

### OVERVIEW OF ICAO MRTD STANDARDS DEVELOPMENT

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#### WHERE WE ARE TODAY

- ePassport specifications published (Doc 9303, Part 1, 6<sup>th</sup> Ed).
- \*15 countries issuing ePassport.
- Public Key Directory project started.
- "non-MRP" countries to meet MRP
  Standard by April 2010.



#### HOW WE GOT HERE

ICAO's mandate for standards development: The Convention on International Civil Aviation

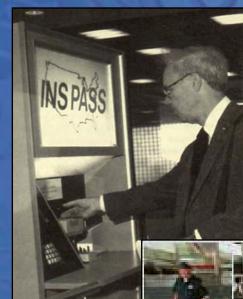
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## "Chicago Convention", 1944 Created ICAO

- To "meet the needs of the peoples of the world for safe, regular, efficient and economical air transport".
- Mandates compliance with border control laws, facilitation of formalities, and global interoperability.

# Annex 9 to the Convention Passenger inspection at border control points





Annex 9

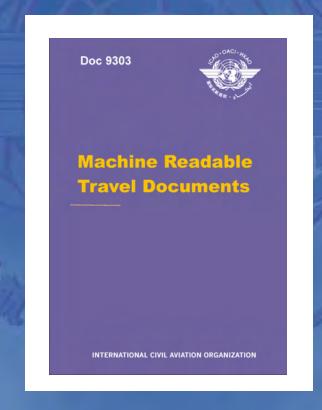
To the Convention on International Civil Aviation

**Facilitation** 

INTERNATIONAL CIVIL AVIATION ORGANIZATION

# Doc 9303 – MRTDs specifications

First edition 1980; now in 3 Parts



#### Standards - ICAO TAG/MRTD

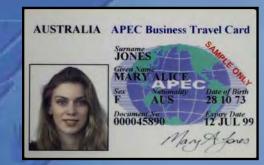


Part 1 - Passport

**Doc 9303** 



Part 2 - Visa



Part 3 - Official Travel Document

ISO: SC17 WG3

### Assembly Resolution 32-18

# 1998: Called for "International cooperation in protecting the security and integrity of passports"

Updated in 2001; continued in 2004

### Security: Machine Readable Zone



## Security: Identity confirmation

#### **Authenticity**





Identity

# Facilitation and Security Biometrics for identity confirmation





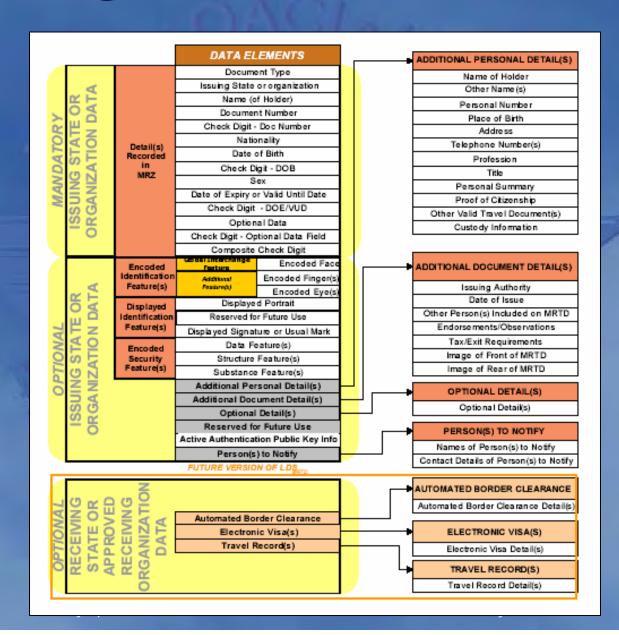
### Contact-less IC



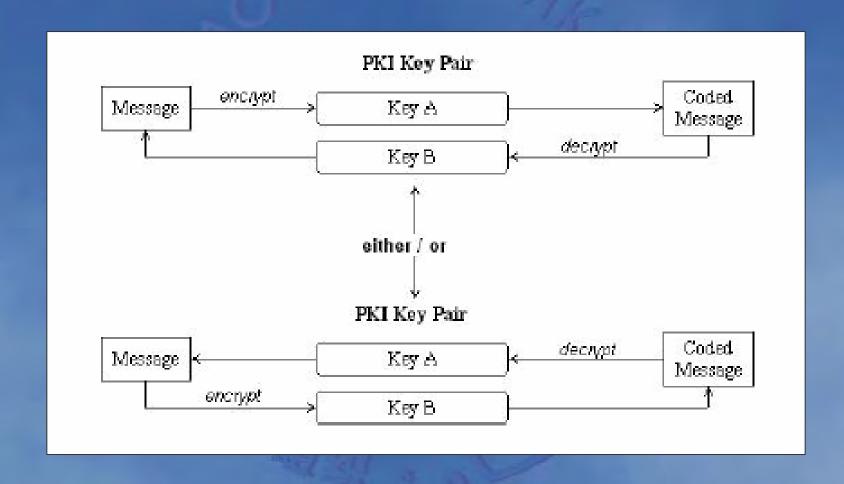




### Logical Data Structure



### PKI Digital Signatures



# Now: 6<sup>th</sup> Edition, Doc 9303, Part 1 *Machine Readable Passports*

Volume I specifications mandatory for all States issuing MRP.

Volume II ("e-passports") specifications mandatory for States electing the option to enhance their MRP with biometric identification.

# Content of Volume I: everything that makes a passport machine readable



Visual Inspection Zone (VIZ)

Machine Readable Zone (MRZ)

# Content of Volume II: everything that makes an MRP an e-passport

- Specifications for face biometric
- Specifications for ISO/IEC 14443"proximity" chip application
- Specifications for logical data structure
- Specifications for public key infrastructure including BAC



#### WHERE WE ARE GOING

# International cooperation to advance implementation of the Standards

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#### **NEXT STEPS**

- Reading systems to be upgraded to read the ePassport chip as well as the MRZ.
  - >Airline check-in
  - >Aviation security
  - >Entry/exit processing

#### IMPLEMENTATION, cont'd

- ePassport-issuing States to join the PKD as Participants.
- **Users** to connect to the PKD.
- "Worldwide trust" in the authenticity of ePassport data.

#### IMPLEMENTATION PROJECTS

To improve and secure the passport issuance process.

To establish robust identity management systems.

#### **WINNERS: Nation States**

Better systems for securing borders against illegal migration, transborder crime, terrorism.

Better systems for securing nations against fraud.

### BIG WINNERS: the Peoples of the World

- \*Worldwide travel confidence in authentic identity documents.
- Protection from identity theft.
- Use of machine-assisted systems.
- Shorter lines.

# Thank you www.icao.int/mrtd

