The Regional Perspective and Activities

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RO/CNS - ICAO MID Office

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ICAO's vision for global cybersecurity is that the civil aviation sector is resilient to cyber attacks and remains safe and trusted globally, whilst continuing to innovate and grow.

1- ICAO Cyber Summit and Exhibition (4-6 April 2017, UAE)
The "Dubai Declaration on Cybersecurity in Civil Aviation" was announced

2- ICAO Blockchain Aviation Summit and Exhibition (April 2019, UAE)

3- ICAO/UAE High Level Conference on Cyber Security (March 2022, UAE)

Cybersecurity Table Top Exercise

AMMAN, JORDAN | 24-27 OCTOBER 2022

UAE developed a security baseline for the various systems in use, which was endorsed to be the regional security baseline. 7 Minimum Security Baseline (MSB) documents were created.

MIDANPIRG CONCLUSION 17/40: BASELINE SECURITY GUIDELINES FOR THE MID REGION

That, the Minimum Security Baselines (MSBs) is endorsed as the baseline security guidelines for the MID Region.

ATM Data and Cyber Security Portal, has been developed by the UAE to allow ANSP's and other stakeholders to report cyber events as well as share knowledge and information on cyber security incidents.

MIDANPIRG CONCLUSION 17/39:   ATM DATA CYBER SECURITY (ADCS) PORTAL

That,
a) the ADCS Portal be used as a prototype platform for ATM cyber security; and   \
b) States be encouraged to:
i. assign ADCS focal point(s) to register on the ADCS Portal;
ii. provide feedback to the ADCS Admin by 1 November 2019 for further enhancements; and
iii. share their experience related to cyber security, through the ADCS Portal

https://www.adcsportal.ae

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- ➢ States to establish a cybersecurity culture supported by leadership and guided by example;
- ➢ States to develop/implement a cyber security strategy;
- ➢ Global collaboration & strategic alliances to strengthen regional cyber security in addressing cross-border cyber attacks and cyber crimes;
- ➢ States to establish legislative and regulatory framework with enforcement policy;
- ➢ States to ensure cross-functional coordination by involving relevant domains (AVSEC, ANS, IT, Airports, Airlines, etc);
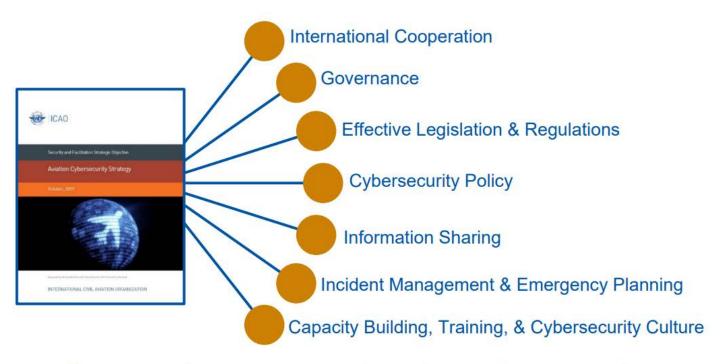
CYBER SECURITY AND RESILIENCE SYMPOSIUM | **TOWARDS A RESILIENT AVIATION CYBERSPACE**

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➢ States to develop contingency/disaster recovery plans as part of the resilient aviation ecosystem;

➢ States to carry out tabletop exercises on regular basis, with ICAO support, as appropriate;

➢ CAAs are encouraged to collaborate with their National Computer Emergency Response Team (CERT) for cross industry incident management, as appropriate;

➢ States/Stakeholders are encouraged to use the ATM Data Security Portal (www.adscportal.ae) to share their experience and best practices related to cybersecurity;

➢ Treat cybersecurity as part of an organizational wide risk management framework, considerate of all applicable domains.

The Air Navigation Service Cyber Security Working group was established by MIDANPIRG/17 (April 2019, Egypt) in order to manage the ANS Cyber Security issues in the MID Region and assist/guide States in improving ANS systems' cyber resiliency.

Cybersecurity Table Top Exercise

AMMAN, JORDAN | 24-27 OCTOBER 2022

International Cooperation

Governance

Effective Legislation & Regulations

Cybersecurity Policy

Information Sharing

Incident Management & Emergency Planning

Capacity Building, Training, & Cybersecurity Culture

https://www.icao.int/aviationcybersecurity/Pages/Aviation-Cybersecurity-Strategy.aspx

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- ➢ First Edition published in November 2020
- ➢ Second Edition published in January 2022
- ➢ Available on ICAO Public Website
- ➢ Provides the Foundation for ICAO, States and stakeholders to work together
- ➢ Develops the Seven Pillars of the Aviation Cybersecurity Strategy into 32 Priority Actions, which are further broken down into 51 Tasks to be Implemented by ICAO, States, and Stakeholders

https://www.icao.int/aviationcybersecurity/Pages/Cybersecurity-Action-Plan.aspx

➢ The CNS SG/11 (May 2022, Oman) meeting noted that gap analysis conducted by Egypt between the ICAO cyber security strategy and ICAO cyber security action plan, the current implementation level in the MID Region, and proposal to develop guidelines for the implementation of ANS Cyber Security.

➢ The CNS SG/11 meeting agreed to task the Air Navigation Cyber Security Working Group (ACS WG) to conduct in depth GAP analysis and propose action to the CNS SG/12 meeting.

➢ The CNS SG/11 meeting encouraged States to participate in the planned ANS cybersecurity tabletop exercise in October 2022 in Amman, Jordan.

➢ The meeting discussed the need to share experience on cyber threats and incidents, in this regard, the meeting recalled that UAE developed and hosted ATM data cyber security portal. The meeting tasked the ACS WG to review the portal and propose solution to enhance its use in the MID Region.

➢ The meeting was informed about ACAO cyber security Working Group, the meeting agreed to coordinate actions in order to avoid efforts duplication.

Revised A41 Resolution: Addressing Cybersecurity in Civil Aviation

➢ Recognizes the multi-disciplinary nature of cybersecurity challenges and solutions and that cybersecurity risk can simultaneously affect a wide range of areas;

➢ Reaffirms the obligations States have under the Convention on International Civil Aviation (Chicago Convention);

➢ Reaffirms the importance and urgency of addressing the cybersecurity and cyber resilience of civil aviation's critical systems, data, and information against cyber threats and hazards, including common interfaces between civil and military aviation;

➢ Highlights the need for global universal adoption and implementation of the Convention on the Suppression of Unlawful Acts Relating to International Civil Aviation (Beijing Convention) and Protocol Supplementary to the Convention for the Suppression of Unlawful Seizure of Aircraft (Beijing Protocol);

➢ Recognizes the need for aviation cybersecurity to be harmonized; and

➢ Recognizes the importance of developing clear national governance and accountability for civil aviation cybersecurity, including the designation of a competent national authority responsible for aviation cybersecurity in coordination with concerned national authorities and agencies.

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