INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY

Eleventh North American, Central American and Caribbean Directors of Civil Aviation Meeting (NACC/DCA/11)
P/09 Agenda Item 5
Aviation Security and Cybersecurity policy developments
Presented by the Secretariat

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Presentation overview

01 Annex 17 – *Aviation Security* Amendment 18

02 Global Aviation Security Plan

03 41st Session of the Assembly – Aviation Security

04 Cybersecurity activities

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Annex 17 – *Aviation Security*
Amendment 18

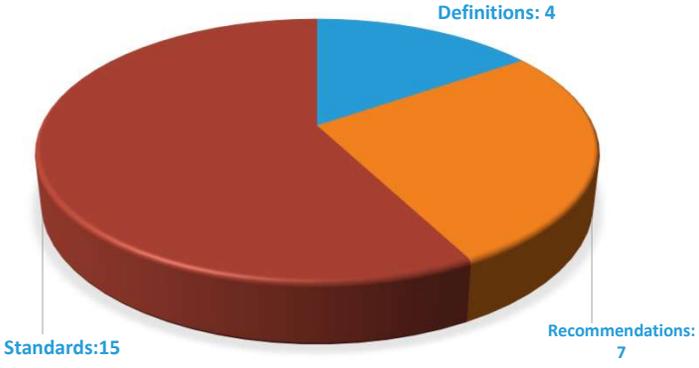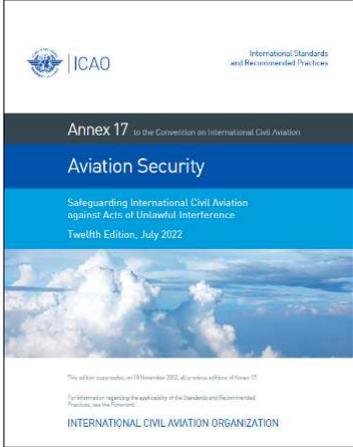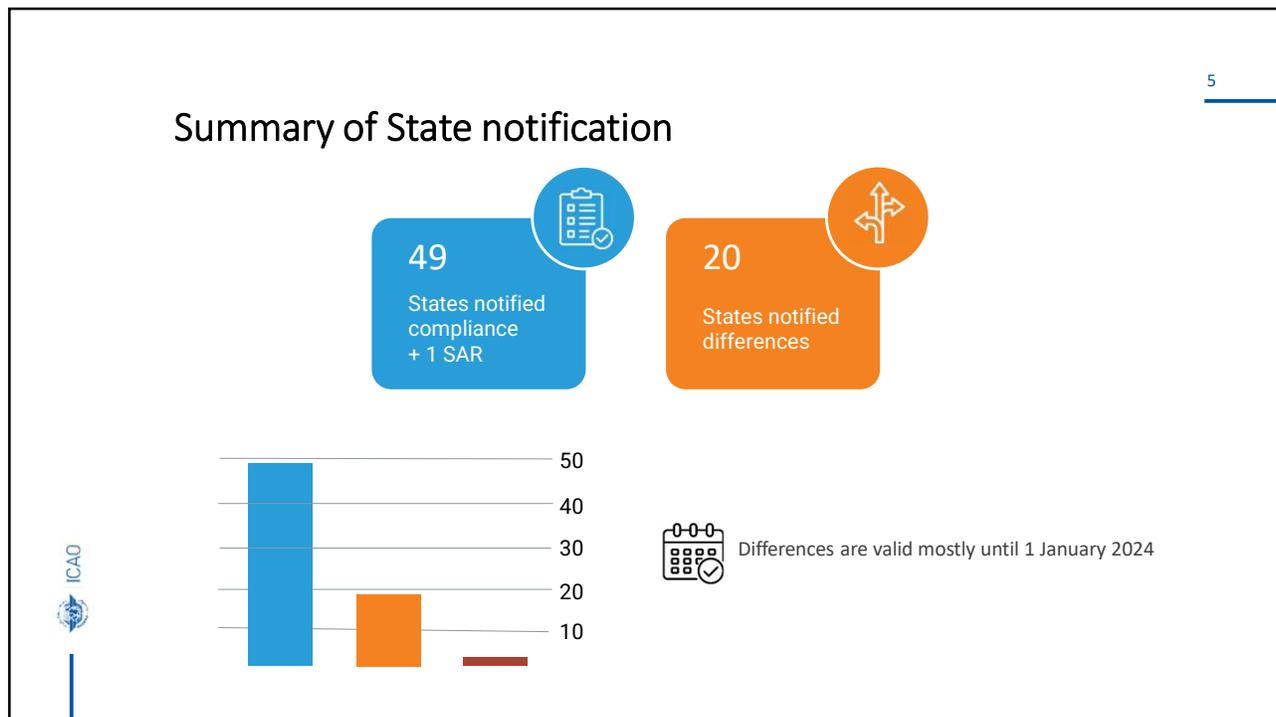ICAO

