



## SEVENTEENTH MEETING ON THE IMPROVEMENT OF AIR TRAFFIC SERVICES OVER THE SOUTH ATLANTIC

(Gran Canaria, Spain, 18-20 April 2012)

**Agenda Item 3: Communications, navigation, surveillance (CNS)**

### CAFSAT Network Reengineering

(Presented by Spain)

#### SUMMARY

This paper presents the roadmap for the necessary evolution of CAFSAT Stations equipment following the annexed document “CNMC technical study for CAFSAT evolution”

#### 1. INTRODUCTION

The **First Meeting of the Central Atlantic FIRs Satellite (CAFSAT) Network Management Committee (CNMC/1)** followed the target to conduct the modernization of the Network and develop if necessary a roadmap for a harmonized modernization and re-engineering exercise.

During this meeting it was agreed that...”in order to harmonize the re-engineering exercise in the framework of CNM Terms of Reference , it should be advisable to develop a roadmap of the Network modernization and re-engineering taking into consideration the current requirement of the existing operational application and the future requirement of the new application”. So, conclusion SAT/16/20: Development of a Roadmap for CAFSAT joint technical evaluation and Re-engineering was established

*That in accordance with ICAO guidance materials (Annex X, Vol 1, Attachment F: Guidance material concerning reliability and availability of radio communications and navigation aids; ICAO Guidelines on Performance of Very Small Aperture Terminal (VSAT) Networks) CNMC member states develop a Roadmap for a Joint Technical Evaluation and re-engineering in the view of ensuring an efficient and optimized modernization of CAFSAT Network taking into consideration:*

- a) Required service performance level of the network to support the operation and development of sensitive current and forthcoming CNS/ATM components;*
- b) CAFSAT interoperability with its neighboring networks;*
- c) Maintenance fundamental parameters governing service availability, continuity and integrity such as: reliability, turn over statistics, maintenance personnel expertise;*
- d) Cost-effectiveness;*

## 2. DISCUSSION

As a deeper and further analysis about equipment and functionalities for CAFSAT Network reengineering (based in the annexed document) has been derived to CNMC meeting, the only purpose of this SAT Technical group should be to approve both the document as the Reference Working Document for CNMS, and an initial schedule

### ROADMAP FOR CAFSAT REENGINEERING

	Roadmap Date	Item	Responsible
1	3 <sup>rd</sup> quarter 2012	Meeting of CNMC group – Reference Document	ICAO meeting invitation
2	4 <sup>th</sup> quarter 2012	States internal analysis and presentation of draft implementation schedule	CAFSAT States
3	1 <sup>st</sup> quarter 2013	Global implementation plan schedule and tasks	ICAO/CNMC Rappertour
4	2 <sup>nd</sup> quarter 2013	Migration/Reconfiguration Start	CAFSAT States

#### 1. Meeting of CNMC group – Reference Document

In that meeting the CNMC should study the document point by point and link by link establishing the best technical configuration for the Network in any case. All Technical issues should be debated in that meeting between States experts on the matters

#### 2. States internal analysis and presentation of draft implementation schedule

Each State will analyse internally the best way to accomplish with schedule and requirements approved in the CNMC meeting and will send ICAO/CNMC Rappertour a report regarding the State status to accomplish the general schedule

#### 3. Global implementation plan schedule and tasks

Taking into account the inputs from all States (reports) ICAO and CNMC Rappertour will agree on a final roadmap that will include all CAFSAT Nodes new design, equipment an configuration. A final draft will be send to all Sates for approval.

#### 4. Migration/Reconfiguration Start

Following the approved plan schedule the installation/implementation will start. A CNMC meeting previous to this point would be desired

## 3. ACTION BY THE MEETING

### 3.1 The SAT/17 Meeting is invited to:

- a) Take note of the information provided in this WP
- b) Approve the Annexed document and the proposed roadmap for CAFSAT Network Reengineering.