



**INTERNATIONAL CIVIL AVIATION ORGANIZATION**  
**WESTERN AND CENTRAL AFRICAN OFFICE**  
**Eighteenth Meeting of the AFI Satellite Network Management Committee**  
**(SNMC/18)**  
**(Ouagadougou, Burkina Faso, 1-4 June 2010)**

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**Agenda Item 8: 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 Meeting

**1. Introduction**

The first nodes of AFISNET were implemented by using the INTELSAT Business System (IBS) technics 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**

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 red as:

**“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 has not been implemented and States/Organizations are always charged on unused IBS carriers while operating lease band.

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

**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 of APIRG/17 meeting.

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