Introducing the ICAO Travel Document demonstration area

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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**

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

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

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

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

Objective: All Member States can uniquely identify individuals

EVIDENCE OF IDENTITY

INTEROPERABLE APPLICATIONS

IDENTIFICATION MANAGEMENT

MRTDs

INSPECTION SYSTEMS AND TOOLS

DOCUMENT ISSUANCE & CONTROL

Summary of SARPs related to Doc 9303/MRTDs

➢ Machine Readable Passport is a requirement (**Standard**)

➢ Non-machine readable passports out of circulation by 2015 (**Standard**)

➢ When issuing eMRTDs do so in accordance with Doc 9303 (**Standard**)

  ➢ ePassports are not mandatory but when a State issues them they must conform to ICAO Doc 9303

➢ Machine Readable identity cards for travel are **RP**

➢ Machine Readable Visas are **RP**

Doc 9303: International Specifications for MRTDs
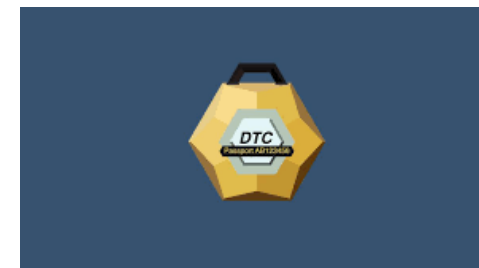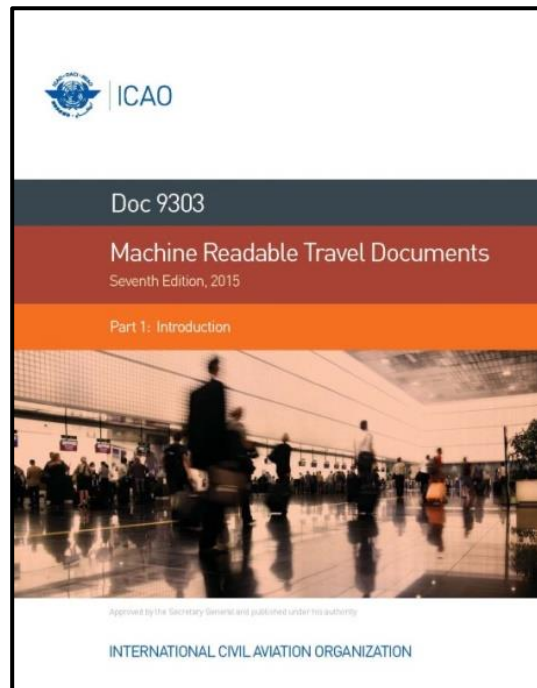
Doc 9303: 13 Parts in all ICAO languages

MRP
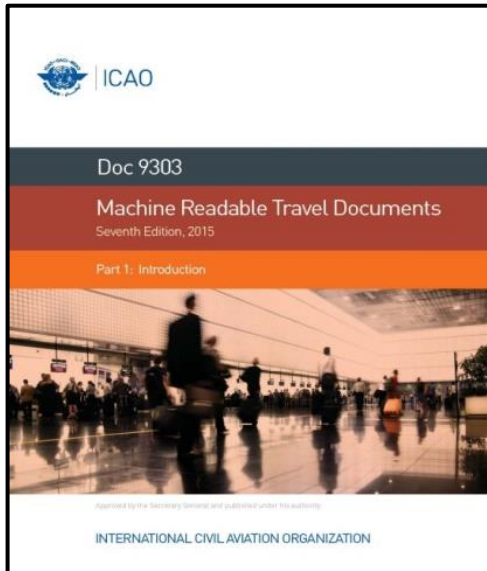
Part 1: Introduction

Part 2: Specifications for the Security of the Design, Manufacture and Issuance of MRTDs

Part 3: Specifications Common to all MRTDs

Part 4: Specifications for Machine Readable Passports (MRPs) and other TD3 Size MRTDs

Part 5: Specifications for TD1 Size Machine Readable Official Travel Documents (MROTDs)

Part 6: Specifications for TD2 Size Machine Readable Official Travel Documents (MROTDs)

Part 7: Machine Readable Visas

Part 8: Emergency Travel Documents

eMRTD

Part 9: Deployment of Biometric Identification and Electronic Storage of Data in eMRTDs

