



| ICAO

SECURITY & FACILITATION

Global Developments in Aviation Security and Facilitation

Boubacar Djibo

Director, Air Transport Bureau

DGCA/6, Brazzaville, Congo
2-4 November 2016





Security and Facilitation:

Enhance global civil aviation security and facilitation

This Strategic Objective reflects the need for ICAO's leadership in aviation security, facilitation and related border security matters.

Sûreté et facilitation

Renforcer la sûreté et la facilitation de l'aviation civile à l'échelle mondiale.

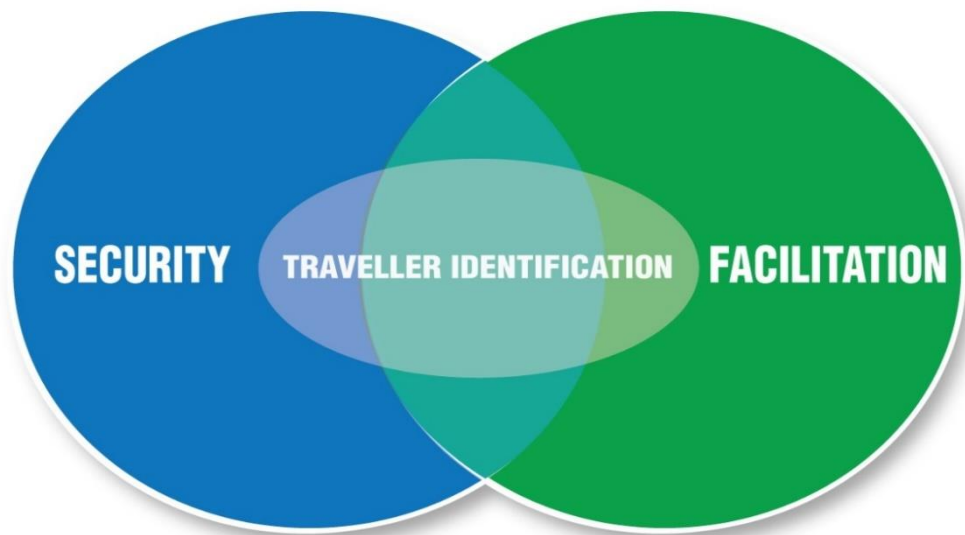
Cet Objectif stratégique reflète la nécessité du rôle de chef de file de l'OACI en matière de sûreté de l'aviation, de facilitation et pour toutes les questions liées à la sûreté des frontières.



ICAO STRATEGIC OBJECTIVE: **Security and Facilitation**

- Enhance global civil aviation security and facilitation
- Reflect the need for ICAO's leadership in aviation security, facilitation and related border control matters
 - SECURITY: minimize the number of incidents of unlawful interference and other security-related events with civil aviation, ensure appropriate responses when incidents occur, and reduce aviation security and border integrity risks
 - FACILITATION: maximize efficiency in border control management and other airport processes to expedite clearance and prevent unnecessary delays, resulting in promoting trade, tourism and economic development

- This Strategic Objective reflects the need for ICAO's leadership in aviation security, facilitation and related border security matters





ICAO

SECURITY & FACILITATION

Balancing Security and Facilitation

Improving

Efficient operations

SECURITY

- Policy development
- Audit
- Training/assistance



FACILITATION

- SARPs
- Guidance
- Assistance

- MRTD
- PKD

Balance



Annex 17: Security (AVSEC)

- Lead and support global efforts to establish sustainable civil aviation security regimes and oversight systems to:
 - prevent unlawful interference with civil aviation;
 - respond effectively to attacks and attempted attacks; and
 - assure the safe and efficient movement of people and goods

“Provide **technical assistance to States** in need, including funding, capacity building and technology transfer to effectively address security threats to civil aviation, in cooperation with other States, international organizations and industry partners.”

37th ICAO Assembly, Montreal, October 2010





| ICAO

SECURITY & FACILITATION

Annex 9: Facilitation (FAL)

*Facilitation is the efficient management of (customs, immigration, health and quarantine) **border control** processes, to expedite clearance (of **aircraft, passengers/crew, baggage and cargo**) and to prevent unnecessary delays*

- Maintain stability of supply chain
- Support economic growth
- Enable sustainable development of air transport
- Maintain security and flight safety

Annex 9 to the Chicago Convention

- facilitation of landside formalities for clearance of aircraft, passengers, goods and mail
- requirements of customs, immigration, public health and agriculture authorities



Security and Facilitation: A39 Resolutions

A39-18 Consolidated statement of continuing ICAO policies related to aviation security

A39-18 Exposé récapitulatif de la politique permanente de l'OACI relative à la sûreté de l'aviation

A39-19 Addressing Cybersecurity in Civil Aviation

A39-19: Cybersécurité dans l'aviation civile

A39-20 Consolidated statement of continuing ICAO policies related to facilitation

A39-20 : Exposé récapitulatif de la politique permanente et des pratiques de l'OACI liées à la facilitation



| ICAO

SECURITY & FACILITATION

ICAO and the UN Security Council

Agreement between the United Nations and the International Civil Aviation Organization (13 May 1947)

Article VII: Assistance to the Security Council

The **International Civil Aviation Organization** agrees to co-operate with the **Economic and Social Council** in furnishing such information and rendering such assistance to the **Security Council** as that Council may request, including *assistance in carrying out decisions of the Security Council for the maintenance or restoration of international peace and security*

UNSC Resolution 2178 (2014)

- “Reaffirms that all States shall prevent the movement of terrorists or terrorist groups by effective border controls and controls on issuance of identity papers and travel documents, and through measures for preventing counterfeiting, forgery or fraudulent use of identity papers and travel documents...”
- “9. *Calls upon* Member States to require that airlines operating in their territories provide advance passenger information (API) to the appropriate national authorities in order to detect the departure from their territories, or attempted entry into or transit through their territories, by means of civil aircraft, of individuals designated by the Committee established pursuant to resolutions 1267 (1999) and 1989 (2011).”

