form Global Static parameters

Center

Date/		
Parameters	Values	Remarks
	Fixed Parameters	
Intelsat link Name	IS 901 @°E	
Transponder Number	36/36	
Satellite Earth Station Coordinates	LONG = ddd, mm O/E LAT = dd, mm N/S AZ = ddd, mm O/E EL = dd, mm N/S	Under WGS 84 Format
Antenna Type and Size	m	
Antenna Gain	Tx :dBi Rx :dBi	
SSPA type	XW	
Up Converter Frequency	MHz	
Down Converter Frequency	MHz	
G	Global Dynamic parameters	
EIRP		
G/T		
C/N0		
BER		
MTBF		
MTTR		
Para	meter for Carrier Performance	
Carrier failure rate		
C/N0		
BER		

Performance of AFTN

Centre : Accra

Date /

Country	Terminal I	Terminal II	Support	COM Protocol	Speed	Transit Time	Routing		Monthly Availability 2011						½ Anı Avera Availa	age							
								01 02		01 02		01 02		0;	3	0	4	0	5	(06	1	
Ghana	Accra	Niamey	AFISNET					тх	RX	тх	RX	тх	RX	тх	RX	ΤХ	RX	ΤХ	RX	тх	RX		

Qualitative performance of ATS/DS

Centre :

Date /

Country	Terminal I	Terminal II	Support	Connexion Time	Nb of Attemps	One Way Latence Time	Call set up time	Voice Quality (1 to 5)	Monthly Availability 2011			1/2 Annual Average Availability			
Nigeria	Kano	Niamey	AFISNET						01	02	03	04	05	06	

Qualitative performance of Future CNS Services

Country	Terminal 1	Terminal II	Support	Provided Service	COM ProtocolSpeedTransit TimeRoutingAvailability 2005-2010						Remarks				
									05	06	07	08	09	10	
Mauritus	Maurice	Ivato	AFISNET	AIDC											
Liberia	Roberts	Dakar	AFISNET	AMHS											

Appendix D

Current AFS dysfunctions on AFISNET

с	ircuit	Service		Performances					
Terminal I	Terminal II		Average Availability	Comments	Futures actions				
	Brazzaville	ATS/DS	92.4%						
	Kano	ATS/DS	1%						
Accra	Lagos	ATS/DS	92.4						
	Lome	ATS/DS	92.7						
	Luanda	ATS/DS	87.8						
	Lome	AFTN	81.2%						
Acore	Luanda	AFTN	77.8%						
Accra	Ouagadougou	AFTN	89.3%						
	Sao Tome	AFTN	51.4%						
	Antanarivo	AFTN	88%						
	Dakar	AFTN	94%						
	Johannesburg	AFTN	87%						
Brazzaville	Kano	AFTN	43%						
	Kinshasa	AFTN	0%						
	Luanda	AFTN	6%						
	Niamey	AFTN	93%						
	Antananarivo	AFTN	91%						
	Bamako	AFTN	92%						
	Bissau	AFTN	95%						
Deless	Brazzaville	AFTN	94%						
Dakar	Conakry	AFTN	95%						
	Libreville	AFTN	93%						
	Nouakchott	AFTN	94%						
	Niamey	AFTN	90%						
	· · · · · · · · · · · · · · · · · · ·								
	Accra	AFTN	96%						
	Brazzaville	AFTN	86%						
	Dakar	AFTN	90%						
Niamey	Kano	AFTN	86%						
- J	Lome	AFTN	94%						
	N'Djamena	AFTN	94%						
	Nouakchott	AFTN	96%						