



Security & Facilitation



2024 YEAR OF FACILITATION

FACILITATION GLOBAL SUMMIT RIYADH, SAUDI ARABIA, 21-22 MAY 2024

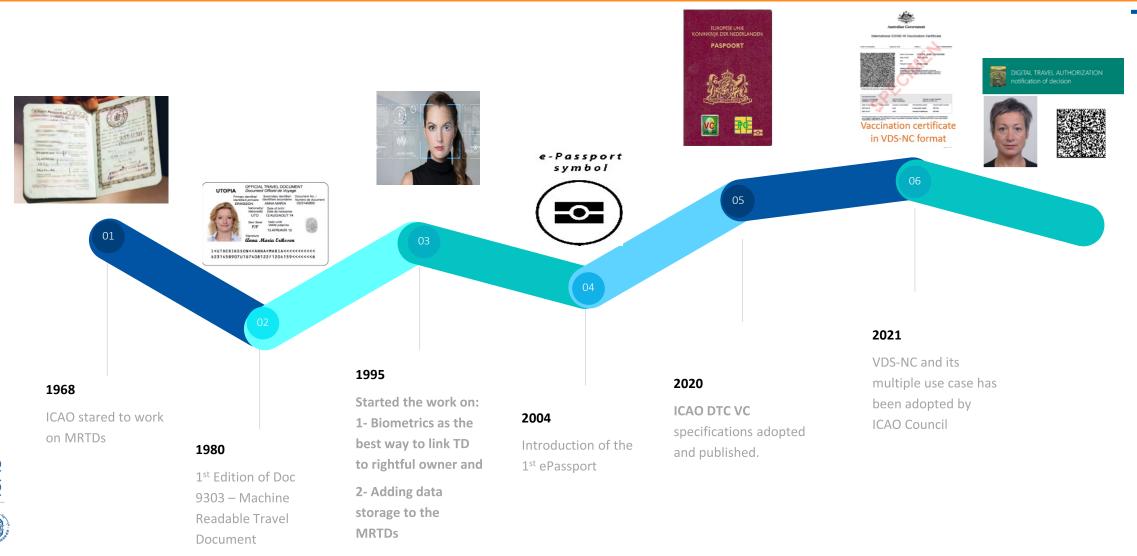




Past, Present, Future: 75 Years of Enabling Air Transport

Facilitating the Traveller Journey Through Innovation in Travel Document Format

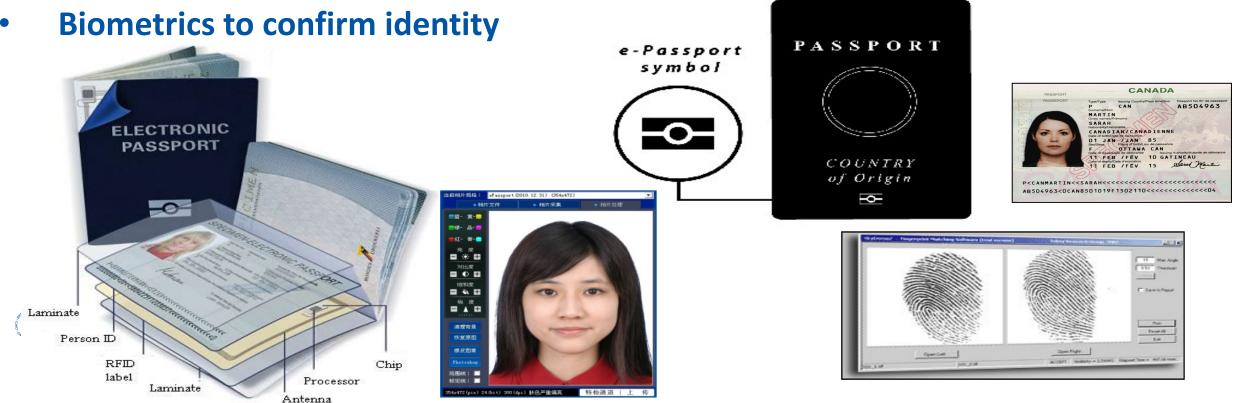
Christiane DerMarkar, ICAO Traveller Identification Programme Officer



