INTERNATIONAL CIVIL AVIATION ORGANIZATION

Third Meeting of APIRG Infrastructure and Information Management Subgroup (IIM/SG/3)
(Virtual Meeting, 12-14 October 2020)

Agenda Item 4: Status of implementation of the regional projects adopted by APIRG

WP4 B.5 Progress report of IIM SG COM 5 project "Assessment of AFI Air Navigation Services Cyber resilience"
(Presented by Côte d'Ivoire)

SUMMARY
This paper presents the overall progress of IIM SG COM 5 project "Assessment of AFI Air Navigation Services Cyber resilience".   **Action by the meeting is at paragraph 3**
REFERENCE(S):   ▪ Report of the 2nd meeting of IIM SG (APIRG IIM SG/2)   ▪ ICAO Aviation Cybersecurity Strategy
Related ICAO Strategic Objective (s):   **Related ASBU KPIs & B0 Modules:** all KPIs applicable to CNS and Spectrum domains

1. INTRODUCTION

1.1 The IIM SG COM 5 Project was launched end 2017 to address cyber safety, and cyber resilience aspects of current and existing air navigation and information management systems in AFI region.

1.2 The project team is composed of ICT/AIS/CNS/ANS experts from States and organizations:

Benin   Côte d'Ivoire   Gambia   Ghana   Kenya   Nigeria   South Africa

2. DISCUSSION
2.1 Scope
2.1.1 The objectives of the project are to:
- assess the cyber threats on Air Navigation systems.
- determine all relevant cyber safety and cyber resilience areas affecting ANS and
- develop a cyber resilience framework for voluntary use by AFI ANSP organizations / member states.

2.2 Actions conducted *(Key achievements of the project)*

2.2.1 75% of the project tasks defined in the initial project planning had been completed, including the main deliverables such as the project description, the project linkage matrix, the project questionnaire and the ANS Cyber safety and resilience framework.

2.2.2 A consolidated edition of ANS Cyber safety and resilience framework had been developed and submitted to IIM Subgroup Chairman and Secretariat on 3rd February 2020.

2.2.3   The AFI ANS Cyber safety and resilience framework provides general guidelines on how to assess the cybersecurity risks, threats and vulnerability to the Air Navigation Services and methods of mitigating such risks. This framework is based on the proven cybersecurity standards and frameworks (ISO 27000 series, NIST, SOX, ITGC, ITAC, COSO, COBIT, etc..) and had been aligned with the Aviation Cybersecurity Strategy (published by ICAO in October 2019).

2.2.4   **Air Navigation Services Cyber safety and resilience awareness Workshop for AFI region**

2.2.4.1 An ICAO Regional Workshop on Cyber Safety and Resilience for Air Navigation Systems with Tabletop Exercise was held at the ICAO Regional Office in Nairobi, Kenya from 3 to 5 December 2019.

2.2.4.2 The IIM SG COM Project team participated in the workshops provided presentations on regional initiatives on the subject. The IIM COM 5 project deliverables had been updated with the Lessons learnt, needs and recommendations gathered during the workshop.

2.3   Challenges

2.3.1   The challenges faced by the project are mainly related to:

–   effective participation and availability of the experts, and
–   the project baseline questionnaire to be sent urgently to AFI States.

2.4   **The Way Forward** *(Project Upcoming Tasks and Milestones)*

2.4.1   The project team plan to complete the following tasks:

–   Update the AFI ANS Cyber safety and resilience with latest input/information from ICAO Working Group on Air Navigation Systems (WG-ANS) of the ICAO Secretariat Study Group on Cybersecurity (SSGC)
–   Conduct project baseline questionnaire survey (the questionnaire should be sent to AFI States)
–   Organize webinar to raise ANS cyber safety awareness.

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

a) Take note of the progress of the project.
b) Note the difficulties encountered by the project and identify any possible solutions with other IIM projects.
c) Encourage cooperation with other regional initiatives on ANS Cyber safety and resilience *(e.g. SAT working group on ANS cybersecurity, EATM CERT, …)*
d) Urge States to participate actively in the project and in future Cyber Security and Resilience awareness workshops/webinars.

3.2   **Draft Conclusion/Decision 3/xxxx**: *Effective support to the IIM Projects activities related to cyber safety and resilience in AFI region*
That;

a) Secretariat to send the project baseline questionnaire to AFI States
b) States to confirm the list of project members and verify availability/validity of their designated experts and to provide feedbacks on the project questionnaire
c) APIRG to support activities to raise awareness of ANS Cyber safety and resilience (*through webinars/workshops/seminars on Cyber safety and resilience for AFI Region*).
d) Urge States to participate actively in the project and in future Cyber Security and Resilience awareness workshops/webinars.

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