



International Civil Aviation Organization

**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
SIXTEENTH MEETING (APIRG/16)**

(Kigali, Rwanda 19-23 November 2007)

Agenda Item 4: AFI Regional Air Navigation Planning and Implementation Issues
4.2: Communications, Navigation and Surveillance (CNS)

REVIEW OF THE SADC/2 AND NAFISAT VSAT PROJECTS

(Presented by ATNS, South Africa)

Summary

The Working Paper provides information regarding the status of the SADC2 and NAFISAT VSAT project implementation.

1. Introduction

The implementation of the SADC/2 and NAFISAT networks will address a number of deficiencies in the AFI Region as well as the interconnection with neighbouring networks. The implementation of the networks commenced in August 2006. This paper provides the meeting with the implementation status of both networks. Annexure B and C indicate the connectivity of the ATS/DS and AFTN of the two networks as implemented.

2. Discussion

2.1 Implementation

Annexure A: Project Schedule: SADC VSAT provides data on each item completed and the status of all outstanding issues. The implementation and transfer of the SADC2 network was completed on 24 October 2007, while it is planned that the NAFISAT network will be completed by January 2008. Annexure D and E show the actual/planned dates for the installation of each site in the two networks respectively.

2.2 Interconnection with neighbouring networks

Annexure B and C include the MCPC circuits that will interconnect with the ASECNA circuits as applicable. The SADC2 and NAFISAT terminals are already configured for the interconnections with ASECNA. The circuits will be implemented when the ASECNA terminals are upgraded.

2.3 Bilateral Agreements

With the signature of the bilateral agreement between Egypt and ATNS on 11 November 2007, all SADC and NAFISAT bilateral agreements have been concluded.

State	Status	Comment
SADC VSAT 2		
Angola	Signed	
Botswana	Signed	
Burundi	Signed	
DRC	signed	
Lesotho	Signed	
Malawi	Signed	
Mauritius	Signed	
Mozambique	Signed	
Namibia	Signed	
Rwanda	Signed	
Swaziland	Signed	
Tanzania	Signed	
Zambia	Signed	
Zimbabwe	Signed	

NAFISAT		
Djibouti	Signed	
Egypt	Signed	
Ethiopia	Signed	
Eritrea	Signed	
Kenya	Signed	
Libya	Signed	
Saudi Arabia	Signed	
Seychelles	Signed	
Somalia	Signed	
Sudan	Signed	
Tanzania	Signed	
Uganda	Signed	
Yemen	Signed	

3. Conclusion

No mayor risks have been identified and it is expected that the NAFISAT network will be implemented in the time frame as indicated in Annexure A: Project Schedule.

4. Action by the meeting

The meeting is invited to:

- a) note the progress made with the implementation of the two networks

- b)** make use of the information provided in the discussions of the meeting

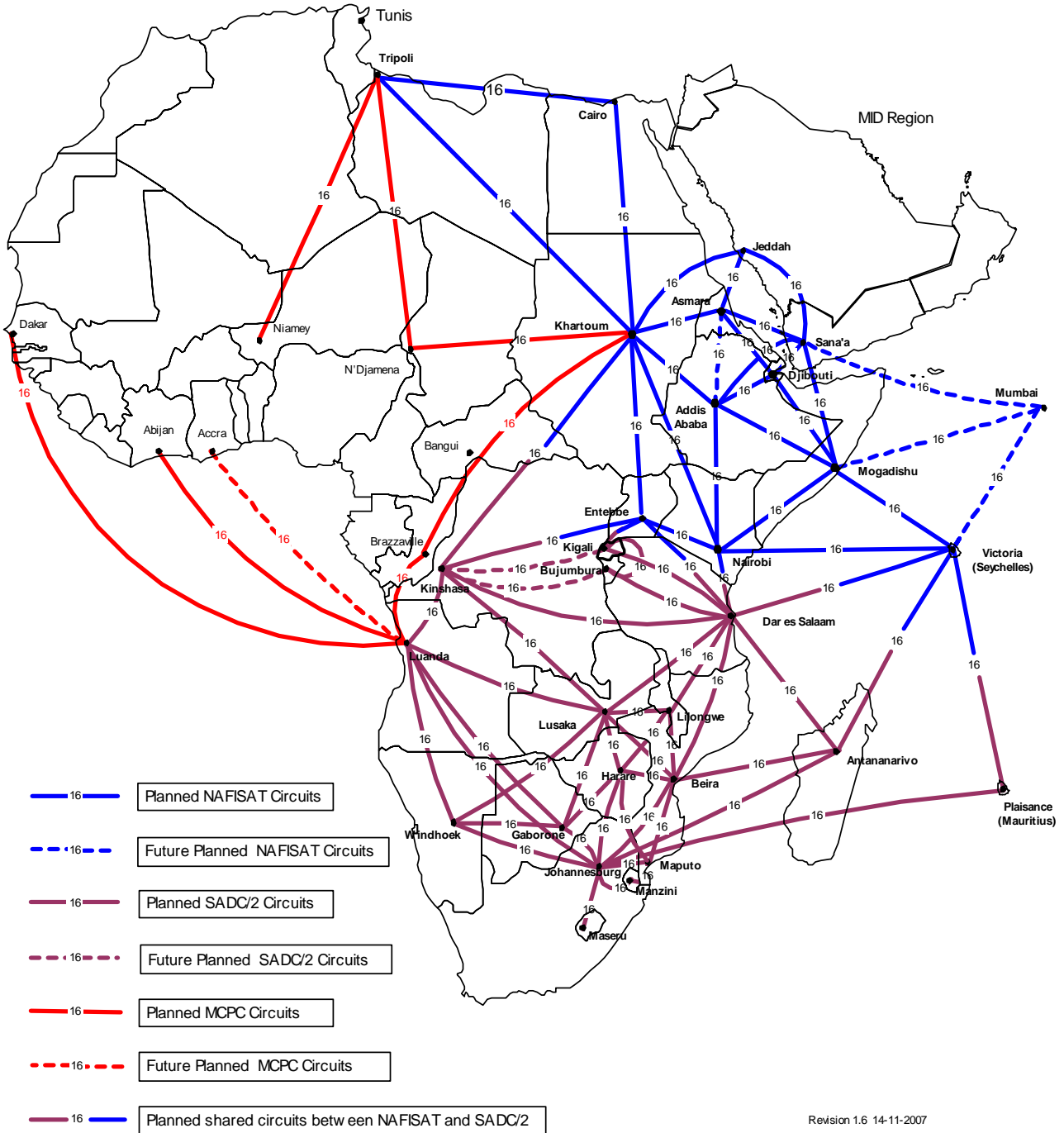
Project schedule: SADC VSAT 2 & NAFISAT

	Description	Planned date	Expected new date	Comment
1	ATNS Board Business Case Approval	8 August 2004		
2	SADC Board Business Case Approval	14 February 2005		
3	Preparation of Registration Of Interest	29 August 2005		
4	ROI Industry response	19 September 2005	13 October 2005	Delay due to advertising requirements by NAFISAT
5	Evaluation of ROI response	06 October 2005	3 November 2005	Delay due to advertising requirements by NAFISAT
6	Approval of the short list by ATNS board	14 October 2005	10 November 2005	ProCom meeting
7	SADC/NAFISAT Bilateral Agreements	30 November 2005		
8	Preparation of the Request For Tender	03 November 2005	-	
9	Tender Plan Preparation	16 November 2005	-	
10	Approval of Documentation	24 November 2005	9 January 2006	Exec. Management meeting
11	Industry Tender Response	17 January 2006	16 February 2006	Delay due to advertising requirements by NAFISAT
12	Evaluation of Tender response	10 February 2006	11 March 2006	Delay due to advertising requirements by NAFISAT
13	Tender Selection Report	24 February 2006	18 March 2006	Delay due to advertising requirements by NAFISAT
14	ATNS board Tender Approval	10 March 2006	TBA	
15	SADC/NAFISAT VSAT Tender Approval	16 March 2006	4/25 April 2006	
16	Contract negotiation (commence)	23 May 2006	26 May 2006	
17	Contract award and Project Kick-off	09 June 2006	20 June 2006	Depend on Bank guarantee/advance payment
18	Advanced payment	09 June 2006	31 July 2006	Coming into force
19	Factory Acceptance	13 – 24 Feb 07	End March 2007	Delayed by 1 month for extended testing
20	Site Surveys	October 2006	Jan 2008	NAFISAT MMC delayed
21	Civil Works	Jan - May 07	April 07-Jan 08: NAFI	SADC completed. NAFISAT in progress
22	Installation of ATA training VSAT	Feb 2007	April 2007	Completed 4 May 2007
23	Pre-installation Training	March – April 07	May – June 07	Completed 15 June 07

