Digital Travel Credentials

Presentation Overview

What is a Digital Travel Credential (DTC) and what does it entail?

How can the DTC be leveraged in the travel continuum?

Considerations for Passport Issuing Authorities

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What is a Digital Travel Credential (DTC)?

An interoperable, secure and verifiable digital representation of a traveller's identity, based on the trusted and tested eMRTD concept

eMRTD chip contains verifiable digital data
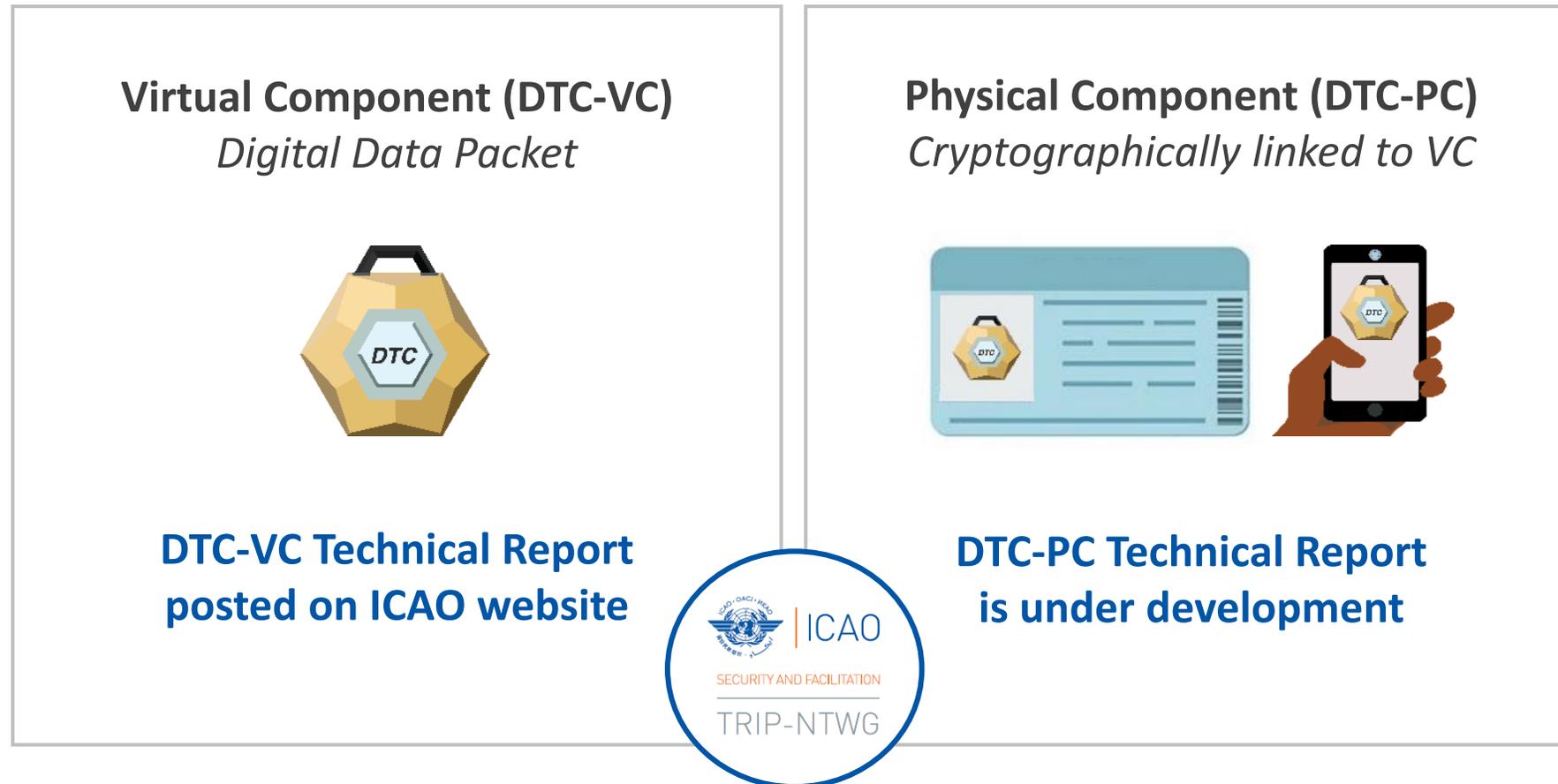- document info
- biographic data
- facial image

