



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
COMMUNICATIONS, NAVIGATION AND SURVEILLANCE SUB-GROUP THIRD MEETING
CNS/SG/3**

(Nairobi, Kenya, 26-30 April 2010)

(Presented by ASECNA)

SUMMARY

The present Working Paper gives a progress report on the implementation of rationalized ATS/DS Plan in ASECNA area. For the shortcomings and deficiencies still existing in the establishment of the involved circuits, ASECNA proposes solutions to overcome them.

Agenda Item 4: **Aeronautical Fixed Service status in ASECNA**

ATS/DS circuits achievement and status

1. Introduction

In the framework of the improvement of the aeronautical telecommunications services, ASECNA pursued the implementation of ATS/DS circuits in order to eliminate the shortcomings and deficiencies still existing. The interconnection between AFISNET and NAFISAT-SADC-2 and the close cooperation between AFISNET members allowed to clear some a majority of deficiencies.

However the efforts in a cooperative/proactive approach are to be continued, regarding the deficiencies still affecting the aeronautical telecommunication services.

According to the RAN AFI/7 recommendations 5/23 and 9/2 , regarding the use of VSAT technology for the implementation and improvement of the AFS circuits, ASECNA carried out and expedited its VSAT installation stations schedule , in order to eliminate the noted shortcomings and deficiencies.

2. Discussion

Implementation of ATS/DS circuits

Table1 in appendix points out that:

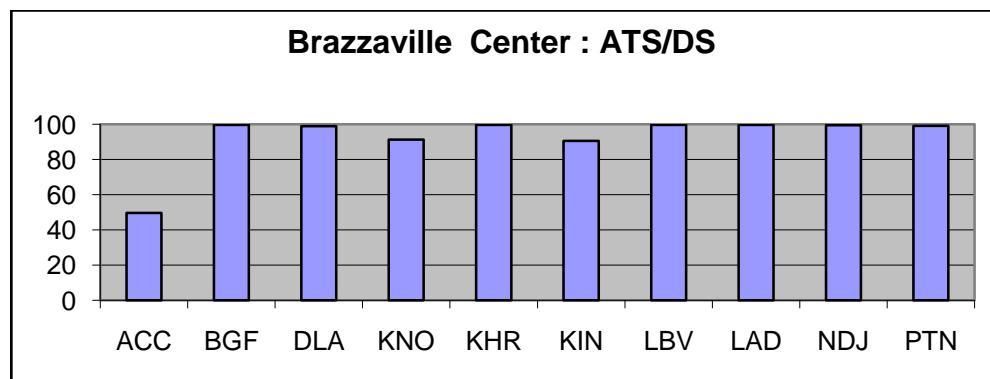
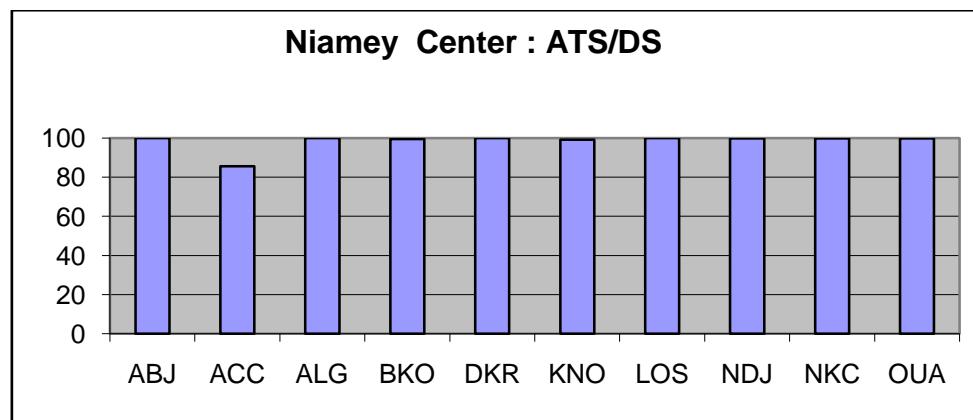
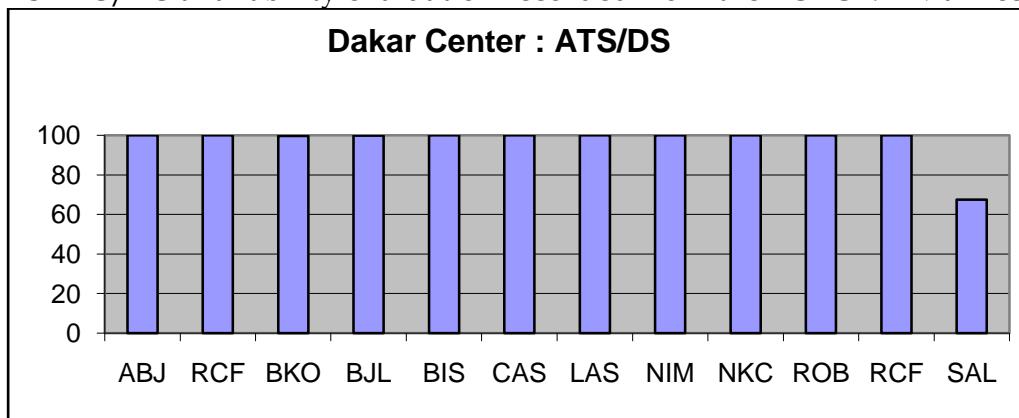
- For 124 AFI Plan required circuits, in ASECNA area, 118 circuits are implemented for a realization rate of about 95%;
- About 28 bilateral circuits have been achieved in order to satisfy ATC requirements taking into account the real flow of air traffic and the airspace topology.
- Most of the 6 remaining non implemented circuits are in the step of technical discussions between the involved parties and will be implemented very soon;

