



INTERNATIONAL CIVIL AVIATION ORGANIZATION

**Fifth Meeting of the APIRG Infrastructure and Information Management Sub-Group
(IIM/SG5)***(Virtual, 26 - 29 July 2022)***Agenda Item 3.1: Status of implementation of applicable ASBU elements****WP3.1C5 Summary of CNS Project Teams achievements IIM SG COM 5 project
“Assessment of AFI Air Navigation Services Cyber resilience”***(Presented by Côte d’Ivoire)*

SUMMARY
This working paper outlines the progress of IIM SG COM 5 project “Assessment of AFI Air Navigation Services Cyber resilience” and the challenges encountered. Action by the meeting in paragraph 3
REFERENCE(S): <ul style="list-style-type: none">▪ Aviation Cybersecurity Strategy▪ ICAO Cybersecurity Action Plan (CyAP)▪ ICAO Assembly Resolution 40-10 – Addressing Cybersecurity in Civil Aviation
This working document relates to ICAO Strategic Objectives: Safety and Air Navigation Capacity and Efficiency

1. INTRODUCTION

1.1 The IIM SG COM 5 Project “Assessment of AFI Air Navigation Services Cyber resilience” was launched end 2017 to address cyber safety, and cyber resilience of air navigation and information management systems in AFI region.

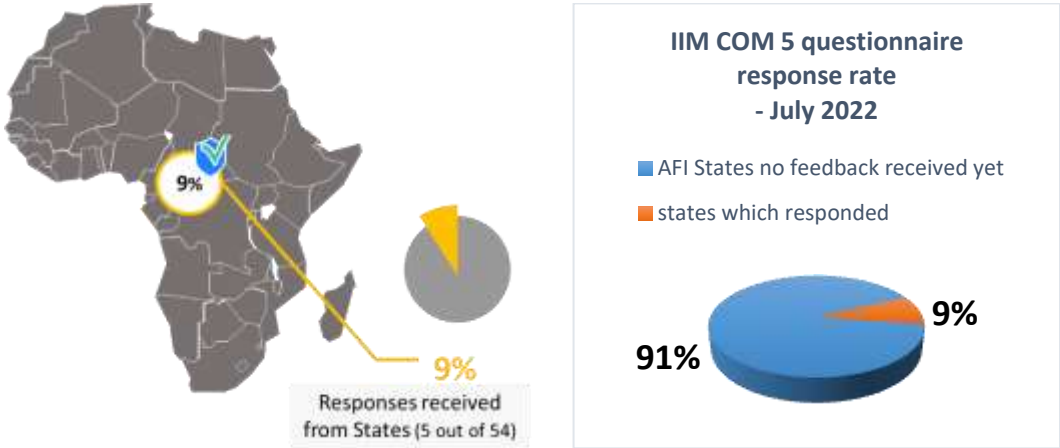
1.2 The project objectives are to:

- assess the cyber threats on Air Navigation systems.
- promote cyber safety and resilience culture in the AFI Region among the stakeholders: CAA, ANSPs, counters parts:
- develop a cyber resilience framework (guidelines) for voluntary use by AFI ANSP organizations / member states to:

2. DISCUSSIONS**2.1 Key achievements**

2.1.1 Assessment of current cyber resilience of ANS in AFI region (project baseline questionnaires)

The survey questionnaires developed by the Project team had been disseminated. Only 9% of States responded.



2.1.2 AFI Air Navigation Services Cyber s resilience framework

2.1.2.1 The AFI ANS Cyber resilience framework provides general guidelines on how to assess the cybersecurity risks, threats and vulnerability to Air Navigation Services and methods of mitigating such risks. This framework is based on Aviation Cybersecurity Strategy and the proven cybersecurity standards and frameworks (ISO 27000 series, NIST, etc.).

Overviews of the various critical infrastructure in air navigation facilities and cyber-attack landscape are also provided in the framework

2.1.2.2 The ANS Cyber resilience framework, submitted to IIM Subgroup Chairman and Secretariat in February 2020, had been updated to ensure alignment with the Aviation Cybersecurity Strategy, ICAO cybersecurity action plan edition 2 January 2022, ICAO cybersecurity culture in civil aviation (edition 1 January 2022) and the current aviation cyber safety initiatives (considering what is relevant/appropriate for AFI region).

2.1.2.3 The final edition of the framework submitted to the secretariat by 15th July 2022.

2.1.3 ANS Cyber resilience awareness and training

2.1.3.1 ANS Cyber resilience Workshop/Webinars

In coordination with ICAO regional offices and with the assistance of the industry, a webinar is planned during the 2nd semester 2022, to share the cybersecurity culture, training, sensitize people (how educate people and be aware of the threats). The project agenda had been developed by the project team and industry contacted.

2.1.3.2 ANS Cyber resilience training

the project has listed and kept up to date available training as well as workshops/webinars on cybersecurity of air navigation services and aviation in general. This list should be distributed to all IIM SG projects.

2.2 The Way forward

The ANS cyber resilience workshop/webinar ‘organization should be accelerated: date to be fixed with the Secretariat.

The project will be closed by December 2022, according to the updated project plan.

3. ACTIONS BY THE MEETING

3.1 The meeting is invited to:

- a) Take note of the progress made so far by the project team and the challenges.

3.2 Draft Conclusion /Decision 5/xx : Effective support to the IIM Projects activities related to cyber resilience in AFI region That ;

1. In order to increase States/Organizations technical personnel capability in cyber securing ANS systems, ICAO with the collaboration of the industry within the framework of the APIRG mechanism, increase its support in activities aimed at raising awareness of ANS Cyber resilience through webinars/workshops/seminars on Cyber resilience of ANS systems for AFI Region

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