DTC is essentially a digital replica of the chip
- shared in advance of travel
- enables remote travel document inspection
- facilitates increasingly touchless processing
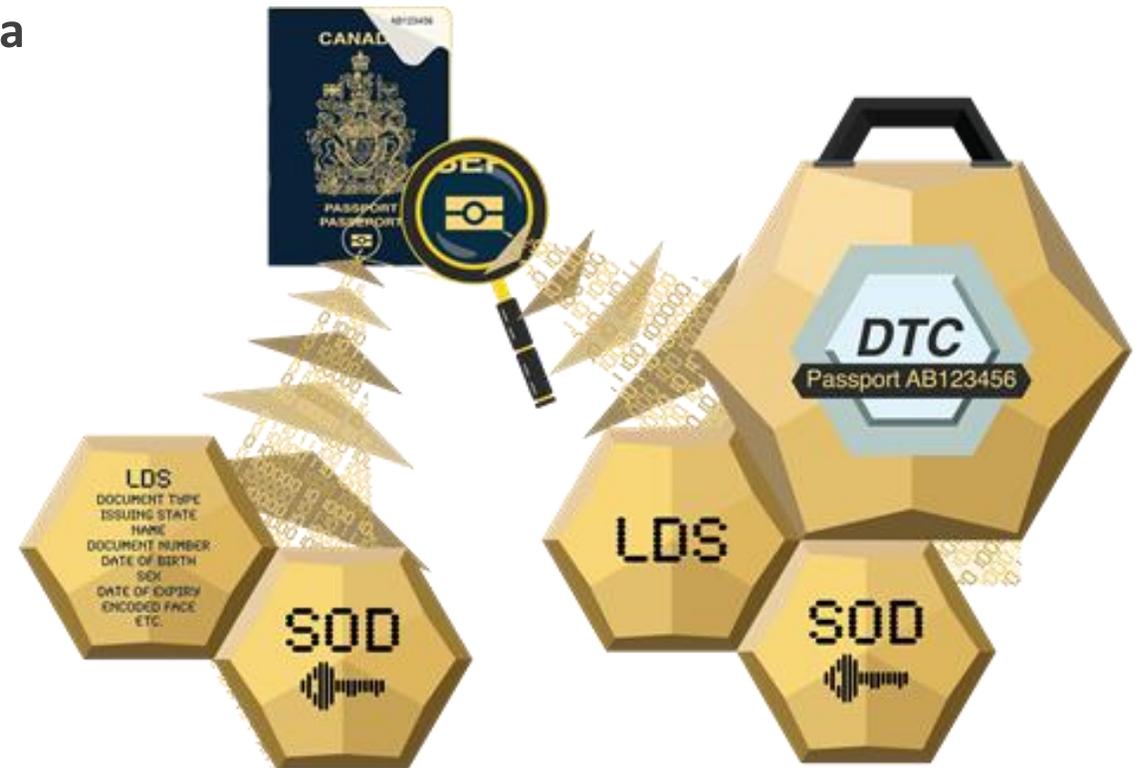
DTC Overview

The DTC encompasses a Virtual Component and a Physical Component

Virtual Component (DTC-VC)	Physical Component (DTC-PC)
Digital Data Packet	*Cryptographically linked to VC*
DTC-VC Technical Report posted on ICAO website	**DTC-PC Technical Report is under development**

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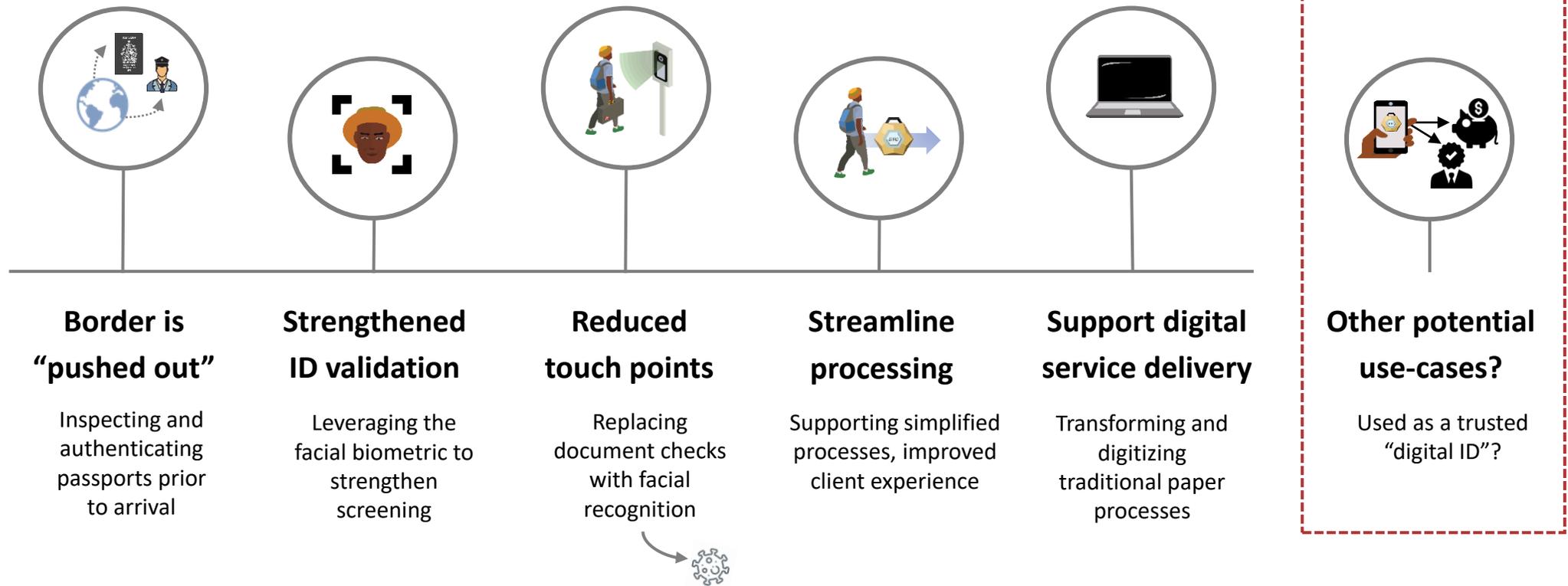SECURITY AND FACILITATION
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DTC Overview Continued

