



International Civil Aviation Organization

**AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP
SIXTEENTH MEETING (APIRG/16)
(Kigali, Rwanda 19-23 November 2007)**

Agenda Item 4.0: AFI Regional Air Navigation Planning and Implementation Issues

4.2 : Communication, Navigation, Surveillance

Aeronautical Fixed Service status in ASECNA: ATS/DS circuits achievement and status

(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 concerned circuit, it proposes solutions to overcome them.

(See called actions to be taken by APIRG is in paragraph 3)

1. Introduction

1.1 The elimination of the shortcomings and deficiencies in the field of aeronautical telecommunications in AFI Region and in particular that dealing with the ATS/DS links, became an essential challenge for the implementation of the area control service, specified in APIRG/13 conclusion 13/31

1.2 In this context, the effective implementation of the ATS/DS circuits, can be done only in a co-operative/proactive approach and by the adequate use of the existing and reliable links.

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

2. Discussion

□ Implementation of ATS/DS circuits

The AFI map , below shows the planned ATS/DS circuits reviewed by APIRG 15 (Doc:7474 FASID).

Table1 points out that on 123 required circuits in ASECNA area, 102 are implemented for a realization rate of about 83%.

Table1 : ATS/DS circuits implementation status

COUNTRY	COM CENTRE	EQUIRE D CIRCUITS	OMPLEMEN TED CIRCUITS E	IMPLEMENTA TION RATE %	MISSING CIRCUITS
BENIN	COTONOU	3	3	100%	
BURKINA	OUAGA	6	5	83%	NIAMTOUGOU
	BOBO	4	4	100%	
CAMEROUN	DOUALA	7	7	100%	
	GAROUA	1	1	100%	
CENTRAFRI QUE	BANGUI	3	2	67%	GBADOLITE
CONGO	BRAZZAVIL LE	10	8	70%	KHARTOUM, LUANDA
COTE D'IVOIRE	ABIDJAN	7	7	100%	
GABON	LIBREVILLE	8	7	75%	BATA
BISSAU GUINEE	BISSAU	3	2	66%	BANJUL
EQUAT. GUINEE	MALABO	3	3	100%	
	BATA	3	2	33%	LIBREVILLE
MADAGASC AR	IVATO	8	7	88%	SEYCHELLES
MALI	BAMAKO	7	6	86%	MOPTI
	GAO	3	2	67%	MOPTI
	MOPTI	2	0	0%	GAO, BAMAKO
MAURITANI A	NOUAKCHO TT	2	2	100%	
	NOUADHIB OU	4	2	50%	DAKHLA, LAS PALMAS
NIGER	NIAMEY	9	8	89%	TRIPOLI
SENEGAL	DAKAR	15	14	93%	ROCHAMBO
CHAD	NDJAMENA	9	7	78%	KHARTOUM, TRIPOLI
TOGO	LOME	3	3	100%	
	NIAMTOUG OU	3	2	67%	OUAGA

