ICAO

2025 ICAO TRIP SYMPOSIUM

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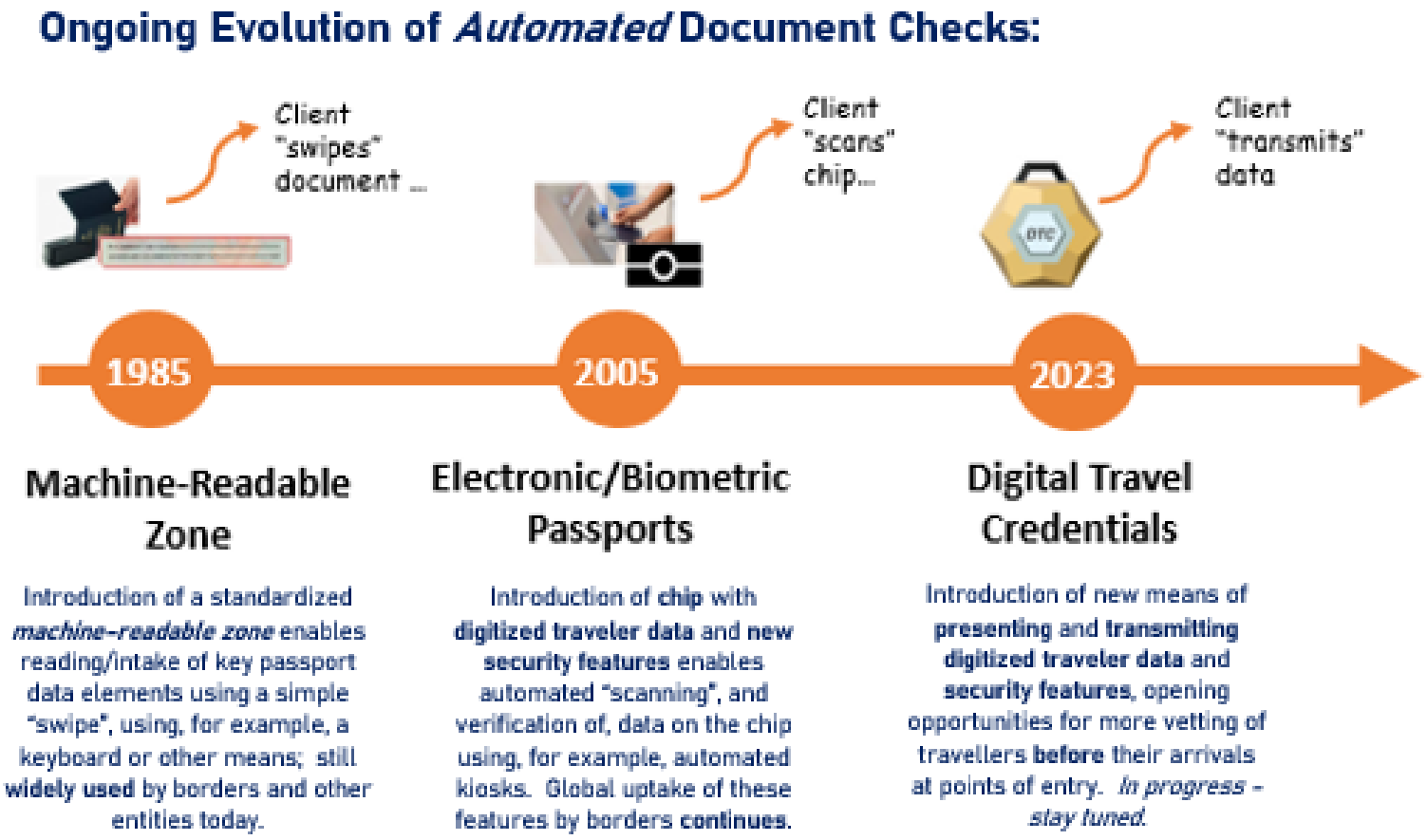
How to Implement ICAO Digital Travel Credentials

- ICAO Digital Travel Credential (“DTC”)
- *ICAO DTC (Type 1)* – Real Time Learnings
- The ICBWG’s DTC Implementation Guidance Exercise – Approach
- What Will the ICBWG Guidance Exercise Tackle Next?

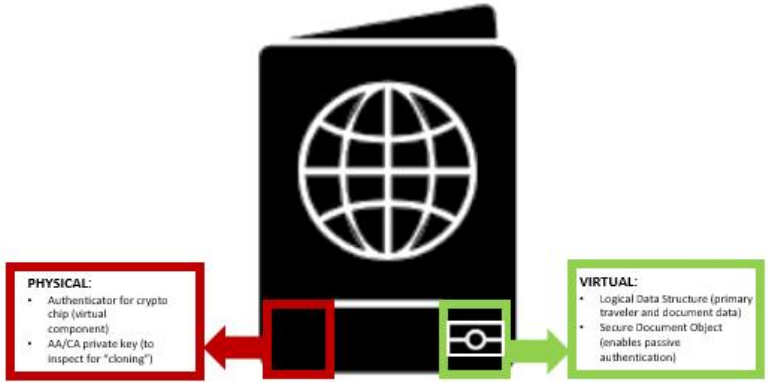
1. ICAO Digital Travel Credential (DTC)



