



INTERNATIONAL CIVIL AVIATION ORGANIZATION  
WESTERN AND CENTRAL AFRICA OFFICE  
Third Meeting of the Central Atlantic FIR Satellite Network (CAFSAT)  
Management Committee (CNMC/3)  
(Bu, Senegal, 15-16 July 2013)

## Agenda Item 2: Review the performance of CAFSAT earth stations and the operational statistics of Availability for supported links

(Presented by ASECNA)

### Summary

This working paper reports the 2013 and 2014 performances of the aeronautical fixed services supported by CAFSAT in ASECNA area as well as the performances of the nodes.

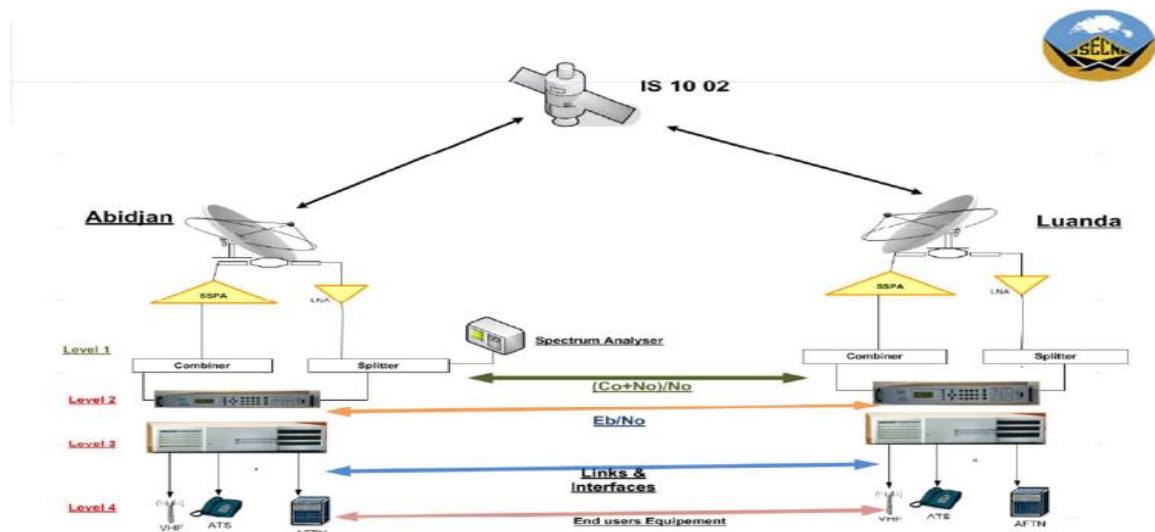
### 1. Introduction

The CAFSAT network has been designed and implemented since 2000 with the goal to support the provision air navigation services in the SAT region. Two nodes were implemented in ASECNA area, in Dakar (in 2000) and in Nouakchott (in 2007) and contribute to the safe operation of the air navigation services in the SAT region.

This working paper reports the 2013 & 2014 performances for the aeronautical fixed services regarding the links between these centers and the involved correspondent CAFSAT centers as well as the performances of the nodes.

### 2. Discussion

#### 2.1 Performance of Dakar and Nouakchott CAFSAT nodes



From 2013 to 2014, the CAFSAT nodes of Dakar and Nouakchott performed quite well. With the re-engineering of Dakar node and Nouakchott nodes, the monitoring system has been restored.

The operational statistics are provided below:

## 2.2 Performance of AFS

The availability diagram regarding AFTN circuits for Nouakchott and Dakar centers are presented in Appendix A. Globally, from 2013 to 2014, the AFS circuits operated satisfactory and met performance required by ICAO (97% availability)

However:

- In the process of re-engineering of Johannesburg CAFSAT node, the AFTN link recorded a long period of failure from October 2013 to May 2014;
- The Casablanca/Nouakchott AFTN link is unavailable since January 2014 due to technical problems.

Unless the circuit Casablanca/Nouakchott, the availability ATS/DS circuits for Nouakchott and Dakar centers are presented in Appendix B which records a good availability for 2013 & 2014. .