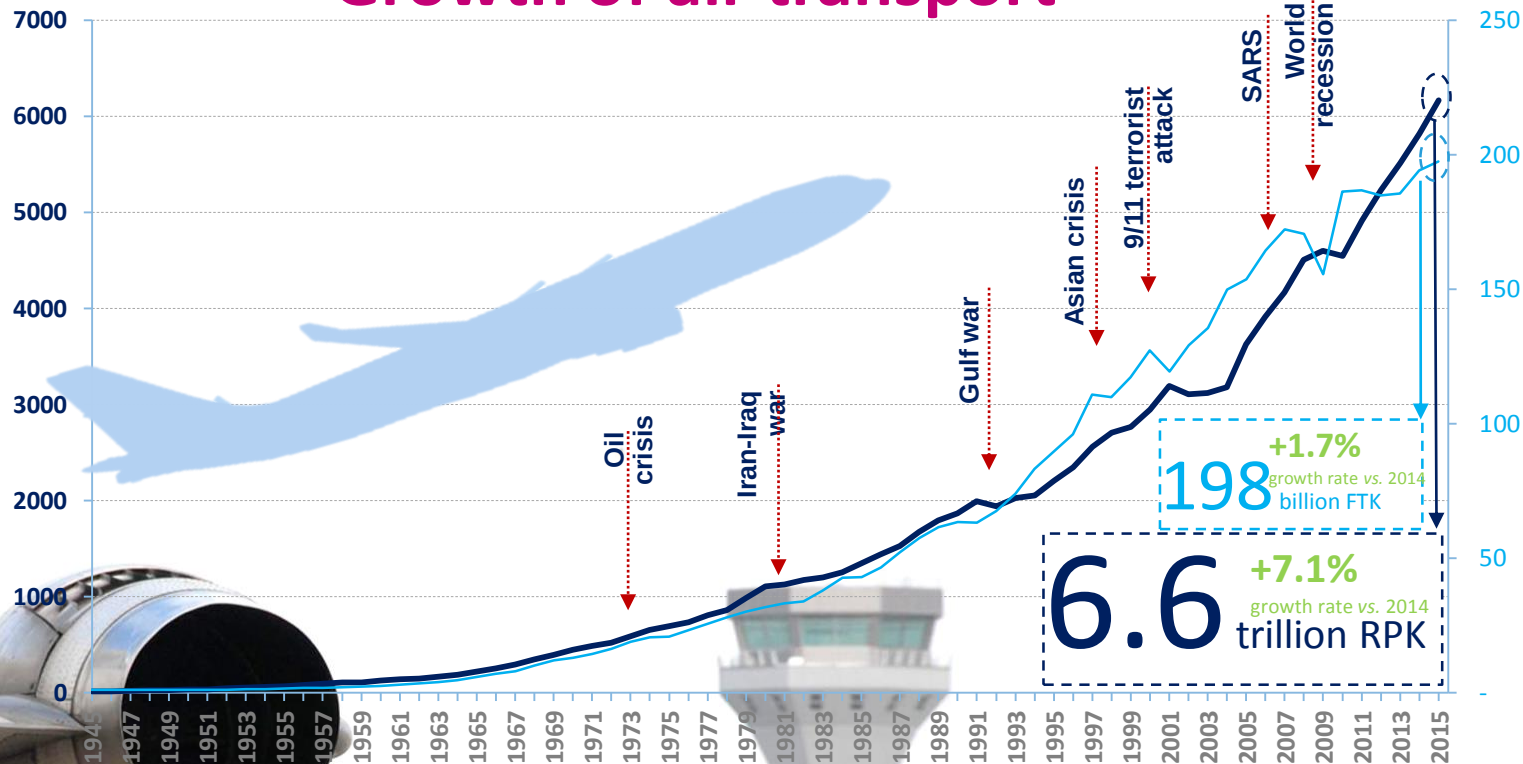


UNSC Resolution 2309 (2016)

- During a ministerial meeting held on 22 September 2016, on countering the ongoing danger posed by terrorism to civil aviation, the Security Council this morning called on all States to work with each other and the International Civil Aviation Organization (ICAO) to continuously adapt measures to meet that “**ever-evolving global threat**”.

Growth of air transport

Revenue Passenger-Kilometres
(billion)



Freight Tonne-Kilometres
(billion)



- ✈ **40 million flights**
- ✈ **3.5 billion passengers**
- ✈ **51 million tonnes of freight**
- ✈ **Over 1 400 scheduled airlines**
- ✈ **More than 27 000 aircraft**
- ✈ **More than 4 130 airports**
- ✈ **173 air navigation centres**

Traffic is for scheduled services

Air route network 2015



ICAO and the United Nations

Sustainable Development Goals (SDGs)

Read more at: <http://www.icao.int/about-icao/aviation-development/Pages/SDG.aspx>

ICAO STRATEGIC OBJECTIVES

		SAFETY	CAP/EFF	SEC/FAL	ECON DEV	ENV
Goal 1	End poverty in all its forms everywhere					
Goal 2	End hunger, achieve food security and improved nutrition and promote sustainable agriculture					
Goal 3	Ensure healthy lives and promote well-being for all at all ages					
Goal 4	Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all					
Goal 5	Achieve gender equality and empower all women and girls					
Goal 6	Ensure availability and sustainable management of water and sanitation for all					
Goal 7	Ensure access to affordable, reliable, sustainable and modern energy for all					
Goal 8	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all					
Goal 9	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation					
Goal 10	Reduce inequality within and among countries					
Goal 11	Make cities and human settlements inclusive, safe, resilient and sustainable					
Goal 12	Ensure sustainable consumption and production patterns					
Goal 13	Take urgent action to combat climate change and its impacts					
Goal 14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development					
Goal 15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss					
Goal 16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels					
Goal 17	Strengthen the means of implementation and revitalize the global partnership for sustainable development					

