58th Conference of Directors General of Civil Aviation
Asia and Pacific Region

ICAO

Agenda Item 5:
Aviation Security and Facilitation

Presented by: Secretariat

Dhaka, Bangladesh: 15-19 October 2023

Aviation Security Presentation overview

01 Annex 17 – *Aviation Security*
Amendment 18

02 USAP-CMA

03 Global Aviation Security Plan
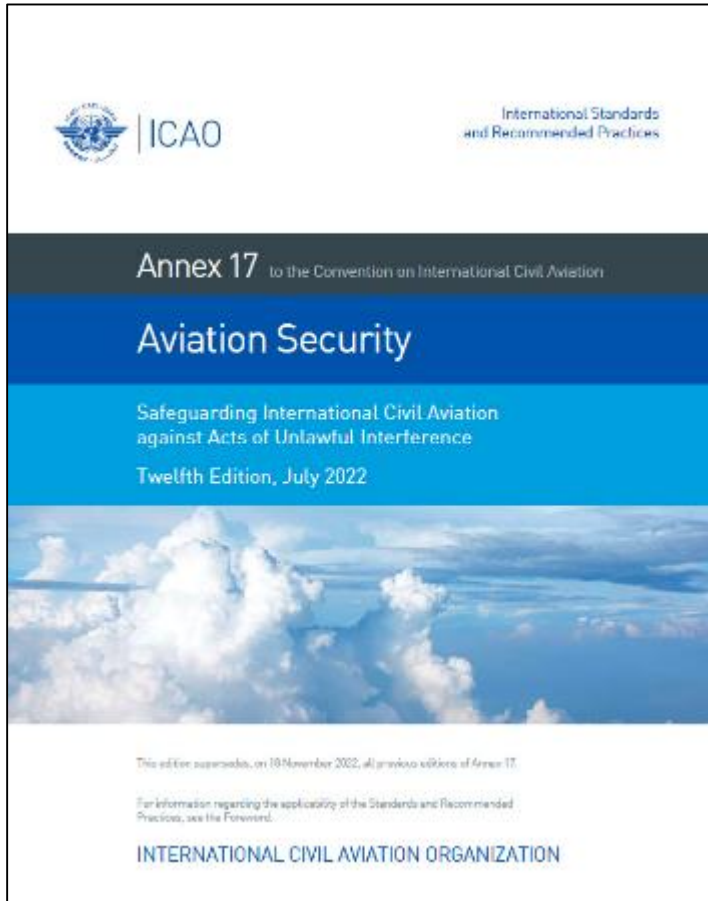
04 Aviation Cybersecurity activities
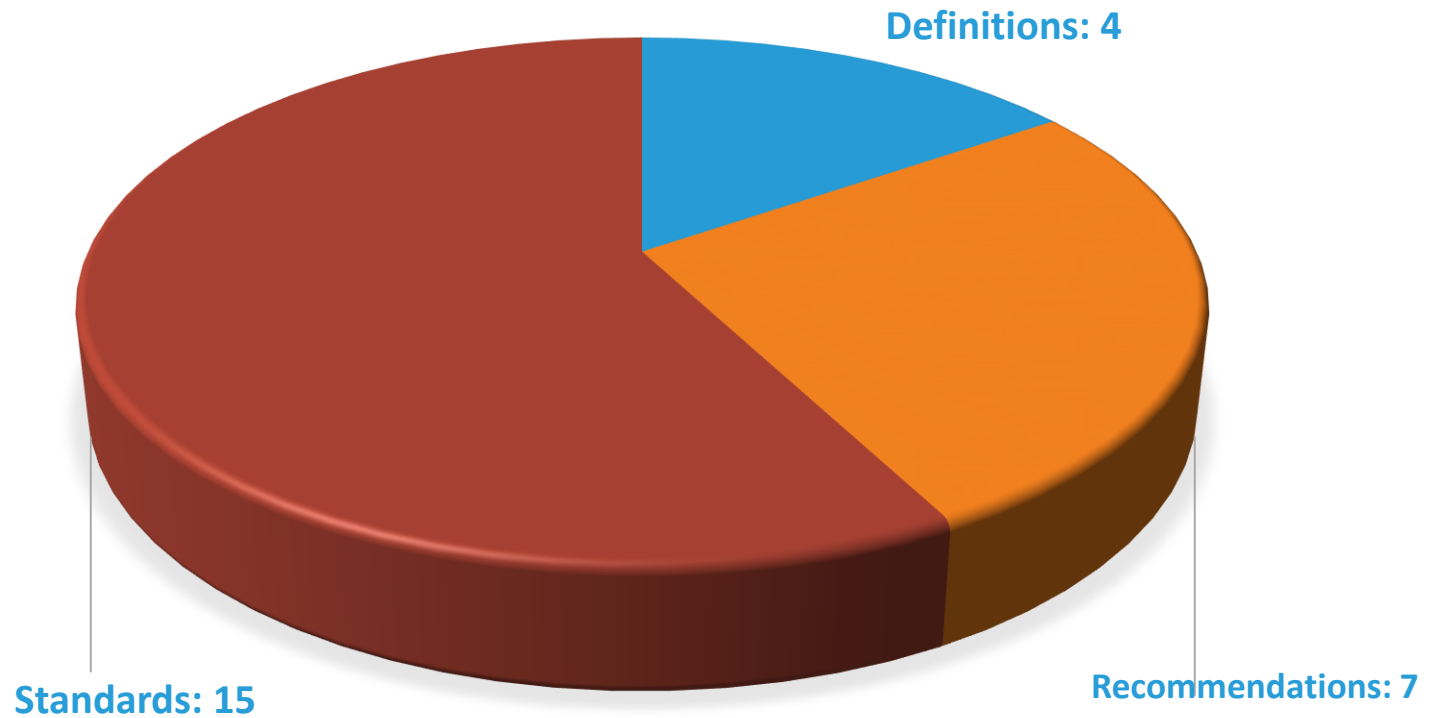
05 Implementation of UN
Security Council Resolutions