123	102	82%
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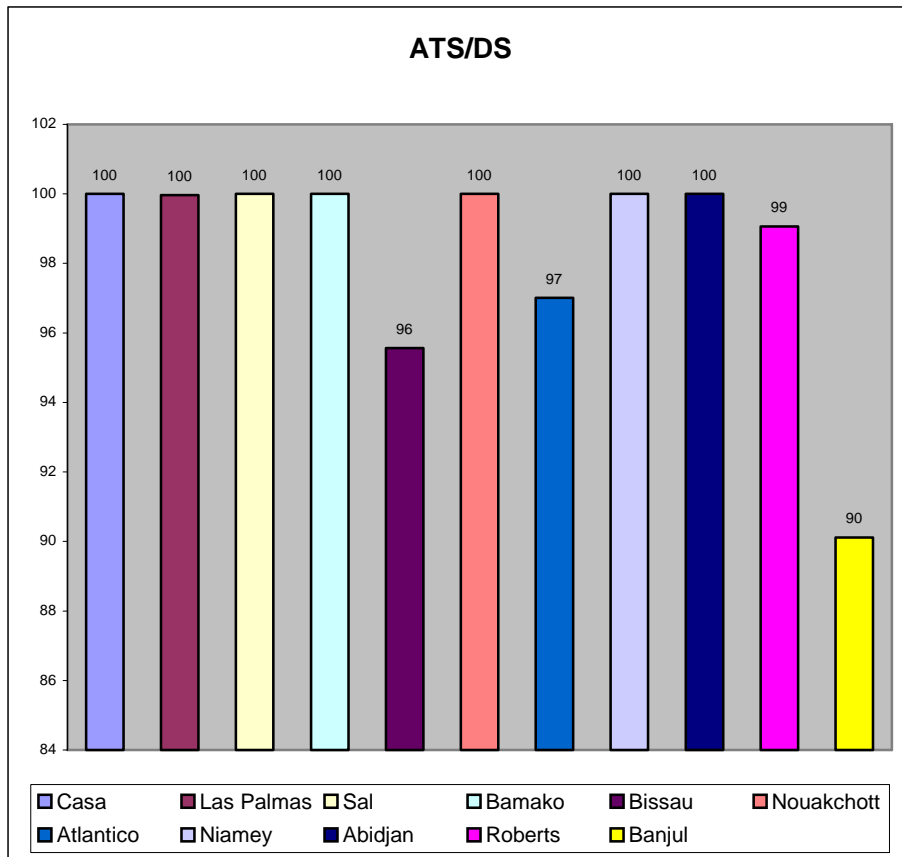
Inside ASECNA Area some non implemented circuits (regarding, Bata, Mopti) will be sooner achieved before the end of year 2007 (equipments are already purchased).

□ **ATS/DS circuits Performances**

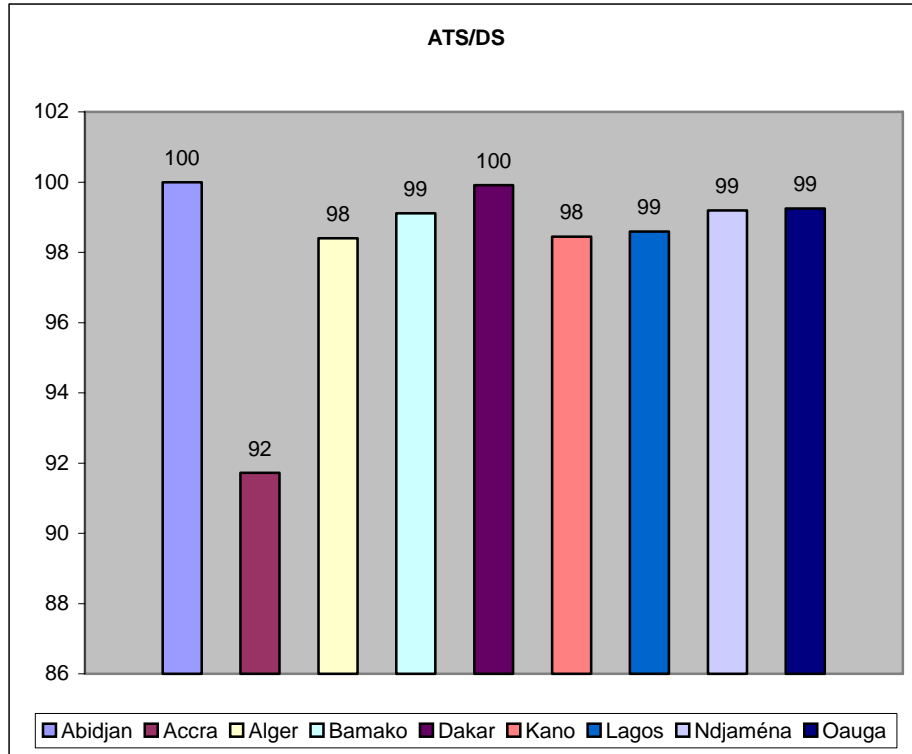
ATS/DS circuits performances evaluation **does not follow any standardization.**

