



13 - 15 SEPTEMBER 2022

Mario Wiesen / Ciaran Carolan

Chair of the ICAO PKD Board / ICAO PKD Officer

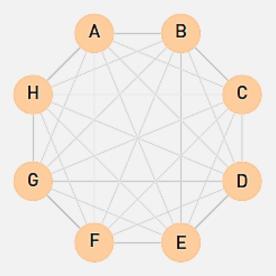


Issuance by genuine authority

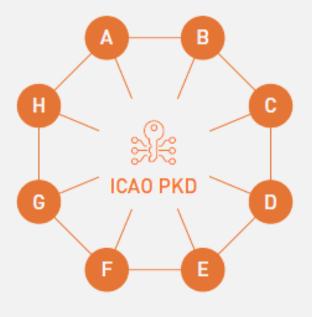
Integrity

 Data hasn't been changed since issuance (including the facial image)

Electronic Verification needs availability of public keys



Without the PKD



With the PKD

Encoded in the

national Master Lists

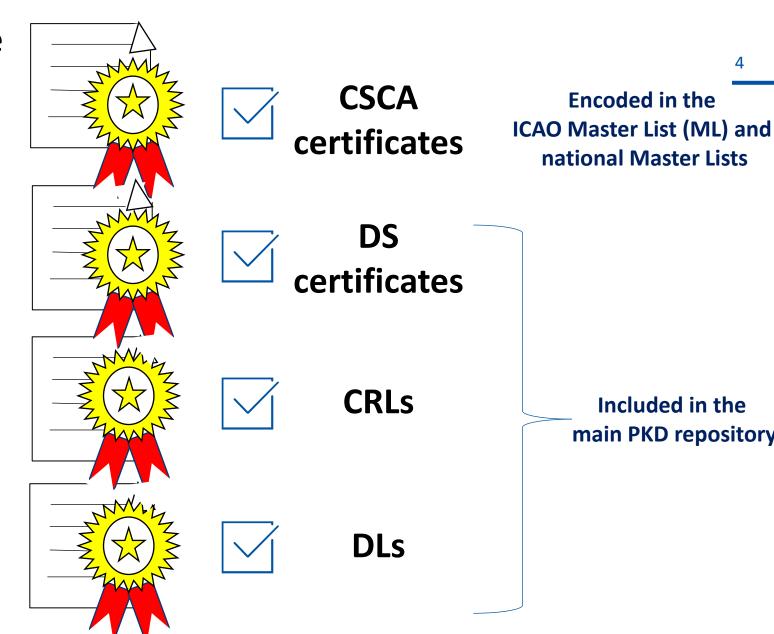
Included in the

main PKD repository

Public key Information in the **ICAO PKD**

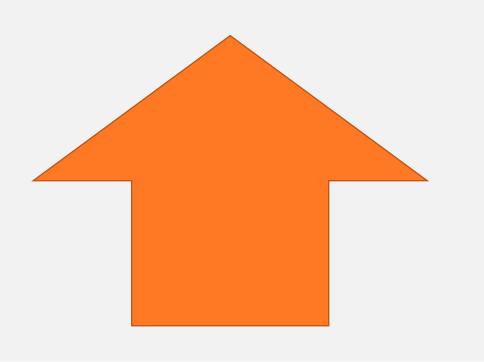
Everything needed to validate the full ePassport certificate chain

= > A One-Stop Shop for ePassport **Validation**

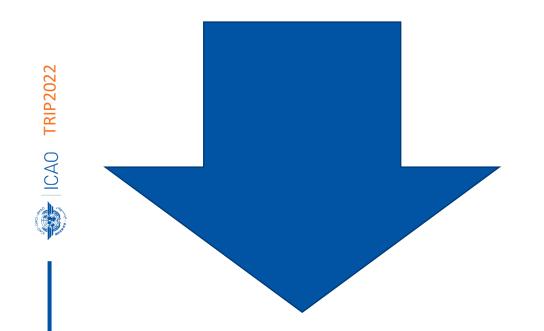


Advancing the PKD to meet current and future needs

PKD Board priorities



Value for participants

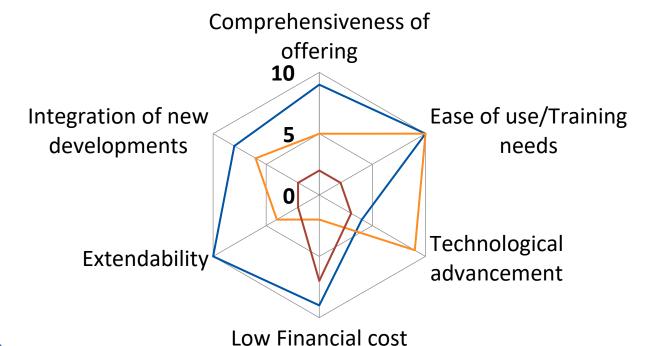


Costs for participants

The ICAO PKD – complete, flexible, low cost and easy to use

-ICAO PKD —Bilateral ID schemes —Manual Passport checks





- Increase participation and use
- Intensify capacity building
- Include additional eMRTD certificates
- Build new partnerships
- Enhance flexibility to new developments



- Increase number of participants
- Retain technological simplicity

The ICAO PKD Data Quality Coach initiative







Virtual calls to provide concrete support



On-site visit to assess implementation and provide advice



Follow-up support based on established relationships

The ICAO PKD Data Quality Coach initiative

2021-22- Mongolia is the first recipient of the PKD DQ coaching program, supported by experts from Luxembourg

2022 – Further countries standing to benefit, beginning with Barbados, Cameroon and Uganda

The program is open to all PKD participants, new and old, with selection of recipients based on submitted requests for support and geographic prioritization of the PKD Board yearto-year.