In the other hand, alternative means are provided to ATC so that flights coordination are operated between neighbouring centres.

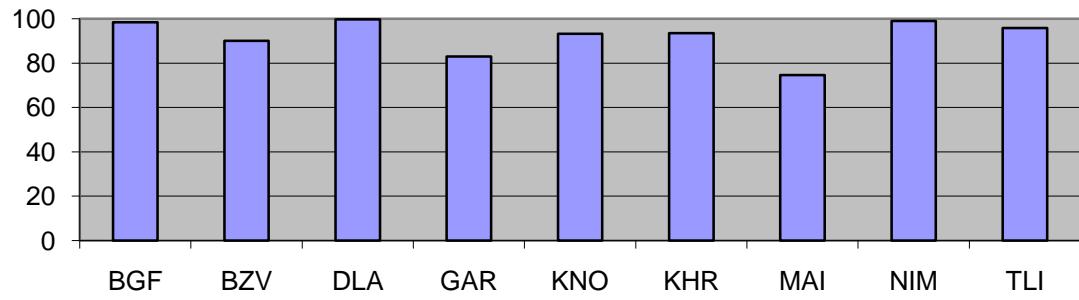
ATS/DS circuits Performances

ATS/DS circuits performances evaluation does not follow any standardization.

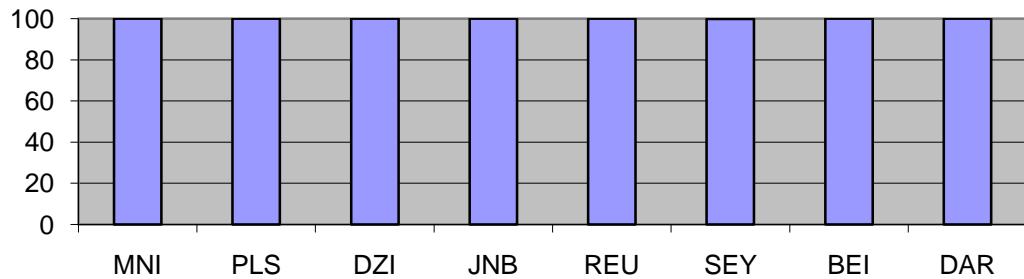
Figure 1 Shows ATS/DS availability evaluation recorded from the ASECNA Main centres



N'djamena Center : ATS/DS



Antananarivo Center : ATS/DS



It can be noted that some deficiencies remain and must be cleared out as soon as possible to avoid or increase the risk of non coordinated flight in the area.

Back up facilities

To ensure the continuity of ATS vocal coordination ASECNA provided his centre with INMARSAT phone and with PSTN line. The list of ATS/DS Backup means in ASECNA Centres is available;

ASECNA CENTRES PHONE NUMBERS

Centre	SATPHONE	CCR/CIV/TWR PSTN
Abidjan	00 870 763041714	00 (225) 21 27 64 39
Bamako	00 870 763041718	00 (223) 20 93 58
Bangui	00 870 763041722	00 (236) 61 33 80
Brazzaville	00 870 763041726	00 (242) 82 01 75
Cotonou	00 870 763041730	00 229 30 76 35
Dakar	00 870 763041734	00 (221) 820 07 05
Douala	00 870 763041738	00 237 342 77 34
Ivato	00 870 763041742	00 (261) 20 22 581 16
Libreville	00 870 763041746	00 (241) 73 21 04
Lomé	00 870 763041750	00 228 226 50 62
Malabo	00 870 763041754	00 240 9 22 01
N'Djamena	00 870 763041758	00 (235) 52 42 62
Niamey	00 870 763041762	00 (227) 73 35 86
Nouakchott	00 870 763041766	00 (222) 29 32 10
Ouagadougou	00 870 763041770	00 (226) 50 31 16 41