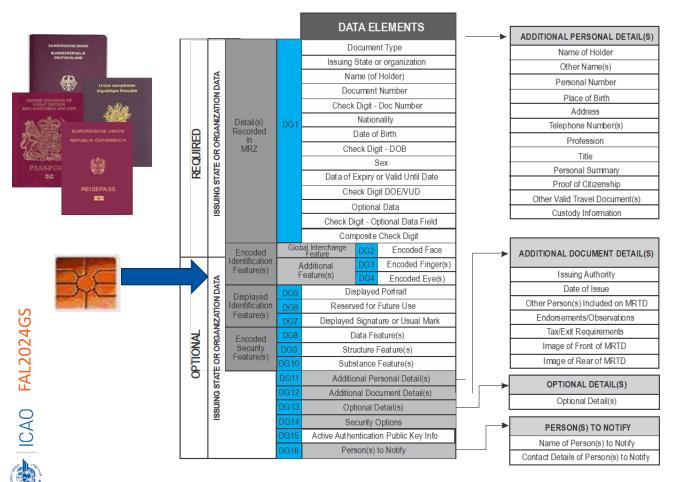
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ePassport or Biometric Passport

- ePassports are Machine Readable Passports (MRPs) with a chip (IC)
- The chip is an additional security feature and does not replace the MRZ
- Enhances security of the document



Purpose of the Passport booklet



- Biographic and biometric information contained in chip establish the "claimed identity"
- Binding between the traveler and the "claimed identity" can be established through biometric matching.

The book establishes the "entitlement" of the traveler to the "claimed identity" – A second factor

Past, Present, Future: 75 Years of Enabling Air Transport From ePassport to the ICAO DTC-VC and DTC-PC



An ePassport can be viewed as a combination of:

- A Virtual Component (VC) consisting of the data contained in the chip;
- A **Physical Component (PC)** consisting of the booklet and/or cryptographic link between the VC and the PC and acts as an **authenticator** (second factor).

ICAO DTC Hybrid Model

- The Data from the chip is enclosed in a file structure and called a Virtual Component (VC);
- A device that can be cryptographically linked to the VC and is called the Physical Component (PC).

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What is an ICAO DTC

- A DTC is a travel credential in a digital format that conforms with the specifications and are meant to temporarily or permanently substitute a conventional passport with a digital representation of the traveler's identity..
- It's the conformance with ICAO-endorsed technical specifications which makes a DTC ICAO-compliant (or not).
- if the ICAO DTC extracted is broken into micro-credential, and then signed by an entity other than the issuing authority
- This cannot be considered an ICAO DTC



ICAO DTC Types

Three Types

- 1. eMRTD bound DTC
 - Chipdata is read from existing travel document creating the VC
 - The eMRTD booklet acts as the authenticator and can be considered a PC
 - Anyone can create this DTC
- 2. eMRTD-PC bound DTC
 - Chipdata is read from existing travel document creating the VC
 - Option to cryptographically link to a different physical device(PC) with the eMRTD as a fallback
 - Can only be created by the same authority that issued the eMRTD
 - DTC can be issued any time after the issuance of the eMRTD
- 3. PC Bound DTC
 - No eMRTD is issued, but only a PC with form factor different from an eMRTD
 - Can only be created by an eMRTD issuing authority
 - No eMRTD available as a fallback

ICAO DTC Specifications

- ICAO DTC Type 1: DTC-VC Technical Report approved in 2020
- ICAO DTC type 2 : DTC-PC specifications divided into two phases
 - Phase 1 maintain backward compatibility to the extent possible with existing inspection systems and replicate behavior of eMRTD – The Technical Report approved 2023
 - Phase 2 investigate other form factors like mobile phones currently a gap analysis is being conducted to identify the difference between policy requirements and technology landscape

Use Cases :

- Seamless Travel
- Advance Travel Authorization (ETA/DTA/...)
- Improving border processing time
- Emergency Travel Document



"pushed out"

Border is

Inspecting and authenticating passports prior to arrival

Strengthened ID validation

Leveraging the facial biometric to strengthen screening Reduced touch points

Replacing document checks with facial recognition

0.2.

Streamline processing

Supporting simplified processes, improved client experience Support digital service delivery

Transforming and digitizing traditional paper processes



19th TRIP Symposium

Montréal, Canada, 13-15 Nov. 2024

✓ a world-class forum

✓ for the exchange of information

✓ on all aspects of traveller identification management and the ICAO TRIP Strategy

✓ providing decision makers and technical experts

✓ with valuable insight on key current and emerging issues.





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