

# CYBERSECURITY AND RESILIENCE SYMPOSIUM

PROTECTING AVIATION  
FROM CYBER ATTACKS

DOHA, QATAR | 6 - 8 NOVEMBER 2023



ICAO MID



## Emergency Response and Contingency Planning

November 2023

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**Ms. Wafa Abdulla Al Obaidli**

Senior Director, Oversight & Inspection Department  
Aviation Security Affairs Sector  
UAE General Civil Aviation Authority

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## Session 5

**Emergency Response and Contingency Planning**

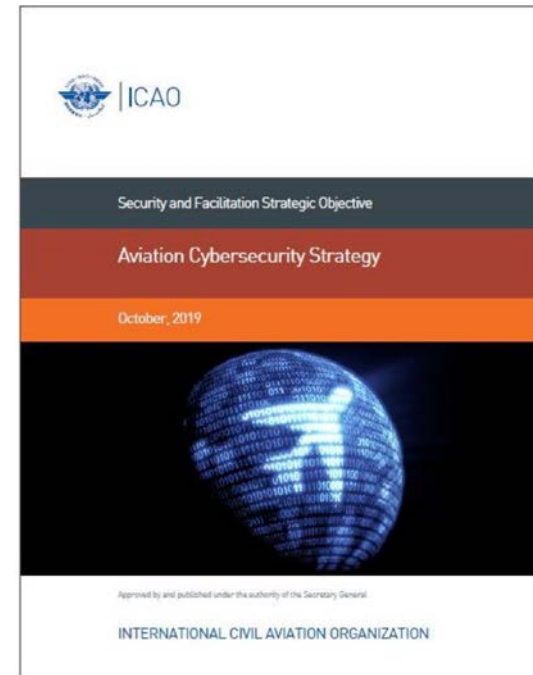
## **Agenda**

- **ICAO Aviation Cybersecurity Strategy**
- **UAE's Cybersecurity Policy**
- **The UAE National Civil Aviation Cybersecurity Strategy**
- **The UAE Cyber Security Council ( CSC )**
- **The Five Pillars UAE Cyber Security Council ( CSC )**
- **The GCAA National Civil Aviation Cybersecurity Vision**
- **GCAA National Civil Aviation Cybersecurity Objectives**
- **UAE National Working Group for Cybersecurity for civil aviation sector**
- **Cybersecurity Road Map 2023**
- **Incident Management and Emergency Planning**
- **Cybersecurity Drills & Exercises**

## ICAO Aviation Cybersecurity Strategy

*Best Practices, Knowledge and Experience related to Contingency Plans and Emergency Response*

- Sharing UAE GCAA's best practices, knowledge and Experience related to Contingency Plans and Emergency Response.
- Development of a formal Emergency Response Plan.
- Plan for orderly and efficient transition from normal to emergency operations and return to normal operations.
- Appropriate role based qualifications of Personnel.



## UAE's Cybersecurity Policy

- The UAE National Civil Aviation Cybersecurity Strategy
- The UAE Cyber Security Council ( CSC )
- GCAA National Civil Aviation Cybersecurity Strategy



## The UAE Cyber Security Council ( CSC )

مجلس الأمن السيبراني  
CYBER SECURITY COUNCIL



### It is responsible for:

- Developing and overseeing a cyber security strategy
- Promoting a secure and resilient cyber infrastructure in the UAE, and
- Creating a safe and strong cyber infrastructure in the UAE.
- This strategy is based on 5 pillars and a number of initiatives.



## The Five Pillars

1. Cybersecurity laws & Regulations
2. Vibrant Cybersecurity ecosystem
3. National Incident Response plan
4. Critical Infrastructure Information Protection (CIIP) Programme
5. Partnerships





# The GCAA National Civil Aviation Cybersecurity Vision

“Civil Aviation Sector in the UAE to remain **safe, secure, reliable, sustainable & resilient** to cyber-attacks”



## The GCAA National Civil Aviation Cybersecurity Vision

- **Recognizing** the **obligations** under the *Convention on International Civil Aviation* (Chicago Convention);
- **Recognizing** the initiative of the **Dubai Declaration on cyber security in civil aviation** and the ICAO Assembly Resolution A40-10;
- **Coordination** of aviation cybersecurity amongst relevant national authorities to ensure effective and efficient management of cybersecurity risks; and
- **Commitment** by civil aviation stakeholders in the UAE to **further develop** cyber resilience, protecting against cyber-attacks.