3. CONCLUSION

The meeting is invited to:

- note the realization rate for the ATS/DS circuits implemented in ASECNA area (under its full responsibility), which are a question of vital importance for the air navigation service
- Encourage States/organizations to pursue their efforts to carry out the implementation of the remaining ATS/DS circuits;
- Call for the appropriate ICAO Instruments to find the suitable methodology of measurement of the performances of ATS/DS

AFI ATS/DS PLAN IMPLEMENTATION STATUS IN ASECNA

COUNTRY	COM CENTER	REQUIRED CIRCUITS		IMPLEMENTED CIRCUITS		NON IMPLEMENTED CIRCUITS	BILATERAL IMPLEMENTED CIRCUITS		NEW CIRCUITS TO BE IMPLEMENTED	
BENIN	COTONOU	3	ACCRA - LAGOS - LOME		3	100%		2	NIAMEY- LOME	OUAGADOUGOU
BURKINA	OUAGA	6	ABIDJAN ACCRA BAMAKO BOBO NIAMEY NIAMTOUGOU		5	83%	NIAMTOUGOU			LOME-COTONOU
	BOBO	4	ABIDJAN ACCRA BAMAKO OUAGA		4	100%				
CAMEROUN	DOUALA	7	BATA BRAZZA KANO LAGOS LIBREVILLE MALABO NDJAMENA		7	100%		1	YAOUNDE	BANGUI
CENTRAFRIQUE	BANGUI	3	BRAZZA GBADOLITE NDJAMENA		2	67%	GBADOLITE			DOUALA
COMORES	MORONI	1	TANA		1	100%		4		DAR ES SALAM-BEIRA-DZAoudzi-SEYCHELLES
CONGO	BRAZZAVILLE	10	ACCRA BANGUI DOUALA KANO KHARTOUM KINSHASA LIBREVILLE LUANDA NDJAMENA SAO TOME		10	100%			-MALABO	BATA
COTE D'IVOIRE	ABIDJAN	7	ACCRA BAMAKO BOBO DAKAR NIAMEY OUAGA CONAKRY		7	100%		4	BISSAU-LUANDA-NOUAKCHOTT-BOUAKE	
GABON	LIBREVILLE	8	ACCRA BATA BRAZZA DOUALA KANO LAGOS MALABO SAO TOME		8	100%		2	MWENGUE- PORT GENTIL	
GUINEE EQUAT.	MALABO	3	BATA DOUALA LIBREVILLE		3	100%				
	BATA	3	DOUALA LIBREVILLE MALABO		3	100%				
GUINEE BISSAU	BISSAU	3	BANJUL CONAKRY DAKAR		3	100%		1	ABIDJAN	
MADAGASCAR	IVATO	8	BEIRA DAR ES SALAM DZAoudzi JOBURG PLAISANCE MORONI SAINT DENIS SEYCHELLES		8	100%		2	MAHAJANGA, TOAMASINA	
MALI	BAMAKO	7	ABIDJAN BOBO DAKAR GAO MOPTI OUAGADOUGOU ROBERTS		7	100%		2	NIAMEY-NOUKCHOTT	
	GAO	3	BAMAKO MOPTI NIAMEY		3	100%				
	MOPTI	2	GAO BAMAKO		2	100%				

MAURITANIE	NOUAKCHOTT	2	DAKAR NOUADHIBOU	2	100%		4	BAMAKO-ABIDJAN LAS PALMAS CASABLANCA ALGER	
	NOUADHIBOU	4	DAKAR LAS PALMAS NOUAKCHOTT DAKHLA	3	75%	DAKHLA			
NIGER	NIAMEY	9	ABIDJAN ACCRA ALGER DAKAR GAO KANO NDJAMENA OUAGA TRIPOLI	9	100%		3	BAMAKO ZINDER	LAGOS LOME-COTONOU-OUAGA
SENEGAL	DAKAR	15	ABIDJAN ALGER BAMAKO BANJUL BISSAU CASA ROBERTSFIELD FREETOWN LAS PALMAS NIAMEY NOUADHIBOU NOUAKCHOTT SAL RECIFE ROCHAMBEAU	13	86%	ROCHAMBEAU	1	LUANDA	
TCHAD	NDJAMENA	9	BANGUI BRAZZA DOUALA GAROUA KANO KHARTOUM MAIDUGURI NIAMEY TRIPOLI	9	100%		2	ALGER- SAHR	
TOGO	LOME	3	ACCRA COTONOU NIAMTOUGOU	3	100%				OUAGADOUGOU-NIAMEY
	NIAMTOUGOU	3	ACCRA LOME OUAGADOUGOU	2	67%	OUAGADOUGOU			
TOTAL		124		118	95%		28		