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Amendment 18 Annex 17

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Annex 17 to the Convention on International Civil Aviation

Aviation Security

Safeguarding International Civil Aviation against Acts of Unlawful Interference

Twelfth Edition, July 2022

International Standards and Recommended Practices

This edition supersedes, on 18 November 2022, all previous editions of Annex 17.

For information regarding the applicability of the Standards and Recommended Practices, see the Foreword.

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Definitions: 4

Recommendations: 7

Standards:15

4

Summary of State notification

49
States notified
compliance
+ 1 SAR

20
States notified
differences

Differences are valid mostly until 1 January 2024

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When will guidance be available ?

- Some new/revised guidance was made available on June 2022.

- 13th Edition of the ICAO *Aviation Security Manual* (Doc 8973 - Restricted) is published in all languages.

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AVSEC - Global Aviation Security Plan

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Global Aviation Security Plan (GASeP)

Roadmap

Priority Outcome 1
Enhancing risk awareness + response

Priority Outcome 2
Security Culture

Priority Outcome 3
Improve technological resources and foster innovation

Priority Outcome 4
Improve oversight + Quality assurance

Priority Outcome 5
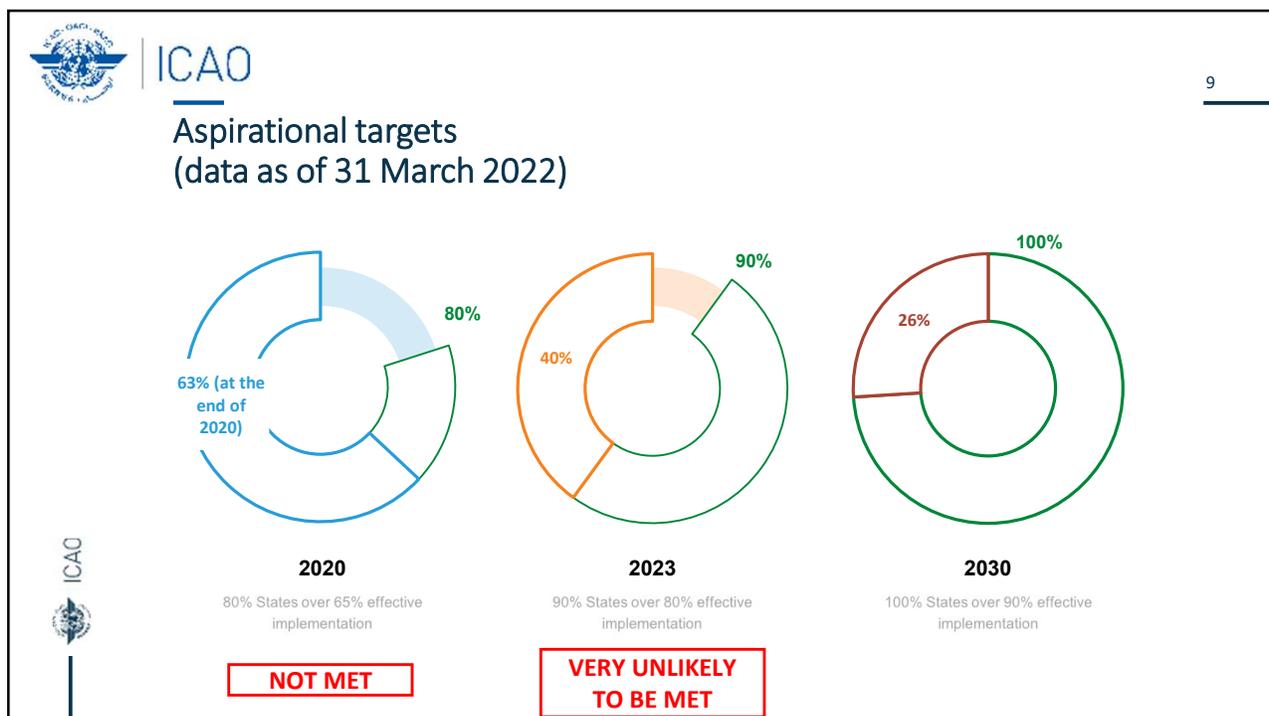Increase cooperation + support

