



MONTRÉAL, CANADA | NOVEMBER 13-15



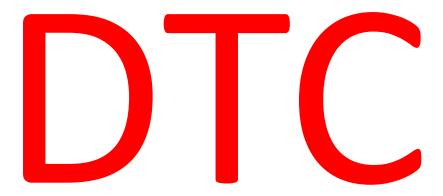
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DIGITAL TRAVEL CREDENTIAL







Passports Timeline: Transformation









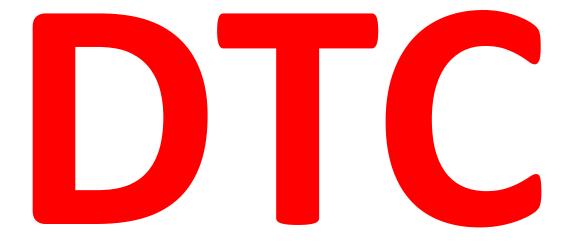
1985 Machine-readable 2005 ePassports



2023 Digital Travel Credentials

And LOTS of other credentials

DIGITAL TRAVEL CREDENTIAL



What is? What isn't?

VOTE: Is this a travel document?





Or document that can be used for travel in some circumstances?

Digital credential

Verifiable credential

Could be used for travel or in the travel continuum but...



ICAO Digital Travel Credential (DTC)

ICAO DTC Characteristics

- Intended and specified first and foremost for border clearance (ICAO)
- Globally interoperable
- Highest security
- Signed by the country (ePassports PKI)







From ePassport to the ICAO DTC-VC and DTC-PC (Hybrid Model)

- Logical Data Structure;
- Security Object.

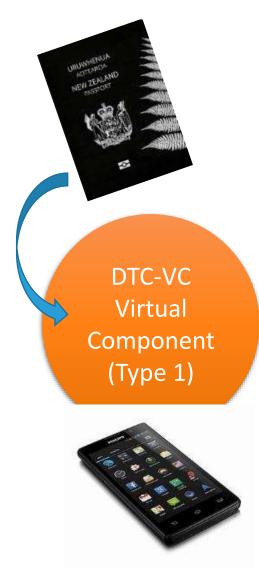


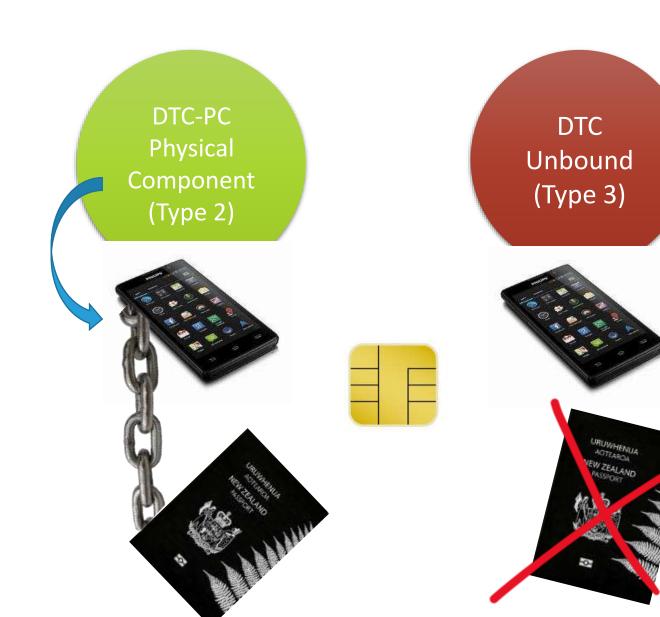
- Crypto chip;
- Secure memory;
- AA/CA private key.

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 Digital Travel Credential

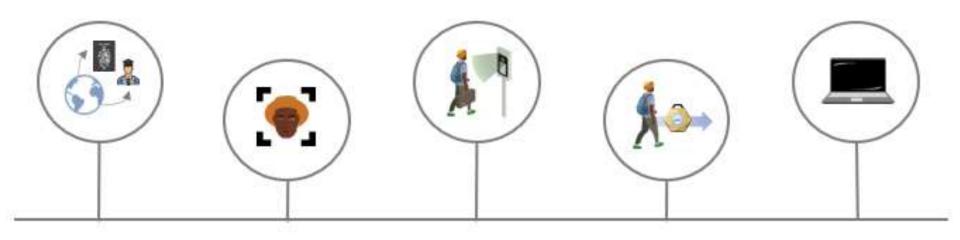




TRIP 2024

Use Cases:

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



Border is "pushed out"

Inspecting and authenticating passports prior to arrival

Strengthened ID validation

Leveraging the facial biometric to strengthen screening

Reduced touch points

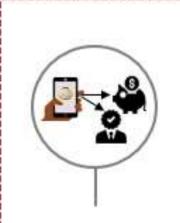
Replacing document checks with facial recognition

Streamline processing

Supporting simplified processes, improved client experience

Support digital service delivery

Transforming and digitizing traditional paper processes



Other potential use-cases?

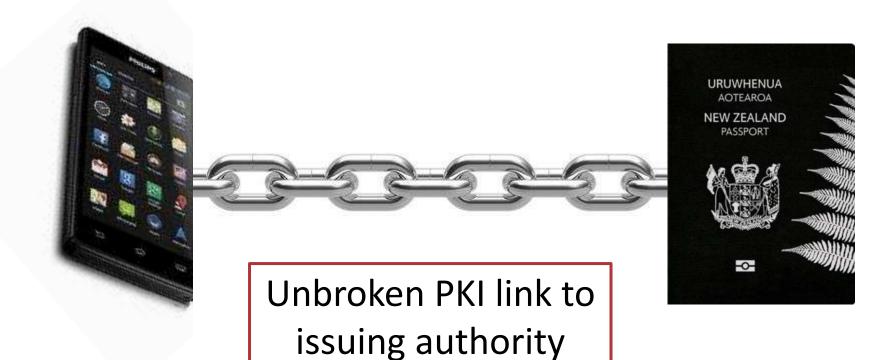
Used as a trusted "digital ID"?

O 🖔 TRIP 2024

ICAO DTC Specifications

- ICAO DTC-VC Technical Report approved in 2020
- ICAO DTC-PC specifications divided into phases
 - Phase 1 maintain backward compatibility (inspection systems) and replicate behavior of eMRTD – The Technical Report approved 2023
 - Phase 2 investigate other form factors like mobile phones gap analysis
 - WHAT MIGHT WE HAVE TO TRADE OFF TO MAKE THIS WORK?
 - CAN WE SECURE THE PHONE?
 - ACTIVE AUTHENTICATION/CHIP AUTHENTICATION
 - ePASSPORT ECOSYSTEM AND NON-COMPLIANCE
 - BIOMETRIC QUALITY AND PERFORMANCE?
 - PRIVACY?

ICAO Digital Travel Credential



PKI available without

impediment

Thank You

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) Office Bangkok

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