Part 10: Logical Data Structure (LDS) for Storage of Biometrics and Other Data in the Contactless Integrated Circuit (IC)

Part 11: Security Mechanisms for MRTDs

Part 12: Public Key Infrastructure for MRTDs

Part 13: Visible Digital Seal (VDS)

ICAO | Doc 9303 | Machine Readable Travel Documents | Seventh Edition, 2015 | Part 1: Introduction | INTERNATIONAL CIVIL AVIATION ORGANIZATION

Global Interoperability

The capability of inspection systems (either manual or automated) in different States throughout the world to obtain and exchange data, to process data received from systems in other States, and to utilize that data in inspection operations in their respective States. Global interoperability is a major objective of the standardized specifications for placement of both eye readable and machine readable data in all (e)MRTDs.
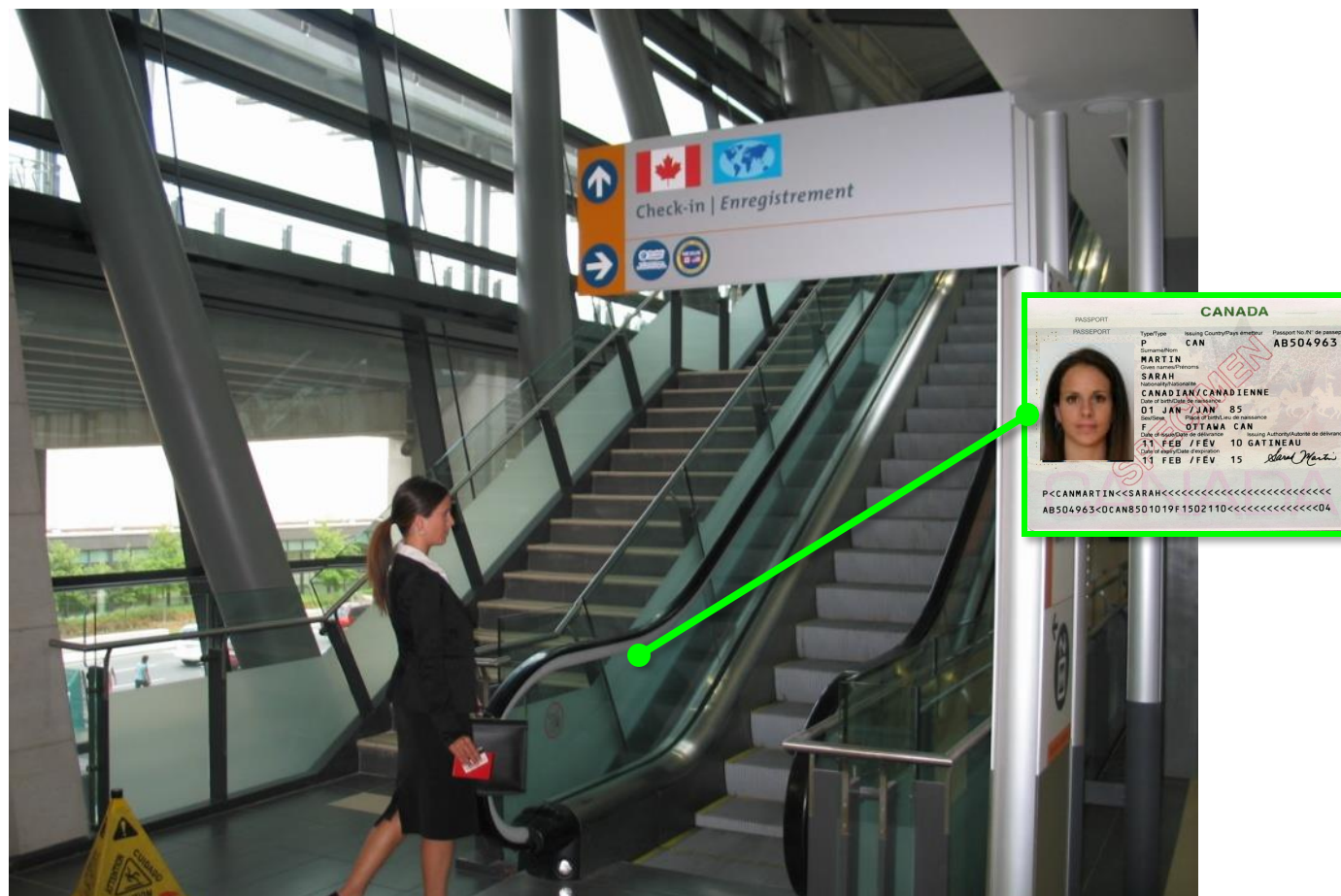
- Example: A compliant passport
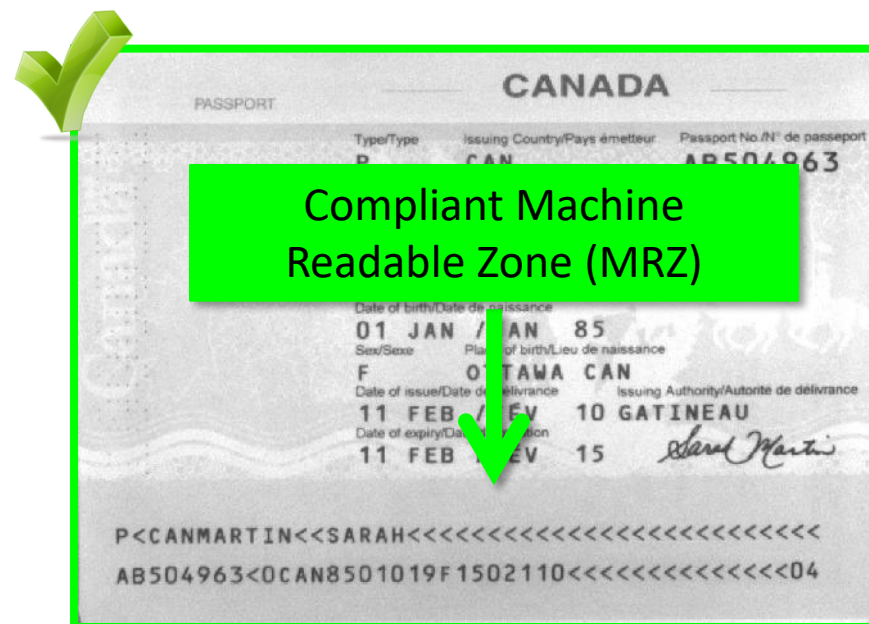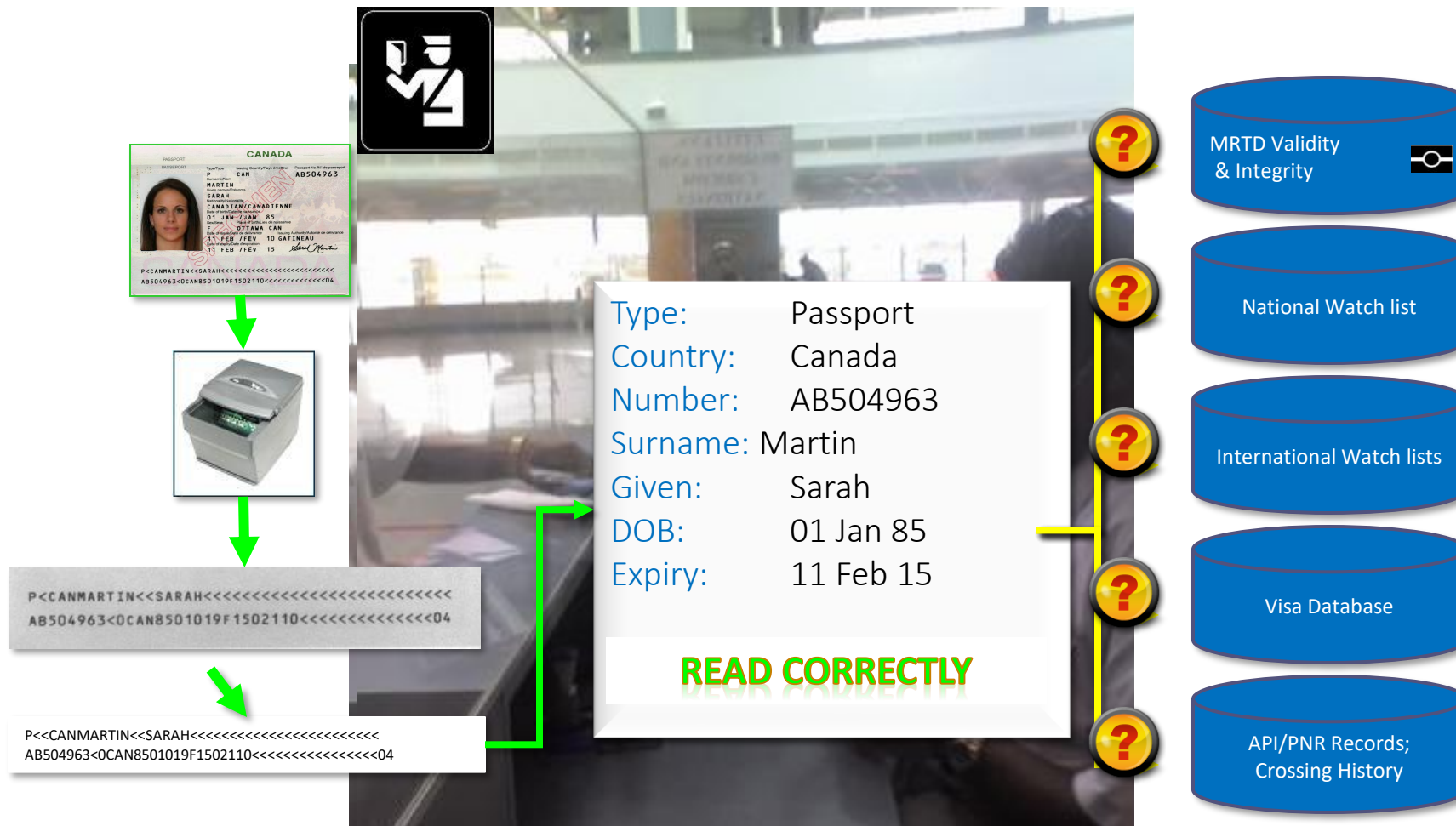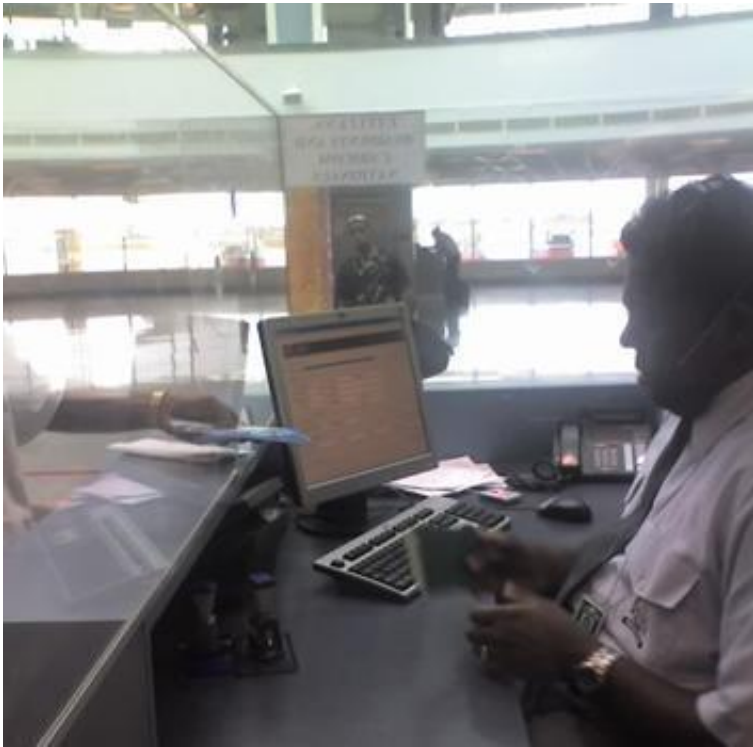