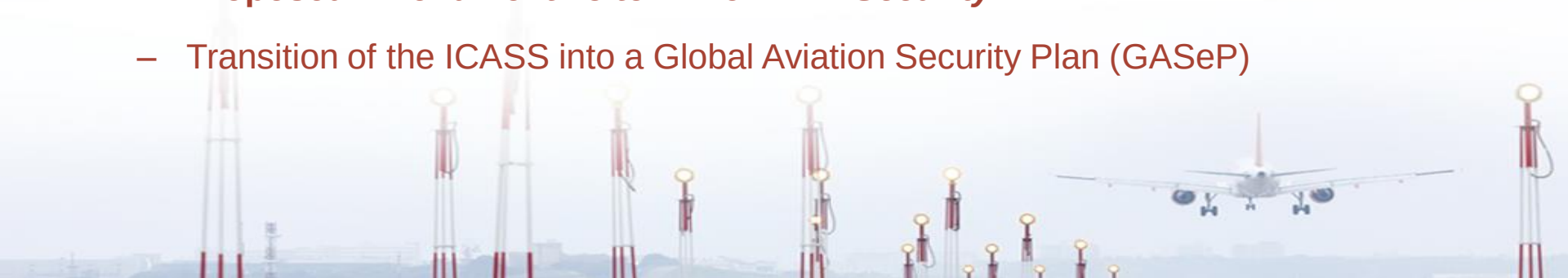


ICAO

SECURITY & FACILITATION

Aviation Security Policy

- Aviation Security Panel (AVSECP/27) - Montréal, 14 to 18 March 2016
 - Implications of MH17, Germanwings 9525, Metrojet 9268 and Daallo Airlines 159
 - Emerging risks areas (cybersecurity, RPAS)
 - **Proposed Amendment 15 to Annex 17 – Security**
 - Transition of the ICASS into a Global Aviation Security Plan (GASeP)





Aviation Security Policy (cont'd)

- Proposed amendment 15 to Annex 17 — *Security*
 - Presented to Council for adoption during its 209th Session in November 2016
 - Envisaged to become applicable in July 2017
 - New/reviewed provisions on behavioural detection, innovation in aviation security, Man-Portable Air Defence Systems (MANPADS), risk assessments, cybersecurity and landside security
 - Existing recommended Practices on landside security will be elevated to Standards
 - Reminder: comments on State letter AS 8/2.1-16/58 had to reach the Secretariat by 9 September 2016



ICAO

SECURITY & FACILITATION

Aviation Security Policy (cont'd)

- Outcomes of the 39th Session of the ICAO Assembly
 - *Consolidated Statement on Continuing ICAO Policies Related to Aviation Security* adopted as **Resolution A39-18**
 - **Resolution A39-19** reflects a cross-cutting, horizontal approach on *Addressing Cybersecurity in Civil Aviation*
 - **ICASS** extended until GAsEP approval for implementation; request for an accelerated development of **GAsEP**



ICAO

SECURITY & FACILITATION

Aviation Security Policy

- Outcomes of the 39th Session of the ICAO Assembly (cont'd)
 - **Resolution A39-38** on the *Comprehensive Regional Implementation Plan for Aviation Security and Facilitation in Africa*
 - broad support of the recent **United Nations (UN) Security Council Resolution 2309 (2016)**, on Aviation Security



USAP-CMA

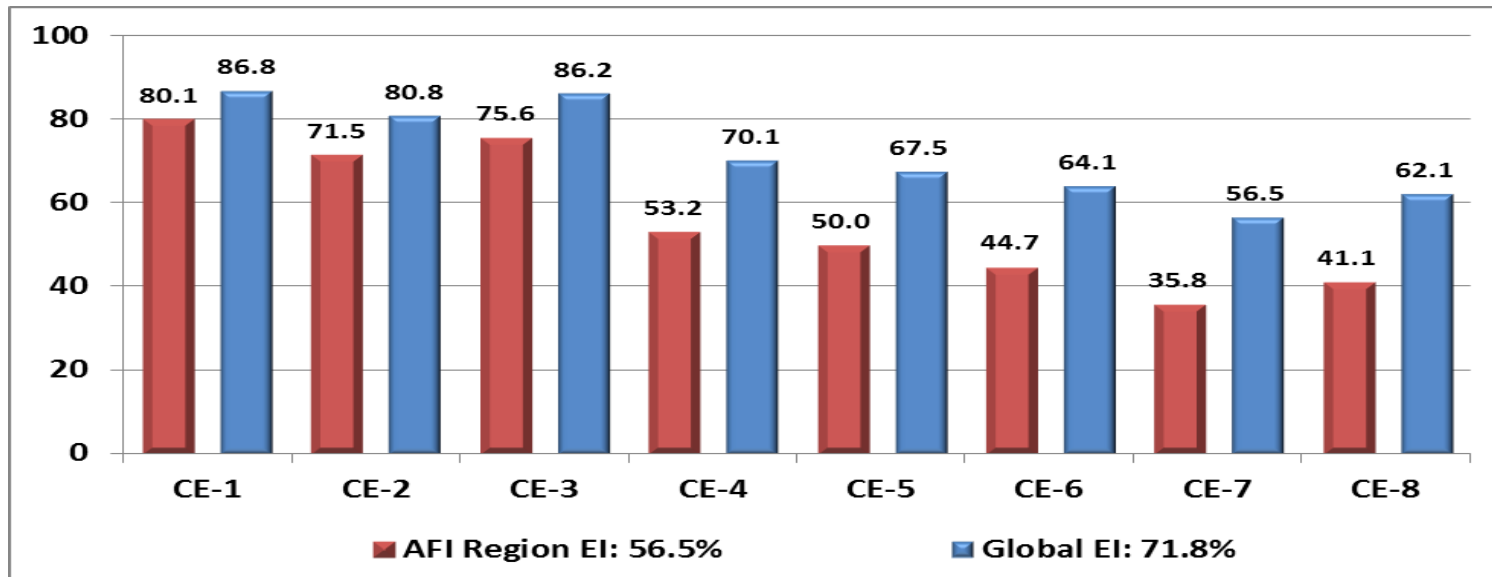
- Activities to date (15 October 2016)
 - 45 audits
 - 3 validation missions to evaluate the resolution of Significant Security Concerns (SSeCs)
 - 5 audits planned in the remainder of 2016
 - AFI Region: 12 States audited under the USAP-CMA so far



