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

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

Assessment and implementation of cyber security of ANSP systems and networks

Presented by ASECNA

SUMMARY
This paper proposes to include a new IIM project related to the assessment and implementation of cyber security of ANSP systems and networks into the list of IIM projects. Action by the meeting is at **paragraph 3.**
REFERENCES - APIRG 18 Report - ASBU Implementation Plan

1. INTRODUCTION

The implementation of the current and forthcoming aeronautical services will rely more and more on Information technologies, which are central to air navigation services and civil aviation in general. The ATM system and its supporting services and facilities (AIM, MET, CNS) require continuous flows of information and these data require different levels of performances in accuracy, integrity, availability and sometime confidentiality.

The threats on IP based technology on the ATM system related to voluntary inclusion is real and some States and organizations have being taking remedial measures even though no standards and clear guidance is available.

2. DISCUSSION

2.1. With the new IP-based aeronautical telecommunications services, all air traffic actors, especially ANSPs, are potential target for cyber-attacks today. The threats are real and can take several forms depending on the means of the hackers.

2.2. The networks and systems, interconnecting the various ANSP are IP-based and are exposed at several levels to cyber-attacks. Organizations have to identify their critical information systems and implement appropriate security measures in complement to existing cyber security objectives

2.3. Potential threats could come from each of the actors and it is necessary to install a new security system to ensure the cyber requirements on our equipment.

2.4. It is necessary to consider the need for a cyber-policy over the AFI region, which would assess all issues: the definition of common threats scenarios, training, performances, security studies, audits and control

3. 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 Appendix to WP-28 into the list of IIM projects

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