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

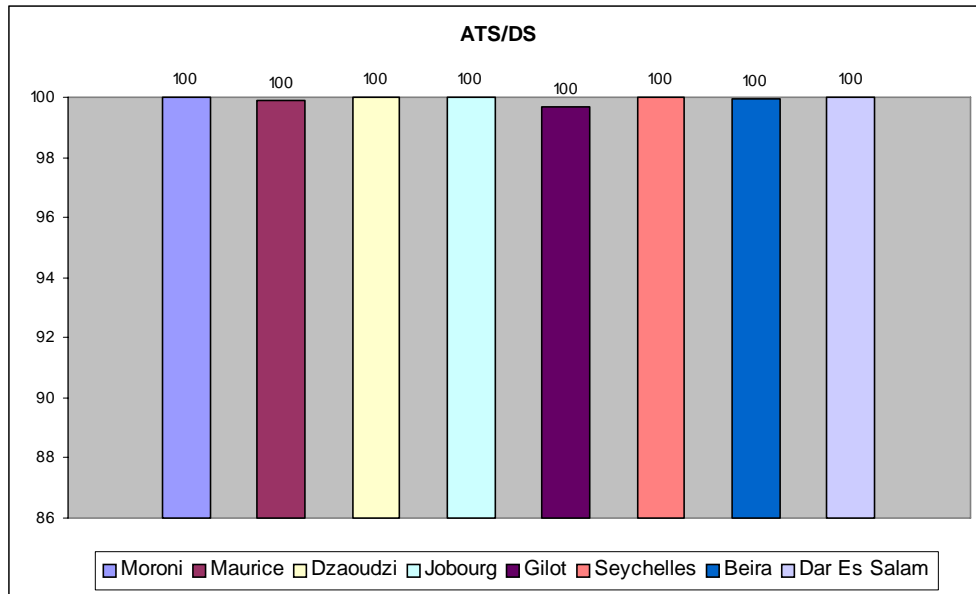
ATS/DS-AFISNET & CAFSAT Evaluation for Dakar (year 2006)



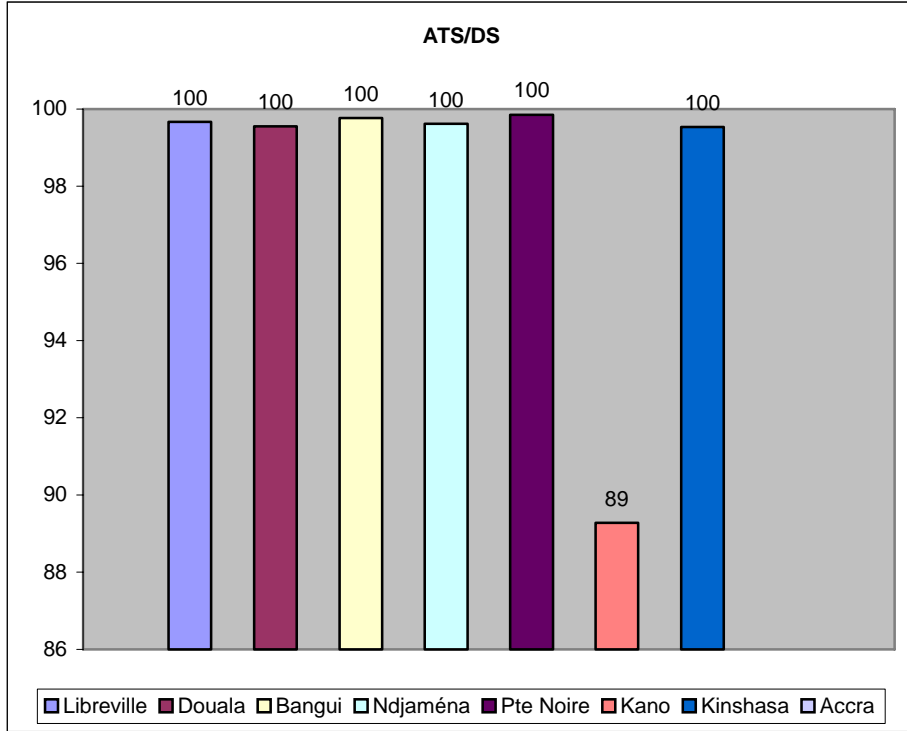
ATS/DS-AFISNET Evaluation for Niamey (year 2006)



