



INTERNATIONAL CIVIL AVIATION ORGANIZATION  
WESTERN AND CENTRAL AFRICA OFFICE  
Second Meeting of the Central Atlantic FIR Satellite Network (CAFSAT)  
Management Committee (CNMC/2)  
(Dakar, Senegal, 06-08 November 2012)

## 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 2011 and 2012 performances of the aeronautical fixed services supported by CAFSAT in ASECNA area as well as the performances of the nodes.

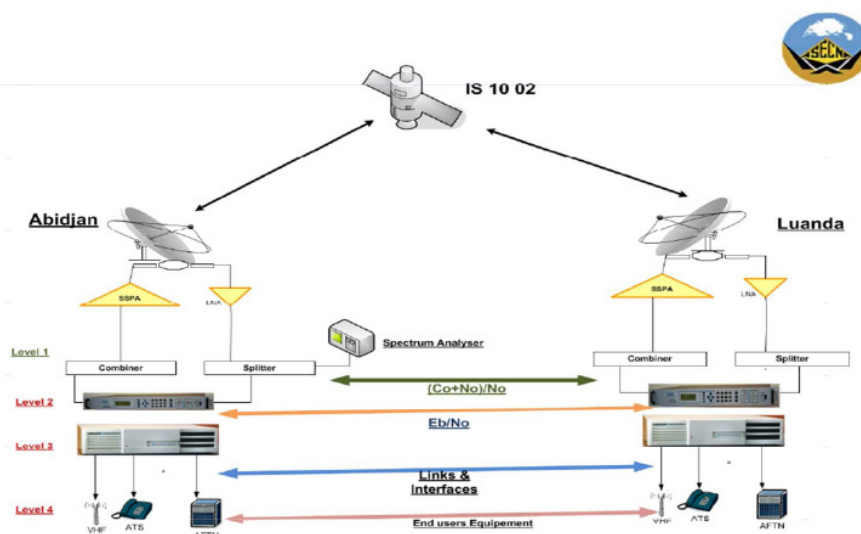
### 1. Introduction

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 are 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 2011 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 2011 to 2012, the CAFSAT nodes of Dakar and Nouakchott performed well. However, since some years, the monitoring system of Dakar node is out of service and will be restored with the re-engineering of the node

## 2.2 Performance of AFS

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Globally, from 2011 to 2012, the circuits operated satisfactory and met the minimum performance required by ICAO (97% availability). However from time to time some failures are recorded most of the time due to end users systems (AFTN switches or VCCS) and coordination between of the centers overcome to the dysfunctions

The diagrams availability regarding AFTN and ATS/DS circuits for year 2011 and Nouakchott and Dakar centers are presented in Appendix A. It can be noted that service performed satisfactory in general. A temporary failure at the switch level affected the availability in September 2011 in Nouakchott.

For the year 2012, the performances of the AFS are provided in appendix B and recorded a good availability of the AFS. However the following comments:

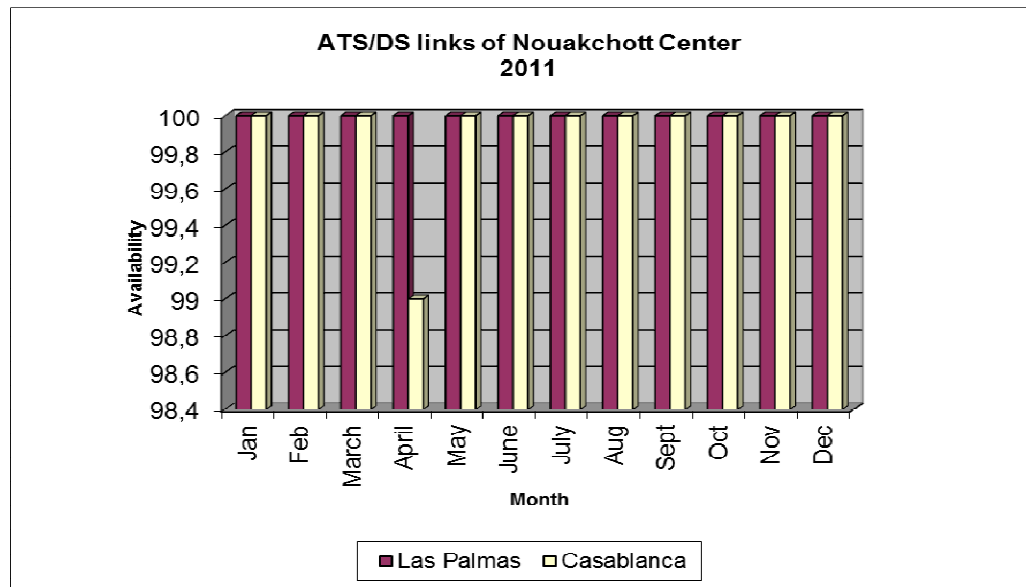
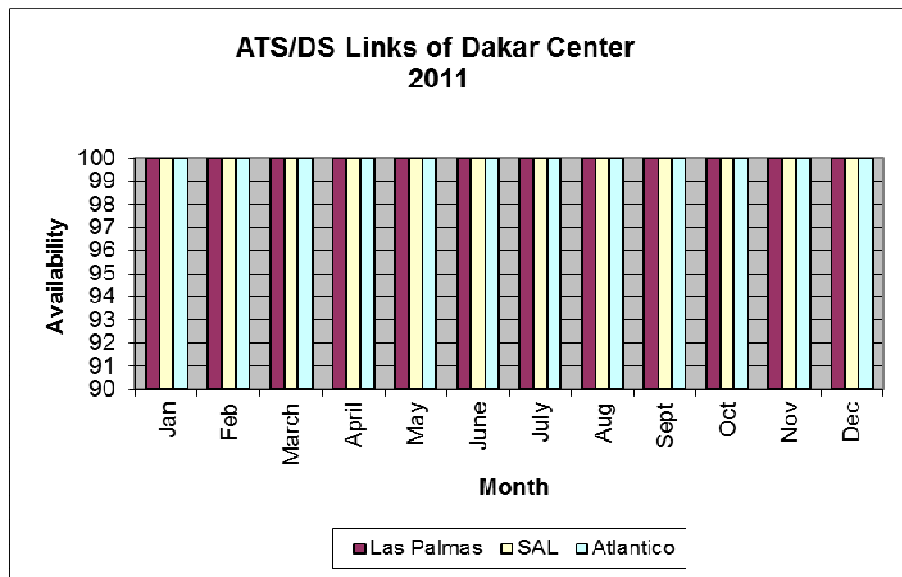
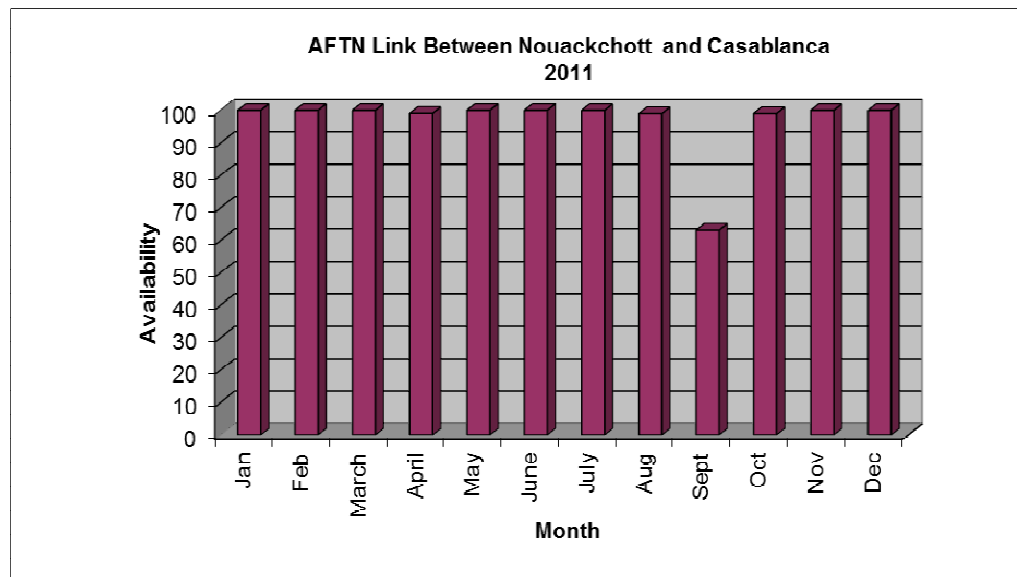
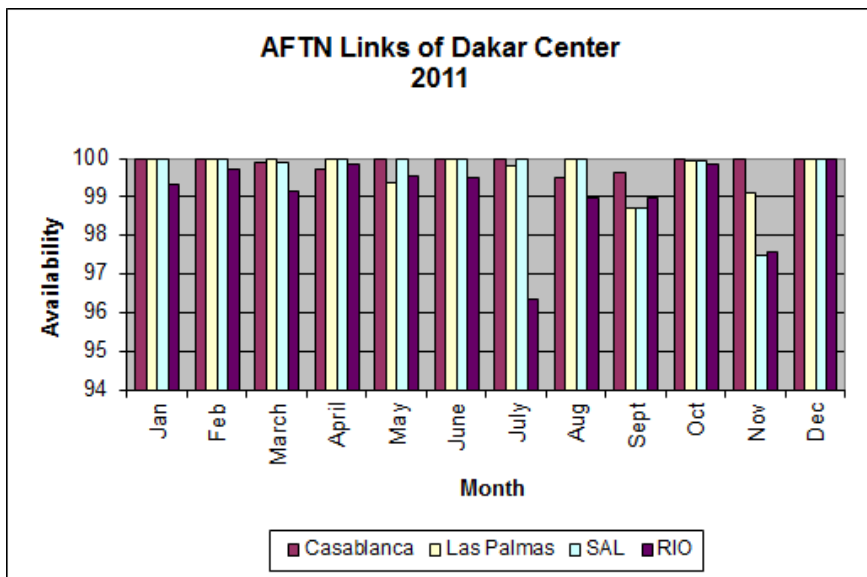
- A slight instability from April to August on the ATS/DS circuit between Sal and Dakar due to end users equipment;
- a failure on the AFTN link with Madrid(Las Palmas) affected slightly the availability