06 Activities of the Implementation Support
and Development - Security Programme

Amendment 18 Annex 17

Content: What's new?

- Definitions: 4
- Recommendations: 7
- Standards: 15

Guidance Material

- 13th Edition of the ICAO *Aviation Security Manual* (Doc 8973 - Restricted) **is published in all ICAO languages**.
  - Requests for copies of Doc 8973 should be submitted directly to sales@icao.int

- Some additional new/revised guidance was made available on June 2023 (EB 2023/20 refers):

  - the use of **explosives detection dogs** for persons and personal belongings (cabin and hold baggage)
  - mitigating the effects of **airport disruptions on operations**
  - Starter Pack on **Human Factors**, Human Performance and Security Culture
  - Summary Document on **Measuring the Effectiveness of AVSEC Training**.

- **AVSECP/34 recommended to explore ways to enhance the access to, and usability and visibility of Doc 8973, including the possibility of distributing the Manual free of charge to MS and relevant stakeholders.**

- Publicly available material: Insider Threat Toolkit; Templates for the Quality Assurance of Training Material; AOSP-SSP; Incident Reporting Guidance and Taxonomy; and One-Stop Security.

ICAO

Doc 8973 – Restricted

Aviation Security Manual

Thirteenth Edition, 2022

Approved by and published under the authority of the Secretary General

INTERNATIONAL CIVIL AVIATION ORGANIZATION

Doc 10108 — Restricted

Aviation Security
Global Risk Context Statement

Third Edition, 2022

Approved by and published under the authority of the Secretary General

INTERNATIONAL CIVIL AVIATION ORGANIZATION

Aviation Security Global Risk Context Statement (RCS)
(Doc 10108, Restricted)

What

- Results of risk assessments are periodically published in the RCS
- Third Edition published on 26 September 2022 (EB 2022-41)
- Available in all 6 ICAO languages

Where

- Available to download on ICAO-NET (ICAO-NET Home)

For whom

- Mainly addressed at Member States, ICAO Governing Bodies, and relevant industry partners

Risk Assessment Manual for Civil Aircraft Operations over or near Conflict Zones
(Doc 10084, Third edition)

What

- Produced as a proactive response to the request made by the 41st Session of the ICAO Assembly
- Draws from the input received from 31 States and other stakeholders
- Available in English today and all 6 ICAO languages soon

Where

- Available to download on ICAO-NET (ICAO-NET Home) and on the ICAO Elibrary

For whom

- States and operators regarding the risks from surface-to-air missiles (SAMs), including ballistic missiles, surface-to-surface missiles (SSMs), and air-to-air attacks

Doc 10084

Risk Assessment Manual for Civil Aircraft Operations Over or Near Conflict Zones

Approved by and published under the authority of the Secretary General.

INTERNATIONAL CIVIL AVIATION ORGANIZATION

New training and assistance products

- ICAO Security Culture Discussion Cards; Customizable Resources; Films; E-learning training package

- Available for free (all ICAO languages) from **ICAO Security Culture website**

- Supporting products: Insider Threat Toolkit and Managing Insider Risk Pamphlet

www.icao.int/Security/Security-Culture/Pages/default.aspx

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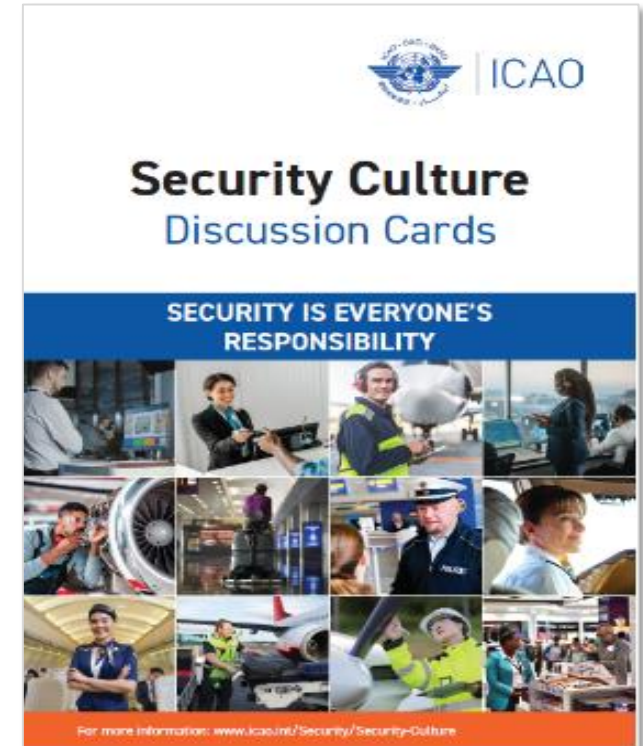
USAP-CMA