ICAO

SECURITY & FACILITATION

USAP-CMA results



EI: Effective Implementation of the Critical Elements of a State's Aviation Security Oversight system

*Includes results from both cycle II and USAP-CMA audits



ICAO

SECURITY & FACILITATION

Implementation Support and Development

- Assistance
 - 21 States are actively engaged in the implementation of an Aviation Security Implementation Plan (ASIP), including 11 States in the AFI Region
 - ASIPs completed in 7 African States
 - 4 ASIPs on hold
 - In addition: 9 States provided with direct assistance



| ICAO

SECURITY & FACILITATION

Implementation Support and Development

- Assistance (Cont'd)
 - Support to various regional aviation security (AVSEC) initiatives
 - Comprehensive Regional Implementation Plan for Aviation Security and Facilitation in Africa (AFI SECFAL Plan)
 - Memorandum of Understanding (MoU) with Airports Council International (ACI)
 - Airport Excellence (APEX) in Security Programme (23/02/2016)



ICAO

SECURITY & FACILITATION

Implementation Support and Development

- Training
 - 31 Aviation Security Training Centres (ASTCs); recently endorsed:
 - Dublin International Aviation Training Academy (Ireland)
 - Jeddah Saudi Academy of Civil Aviation (Saudi Arabia)
 - 2015: 40 ICAO-sponsored training events offered throughout the ASTC network
 - 521 AVSEC personnel / 105 States
 - As of 30 September 2016, 27 training events offered throughout the ASTC network
 - 392 AVSEC personnel / 77 States



Implementation Support and Development

- Training (Cont'd)
 - Redevelopment of the ICAO AVSEC Instructors certification process:
 - Two-phase blended approach
 - Re-certification process for the existing cadre of ICAO Aviation Security Instructors:
 - new on-line platform
 - “official” continued endorsement from the State’s appropriate authority required.
 - Validity of certification: 3 years



ICAO

SECURITY & FACILITATION

Implementation Support and Development

- Training (Cont'd)

- Update of ASTPs:

- Basic
 - Supervisors
 - Air Cargo
 - Mail Security
 - National Inspectors

- Update of workshops:

- National Civil Aviation Security Programme (NCASP)
 - Risk Management

- discontinuation:

- Management ASTP

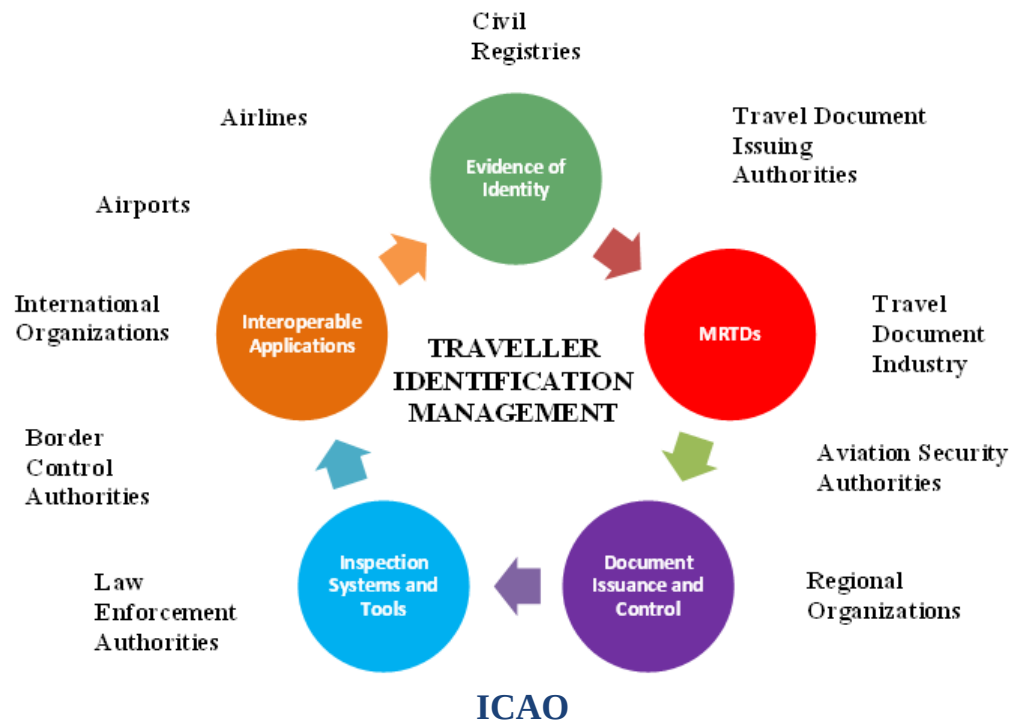
Traveller identification (TRIP) strategy

- Holistic approach to identification management and travel documents
- Applicable to all mode of transports and borders



- Integrates MRTDs, PKD and other elements of traveller identification management
- Approved by the 38th Session of the ICAO Assembly

