



**THE 8th NAFISAT SUPERVISORY COMMITTEE MEETING
MAHE, SEYCHELLES, 25-26 MARCH 2013**

AGENDA ITEM 7: MATTERS ARISING

**7.3 Implementation of APIRG/18 Conclusions and Recommendations of relevance to
NAFISAT Network**

PERFORMANCE DATA COLLECTION FORM

(Presented by the Secretariat)

SUMMARY
<p>This working paper presents the performance data collection forms (PDCF) adopted by APIRG/18 meeting as a means of monitoring the performance of VSAT networks and supported services, and requests NAFISAT States to agree on a common target date for operational use these forms.</p> <p>References:</p> <ul style="list-style-type: none"> • SP AFI RAN/08 Report (ICAO Doc 9930) • APIRG/18 Meeting Report

1. INTRODUCTION

1.1 The objective assigned to the NAFISAT Network is to support the provision of Aeronautical Fixed Services (AFS), which include:

- Air Traffic Services Direct Speech (ATS/DS);
- Aeronautical Fixed Services (Aeronautical Fixed Telecommunications Network (AFTN);

1.2 The NAFISAT network is also expected to support the following ATN applications which are being introduced in the AFI Region:

- ATS Handling Message System (AHMS); and
- ATS Inter-Facility Data Communications (AIDC).

1.3 ICAO SP AFI RAN/08 adopted a performance based approach to air navigation planning and implementation.

2. DISCUSSION

2.1 The performance-based approach is structured upon the following principles:

- a) strong focus on desired/required results through adoption of performance objectives and targets;

- b) informed decision making, driven by the desired/required results; and
- c) reliance on facts and data for decision making.

2.2 The need for a performance-based approach was confirmed by the Twelfth Air Navigation Conference (AN-Conf/12). It requires periodical assessment of achievements through performance reviews, which in turn require adequate performance measurement and data collection capabilities. In this respect, consensus must be reached on the desired outcome of performance management in terms of results to be achieved.

VSAT networks – Performance monitoring

2.3 As part of its work on the harmonization of implementation activities relating to the use of VSAT networks, and pursuant to Conclusion 5/17 of the ALLPIRG/5 meeting, ICAO had developed minimum performance targets for VSAT networks in support of aeronautical ground-ground communications. These minimum performance targets were endorsed by ICAO SP AFI RAN (2008).

2.4 In order to assess the performance of Aeronautical Fixed Services (AFS) supported by VSAT networks, APIRG/18 Meeting agreed to a monitoring four level methodology (*Space Segment, Radiofrequency Equipment, Multiplexers, Terminal Equipment*) which is based on the use by Air Navigation Service Providers (ANSPs) of the Performance Data Collection Forms (PDCFs) shown at **Appendix** to this working paper. PDCFs contain the following performance indicators:

- AFTN: Availability, circuit speed, transit time.
- ATS/DS: Availability, number of attempts, one-way latency time, call set up time.
- AMHS, AIDC: Availability, circuit speed, transit time.

2.5 The Secretariat was requested to finalize these forms and circulate them to the States and entities charged with planning and implementation of VSAT networks in order to harmonize the related performance measurement methodology between ICAO regions.

3. CONCLUSION

3.1 The Supervisory Committee is invited to request ANSPs to:

- a) Review the PDCFs shown at **Appendix** to this working paper and send their comments (if any) to the ICAO Regional Office by 30 April 2013; and
- b) Agree to start operational use of PDCFs as from 1 July 2013.