Overview of USAP-CMA activities in APAC

USAP Results	Global	APAC Region
Sustainability Indicator	72.48	66.40
Compliance Indicator Annex 17	64.84	53.20
Compliance Indicator Annex 9	67.83	60.89

- 11 USAP-CMA audits scheduled in APAC in 2023
  - 5 audits and 1 validation mission completed as at 31 August 2023
- USAP-CMA Auditor Training Course planned for 2024
- 12 USAP-CMA audits planned in APAC in 2024
- MoUs are outstanding from 3 States in APAC

AVSEC - Global Aviation Security Plan

Evaluation of the GASeP

Some key findings include:

The 2021 evaluation by the Secretariat's Office of Internal Oversight points to key lessons learned from the experience of implementation in the past five years. The findings and recommendations of the evaluation are proposed to guide efforts in preparing for the first revision of the Plan.

☑ Aspirational targets are important but need to be realistic

☑ Evidence that progress is being made in implementing GASeP but there needs to be a coherent monitoring and reporting framework

☑ Good aviation security technical assistance provided by ICAO to Member States but will be much better with budgetary allocation and human resources
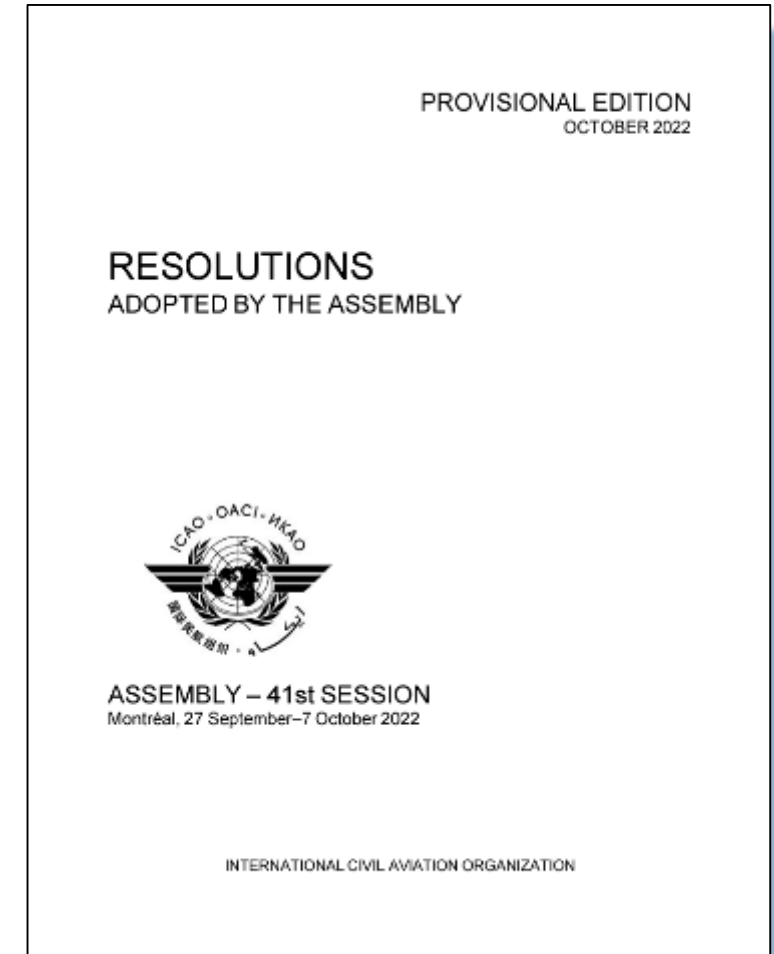
TF-GASEP

VIRTUAL MEETING
Dec 22

REPORTING AVSECP/34
May 23

IN-PERSON MEETING
Feb 24

PREPARATION

Sept – Dec 22
Consolidation of all ideas and contributions received (A41, OIO, Feedbacks)

IN-PERSON MEETING

Lisbon, March 23
Clarify linkage between GASeP and Annex 17; to review and recommend possible "goals"; and the nature of the plan, i.e. more "strategic" and not tactical. The meeting was attended by experts from all ICAO regions except SAM/NACC.

