



INTERNATIONAL CIVIL AVIATION ORGANIZATION
WESTERN AND CENTRAL AFRICAN OFFICE
Nineteenth Meeting of the AFI Satellite Network Management Committee
(SNMC/19)
(Accra, Ghana 14-18 November 2011)

Agenda Item 8: AFISNET integration with other AFI regional networks (CAFSAT, NAFISAT, SADC/2): Report on CNMC first meeting

(Presented by the Secretariat)

SUMMARY

The purpose of this paper is to inform the meeting on the activities of the CAFSAT Network Management Committee (CNMC).

Reference:

Report on CNMC 1st meeting

Report on SAT/16 meeting

Action by the meeting in paragraph 3

1. Introduction

1.1 The First Meeting of the CAFSAT Network Management Committee (CNMC/1) was held at the Park Hotel in Recife, Brazil, on 02 May 2011, at the kind invitation of the Departamento de Control del Espacio Aéreo (DECEA) of Brazil.

1.2 The meeting was attended by twenty nine (29) participants from nine (09) States (Angola, Brazil, Cape Verde, Cote d'Ivoire, Portugal, Senegal, South Africa, Spain, Uruguay), two (02) Air navigation Service Providers, namely ASECNA and ATNS, one international organization (ARINC) and a Communication Integrator Company INSA (Spain).

1.3 The objective of the meeting was to coordinate methodologies and best practices aiming to enhancing the CAFSAT network performance and to ensure a cost effective provision of reliable Telecommunications Service for Air Navigation in the SAT region in support to ATM objective.

2. Discussion

2.1 The CNMC/1 Meeting among other things, mainly reviewed the Terms of Reference of the Committee as adopted by the SAT/15 meeting, analyzed CAFSAT earth stations performance and operational statistics of availability for supported links and adopted a principle for the representation of CAFSAT members States to the AFI VSAT Managers meetings in line with Conclusion 6/19 of SP AFI/RAN.

CNMC/1 also proposed a roadmap for CAFSAT Network modernization and re-engineering and its interconnection with other neighboring Networks with Spain as Team Leader.

2.2 After deliberation on its agenda items the meeting adopted three (03) Decisions and six (06) Conclusions amongst which:

Conclusion 1/02: *Development of CAFSAT Earth Stations Performance Data Collection Form (PDCF) and Decision 1/02:* *Utilization of provisional templates for the collection of the Performance data statistic of CAFSAT nodes* **Decision 1/03:** *Representation of CAFSAT members states to the AFI VSAT Managers meetings* and **Conclusion 1/04:** *Participation in the first AFI VSAT Managers Meeting Durban, South Africa, 13-15 June 2011* established a link between AFISNET and CASAT monitoring operation and maintenance models as well as committed CAFSAT members States to participate in the coordinating management activities on VSAT Networks within the Region.

The list of conclusions and decisions are presented in **Appendix** while the entire report can be downloaded from: http://www.lima.icao.int/MeetProg/mt_MeetingDocumentation.asp

3. Action Required

The meeting is invited to:

- a) Take note of the information given above
- b) Encourage SNMC members states/Administration to actively participate in CNMC upcoming activities

APPENDIX

SUMMARY OF CONCLUSIONS OF THE FIRST MEETING OF CAFSAT NETWORK MANAGEMENT COMMITTEE (CNMC/1 Recife, Brazil, 02 May 2011)

Agenda Item 1: Review of CNMC Terms of Reference

Draft Conclusion 1/01: Active participation in CNMC meetings by CNMC members

That:

CNMC Members should endeavour to actively:

- a) participate in CNMC regular meetings and technical specialized Task Forces /Study Groups and therefore,
- b) provide the suitable support to their nominated delegates in accordance with the commitment they have taken under the Terms of Reference and Work Programme of CNMC.

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

Draft Conclusion 1/02: Development of CAFSAT Earth Stations Performance Data Collection Form (PDCF)

That:

In accordance with ICAO guidelines on Performance of Very Small Aperture Terminals (VSAT), ASECNA and GHANA, already tasked by SNMC Conclusion 18/ 02 for the matter, develop and submit to next CNMC meeting, a draft Earth Stations Performance Data Collection Form (PDCF) aiming to facilitating the future automation of the collection and the monitoring of CAFSAT stations performance data, taking into consideration the most sensitive components of the network.

Draft Decision 1/02: Utilization of provisional templates for the collection of the Performance data statistic of CAFSAT nodes

That:

Meanwhile the complete development of the PDCF for the automation of the monitoring of the Network Performance, CAFSAT members adopt the templates attached in Appendix C and report quarterly to the current CNMC manager with copy to ICAO Regional Offices of Dakar and Lima.

Agenda Item 3: Review/Updating of CAFSAT nodes

Draft Conclusion 1/03: Updating CAFSAT Nodes

That:

When collecting their performance data, the CAFSAT members take the opportunity to update the location of CAFSAT nodes coordinates (LONG, LAT) under WGS 84 format in order to feed the future data base and facilitate the study of future migration, if necessary, of the network on a new satellite.

Agenda Item 4: Implementation of Special AFI RAN meeting recommendations 6/19

Draft Decision 1/02: Representation of CAFSAT members states to the AFI VSAT Managers meetings

That:

CNMC members States/Organization participate in the AFI VSAT Managers meeting called for by Conclusion 6/19 of the SP AFI RAN meeting on the basis of representative (s) from each CNMC members Sate/Organization as stipulated by the Terms of Reference of CNMC.

Draft Conclusion 1/04: Participation in the first AFI VSAT Managers Meeting Durban, South Africa, 13-15 June 2011.

That:

- a) CNMC members should endeavor to attend or send Working and/or Information papers to the first meeting of AFI VSAT Managers, scheduled to be held in Durban, South Africa from 13 to 15 June 2011;
- b) Administration/Organization should nominate their representatives with suitable provisions aiming to effectively participate in the meeting;
- c) Nominated CNMC delegates ensuring that the forthcoming VSAT Managers meetings consider the CNMC expectations and conclusion raised up by the first CNMC meeting.

Agenda Item 5: CAFSAT modernization and re-engineering

Draft Conclusion 1/05: Development of a Roadmap for CAFSAT joint technical evaluation and re-engineering

That:

In accordance with ICAO guidance materials (Annex X, Vol 1, Attachment F: Guidance material concerning reliability and availability of radiocommunications 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;

Draft Decision 1/03: Establishment of a Joint Technical Team for CAFSAT Network evaluation and re-engineering

That:

A Joint Technical Team for CAFSAT network evaluation and re-engineering (JTT) is established with Term of Reference and Work Programme presented in Appendix D.