## 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

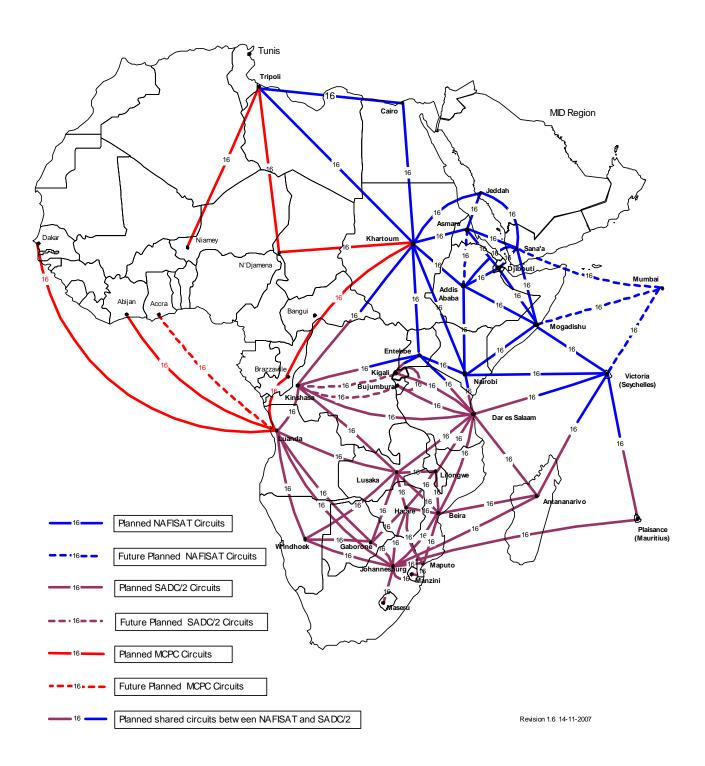
## Project schedule: SADC VSAT 2 & NAFISAT