Holistic approach to identification management





- MTRD
- API
- PNR
- PKD
- “Watch lists” Bilateral and multilateral exchanges
- “Trusted” or “expedited” travellers
- INTERPOL Data Bases



ICAO

SECURITY & FACILITATION

54 ICAO PKD Participants

54 PKD Participants and ePassports issuing States

Legend

- PKD Participants
- States issuing ePassports
- States issuing MRPs

Argentina	China	Iran (Islamic Republic of)	Morocco	Russian Federation	Ukraine
Australia	Czech Republic	Ireland	Netherlands	Seychelles	United Arab Emirates
Austria	Finland	Japan	New Zealand	Singapore	United Kingdom
Belgium	France	Kazakhstan	Nigeria	Slovakia	United Nations
Benin	Georgia	Kuwait	Norway	Spain	United States
Botswana	Germany	Latvia	Philippines	Sweden	Uzbekistan
Brazil	Hong Kong (China)	Luxembourg	Qatar	Switzerland	
Bulgaria	Hungary	Macao (China)	Republic of Korea	Thailand	
Canada	Iceland	Malaysia	Republic of Moldova	Turkey	
Colombia	India		Romania		



Part 2 - Visa

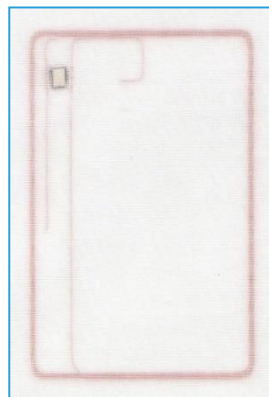


Part 3 - Official Travel Document

Doc 9303

ISO : SC17 WG3

ISO/IEC 7501

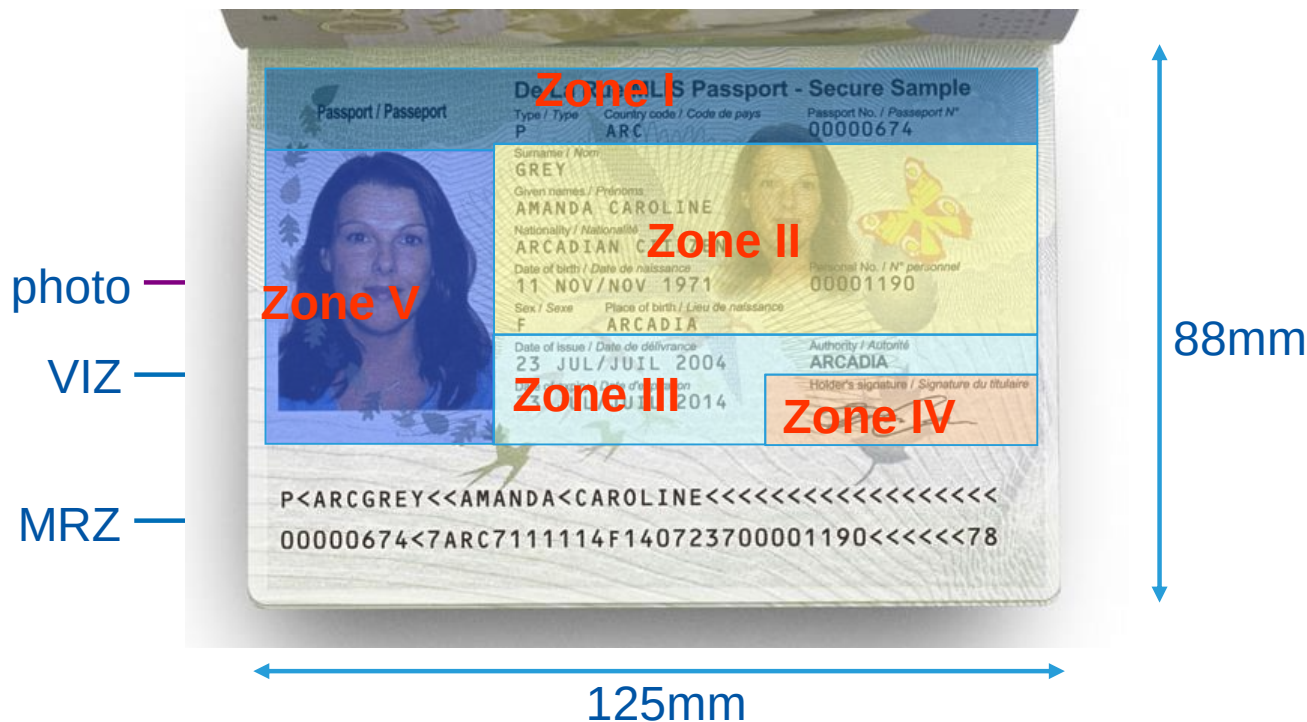


Contactless Chip



Part 1 – Passport ePassport

SECURITY & FACILITATION



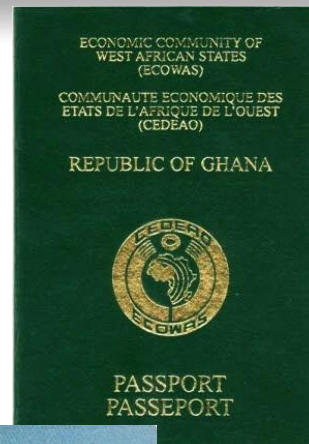
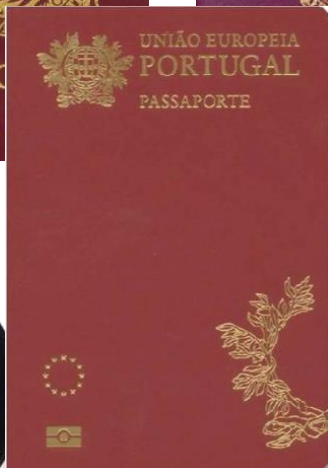
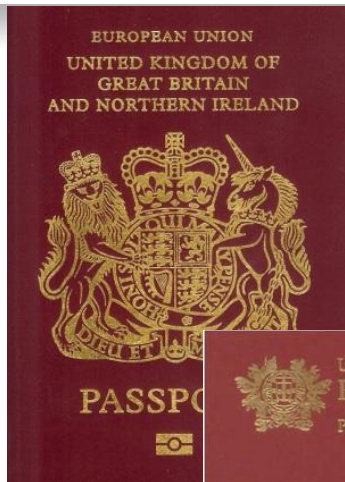