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Compliance at the Border

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Compliance at the Border

Type: Passport
Country: Canada
Number: AB504963
Surname: Martin
Given: Sarah
DOB: 01 Jan 85
Expiry: 11 Feb 15

READ CORRECTLY

P<CANMARTIN<<SARAH<<<<<<<<<<<<<<<<<<<<<<<<<
AB504963<0CAN8501019F1502110<<<<<<<<<<<<<<04

P<<CANMARTIN<<SARAH<<<<<<<<<<<<<<<<<<<<<<<<
AB504963<0CAN8501019F1502110<<<<<<<<<<<<<<04

MRTD Validity & Integrity

National Watch list

International Watch lists

Visa Database

API/PNR Records; Crossing History

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Compliance at the Border

Type:	Passport
Country:	Canada
Number:	AB504963
Surname:	Martin
Given:	Sarah
DOB:	01 Jan 85
Expiry:	11 Feb 15

APPROVED

MRTD Validity & Integrity

National Watch List

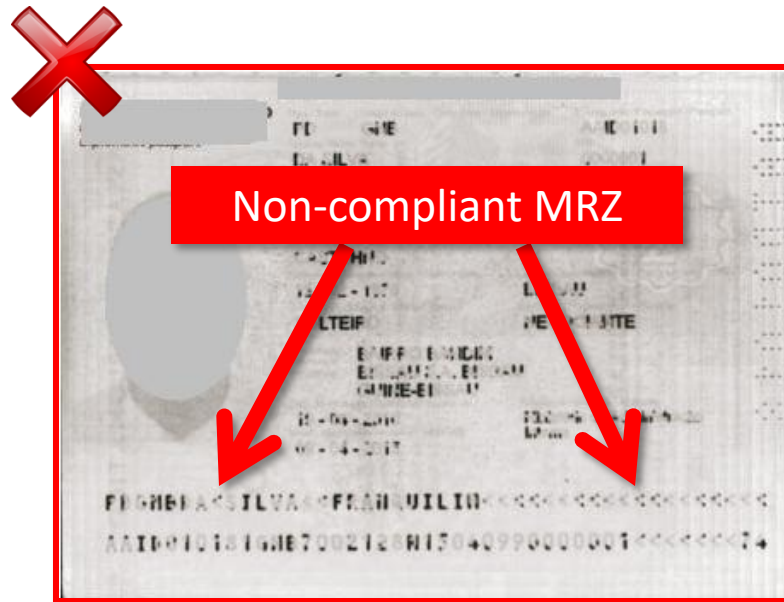International Watch Lists
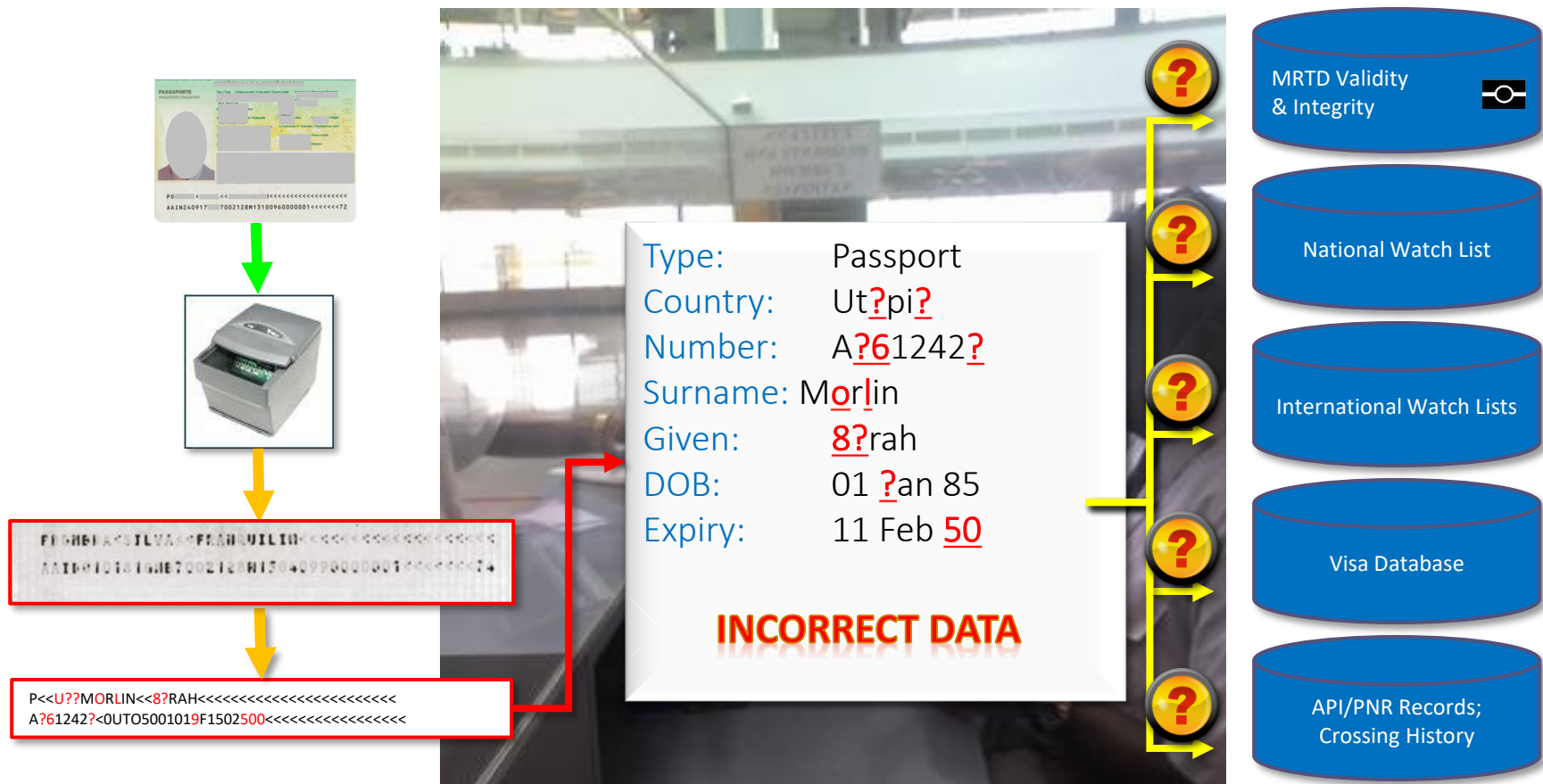
Visa Database