CONSULTATION

Fall 23
TF-GASeP will propose a revised draft version in mid-2023 for wider consultation (States and Regions)

AVSECP/35

April 24
AVSECP will technically approve the final draft of the second edition of the GASEP

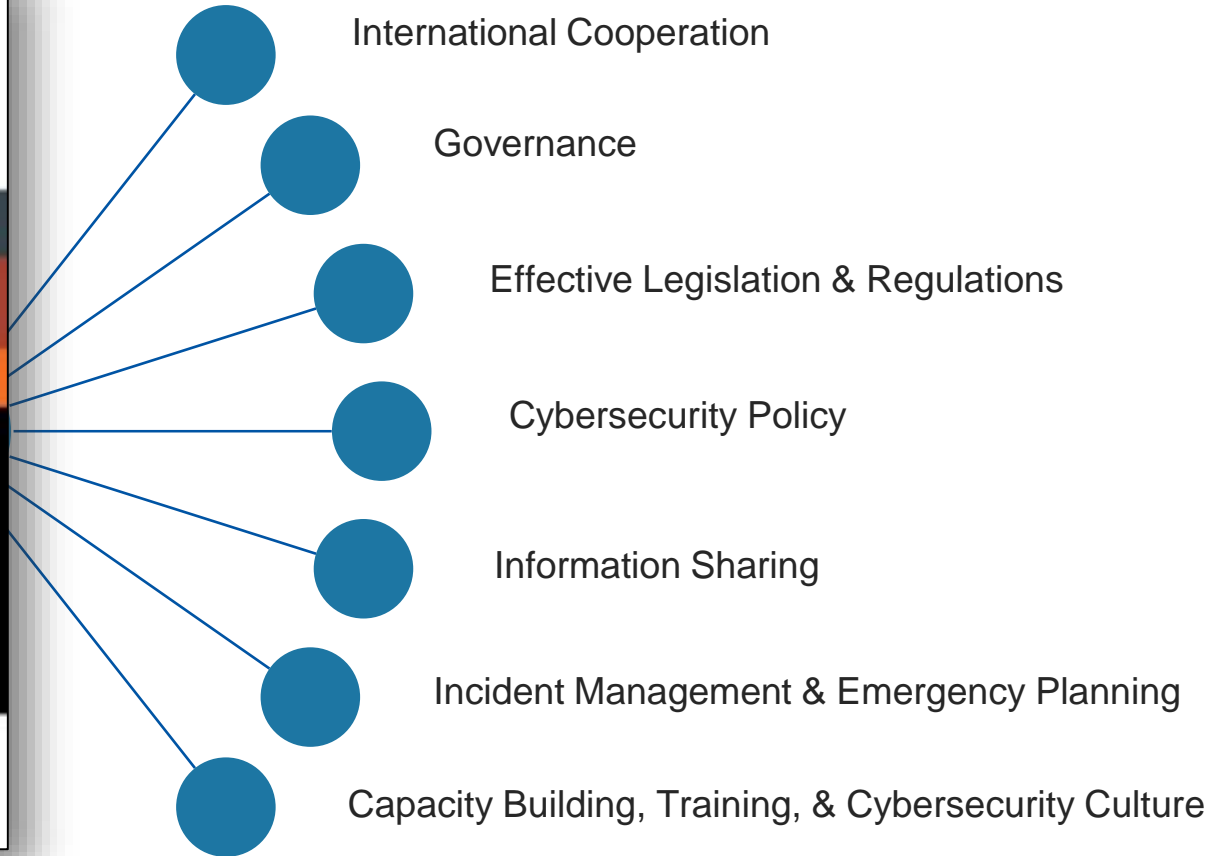# Aviation Cybersecurity activities

ICAO's Work on Aviation Cybersecurity – Assembly Resolutions

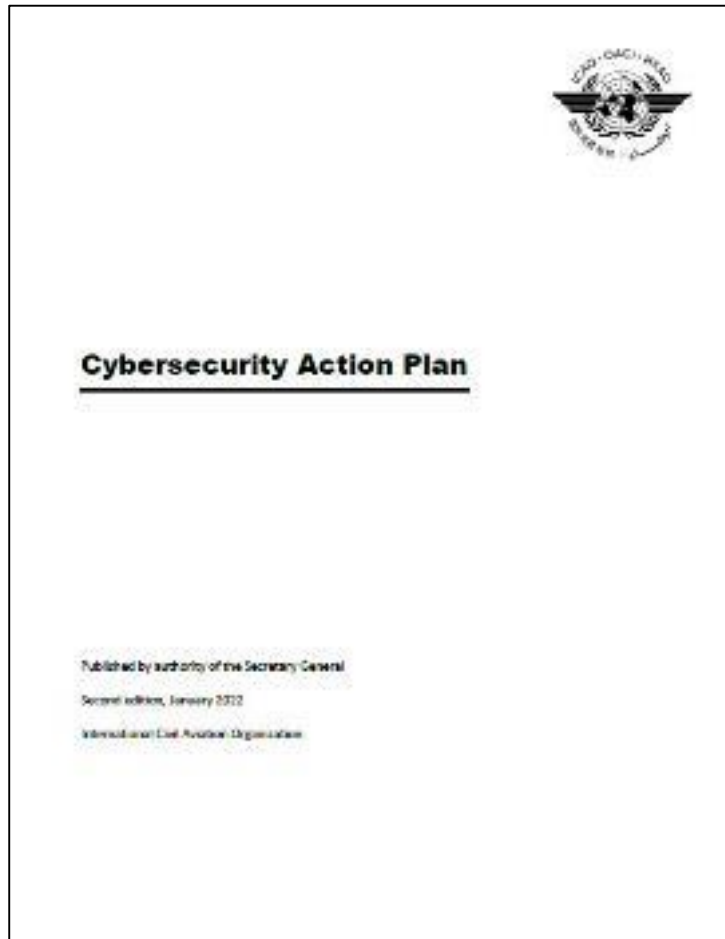**ICAO 41st Assembly Resolution A41–19:** *Addressing Cybersecurity in Civil Aviation*

