



INTERNATIONAL CIVIL AVIATION ORGANIZATION
WESTERN AND CENTRAL AFRICA OFFICE

Nineteenth Meeting of the AFI Satellite Network Management Committee (SNMC/18)
(Accra, Ghana, 14-18 November 2011)

Agenda Item 6: AFISNET band width re-engineering;

(Presented by the secretariat)

SUMMARY

The purpose of this paper is to review and analyze the IBS leased satellite bandwidth management and in particular the conversion of the old IBS band in order to ensure a best cost effective and a more flexibility of usage.

Reference Report of SNMC 17 & 18 Meetings

1. Introduction

The first nodes of AFISNET were implemented by using the INTELSAT Business System (IBS) techniques coupled with SCPC 64kbit/s carriers. These carriers were some time split into two carriers of 32kbits/s to ensure links from one site to two different sites. The system has been working well for years.

2. Discussion

2.1 To ensure the continuity of AFS, the obsolete base band components have been gradually replaced by other modems in the framework of coordinated arrangements between ASECNA, NAMA and Ghana.

Furthermore, the new nodes basically use SCPC either 19.2kbits/s or 32Kbits/s carriers to support the AFS while using 64kbits/s for Aeronautical Mobile Service. Moreover; the AFISNET/NAFISAT-SADC2 interconnection exercise uses the same principle.

The mayor part of the spectrum allocated to the IBS system is currently unused.

Taking into account the evolution of VSAT technology the contract for this band should be renegotiated to ensure more flexible usage.

Thus, related to IBS carriers' bandwidth conversion, SNMC/17 meeting took *Conclusion 17/10* which can be read as follow:

“That States/Organizations coordinate to lease with INTELSAT for the conversion of IBS initial bandwidth into lease band to be affected to each SNMC member according to its quota part.”

This Conclusion had not been implemented till SNMC18 and States/Organizations are always charged on unused IBS carriers while operating lease band. Therefore SNMC/18 agreed on Conclusion 18/13 as follow:

Conclusion 18/13: Conversion of IBS Band to leased band

That:

States/organizations pursue and complete the implementation of conclusion of SNMC17/10 by adopting the following process:

- a) IBS carrier status of stations be forwarded to ASECNA for compilation and transmission to INTELSAT; and*
- b) A Technical/financial meeting should be held by SNMC members with INTELSAT to ensure the conversion of IBS band to a leased band.*

It should therefore be advisable to develop the suitable arrangements to clear out this situation by the implementation of the above conclusions.

3. Action by the meeting

The meeting is invited to:

- a) Take note of the information here given above
- b) Develop a customer requirements to be submitted to the satellite Service Provider INTELSAT based on the result of the Joint Technical Evaluation and re-engineering assessment of AFISNET, and;
- c) Schedule the IBS to leased band conversion with INTELSAT and complete the implementation of conclusion 17/10 and 18/13 of respective APIRG/17 and 18 meetings.