## 3. Action by THE MEETING

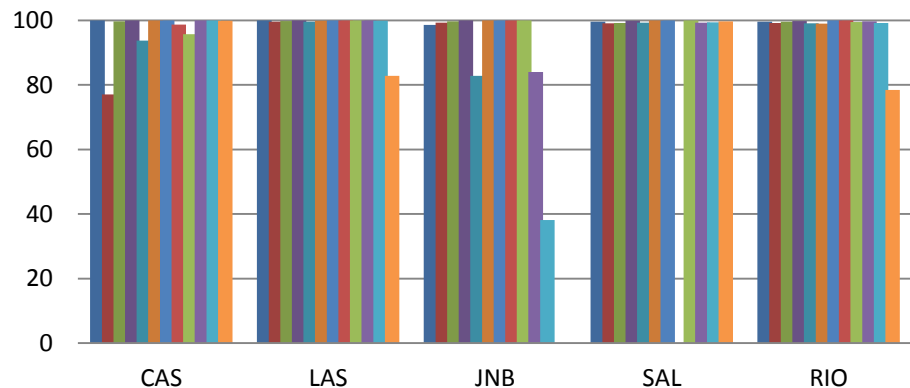
3.1 The meeting is invited to:

- a) Note the information provided in the Working Paper;
- b) recommend appropriate coordination between the CAFSAT centers including exchange of personal and experience sharing in the network maintenance, in order to continue to insure the availability of the aeronautical telecommunication services.

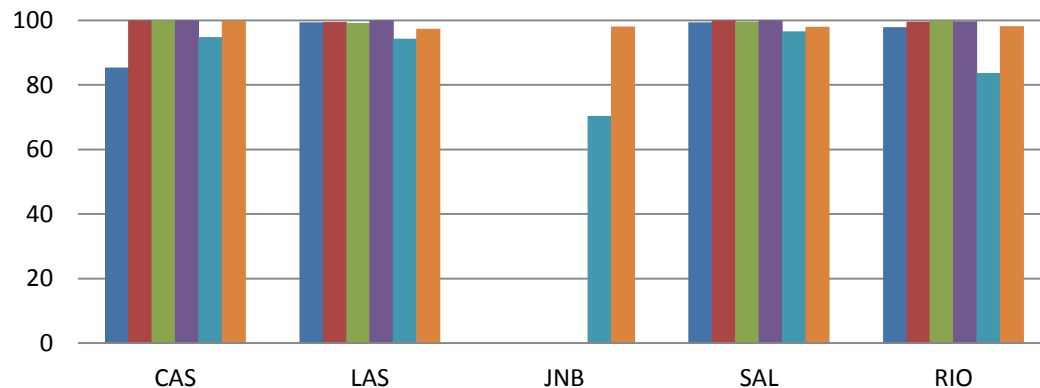
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**Years 2013/2014 Availability of AFTN Circuits on Dakar and Nouakchott COM Centres**

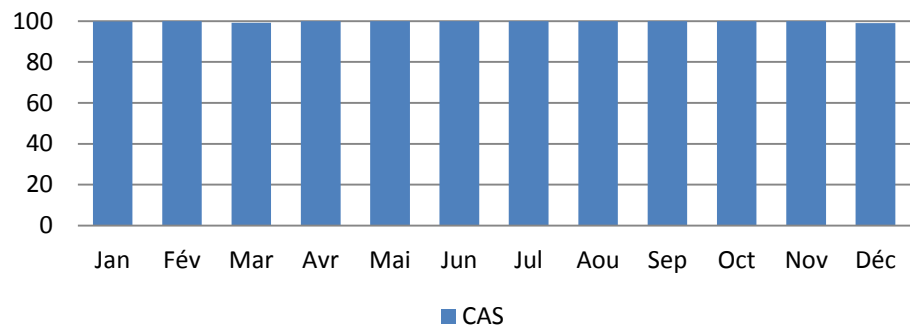
**Dakar centre  
year 2013 AFTN circuits availability**



**Dakar centre  
year 2014 AFTN circuits availability**



**Nouakchott Centre  
Year 2013 AFTN circuit availability**



**Nouakchott Centre  
Year 2014 AFTN circuit availability**