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Doc 10118

Global Aviation Security Plan

First Edition, 2017

INTERNATIONAL CIVIL AVIATION ORGANIZATION

22/06/2023

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Aspirational targets
(data as of 31 March 2022)

80%

63% (at the
end of
2020)

90%

40%

100%

26%

2020

80% States over 65% effective
implementation

2023

90% States over 80% effective
implementation

2030

100% States over 90% effective
implementation

NOT MET

**VERY UNLIKELY
TO BE MET**

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Evaluation of the GASeP

Some key findings include:

The recent 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
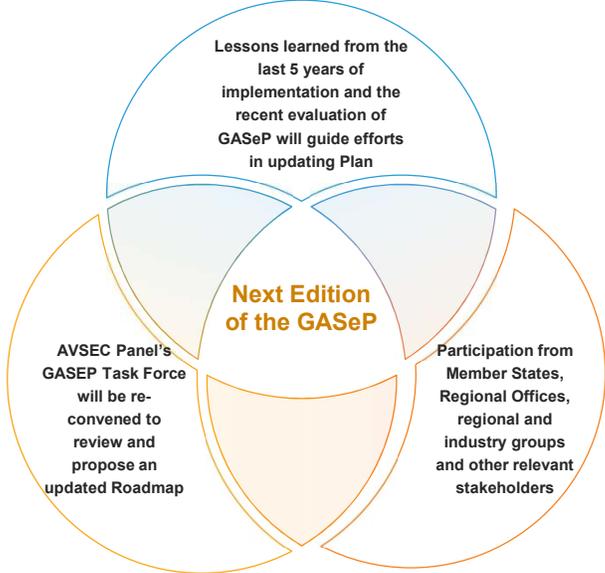efforts in preparing for the first
revision of the Plan.

☑ 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

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Updating the GASeP

Main review areas (as indicated by A41)

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- Aspirational targets
- Roadmap
- Monitoring and reporting processes

Lessons learned from the last 5 years of implementation and the recent evaluation of GASeP will guide efforts in updating Plan

Next Edition of the GASeP

AVSEC Panel's GASEP Task Force will be re-convened to review and propose an updated Roadmap

Participation from Member States, Regional Offices, regional and industry groups and other relevant stakeholders

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TF-GASEP

VIRTUAL MEETING
Dec 22

REPORTING AVSECP/34
May 23

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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 version in mid-2023 for wider consultation (States and Regions)

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Key conclusions Aviation Security