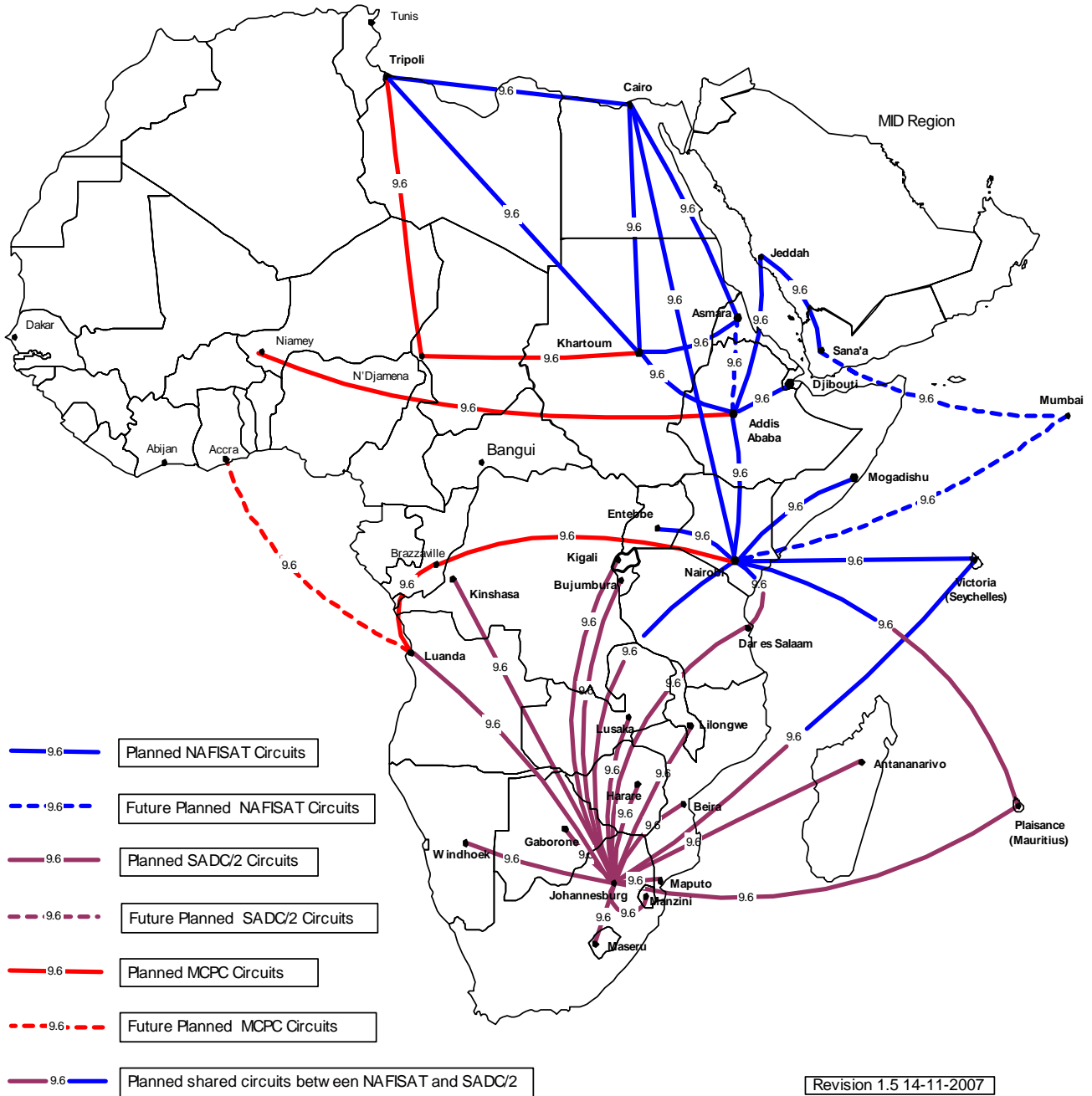
Annexure A

24	Advanced training for ATNS		11 – 22 June 2007	Completed 22 June 2007
25	Packing of equipment		April 2007	Completed
26	Transportation to the sites	March – May 07	May – Dec 07	SADC completed. NAFISAT in progress
27	Installation of equipment (NAFISAT)	May – July 2007	Sept 07 – Jan 08	Progressive installation 8/13 sites completed: 62%
28	Installation of equipment (SADC/2)	June – mid Aug 2007	July – 8 Oct 2007	Completed – DRG completed 8 October 07
29	Commissioning (NAFISAT)	mid Aug 2007	Jan 2008	Total network commissioning dependant on Egypt installation
30	Commissioning (SADC/2)	mid Aug 2007	24 Oct 2007	Completed. Total network commissioning delayed by DRG delivery/customs
31	Commencement of PBU (NAFISAT)	mid Aug 2007	Feb 2008	
32	Commencement of PBU (SADC/2)	mid Aug 2007	Nov 2007	