ICAO TRIP Global Implementation

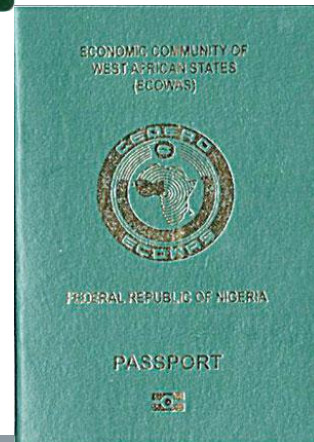
- Regional Organizations and Initiatives
- UN Family



Regional Initiatives



ECOWAS -
CEDEAO



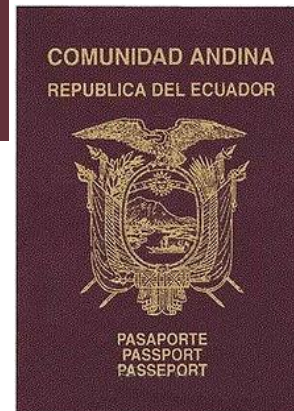
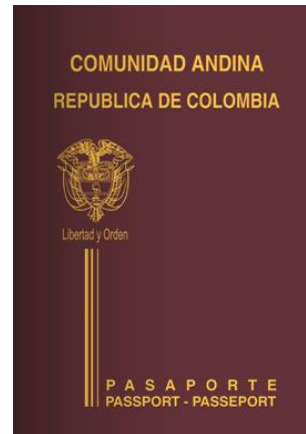
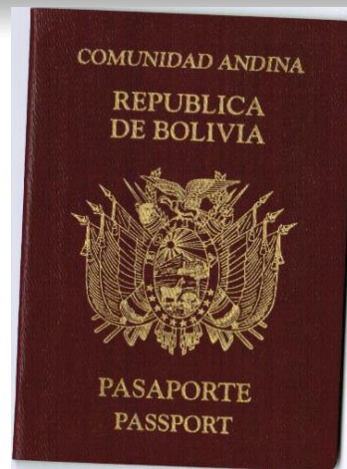
European Union



ICAO

SECURITY & FACILITATION

Regional Initiatives



Mercosur

Andean Community



| ICAO

SECURITY & FACILITATION





ICAO

SECURITY & FACILITATION

Moving Air Cargo Globally

The purpose of this publication is to promote awareness of the air cargo and mail supply chain, with an emphasis on the related security and facilitation procedures developed by the International Civil Aviation Organization (ICAO), the World Customs Organization (WCO), the Universal Postal Union (UPU) and also the United Nations Office on Drugs and Crime (UNODC).

The intent is to provide a better understanding of supply chain security for those who work in the cargo field, and more broadly, anyone who might benefit from knowing more about international air cargo and mail security standards.

This document familiarizes readers with the roles and responsibilities of all entities involved in the transport of cargo and mail by air. It covers the various operational aspects, security factors, facilitation processes and documentation of that supply chain.

The reader will gain an understanding of the applicable regulatory frameworks and efforts made by International Organizations and their members to support information sharing and continued development of a secure air cargo industry. These provisions and activities enhance the movement of goods by promoting effective end-to-end supply chain security.



ICAO

SECURITY & FACILITATION

International Civil Aviation Organization
999 Robert-Bourassa Boulevard
Montreal, QC, Canada
H3C 5H7

Email: asf@icao.int
Email: aircargos@icao.int
Tel.: +1 514-954-8013
Fax: +1 514-954-4077

www.icao.int/security/aircargo



WORLD CUSTOMS ORGANIZATION

World Customs Organization
Rue du Marché, 32
B-1210 Brussels,
Belgium

Email: information@wcoomd.org
Tel.: +32 (0) 201 92 11
Fax: +32 (0) 201 92 40

www.wcoomd.org



Moving Air Cargo Globally ICAO-WCO Joint Publication on Air Cargo Security and Facilitation (Second Edition)

Available for download in six
languages: Arabic, Chinese,
English, French, Russian,
Spanish

[www.icao.int/Security/aircargo/Pages/
Air-Cargo-and-Mail-Security-and-
Facilitation.aspx](http://www.icao.int/Security/aircargo/Pages/Air-Cargo-and-Mail-Security-and-Facilitation.aspx)



ICAO

SECURITY & FACILITATION

ICAO Public Key Directory (PKD)

One of 3 interrelated pillars of Facilitation

ICAO Traveller Identification Programme (TRIP) Strategy

Annex 9 –
Facilitation

Chapter 3: main SARPs related to the TRIP



ICAO PKD

Means to enhance
security in cross-
border movement.

Inspection tool for
ePassports:
verification, validation
and authentication of
the digital signatures
and content of the
chip



Amendment 25 to Annex 9:

Recommended Practice (RP) 3.9.1: “Contracting States issuing, or intending to **issue** eMRTDs **should join** the ICAO Public Key Directory (PKD) and **upload their information to the PKD.**”

RP 3.9.2: “Contracting States implementing **checks** on eMRTDs at border controls **should join** the ICAO Public Key Directory (PKD) and **use** the information available from the **PKD** to **validate** eMRTDs at border controls.”





