



**INTERNATIONAL CIVIL AVIATION ORGANIZATION**  
**FIRST MEETING OF THE APIRG INFORMATION AND INFRASTRUCTURE MANAGEMENT SUB-**  
**GROUP (IIM/SG/1)**  
**NAIROBI, KENYA, 27 – 30 JUNE 2017**

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**Agenda Item 4.3: Aeronautical Communication Navigation Surveillance and Spectrum  
infrastructure and Systems**

*Implementation of an Integrated Regional Telecommunication Infrastructure*

**Presented by ASECNA**

SUMMARY
This paper proposes to include a new IIM project related to the implementation of an Integrated Regional Telecommunication Infrastructure into the list of IIM projects. Action by the meeting is at <b>paragraph 3</b> .
<b>REFERENCES</b> - APIRG 18 Report - ASBU Implementation Plan

## 1. INTRODUCTION

- 1.1. The provision of air navigation services as well rely on an integrated regional telecommunication infrastructure available, integrated and reliable. In particular the implementation of the ASBU modules requires an integrated seamless interoperable IP-based regional/interregional digital communication network. Moreover, the building of the AFI ATN is still to be pursued and to be integrated to the global ATN.
- 1.2. In the APIRG projects approach and with regard to the importance of infrastructure to achieve these objectives, it is necessary to identify projects related to infrastructure in order to support properly the various ASBU modules.

## 2. DISCUSSION

- 2.1. AFI VSAT networks (AFISNET, CAFSAT, NAFISAT and SADC VSAT2) have been developed to support the provision of the air navigation services and their development and modernization are ongoing with the goal to achieve the ICAO required performance.
- 2.2. ALLPIRG/5 particularly requested PIRGs to work towards integrated regional/interregional digital communication networks, with a centralized operational control and preferably based on the Internet Protocol (IP) (Conclusion 5/16 refers).
- 2.3. APIRG/18, per decision 18/29, called for the establishment of AFI integrated IP-based regional/interregional digital communication network that embraces a consolidated AFI Aeronautical Telecommunication Network (ATN) infrastructure.
- 2.4. It is necessary to identify an infrastructure project aimed to :
  - a) provide a common IP based managed network service across the AFI region
  - b) Provide an efficient support to operational data and potentially voice communications to support:
    1. existing services



2. new requirements that are emerging from future Air Traffic Management (ATM) concepts

2.5. An infrastructure project is proposed at Appendix to the Working Paper for consideration by the meeting

## 2. ACTION BY THE MEETING

The meeting is invited to:

- a) Take note of the information provided in this working paper;
- b) Provide inputs and include the project described at WP-28 Appendix into the list of IIM projects

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