2nd Symposium on ICAO-Standard MRTDs, Biometrics and Security

WORLD AVIATION SECURITY AND MRTDs

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Overview

- Security Challenges in Aviation
- ICAO's Aviation Security (avsec) Framework and Programmes
- Identity and Biometrics in Aviation Security
- Integrated Security

Main Themes

- A robust ICAO aviation security framework is in place but needs to evolve

- Personal identity is becoming increasingly important in aviation security

- The importance of integrated approaches to security in civil aviation

Security Challenges in Aviation

☀ Security issues converge in civil aviation

➢ Security of people at airports/on aircraft and property

➢ Aviation security

➢ Border security

➢ National security

➢ International security

ICAO's Aviation Security Framework and Programmes

☀ Prevention of unlawful interference with civil aviation

☀ Annex 17 – Security

  ➢ 1st Edition February 1975

  ➢ 8th Edition July 1, 2006 (11 amendments)

  ➢ Currently 95 specifications

    ☀ 74 Standards

    ☀ 21 Recommended Practices

ICAO's Aviation Security Framework and Programmes

☀ Annex 17 – Security

➢ General principles

☀ Objectives

☀ Applicability

☀ Security and facilitation

☀ International cooperation

☀ Equipment research and development

ICAO's Aviation Security Framework and Programmes

* Annex 17 – Security
  * Organization
    * National organization and appropriate authority
    * Airport operations
    * Aircraft operators
    * Quality control

ICAO's Aviation Security Framework and Programmes

☀ Annex 17 – Security

- ➤ Preventive Security Measures
  - ☀ Access control
  - ☀ Aircraft
  - ☀ Passengers and cabin baggage
  - ☀ Hold baggage
  - ☀ Cargo, mail and other goods
  - ☀ Special categories of passengers

ICAO's Aviation Security Framework and Programmes

☀ Annex 17 – Security

➢ Management of Response to Acts of Unlawful interference

☀ Prevention

☀ Response

ICAO's Aviation Security Framework and Programmes

☀ ICAO Security Manual

➢ Guidance material on implementation of Annex 17 specifications

ICAO's Aviation Security Framework and Programmes

☀ Security-related specifications in nine other Annexes

  ➤ Annex 2 – Rules of the Air

  ➤ Annex 6 – Operation of Aircraft

  ➤ Annex 8 – Airworthiness of Aircraft

  ➤ Annex 9 – Facilitation

  ➤ Annex 10 – Aeronautical Telecommunications

  ➤ Annex 11 – Air Traffic Services

  ➤ Annex 13 – Aircraft Accident and Incident Investigation

  ➤ Annex 14 – Aerodromes

  ➤ Annex 18 – The Safe Transportation of Dangerous Goods By Air

ICAO's Aviation Security Framework and Programmes

☀ **Universal Security Audit Programme**

  ➢ Established by ICAO in aftermath of 9/11

  ➢ Focus is Annex 17 implementation

    ☀ National level

    ☀ Airport level

  ➢ Structured, rigorous, confidential

  ➢ Feedback to States, feedback to ICAO

ICAO's Aviation Security Framework and Programmes

* Coordinated Assistance and Development Programme
  * Provision of assistance to enhance States' aviation security systems and facilitation capabilities
  * Training programmes to build States' avsec capacity
  * Seminars to increase knowledge, exchange best practice information, etc.

Identity and Biometrics in Aviation Security

☀ Traditional threats

  ➢ Traditional avsec measures

☀ New and emerging threats

  ➢ Shift in focus to workers' and passengers' identity and identity integrity

☀ Legal, technical and operational considerations

Identity and Biometrics in Aviation Security

☀ Challenge: Harmonized and reliable identification documents for international crew members

☀ ICAO's response: Annex 17 Recommendation 4.2.7 promotes use of Doc 9303, MRTD specifications for crew identity documents

Identity and Biometrics in Aviation Security

- Challenge: Confidence in the security of aviation workers accessing restricted areas at Canadian airports

- Canada's response: Restricted Area Identification Card (RAIC)

Identity and Biometrics in Aviation Security

- Canada's Restricted Area Identification Card (RAIC)
  - Real time verification
    - Fingerprint or iris for authorized access to restricted areas based on need and security background check
    - Facial photo for confirmation
  - Single airport or multi-airport capable
  - Significant national aviation security enhancement

Identity and Biometrics in Aviation Security

☀ Canada's Restricted Area Identification Card (RAIC)

- ➤ Airport authorities manage access control
- ➤ Canadian Air Transport Security Authority manages identity verification
- ➤ Transport Canada manages background checks and regulatory oversight

Identity and Biometrics
in Aviation Security

☀ Challenge: Prevent boarding of passengers who are considered a threat

☀ Response: Data matching

➢ U.S.: No Fly Program

➢ Canada: Passenger Protect Program

Identity and Biometrics in Aviation Security

- ☀ Resolution of false positive results
  - ➢ Accuracy
  - ➢ Timely response
- ☀ Could biometrics and MRTDs play a role?

Identity and Biometrics in Aviation Security

☀ Challenge: How to make the best use of available resources for screening passengers?

☀ Response: Different screening approaches for passengers based on risk assessment

Identity and Biometrics in Aviation Security

* Expedited screening of passengers who have successfully completed a security process before arrival at the airport

* Biometrics enable positive identification verification

* Could MRTDs play a role?

Integrated Security

☀ Threats are complex

☀ Resources are finite

☀ Security and facilitation are in delicate balance

☀ Solutions require an integrated and multidisciplinary systems approach

☀ Integration is key theme of Canada's National Security Policy

➢ www.pco-bcp.gc.ca

Integrated Security

☀ICAO's leadership role

  ➤Manage the security and facilitation balance

  ➤Promote interdisciplinary dialogue

  ➤Seek opportunities for integrated approaches to today's and tomorrow's security challenges

Integrated Security

☀️ ICAO's leadership role

➤ At the global level, what opportunities are there to enhance security and facilitation through integrated approaches to security?