ATNS VSAT NETWORK: NAFISAT and SADC/2 - ATS/DS Connectivity



ATNS VSAT NETWORK NAFISAT and SADC/2 - AFTN Connectivity



SADC2 Project

ID	Task Name	Start	Finish	07/08	07/15	07/22	07/29	08/05	08/12	08/19	08/26	09/02	09/09	09/16	09/23	09/30	10/07	10/14	10/21	10/28	
1	Johannesburg	Mon 07/07/09	Fri 07/08/10	[Bar]																	
2	Swaziland	Mon 07/07/09	Mon 07/08/27	[Bar]																	
3	Installation	Mon 07/07/09	Fri 07/07/13	[Bar]																	
4	Commissioning	Fri 07/08/24	Mon 07/08/27																		
5	Lesotho	Tue 07/07/17	Wed 07/08/29	[Bar]																	
6	Installation	Tue 07/07/17	Mon 07/07/23	[Bar]																	
7	Commissioning	Tue 07/08/28	Wed 07/08/29																		
8	Mauritius	Wed 07/08/01	Tue 07/08/28																		
9	Installation	Wed 07/08/01	Tue 07/08/07																		
10	Commissioning	Mon 07/08/27	Tue 07/08/28																		
11	Malawi	Thu 07/08/16	Fri 07/08/24																		
12	Installation	Thu 07/08/16	Wed 07/08/22																		
13	Commissioning	Thu 07/08/23	Fri 07/08/24																		
14	Lesotho	Tue 07/07/17	Wed 07/08/29	[Bar]																	
15	Installation	Tue 07/07/17	Mon 07/07/23	[Bar]																	
16	Commissioning	Tue 07/08/28	Wed 07/08/29																		
17	Botswana	Mon 07/07/09	Mon 07/08/27	[Bar]																	
18	Installation	Mon 07/07/09	Fri 07/07/13	[Bar]																	
19	Commissioning	Fri 07/08/24	Mon 07/08/27																		
20	Zambia	Wed 07/07/18	Tue 07/08/28	[Bar]																	
21	Installation	Wed 07/07/18	Tue 07/07/24	[Bar]																	
22	Commissioning	Mon 07/08/27	Tue 07/08/28																		
23	Zimbabwe	Wed 07/08/01	Wed 07/08/29	[Bar]																	
24	Installation	Wed 07/08/01	Tue 07/08/07																		
25	Commissioning	Tue 07/08/28	Wed 07/08/29																		
26	Madagascar	Fri 07/08/17	Mon 07/08/27																		
27	Installation	Fri 07/08/17	Thu 07/08/23																		
28	Commissioning	Fri 07/08/24	Mon 07/08/27																		
29	RD Congo	Tue 07/09/25	Mon 07/10/08																		
30	Installation	Tue 07/09/25	Thu 07/10/04																		
31	Commissioning	Fri 07/10/05	Mon 07/10/08																		
32	Mozambique (Maputu)	Thu 07/07/19	Fri 07/08/31	[Bar]																	
33	Installation	Thu 07/07/19	Wed 07/07/25	[Bar]																	
34	Commissioning	Thu 07/08/30	Fri 07/08/31																		
35	Mozambique (Beira)	Wed 07/08/01	Fri 07/08/31	[Bar]																	
36	Installation	Wed 07/08/01	Tue 07/08/07																		
37	Commissioning	Thu 07/08/30	Fri 07/08/31																		
38	Tanzania	Tue 07/08/14	Wed 07/08/22																		
39	Installation	Tue 07/08/14	Mon 07/08/20																		
40	Commissioning	Tue 07/08/21	Wed 07/08/22																		
41	Rwanda	Tue 07/08/21	Wed 07/08/29																		
42	Installation	Tue 07/08/21	Mon 07/08/27																		
43	Commissioning	Tue 07/08/28	Wed 07/08/29																		
44	Burundi	Wed 07/08/15	Thu 07/08/23																		
45	Installation	Wed 07/08/15	Tue 07/08/21																		
46	Commissioning	Wed 07/08/22	Thu 07/08/23																		
47	Angola	Mon 07/09/10	Tue 07/09/18																		
48	Installation	Mon 07/09/10	Fri 07/09/14																		
49	Commissioning	Mon 07/09/17	Tue 07/09/18																		
50	Namibia	Mon 07/07/23	Thu 07/08/23	[Bar]																	
51	Installation	Mon 07/07/23	Fri 07/07/27	[Bar]																	
52	Commissioning	Wed 07/08/22	Thu 07/08/23																		
53	Transfer of Networks	Tue 07/10/09	Wed 07/10/24																		
54	Stability testing	Tue 07/10/09	Wed 07/10/17																		
55	Transfer operation	Thu 07/10/18	Wed 07/10/24																		

NAFISAT Project

