International Civil Aviation Organization

MIDANPIRG/19 and RASG-MID/9 Meetings

(Riyadh, Saudi Arabia, 14-17 February 2022)

Agenda Item 5.8:   Air Navigation Planning and Implementation - CNS

ANS CYBER SECURITY

(Presented by the Secretariat)

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SUMMARY

The aim of this paper is to inform the meeting about ICAO provisions related to ANS Cyber Security and propose conducting a Regional Cyber Security Table Top Exercise (TTX)

Action by the meeting is at paragraph 3.

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REFERENCES

– ICAO Cyber Security Strategy
– 2nd Version of ICAO Cybersecurity Action Plan (CyAP)
– MIDANPIRG/17 Report

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1.   INTRODUCTION

1.1   The 39th Session of the ICAO Assembly reaffirmed the importance and urgency of protecting civil aviation's critical infrastructure systems and data against cyberattacks, and obtaining global commitment for action by ICAO, its Member States and industry stakeholders, with a view to collaboratively and systemically addressing cybersecurity in civil aviation and mitigating the associated threats and risks.

2.   DISCUSSION

2.1   In order to meet the expectations of the Assembly, a Cybersecurity Strategy for civil aviation was developed by the Secretariat Study Group on Cybersecurity (SSGC). The 40th Session of the ICAO Assembly adopted the amended Resolution A40-10 – Addressing Cybersecurity in Civil Aviation, which calls upon States to implement the Cybersecurity Strategy and underlines the importance of developing a sustainable implementation plan for the Strategy, as well as continuing the work for the development of a strong cybersecurity framework.

2.2   The 2nd version of Cybersecurity Action Plan (CyAP) was developed early 2022. The CyAP provides the foundation for States, industry, stakeholders and ICAO to work together to develop the ability to identify, prevent, detect, respond to and recover from cyber-attacks on civil aviation as well as create a solid

framework for cooperation. It has been developed with the aim to propose a series of principles, measures and actions to achieve the objectives of the strategy's seven pillars.

2.3   The MIDANPIRG/17 meeting, through the Decision 17/38, established the ATM Data Security Action Group, renamed ANS Cyber Security Working Group (ACS WG). The ACS WG proposed to conduct a Regional Cyber Security Table-Top exercise (TTX) in 2022, which is a useful tool to test existing ANS Systems cyber resilience and identify improvements. The aim of this exercise is to empower the Participating States with measures to mitigate the exploitation of critical information systems, develop awareness on cyber issues affecting aviation, and foster a cyber security culture that promotes a resilient and secured cyberspace.

2.4   The Cyber Security TTX will simulate a cyber-event affecting air transport. The scenario will focus on systems which form an integral part of flight operations in ANSPs, Airports and airlines. By using a predefined scenario and introducing new challenges throughout the exercise, participants will become aware of what coordination efforts are required at a management level to successfully navigate a cyber event. The TTX would make use of existing national contingency plan that is already developed and amend to include provisions for cybersecurity to ensure the continuity of air transport during cyber incidents.

2.5   ICAO Cybersecurity Action Plan (CyAP) stated that aviation stakeholders should periodically conduct live exercises to test the validity of assumptions made in planning and table top exercises.

3.   ACTION BY THE MEETING

3.1   The meeting is invited to

a)   participate actively in the ANS Cyber Security Tabletop exrcise (TTX);and

b)   ensure alignment of ANS national Cyber Security plan with ICAO 2nd version of Cybersecurity Action Plan (CyAP).

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