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

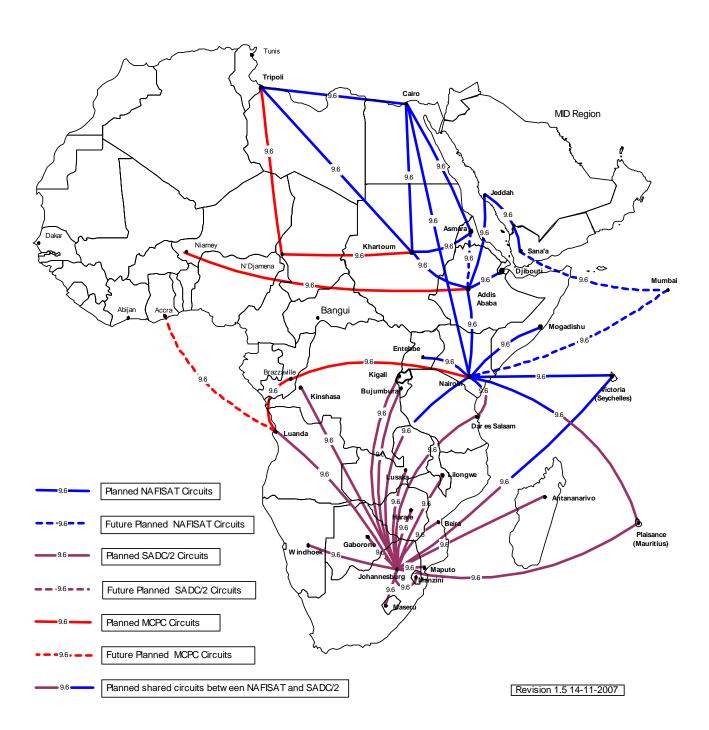
### Annexure A

24	Advanced training for ATNS		<del>11 – 22 June</del> <del>2007</del>	Completed 22 June 2007
<del>25</del>	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%
<del>28</del>	Installation of equipment (SADC/2)	<del>June – mid Aug</del> <del>2007</del>	<del>July – 8 Oct</del> <del>2007</del>	Completed – DRC completed 8 October 07
29	Commissioning (NAFISAT)	mid Aug 2007	Jan 2008	Total network commissioning dependant on Egypt installation
<del>30</del>	Commissioning (SADC/2)	mid Aug 2007	<del>24 Oct 2007</del>	Completed. Total network commissioning delayed by DRC 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
1	Johannesburg	Mon 07/07/09	Fri 07/08/
2	Swaziland	Mon 07/07/09	
3	Installation	Mon 07/07/09	Fri 07/07/
4	Commissioning	Fri 07/08/24	Mon 07/08/
5	Lesotho	Tue 07/07/17	
6	Installation	Tue 07/07/17	Mon 07/07/
7	Commissioning	Tue 07/08/28	
8	Mauritius	Wed 07/08/01	Tue 07/08/
9	Installation	VVed 07/08/01	Tue 07/08/
10	Commissioning	Mon 07/08/27	Tue 07/08/
11	Malawi	Thu 07/08/16	Fri 07/08/
12	Installation	Thu 07/08/16	
13	Commissioning	Thu 07/08/23	Fri 07/08/
14	Lesotho	Tue 07/07/17	
15	Installation	Tue 07/07/17	Mon 07/07/
16	Commissioning	Tue 07/08/28	
17	Botswana	Mon 07/07/09	
18	Installation	Mon 07/07/09	Fri 07/07/
19	Commissioning	Fri 07/08/24	Mon 07/08/
20	Zambia	Wed 07/07/18	Tue 07/08/
21	Installation	Wed 07/07/18	Tue 07/07/
23	Commissioning Zimbabwe	Mon 07/08/27 Wed 07/08/01	
24	Installation	Wed 07/08/01	Tue 07/08/
25	Commissioning	Tue 07/08/28	
26	Madagascar	Fri 07/08/17	
27	Installation	Fri 07/08/17	Thu 07/08/
28	Commissioning	Fri 07/08/24	Mon 07/08/
29	RD Congo	Tue 07/09/25	
30	Installation	Tue 07/09/25	Thu 07/10/
31	Commissioning	Fri 07/10/05	
32	Mozambique (Maputu)	Thu 07/07/19	Fri 07/08/
33	Installation	Thu 07/07/19	
34	Commissioning	Thu 07/08/30	Fri 07/08/
35	Mozambique (Beira)	Wed 07/08/01	Fri 07/08/
36	Installation	VVed 07/08/01	Tue 07/08/
37	Commissioning	Thu 07/08/30	Fri 07/08/
38	Tanzania	Tue 07/08/14	Wed 07/08/
39	Installation	Tue 07/08/14	Mon 07/08/
40	Commissioning	Tue 07/08/21	VVed 07/08/
41	Rwanda	Tue 07/08/21	
42	Installation	Tue 07/08/21	Mon 07/08/
43	Commissioning	Tue 07/08/28	VVed 07/08/
44	Burundi	Wed 07/08/15	Thu 07/08/
45	Installation	VVed 07/08/15	Tue 07/08/
46	Commissioning	Wed 07/08/22	Thu 07/08/
47	Angola	Mon 07/09/10	Tue 07/09/
48	Installation	Mon 07/09/10	Fri 07/09/
49	Commissioning	Mon 07/09/17	Tue 07/09/
50	Namibia	Mon 07/07/23	Thu 07/08/
51	Installation	Mon 07/07/23	Fri 07/07/
52	Commissioning	Wed 07/08/22	Thu 07/08/
53	Transfer of Networks	Tue 07/10/09	
54	Stability testing	Tue 07/10/09	
55	Transfer operation	Thu 07/10/18	vved 07/10/

**NAFISAT Project** 

	I=			
ID	Task Name	Start		07/08 07/15 07/22 07/29 08/05 0
2		Wed 07/10/31		
3	Installation	Wed 07/10/31		
4	Commissioning	Wed 07/11/07		
	Eritrea		Wed 07/11/28	
6	Installation		Mon 07/11/26	
7	Commissioning		Wed 07/11/28	
8	Yemen	Thu 07/11/29	Fri 07/12/07	
9	Installation	Thu 07/11/29	Wed 07/12/05	
10	Commissioning	Thu 07/12/06	Fri 07/12/07	
11	Seychelles	Mon 07/09/03	Tue 07/09/11	
12	Installation	Mon 07/09/03	Fri 07/09/07	
13	Commissioning	Mon 07/09/10	Tue 07/09/11	
14	Ethiopia	Fri 07/11/30	Mon 07/12/10	
15	Installation	Fri 07/11/30	Thu 07/12/06	
16	Commissioning	Fri 07/12/07	Mon 07/12/10	
17	Sudan	Wed 07/10/03	Thu 07/10/11	
18	Installation	Wed 07/10/03	Tue 07/10/09	
19	Commissioning	Wed 07/10/10	Thu 07/10/11	
20	Uganda	Mon 07/09/10	Tue 07/09/18	
21	Installation		Fri 07/09/14	
22	Commissioning	Mon 07/09/17	Tue 07/09/18	
23	Libya	Wed 07/10/31	Thu 07/11/08	
24	Installation	Wed 07/10/31	Tue 07/11/06	
25	Commissioning	Wed 07/11/07	Thu 07/11/08	
26	Djibouti	Wed 07/10/10		
27	Installation	Wed 07/10/10	Tue 07/10/16	
28	Commissioning	Wed 07/10/17	Thu 07/10/18	
29	Somalia	Mon 07/10/22		
30	Installation	Mon 07/10/22	Wed 07/10/31	
31	Commissioning	Thu 07/11/01	Fri 07/11/02	
32	Kenya	Wed 07/12/12		
33	Installation	Wed 07/12/12		
34	Commissioning		Thu 07/12/20	
35	Egypt		Fri 08/01/18	
36	Installation		Wed 08/01/16	
37	Commissioning		Fri 08/01/18	
38	Commissioning of Network			
39	Network AcceptanceStal			
40	Operation Operation		Wed 08/02/13	
40	operation	m011 00/02/11	V VGU 00/02/13	