- Highlights the need for global adoption of the Beijing Instruments
- Recognizes the need for aviation cybersecurity to be harmonized
- Calls upon States to *(not an exhaustive list)*:
  - ✓ implement ICAO Aviation Cybersecurity Strategy, and make use of the ICAO Cybersecurity Action Plan
  - ✓ designate the authority competent for aviation cybersecurity, and define the interaction between that authority and concerned national agencies
  - ✓ define the responsibilities of national agencies and industry stakeholders with regard to cybersecurity in civil aviation
  - ✓ develop and implement a robust cybersecurity risk management framework that draws on relevant safety and security risk management practices, and adopt a risk-based approach to protecting critical civil aviation systems, information, and data from cyber threats
  - ✓ design and implement a robust cybersecurity culture across the civil aviation sector

PROVISIONAL EDITION
OCTOBER 2022

RESOLUTIONS
ADOPTED BY THE ASSEMBLY

ASSEMBLY – 41st SESSION
Montréal, 27 September–7 October 2022

INTERNATIONAL CIVIL AVIATION ORGANIZATION

https://www.icao.int/aviationcybersecurity/Documents/A41-19.pdf

The Aviation Cybersecurity Strategy

- 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

The Cybersecurity Action Plan

Cybersecurity Action Plan

Published by authority of the Secretary General

Second edition, January 2022

International Civil Aviation Organization

- 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 **7 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

Guidance Material

- **Doc 8973** – *Aviation Security Manual*
- **Doc 9985** – *ATM Security Manual*
- Aviation Cybersecurity Strategy
- Cybersecurity Action Plan
- **Using Traffic Light Protocol**
- **Cybersecurity Culture in Civil Aviation**
- **Cybersecurity Policy Guidance**

