



**INTERNATIONAL CIVIL AVIATION ORGANIZATION  
WESTERN AND CENTRAL AFRICAN OFFICE**

**Fifteenth Meeting on the Improvement of Air Traffic Services over the  
South Atlantic (SAT 15)  
(Lisbon, Portugal, 19-21 May 2010)**

**Agenda item 2: Communications, Navigation, Surveillance (CNS)**

**2.2 Review of AFS Performance**

*(Presented by the Secretariat)*

**SUMMARY**

The WP presents to the meeting the performance of the Aeronautical Fixed Service in the SAT area.

**REFER:** Reports SAT14, SAT14/TF1Meetings  
APIRG 16 Report  
RAN/AFI SP Report  
DOC. 7474 (Rec. LIM/AFI; RAN/AFI7;  
RAN/AFI/6)

**Action By the Meeting:** See paragraph 3

**1. Introduction**

1.1 The Aeronautical Fixed Service (ATS/DS, AFTN) in SAT is supported by the CAFSAT Network which is a trans-regional network comprising the AFI, EUR and SAM areas. The AFS performance is related to the performance of this Network. Since its implementation, it has been solving the gaps previously noted and it remains a support available for the implementation of CNS/ATM systems and in particular for the ground components of the ATN (AMHS, Surveillance data Exchange...).

**2. Discussion**

**2.1 Performance of AFS on CAFSAT network**

The AFS data collection on CAFSAT here presented is based on the data transmitted by some States and does not cover all the links of the Network. However the portion here considered can be representative of the network main circuit's performance.

**2.1.1 ATS/DS**

The diagrams of availability of the main ATS/DS circuits are presented in **Appendix A**. It can be noted that service availability is satisfactory in general, except on the Dakar/Sal circuit which experienced disturbances during nearly two (02) months at the end of year 2009.

**2.1.2 AFTN**

For the AFTN the behavior of the network is satisfactory except for the Dakar/Las Palmas and Dakar Johannesburg circuits which faced light disturbances.

### 2.1.3 AFS Performance Data collection process

As stated in 2.1, it should be noted that, in spite of recommendation **9/4 of RAN AFI/7** (*Performances of AFTN circuits*) and decision **16 /12 of APIRG/16** (*Follow up of the performances of the Aeronautical Fixed Service*), some States still do not submit the necessary information in due time. It is expected that the forthcoming CAFSAT Management Committee will offer an opportunity to find the suitable way to build a consolidated process for AFS statistics Data collection and analysis.

### 3. Actions by the meeting

3.1 The meeting is invited to:

- a) Note the information provided in the present WP; and encourage CAFSAT nodes countries to:
- b) Maintain and consolidated AFS Performance on CAFSAT
- c) Reinforce the mechanisms of interregional co-operation (EUR/SAM/AFI) in the AFS performance statistics Data collection and analysis

.... END ....

## Appendix A

### Year 2009 Availability of ATS/DS circuits on Dakar COM Center

Link	Support	Rate	January	February	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Min	Max	Aver.
CASA	CAFSAT	8kbits/s	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
LAS-PALMAS	CAFSAT	8kbits/s	100	100	99	100	100	77	98	100	90	100	100	100	77	100	97
SAL	CAFSAT	8kbits/s	100	100	100	100	100	100	99	100	100	100	100	100	99	100	100
JOBURG	CAFSAT	8kbits/s	99	100	100	100	100	98	99	73	99	100	100	100	73	100	97
RIO	CAFSAT	8kbits/s	100	100	100	100	100	100	100	96	98	100	100	100	96	100	99

## Appendix B

### Year 2009 Availability of AFTN circuits on Dakar COM Center

Link	Support	Rate	January	February	March	April	May	June	July	August	Sept	Oct	Nov	Dec	Min	Max	Aver.	
LAS-PALMAS	CAFSAT	9.6kbits/s	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
SAL	CAFSAT	9.6kbits/s	100	100	100	100	100	100	100	100	5,35	3,9	100	100	3,9	100	94	
RIO	CAFSAT	9.6kbits/s	100	100	100	100	100	100	100	96	98	100	100	100	96	100	99	