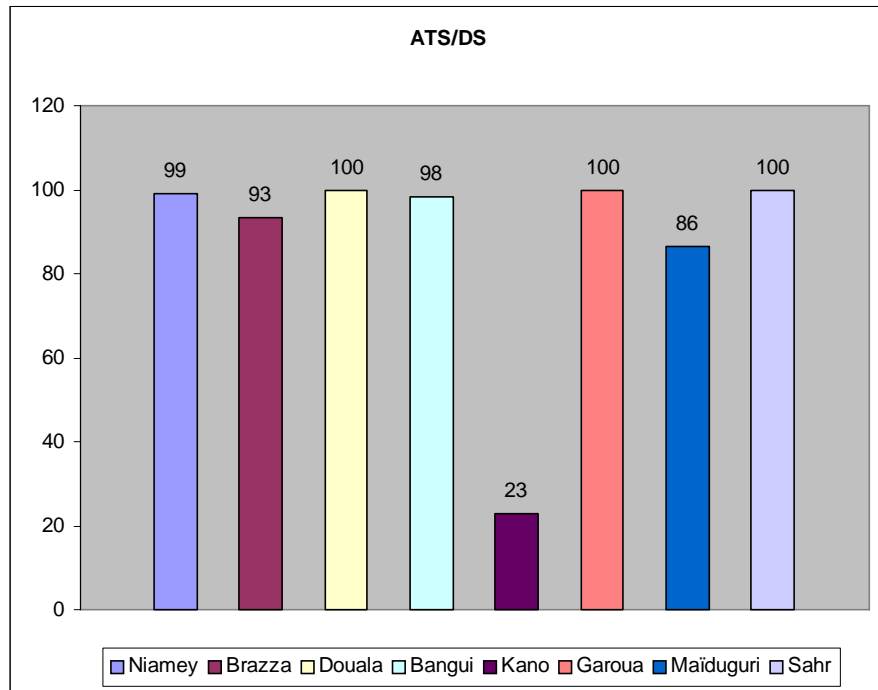
ATS/DS-AFISNET & SADC 1 Evaluation for Antananarivo (year 2006)



ATS/DS-AFISNET Evaluation for Brazzaville (year 2006)



ATS/DS-AFISNET Evaluation for N'Djamena (year 2006)



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;

INMARSAT and PSTN Numbers in ASECNA CENTRES

Centre	Numéro de la Valise	Numéro PTT du CCR/CIV/TWR
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 870763041762	00 (227) 73 35 86
Nouakchott	00 870 763041766	00 (222) 29 32 10
Ouagadougou	00 870 763041770	00 (226) 50 31 16 41

□ **ATS/DS on going projects**

ASECNA has planed to achieve missing ATS/DS Circuits .

The project consists on :

- Implementing the missing planed circuit in a joint collaborative approach with other ANSP through AFISNET interconnexion with new COM centres (*Bissau, Banjul & Sao-Tomé, Algiers*);
- Interconnecting AFISNET with existing CAFSAT network (*Nouakchott Las Palmas, Nouakchott Casablanca, Nouadhibou-Las Palmas*) and with coming NAFISAT/SADC2 network (*Brazzaville-Khartoum, Brazzaville-Luanda, Niamey-Tripoli, N'Djamena-Khartoum, N'Djamena-Tripoi, Abidjan-Luanda, Dakar-Luanda*);

3. Action by APIRG:

3.1 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 in the others side regarding the circuits not yet implemented to carry out their implementation

- Clear out the current deficiencies;
- *Set up a technical and operational method for a properly ATS/DS statistic monitoring.*