API/PNR Records; Crossing History

✓ Proper verification of the document & traveler against databases

✓ Proper validation of the travel document

✓ Secure inspection and facilitation

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Non-compliance at the Border

- Example: A non-compliant MRTD

Non-compliant MRZ

Non-compliance at the Border

Type: Passport
Country: Ut**?**pi**?**
Number: A**?**61242**?**
Surname: M**or**lin
Given: **8?**rah
DOB: 01 **?**an 85
Expiry: 11 Feb **50**

INCORRECT DATA

P<<U??MORLIN<<8?RAH<<<<<<<<<<<<<<<<<<<<<
A?61242?<0UTO5001019F1502500<<<<<<<<<<<<<<<<

- MRTD Validity & Integrity
- National Watch List
- International Watch Lists
- Visa Database
- API/PNR Records; Crossing History

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Non-compliance at the Border

- ✕ Erroneous validation of the travel document

- ✕ Erroneous verification of the MRTD & traveler against databases

- ✕ Incomplete risk assessment of the traveler

- ✕ Potential delays

Type: Passport
Country: Ut pi
Number: A 1242
Surname: M r in
Given: rah
DOB: 01 an 85
Expiry: 11 Feb

ALERT

BAC FAILURE — MRTD Validity & Integrity

MISSED ALERT — National Watch Lists

MISSED ALERT — International Watch Lists

NO RECORD FOUND — Visa Database

NO HISTORY — API/PNR Records; Crossing History

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Focus on eMRTDs

Recall:

When issuing eMRTDs do so in accordance with Doc 9303 (ICAO Annex 9 Standard)
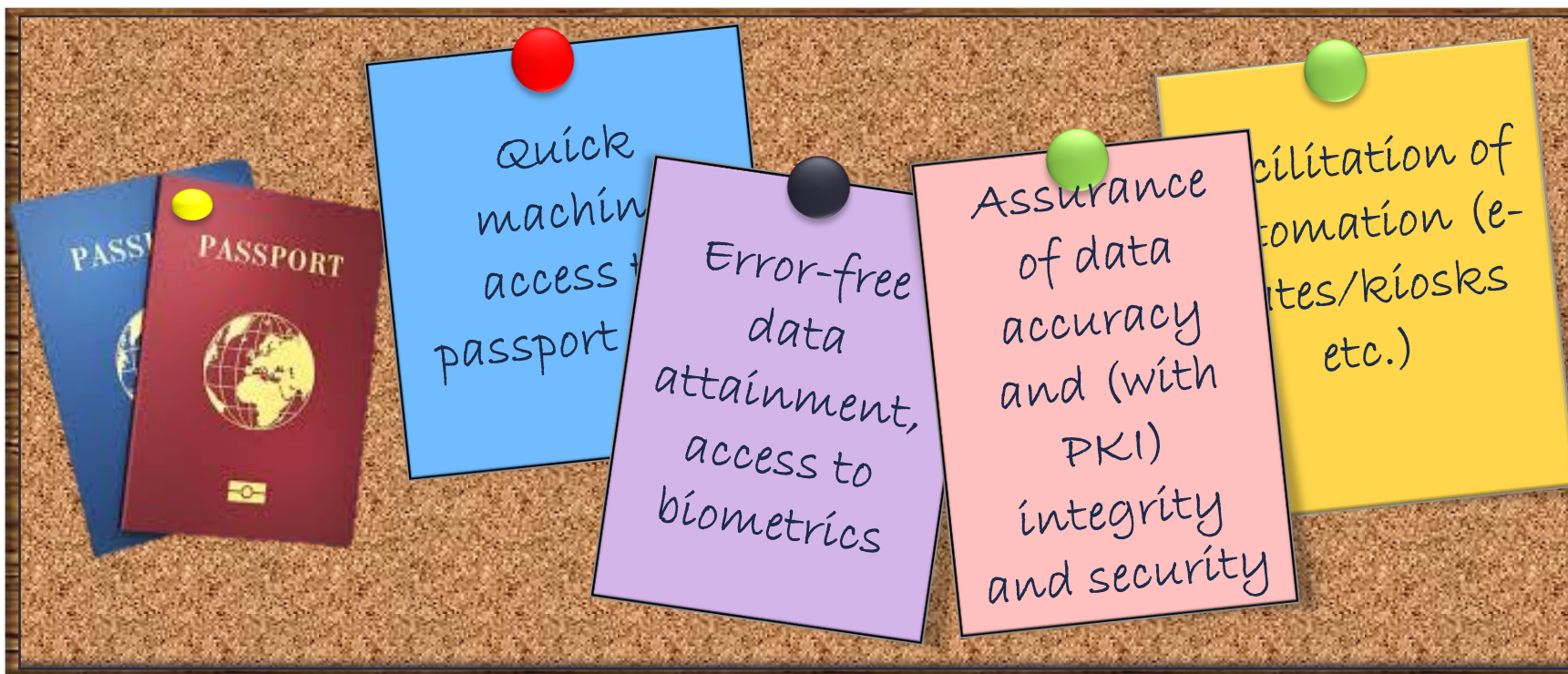
eMRTD Conformance Checking

Issuers must ensure conformance of eMRTD Certificates to ensure access to eMRTD benefits

Non-Conformance	Will & Can Handle	Will not/ Cannot Handle
Country Code in lower case letter	x	
Missing Authority Key Identifier	x	
Missing Country Code in DN	x	
Wrong key usage		x
Wrong basicConstraint		x

Checking certificate conformance

A key capability of the ICAO Public Key Directory (PKD)

- The ICAO PKD includes a conformance checking tool for document issuer checks prior to first use of the keys in a new certificate

- All data uploaded to the ICAO PKD is assessed for conformance so that document issuers are aware of issues

- Indicators of non-conformant assessment outcomes are included in the PKD, to allow document verifiers to consider non-conformance information and avoid issues with non-conformant data in their software

Introducing the Travel Document Demo Area

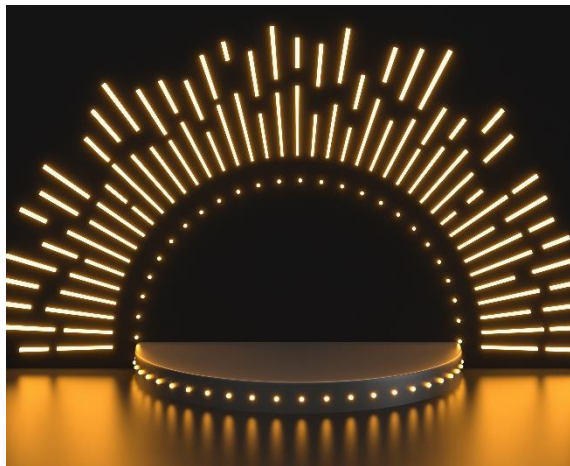Learn how your globally-interoperable documents enable enhanced facilitation