ICAO

SECURITY & FACILITATION

ICAO No Country Left Behind (NCLB) Campaign





- The **No Country Left Behind** (NCLB) campaign highlights ICAO's efforts to assist States in implementing ICAO Standards and Recommended Practices (SARPs).
- The main goal of this work is to help ensure that SARP implementation is better harmonized globally so that all States have access to the significant socio-economic benefits of safe and reliable air transport.

Aviation Security and Facilitation

- Assist States in the identification of deficiencies in your aviation security system
- Assist States in addressing and solving those deficiencies
- Assist States in enhancing your aviation security and facilitation capabilities



ICAO

SECURITY & FACILITATION

NCLB Campaign: What can ATB do for States?

- Aviation Security and Facilitation

- Assist States in the identification of deficiencies in your aviation security system
- Assist States in addressing and solving those deficiencies
- Assist States in enhancing your aviation security and facilitation capabilities

Cybersecurity

Industry High-level Group (IHLG) Civil Aviation
Cybersecurity Action Plan – signed December 2014
(ACI-CANSO-IATA-ICAO-ICCAIA)



Cybersecurity

The Action Plan establishes clear timeframes for the achievement of goals and targets to facilitate the development of a common understanding of cyber threats and risks, and mechanisms needed to promptly share and communicate related information between government and industry stakeholders

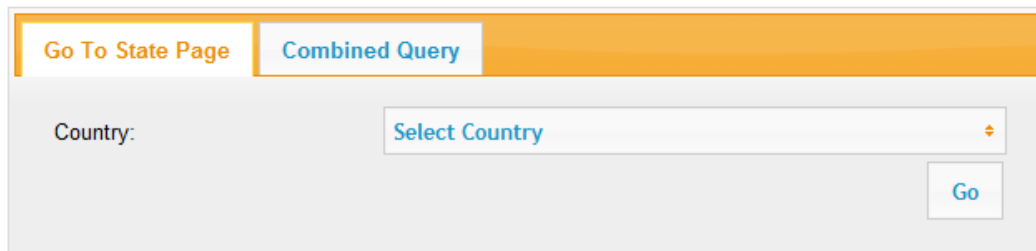
Cybersecurity

- ✓ Secure repository of cybersecurity-related material
<https://portal.icao.int/cybersecurity>
- ✓ Draft Assembly Resolution aimed at addressing cybersecurity in civil aviation through a horizontal, cross cutting and functional approach.

AVSECPaedia

Exchange of information of a sensitive nature, such as screening technologies, between States

ICAO Secure Portal > AVSECPaedia

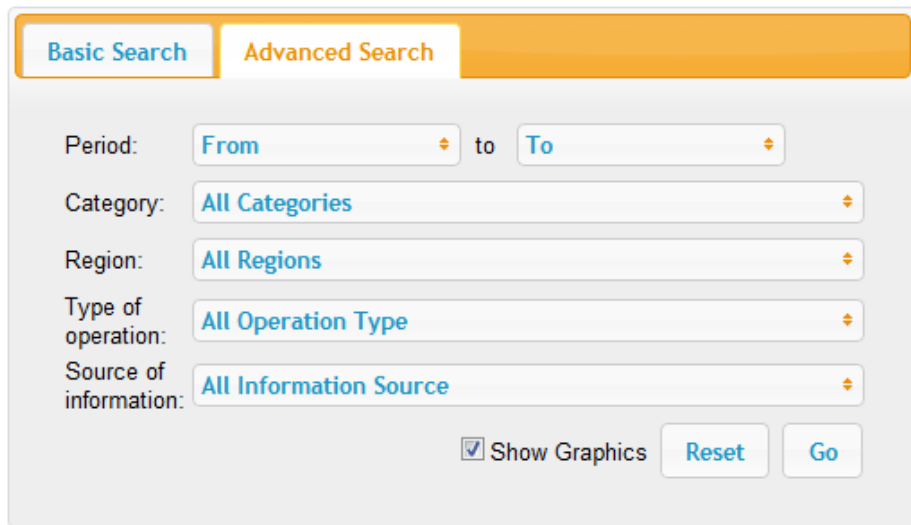


The screenshot shows a web interface for AVSECPaedia. At the top, there are two tabs: 'Go To State Page' and 'Combined Query'. Below the tabs, there is a search area with a label 'Country:' and a dropdown menu labeled 'Select Country'. To the right of the dropdown is a 'Go' button.

Introduced in 2011, the AVSECPaedia is a dynamic and collaborative tool that allows States to share their own security information and practices

For more information, e-mail us at
avsecpaedia@icao.int

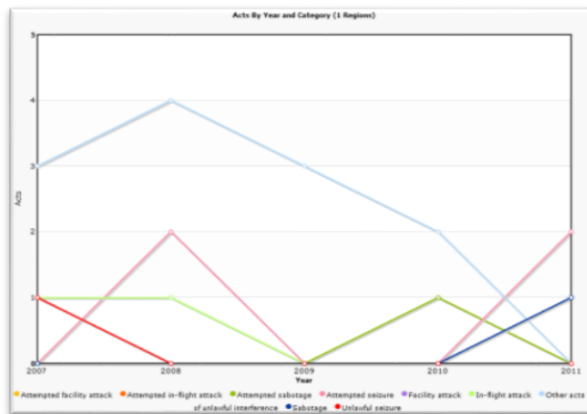
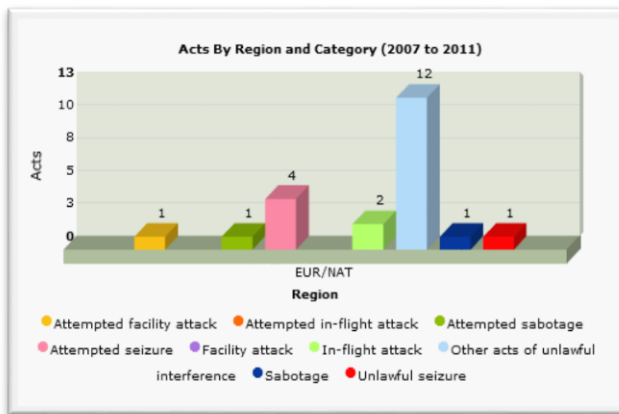
Acts of Unlawful Interference Database (AUID)