Three DTC Types have been developed for measured implementation and to ensure backwards compatibility

DTC Type 1 *eMRTD bound DTC*	DTC Type 2 *eMRTD-PC bound DTC*	DTC Type 3 *PC bound DTC*
Derived from eMRTD	**Issued alongside eMRTD**	**No underlying passport book**
• VC = copy of eMRTD chip • PC = physical eMRTD • MUST be accompanied by passport book	• VC = copy of chip + additional data + cryptographic link to PC • PC = created on physical device • SHOULD be accompanied by physical passport during travel	• VC = same data structure + cryptographic link to PC • PC = created on physical device • May have unique characteristics (e.g., passport number, validity, digital signature, etc.)

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Leveraging the DTC in the Travel Continuum

Program integrity and operational benefits for travel document inspectors

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"?

Applies to travel authorizations (e.g., visa), border processing and beyond…

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Passport Issuer's Perspective

Operationalizing the DTC has <u>implications for travel document issuing authorities</u>

Ensuring global interoperability
- Compliance with DTC-VC and DTC-PC specifications

Identifying operational requirements
- Which type of form factor?
- Form factor supporting tools (e.g., app for mobile?)

Outlining program policy
- Validity period?
- Incorporate optional additional data elements?
- Safeguarding privacy
- Ensuring access and inclusivity
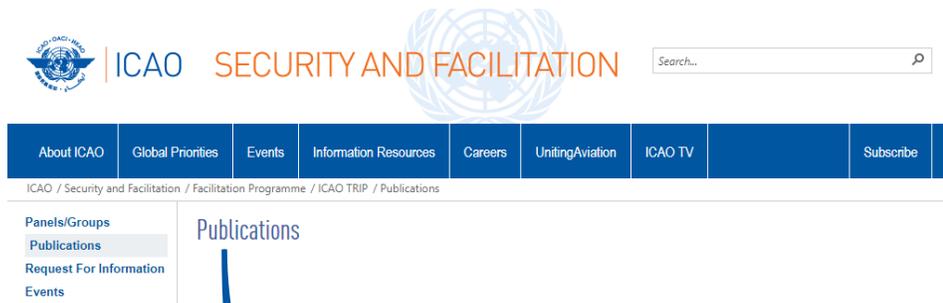
Defining service delivery
- How "touchless" can the issuance process be?
- Responding to evolving client expectations

Type 2 DTC

Passport authority will issue a booklet and a Type 2 DTC
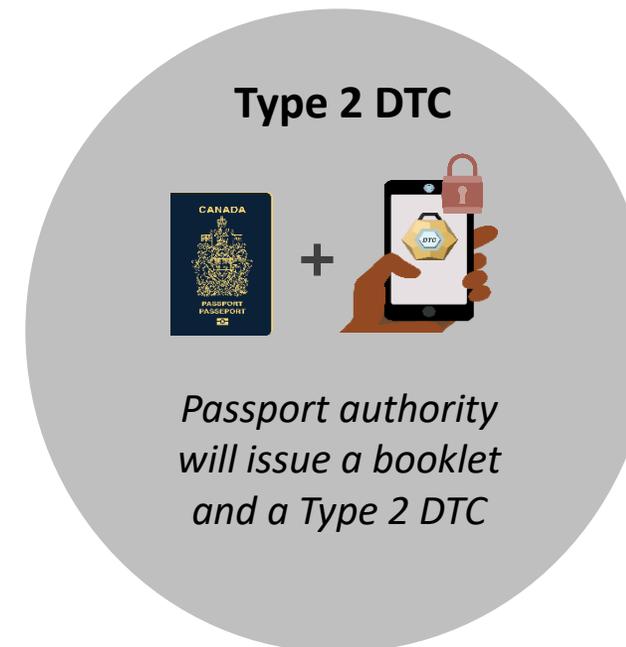
Links to Documents

ICAO/Security and Facilitation/Facilitation Programme/ICAO TRIP/Publications
https://www.icao.int/security/fal/trip/pages/publications.aspx

Guiding core principles for the development of a Digital Travel Credential

Digital Travel Credential: Virtual Component Data Structure and PKI Mechanisms

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Thank you!

—

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Thank You

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