Check your own travel documents and their certificates for conformance
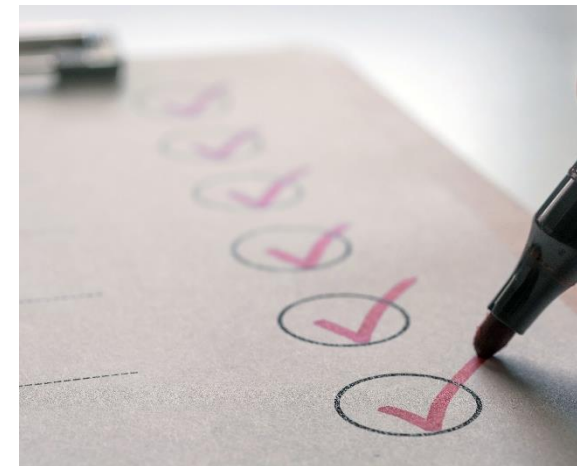
The Travel Document Demo Area

A hands-on live demonstration area for eMRTD-based technologies, including technologies at various vendor booths

A dedicated breakout stage with a series of TED-talk style presentations and demonstrations on travel document matters (taking place around coffee breaks and lunch breaks)

Two private conformance checking booths for hands-on testing of your documents and certificates and deeper discussion on your documents with ICAO experts (scheduled across all 3 days)

Join us!

Learn about your own passport!!

See how your electronic passport can open the door to seamless travel and learn about its features. Sign up for a 15-minute test and discussion

Monday 14 April 2025

Time slot	Name and country
13.00-13.15	
13.15-13.30	
13.45-14.00	
14.00-14.15	
14.15-14.30	
14.30-14.45	
14.45-15.00	
15.00-15.15	
15.15-15.30	
17.15-17.45	
17.45-18.00	
18.00-18.15	
18.15-18.30	

Sign up for a 15-minute test/discussion on documents at the demo area (spaces are limited)
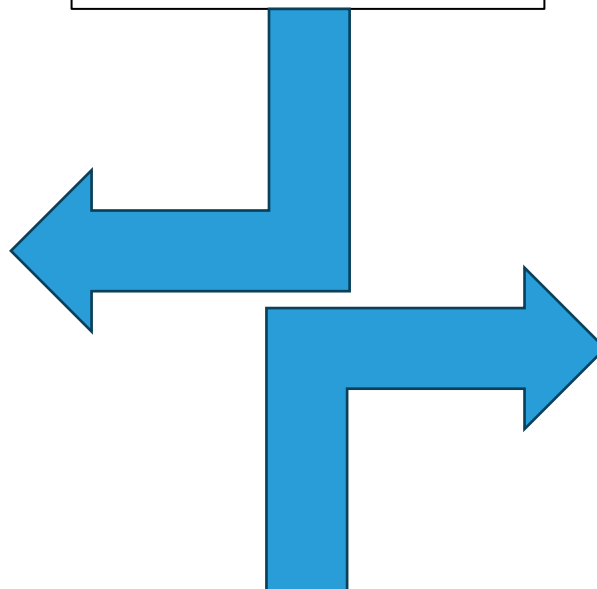
Check out the breakout stage schedule and make your plans to attend

BREAKOUT STAGE
SCHEDULE

Monday 14 April 2025

13.30-13.45 –

How to use the data in the ICAO Public Key Directory (PKD) to authenticate an electronic passport – presentation and demonstration

15.30-15.45 –

What is the ICAO TRIP Strategy – main principles

Tuesday 15 April 2025

10.30-10.45 –

What is in the ICAO Master List? Introducing the Master List Explorer software

13.30-13.45 –

New services in the ICAO Public Key Directory from 2026

15.30-15.45 –

Driving more seamless travel – introducing the ICAO Automated Border Control (ABC) Cost-Benefit Analysis Tool