https://www.icao.int/aviationcybersecurity/Pages/Guidance-material.aspx
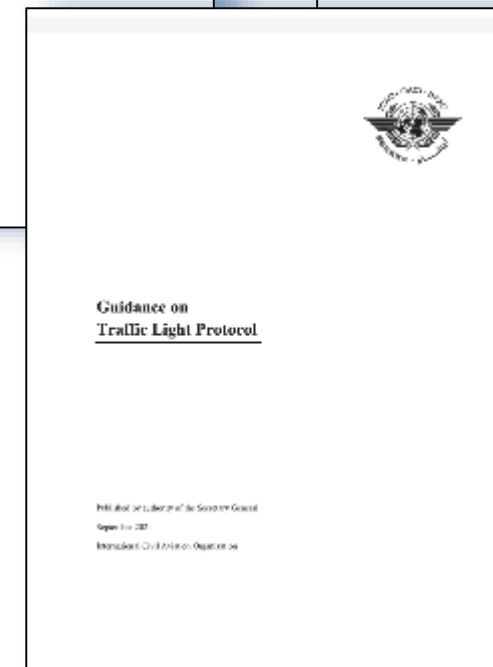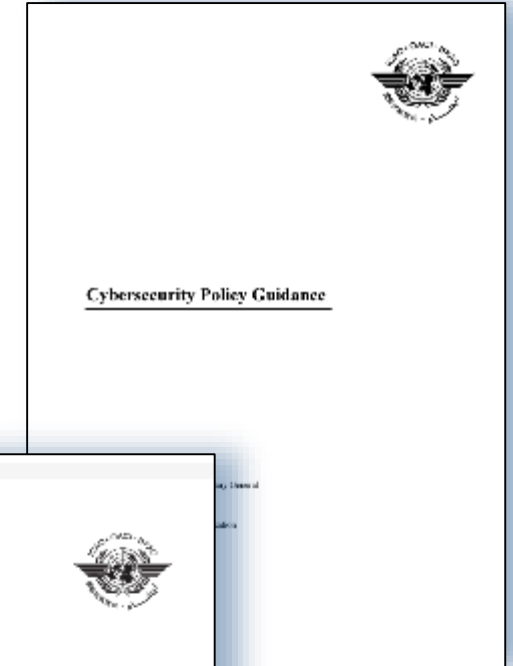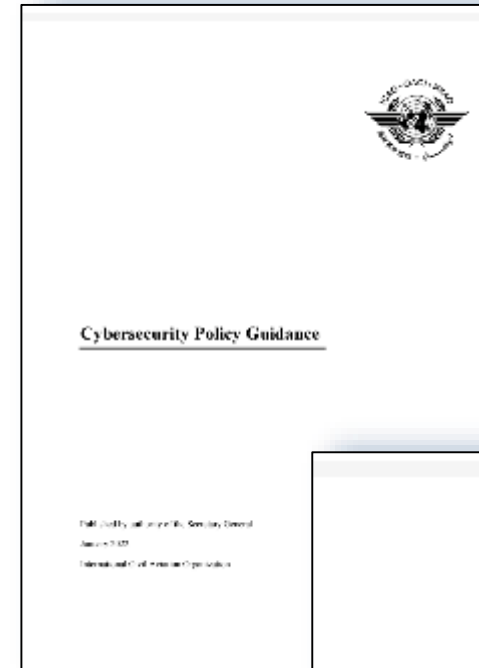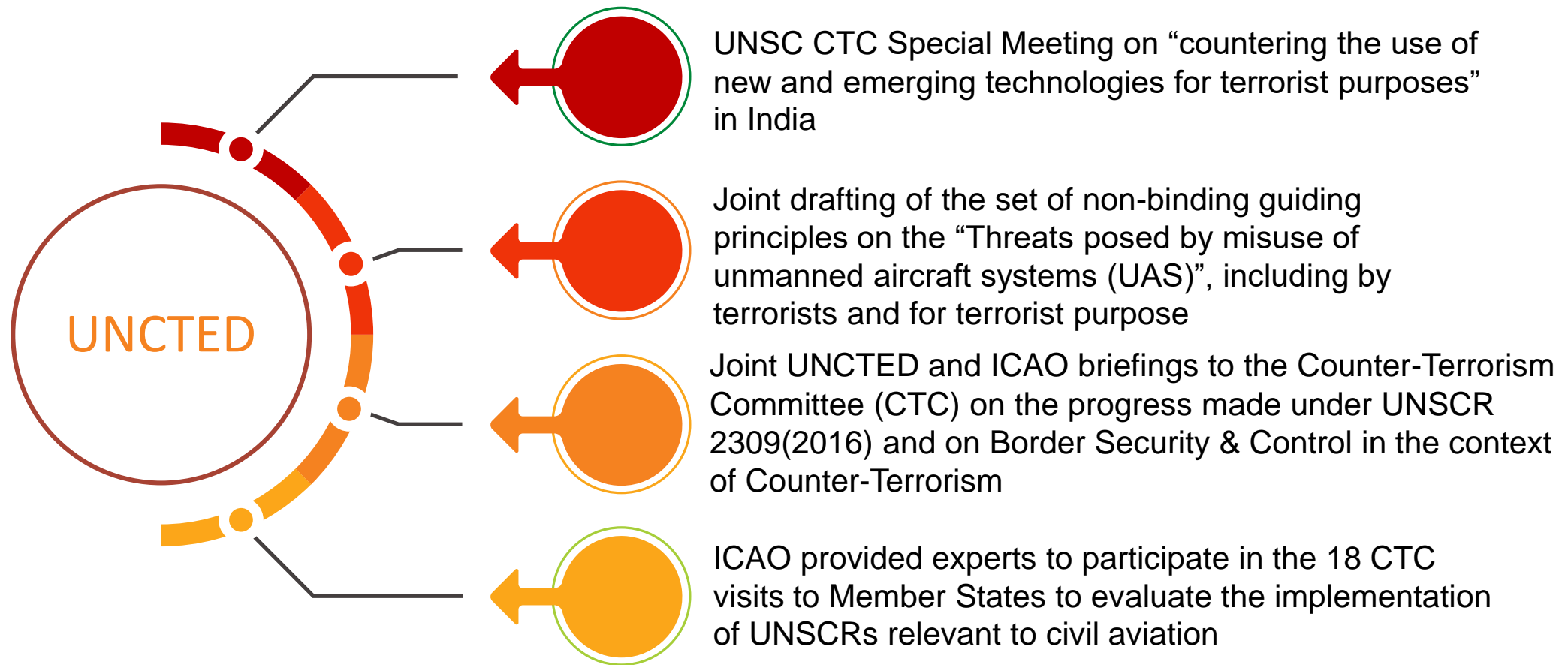
ICAO's Work on Aviation Cybersecurity – Capacity Building

- Foundations of Aviation Cybersecurity Leadership and Technical Management (with Embry-Riddle Aeronautical University). https://www.enrole.com/erau/jsp/course.jsp?categoryId=5586BD00&courseId=SGC-1102

- Aviation Cybersecurity Oversight (with UK CAAi) https://caainternational.com/course/icao-aviation-cybersecurity-oversight/

Implementation of United Nations Security Council Resolutions

Implementation of UNSC Resolutions

UNCTED

UNSC CTC Special Meeting on "countering the use of new and emerging technologies for terrorist purposes" in India

Joint drafting of the set of non-binding guiding principles on the "Threats posed by misuse of unmanned aircraft systems (UAS)", including by terrorists and for terrorist purpose

Joint UNCTED and ICAO briefings to the Counter-Terrorism Committee (CTC) on the progress made under UNSCR 2309(2016) and on Border Security & Control in the context of Counter-Terrorism

ICAO provided experts to participate in the 18 CTC visits to Member States to evaluate the implementation of UNSCRs relevant to civil aviation

Activities of the Implementation Support and Development - Security Programme

Introduction

Our mission is to assist Member States in their improvement in compliance with Annex 17

AVSEC Training Summary

- ICAO-Sponsored training on 35 Aviation Security Training Centres (ASTCs) (8 ASTCs in APAC)

- 376 Certified Instructors from 104 Member States

  (57 Instructors in APAC)