41st Assembly

Pandemic — Lessons learned from the pandemic and the recovery phases

Revision Plan, Roadmap, aspirational targets — **GASeP**

Human Factors — YOSC, Security culture, Insider threat

Strengthened ICAO's leadership — **UN strategy**

AVSEC within ICAO — Core tenet and functional compenent

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Aviation Cybersecurity activities

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ICAO's Work on Aviation Cybersecurity – International Legal Instruments

- The Beijing Convention (2010)

- The Beijing Protocol (2010)

Governments' Adoption of the Beijing Instruments is an Important
DETERRENT of Cyber-Attacks
Against Civil Aviation

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ICAO's Work on Aviation Cybersecurity – SARPS
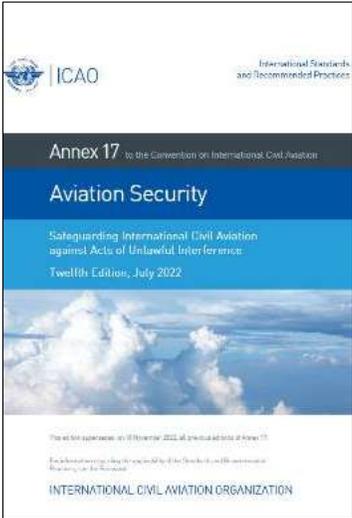
Annex 17 to the Chicago Convention – *Aviation Security*
Standard 4.9.1

- Each Contracting State shall ensure that operators or entities as defined in the national civil aviation security programme or other relevant national documentation identify their critical information and communications technology systems and data used for civil aviation purposes and, in accordance with a risk assessment, develop and implement, as appropriate, measures to protect them from unlawful interference

Recommended Practice 4.9.2

- Recommendation— *Each Contracting State should ensure that the measures implemented protect, as appropriate, the confidentiality, integrity and availability of the identified critical systems and/or data. The measures should include, inter alia, security by design, supply chain security, network separation, and the protection and/or limitation of any remote access capabilities, as appropriate and in accordance with the risk assessment carried out by its relevant national authorities*

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The Aviation Cybersecurity Strategy

17
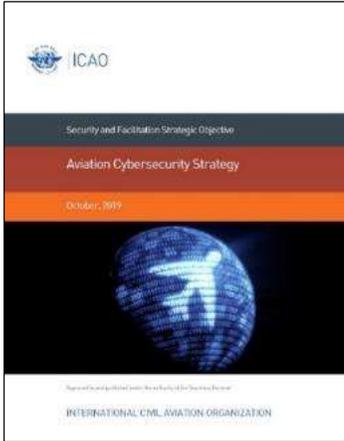
International Cooperation

Governance

Effective Legislation & Regulations

Cybersecurity Policy

Information Sharing

Incident Management & Emergency Planning
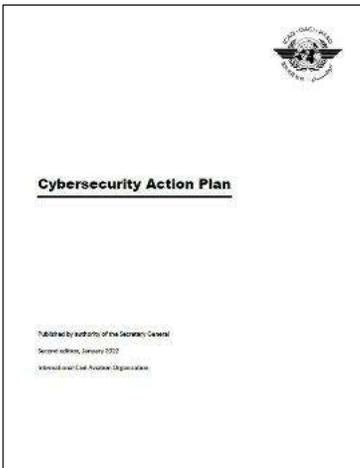
Capacity Building, Training, & Cybersecurity Culture

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

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The Cybersecurity Action Plan

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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 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

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Key conclusions Aviation Cybersecurity

41st Assembly

ICAO 41st Session 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
  - ✓ encourage government/industry coordination with regard to aviation cybersecurity strategies, policies, and plans, as well as sharing of information to help identify critical vulnerabilities that need to be addressed
  - ✓ develop and participate in government/industry partnerships and mechanisms, nationally and internationally, for the systematic sharing of information on cyber threats, incidents, trends and mitigation efforts
  - ✓ design and implement a robust cybersecurity culture across the civil aviation sector

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Thank You

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