1. ICAO Digital Travel Credential (DTC)

Maintaining the "*Hybrid*" approach to "physical" and "virtual" components…

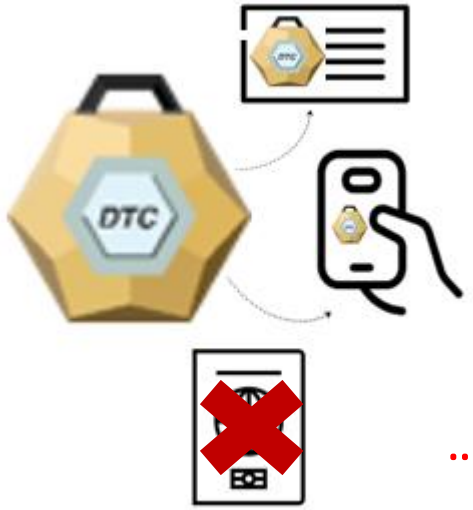
Hybrid for **eMRTD**…



Hybrid for ICAO *Digital Travel Credential*…

DTC VC

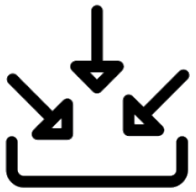
DTC PC



….but *not yet!*

+ underlying eMRTD.

2. ICAO DTC (Type 1) – Real Time Learnings



Key inputs thus far:

- **EU Pilots** and **Commission work** around digitization of travel
- **Coming soon**: other domestic inputs
  - **Canada** is developing a domestic framework for future DTC use;
  - Other similar inputs…?

- DTC **works**! It can **improve efficiency** of existing border controls.
- A consensus on **transmission protocol** for DTC will be critical to global interoperability.
- **Chip defect management** will be a key consideration for borders wishing to implement.
- IT security – data privacy – user experience: given more active involvement of the document holder, **finding the right balance** of these three elements is critical.
- Real world implementation is **very different** from lab testing.

3. ICBWG DTC State Implementation Guidance Exercise

One of the **objectives** is to give Member States a better sense of ICAO's current **baseline capacities and expectations,** versus those **optional layers** that can help orient them towards the **envisioned future state** of traveler identification.

- Priority for Phase 1: **DTC (Type 1)** ***derivation*** **step** - generating a DTC-VC using an existing eMRTD.

- **OUTCOME - "Revision 1" of DTC Guidance** to be tabled for endorsement at upcoming ***Technical Advisory Group*** meeting (November 2025).

SNAPSHOT – "Capacities for DTC (Type 1) Derivation Step"

Desired Outcomes:	Capacities:
Country A • Client able to derive DTC-VC in an *uncontrolled* environment (off airport)	**Existing:** • Experience performing ePassport verification (passive authentication and other related checks), biometrics/facial matching at points of entry **New for DTC-1:** • Development of native mobile application capable of enabling clients to import DTC-VC themselves (and made available for download)
Country B • Client able to derive DTC-VC in a *controlled* environment (on airport)	**Existing:** • Experience performing ePassport verification (passive authentication and other related checks), biometrics/facial matching at points of entry **New for DTC-1:** • Development of *digital identity wallet* with ability to receive derived DTC-VC (and made available to clients for download) • *Authority-controlled kiosk* to manage actual DTC-VC derivation, transmit encrypted DTC-VC to client's wallet

What Areas will the ICBWG Guidance Exercise Cover?

Conceptual and Horizontal Guidance

Operational Guidance

Quick Reference and Visual Tools

Envisioned Table of Contents:	PHASE ONE (for TAG/TRIP/5)	PHASE TWO (for TAG/TRIP/6 *or* intersessional approval)	NEXT STEPS
The ICAO Digital Travel Credential	✓		Revision No. 1 *ready* for TAG/TRIP/5
Scope and Application	✓		Revision No. 1 *ready* for TAG/TRIP/5
1. Foundational Implementation Considerations for States		✓	***To be a focus of Phase Two***
2. A Traveler Information Flow Integrating the ICAO DTC	✓		Revision No. 1 *ready* for TAG/TRIP/5
2.1 Creation (Derivation)	✓		Revision No. 1 *ready* for TAG/TRIP/5
2.2 Storage		✓	***To be a focus of Phase Two***
2.3 Transmission		✓	***To be a focus of Phase Two***
2.4 Verification		✓	***To be a focus of Phase Two***
2.5 Revocation		✓	***To be a focus of Phase Two***
Annex A – JOURNEY MAP – ICAO Digital Travel Credential			**scoped OUT of Guidance exercise for the time being; being advanced instead by the ICBWG Communications Sub-Group**
Annex B – JOURNEY MAP – ICAO DTC Questions and Answers (and key resources)	✓		Revision No. 1 *ready* for TAG/TRIP/5

ICBWG DTC Guidance Sub-Group Welcomes New Voices

If you are interested in participating, please reach out!

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Thank You

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