- 15 AVSEC Training Packages & Workshops

  (incl, virtual options)

- Support for AVSECP WG on Training – Technical Products (e.g. Security Culture)

- AVSEC Professional Management Course

  (2 AVSEC-PMCs in 2022, 4 AVSEC-PMCs scheduled/23)

ASTC Training Achievements in 2022

- **30** ICAO-sponsored AVSEC International training activities via ASTCs
  (45 activities scheduled/23)
- Benefitting **427** AVSEC specialists from **90** Member States
  (In APAC, **6** ICAO-sponsored activities, benefitting **95** AVSEC specialists from **17** Member States)
- ASTC Network collective effort: **35** ASTCs conducted **316** Regional AVSEC training sessions (4,656 participants) and **1,872** National AVSEC training sessions (74,185 participants)
  (In APAC, **8** ASTCs conducted **32** Regional AVSEC training sessions (564 participants) and **494** National AVSEC training sessions (15,142 participants)
- Annual Newsletters issued for ICAO Certified Instructors in Feb/22, Mar/23

New Training Materials – Insider Risk Workshop (roll-out in 2023, all languages)

ICAO Insider Risk Workshop (5 working day):

- Principles of risk management applied to insider threat scenarios
- Security countermeasures to mitigate the insider risk
- Practical exercises
- ICAO Pamphlet: Managing Insider Risks

ICAO Insider Threat Toolkit (released in Aug 2022):

- Insider threat mitigation measures and tools
- Supports a wider understanding of security culture and its evolution

www.icao.int/Security/Security-Culture/Pages/ICAO-Insider-Threat-Toolkit.aspx

New Training Materials –
AVSEC Behaviour Detection Course
(roll-out started in 2Q 2023, En)

- **ICAO Behaviour Detection Course (5 working day):**
  - Effective behaviour detection techniques
  - Methods in order to enhance overall protection against acts of unlawful interference

- **Upcoming schedule in APAC:**
  - 19-23 Nov in Bangladesh for CASP-AP Members

- **Translation scheduled in 2024**

AVSEC Technical Assistance Summary

- 13 States Actively Involved in Aviation Security Improvement Plans (ASIPs)

- ASIPs follow USAP-CMA Audit Results and CAPs

- Ad-hoc assistance and Partnership activities

- 84 ICAO HQ-Supported Aviation Security Assistance Activities in 2022

- ICAO Implementation Package (iPack-AVSEC)
  - Philippines in 2022 (Lao PDR and Pakistan in 2023)

- APAC Combined Action Team - AVSEC (CAT-AVSEC)
  - Timor-Leste in 2022 (Kiribati in 2023)

AVSEC Assistance Achievements in 2022

- In 2022, **84** ICAO HQ-supported AVSEC assistance activities, benefitting **1251** AVSEC specialists from **100** Member States

- Air Cargo and Mail Security Course (virtual) and Risk Management Workshop (virtual) through partnership with UNODC/WCO Container Control Programme (CCP):

  6 beneficiary States

- Cooperation with UNOCT on the Programme on Threat Assessment Models for Aviation Security (TAM Programme): **3** beneficiary States

- HQ support for:

- Cooperative Aviation Security Programmes in the Asia and Pacific and Middle East Regions (CASP-AP, CASP-MID)

- Comprehensive Regional Implementation Plan for Aviation Security and Facilitation in Africa (AFI SECFAL Plan)

- Regional Aviation Security and Facilitation Groups

Facilitation Presentation overview

01 Annex 9 – *Facilitation*

02 FAL Capacity Building - Training Courses

03 Key Concepts - ICAO TRIP Strategy

04 ICAO Traveller Identification Programme (TRIP) Strategy

05 Public Keys are Needed to Electronically Verify eMRTDs

06 Priorities and Outcomes per Trip Element For 2023-2025

ICAO

Annex 9 – *Facilitation*

- Amendment 29 to Annex 9, effective 18 Jul 2022 and applicable 18 Nov 2022

- Streamlining of Annex 9 SARPs by FALP WGA9

- New guidance material associated with health-related SARPs (Doc 9957)

- Ongoing collaboration between CAPSCA, WHO and the ATC TF-HIOA

- Implementation of FAL Stream Recommendations of HLCC 2021

- Assistance to Aircraft Accident Victims and their Families

- Accessibility in International Civil Aviation

FAL Capacity Building - Training Courses

ICAO Annex 9 - Facilitation

The ICAO Annex 9 – Facilitation is virtual classroom course that develops competencies relevant to staff from Civil Aviation Authorities (CAA) and border control authorities to deal collectively, in an inter-agency manner, with Annex 9's facilitation provisions.

Assistance to Aircraft Accident Victims and their Families

This course will provide CAA representatives, other government officials, aircraft and airport operators and non-governmental organization with the competencies to effectively support aircraft accident victims and their family assistance efforts, in accordance with ICAO Policy.

Visible Digital Seals for Travel-Related Public Health Proofs

This course provides State authorities with the competencies required to implement a national Visible Digital Seal for Non-Constrained Environments (VDS-NC) solution for travel health proof, in accordance with ICAO Doc 9303, Machine Readable Travel Documents, Parts 9-13.