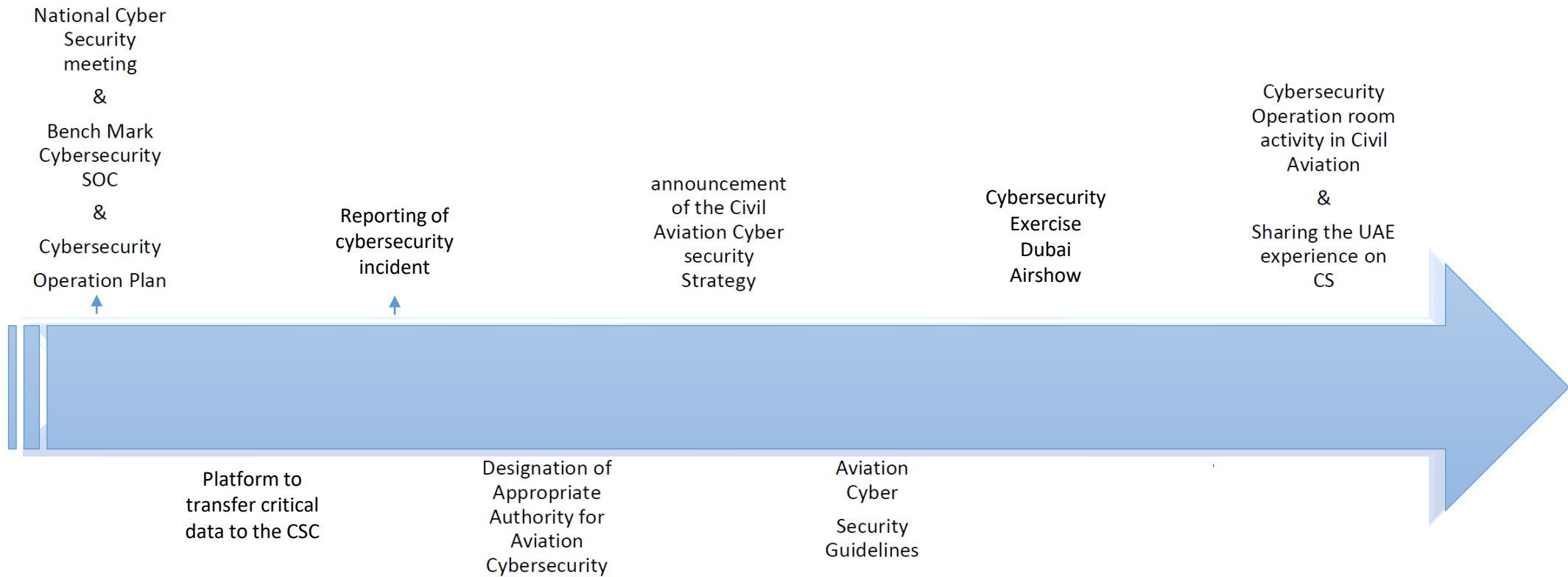
## **GCAA National Civil Aviation Cybersecurity Objectives**

- **Safeguard** against common cyber-attacks.
- **Identify** and **protect** critical information and communications technology systems and data used for civil aviation purposes.
- **Develop** sufficient human resources, **capacity** and **capability**.
- **Ensure** business continuity related to cybersecurity.

# **UAE National Working Group for Cybersecurity for Civil Aviation Sector**

- **Establishment of the National Working Group for Cybersecurity.**
- **Chairmanship of WG.**
- **Coordination and sharing of information.**
- **Effective communication**

## Cybersecurity Road Map 2023



## Incident Management & Emergency Planning

- **Coordinate** the Incident management & emergency planning
- **Ensure** continuity of air transport during **cyber incidents**
- **Amend** the existing **Contingency Plans** to include provisions for cybersecurity.
- **Encourage** the conduct of **cybersecurity exercises** (*table-top exercises, simulations or real-time exercises*)



## Cybersecurity Drills & Exercises

- **Scenarios & ideas** revolving around **challenges**.
- **Exercises** to include the **IT & OT** (Operational Technology) infrastructures.
- **Assessing the readiness** of the Aviation sector operators.
- **Importance** of **sharing** information & experience.
- Any other **challenges**.



## Cybersecurity Drills & Exercises

- Expo 2020 Dubai, **Tabletop** and **On Site** Exercises was conducted.
- Cybersecurity **exercise** is planned to be conducted at an Airport in UAE in November 2023.





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## Joint Aviation Cyber Collaboration

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### Vision

- Collaboration with partners
- Trilateral Engagement
- Provide Real World Standards

- Knowledge & Information Sharing
- Inspire Technological Inspirations
- Secure Aviation cyber infrastructure

### Goals

- Raise awareness & capabilities
- Follow global best practices
- Gap Assessment

### Proposed



### Scenario



### Stakeholder



## Cybersecurity Exercises (Scenarios)



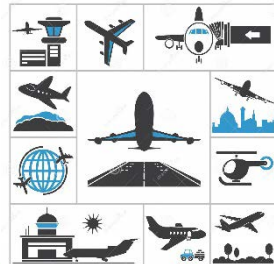
Infrastructure

Security Check Points



Cargo Screening

Checked baggage



Transportation

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# THANK YOU