The screenshot shows the AUID search interface. It has two tabs: 'Basic Search' (selected) and 'Advanced Search'. Below the tabs are five search criteria, each with a dropdown menu: 'Period' (From to To), 'Category' (All Categories), 'Region' (All Regions), 'Type of operation' (All Operation Type), and 'Source of information' (All Information Source). At the bottom right, there is a checkbox for 'Show Graphics' (checked), and two buttons: 'Reset' and 'Go'.

The AUID is a secure online database available to all Member States, designed to disseminate information on aviation security incidents in an efficient and effective manner

Acts of Unlawful Interference Database (AUID)



Year	Attempted facility attack	Attempted in-flight attack	Attempted sabotage	Attempted seizure	Facility attack	In-flight attack	Other acts of unlawful interference	Sabotage	Unlawful seizure	Deaths	Injuries
2007	1	0	0	0	0	0	3	0	1	1	0
2008	0	0	0	2	0	0	4	0	0	0	0
2009	0	0	0	0	0	0	3	0	0	0	0
2010	0	0	1	0	0	0	2	0	0	0	0
2011	0	0	0	2	0	0	0	1	0	35	151
Total	1	0	1	4	0	2	12	1	1	36	151

-- Graphical and numerical display of AUI data --

ICAO Point of Contact Network (AVSECNET)

Messaging

 ☒ Not restricted.
☐ Restricted to recipients selected below ONLY.
☐ Restricted to recipients selected below, as well as representatives of the States included in the message who have been authorized by these States to access and read messages on their behalf.

Region:

State:

And / Or:

Contacts:

And / Or:

CC:

Subject:

Content:

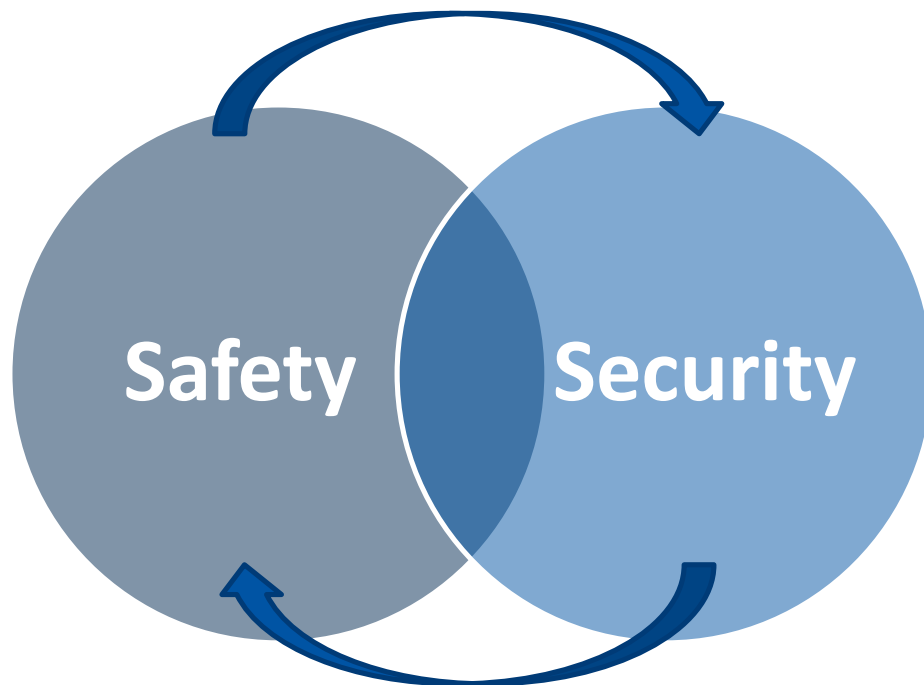
Choose local file to upload: No file chosen 

Attachments: 



Features a built-in messaging system that allows for the secure and rapid exchange of critical information among States, while providing greater controls over who can access such information

Safety and Security: Convergence and Interdependency



Safety and Security: Convergence and Interdependency

(non-exhaustive list)

	Safety	Air Navigation	Security & Facilitation
RPAS	✓	✓	✓
Cockpit door	✓		✓
Conflict zones	✓	✓	✓
Cybersecurity	✓	✓	✓
Dangerous goods	✓		✓
Crisis management	✓	✓	✓
Assistance to accident victims	✓		✓



Action by the meeting

- The AFI DGCA/6 meeting is invited to:
 - note the information contained in this Paper
 - urge Member States and organizations that are providing aviation security assistance to engage ICAO in their activities
 - encourage Member States to make voluntary contributions to further ICAO's aviation security technical assistance and audit activities
 - Urge States to implement the Resolutions of A39



ICAO

SECURITY & FACILITATION

谢谢, Xie Xie

Thank You

شكرا , Shukran

Merci

Спасибо, Spasiba

Gracias





ICAO

SECURITY & FACILITATION



ICAO

North American
Central American
and Caribbean
(NACC) Office
Mexico City

South American
(SAM) Office
Lima

ICAO
Headquarters
Montréal

Western and
Central African
(WACAF) Office
Dakar

European and
North Atlantic
(EUR/NAT) Office
Paris

Middle East
(MID) Office
Cairo

Eastern and
Southern African
(ESAF) Office
Nairobi

Asia and Pacific
(APAC) Sub-office
Beijing

Asia and Pacific
(APAC) Office
Bangkok



THANK YOU