Traveler Identification Programme (TRIP) Strategy

The course provides to the target audience the competencies to implement the five key elements of the ICAO TRIP strategy, ensuring interoperability and internal cooperation, in accordance with Annex 9.

Managing Air Transport Facilitation Course

In progress, the development of Managing Air Transport Facilitation Training Course. The course provides the target audience with the competencies required to develop a management system whereby the Coordinating Authority (ies) designated by the State is (are) able to coordinate the required national policy framework, coordinate Facilitation matters with relevant government agencies and other stakeholders and to assess the implementation of Annex 9 SARPs and create a national evaluation framework

Key Concepts - ICAO TRIP Strategy

Globally interoperable applications that provide for timely, secure and reliable linkage of MRTDs and their holders to relevant data in the course of inspection operations, e.g. API, PNR, SLTD

Credible evidence of identity, involving the tracing, linkage and verification of identity

EVIDENCE OF IDENTITY

INTEROPERABLE APPLICATIONS

MRTDs

IDENTIFICATION MANAGEMENT

INSPECTION SYSTEMS AND TOOLS

DOCUMENT ISSUANCE & CONTROL

Manufacture of standardized MRTDs, that comply with ICAO specifications (Doc 9303)

For the efficient and secure reading and verification of MRTDs, e.g. ABC, PKD

Processes for document issuance by appropriate authorities, and controls to prevent theft and loss

Objective: All Member States can uniquely identify individuals

ICAO Traveller Identification Programme (TRIP) Strategy

PRIORITIES AND OUTCOMES FOR 2023-2025

ALL TRIP ELEMENTS:
- Follow-up the level of implementation of the ICAO TRIP Roadmap: Compliance to Annex 9 SARPs
- Enhanced recognition of ICAO leadership on the ICAO TRIP Strategy
- Promotion and communication to States of the five elements of the ICAO TRIP Strategy
- TRIP-related Universal Security Audit Programme (USAP) audit questions

Public Keys are Needed to Electronically Verify eMRTDs

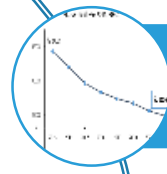**The ICAO Public Key Directory (PKD) makes it easier to share public keys internationally**

91 States participate globally

16 APAC States and **2** Non-State document issuing entities participate

The Case to Participate Continues to Grow

ICAO PKD
With the PKD

Without the PKD
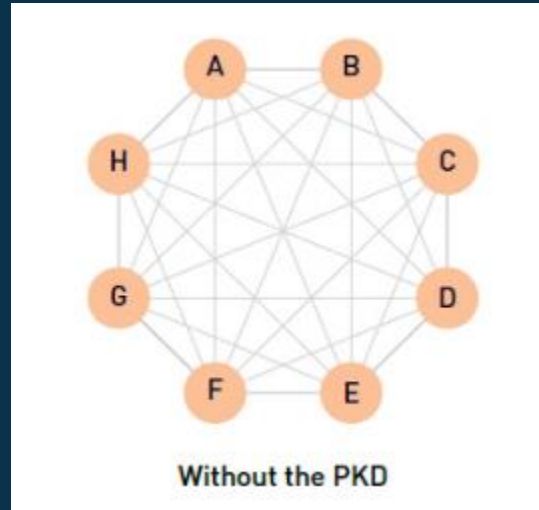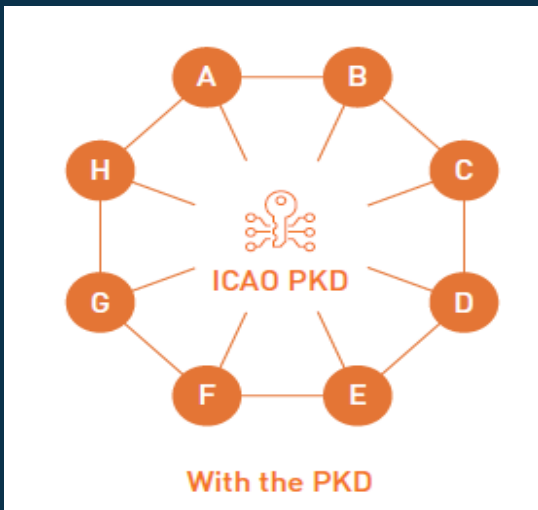
More electronic documents – ePassport, DTC, VDS etc.

More demand for seamless/contactless travel

More need for agility in capabilities (robustness to pandemics etc.)

Reduced fees

More data content, e.g. the ICAO Master List

Enhanced services and community sharing, e.g. the PKD Data Quality Coach initiative

PRIORITIES AND OUTCOMES PER TRIP ELEMENT FOR 2023-2025

Passenger Data exchange: Advance Passenger Information (API) and Passenger Name Record (PNR) data

Development of Best Practices and Guidance Material from Credible evidence of identity

- Innovation: VDS and DTC
- update of MRTDs specifications, & guidance material
- ePassport Standard Roadmap

Development of technological solutions aimed at enhancing security and facilitation of border controls while improving clearance procedures

- ICAO Doc 9303 Compliance Programme
- Guidance on DTC for integrated border operations