## 3. Action by THE MEETING

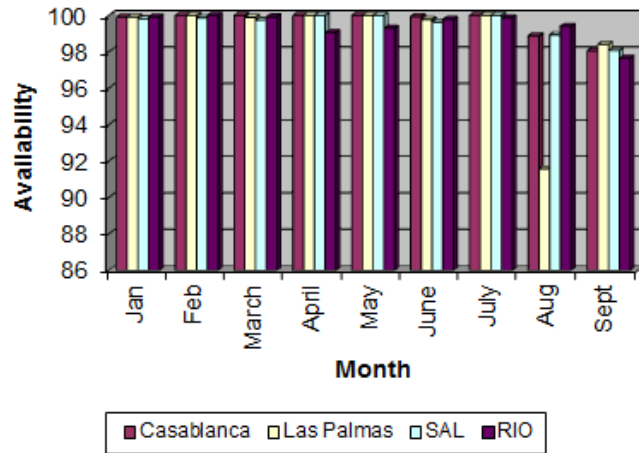
3.1 The meeting is invited to:

- a) Note the information provided in the Working Paper;
- b) Encourage the coordination between the CAFSAT centers including exchange of personal and experience sharing in the network maintenance, in order to improve the availability of the network.

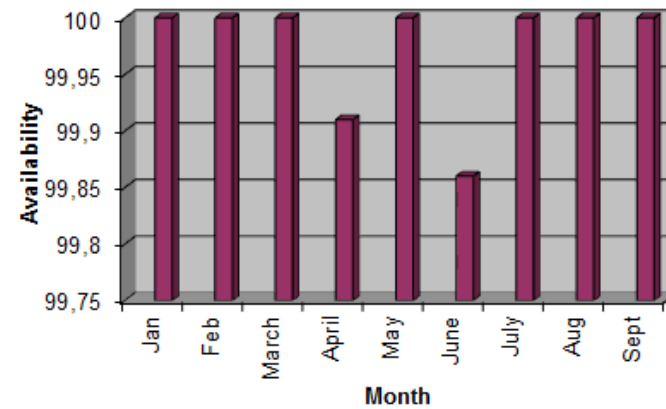
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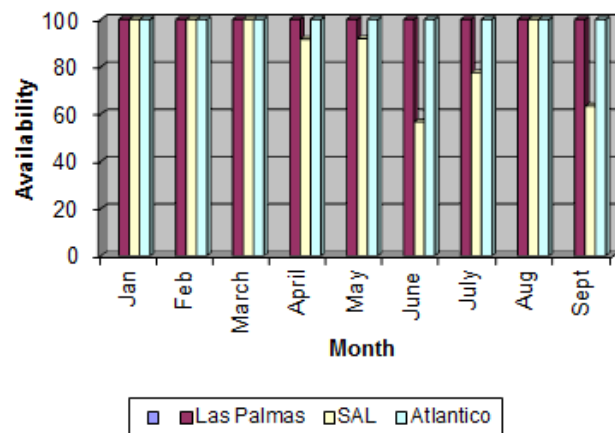
**AFTN Links of Dakar Centre  
(Jan - Sept 2012)**



**AFTN Link Nouakchott - Casablanca  
(Jan - Sept 2012)**



**ATS/DS Links of Dakar Center  
(Jan- Sept 2012)**



**ATS/DS Links of Nouakchott center  
(Jan - Sept 2012)**