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ICAO PKD Workshop

Availing of all benefits of ICAO PKD participation: Considerations from operational and implementation points of view

Speke Resort Munyonyo, Kampala, Uganda 15 November 2022

- For existing PKD participants and representatives of States interested in possible future participation (separate tracks offered)
- Dedicated sessions for decision makers, operational staff and technical senior officers
- Objectives include:
- Enhancing understanding and awareness of ePassport
 PKI and the relevance of the PKD
- Supporting national implementations are optimal and ensure that all benefits are realized
- Facilitating exchange of information and perspectives



The ICAO PKD Private Sector Use Pilot



Grow participation amongst all who can benefit from the PKD in line with ICAO objectives

- Development of solutions by the private sector based on PKD data can enhance global capabilities to properly authenticate electronic travel documents
- Airlines/airports are asked to verify documents we need to give them capabilities to do so!

- Ensure that the PKD can support future development of globally interoperable solutions
- Standalone solutions from industry could help States more rapidly incorporate capabilities for authenticating new electronic documents (e.g. VDS-NC)
- Private sector usage can motivate improved usage of the PKD by States



Main principles

Pilot project launched in 2021

- Six month pilot period with collection of information and perspectives towards the end to direct next steps
- Usage of the existing public download capabilities to eliminate any need for capability development
- Authorization given based on derogation from defined Terms and Conditions on the PKD public download site
- Administration by the Secretariat, oversight by the PKD Board through Secretariat reporting
- Full alignment with the MoU approved by Council



Status of the pilot

Companies enrolled, more candidates expressing interest

23 Dec 2021

Pilot kick-off

May 2021

First Participant survey

31 March 2023

Pilot end date





ICAO PKD Program

Facilitating implementation of new initiatives







Experts





Supporting validation of ePassports eMRTDs

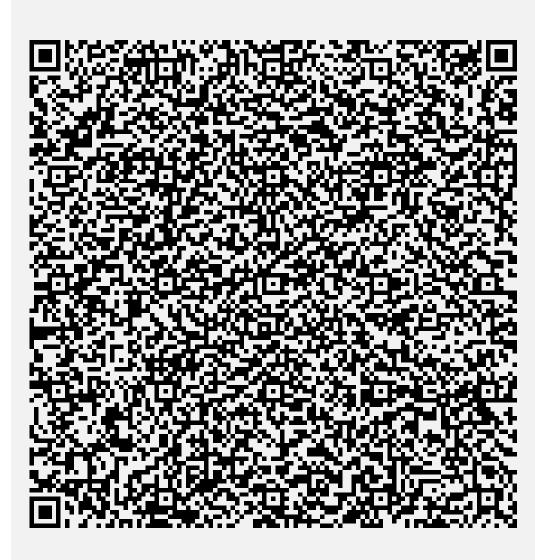


The ICAO Health Master List



Supporting use of the ICAO VDS-NC

- Public Key Infrastructure approach generally follows that of ePassports
- Trust anchor can be an existing CSCA or a different CA used for health proof purposes
- Encoding of the barcode signer certificate in the barcode is optional
 - International distribution mechanism needed for sharing of the health-oriented CA certificates and (preferably) the barcode signer certificates
- -> The ICAO Health Master List





Global PKI in support of international health proofs for travel









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The ICAO Health Master List

- All that is required to assure authenticity and integrity of VDS-NC
- Sharing trust anchors for international health proofs

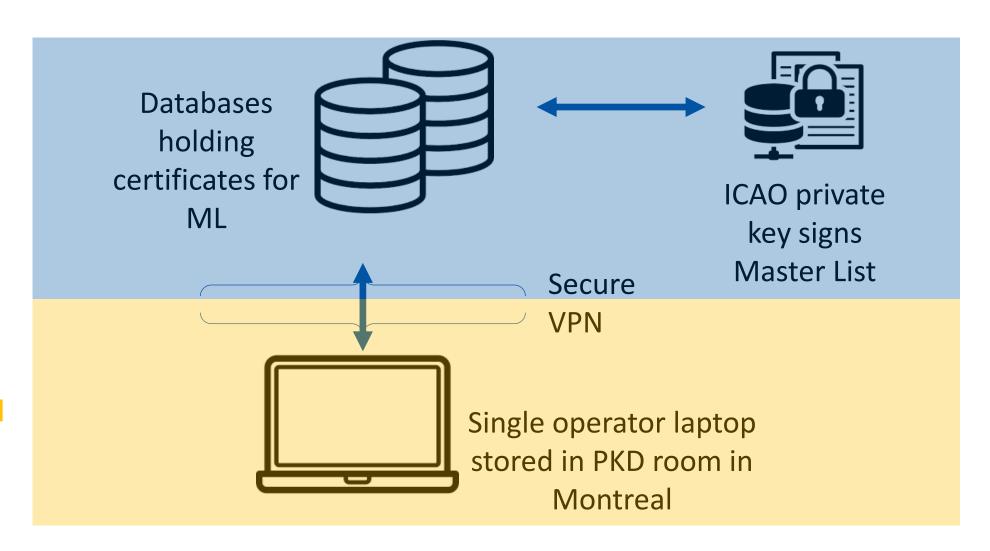
Collaboration with INCERT LU -> free of charge for ICAO and for participants

INCERT, Luxembourg

ICAO, Montreal

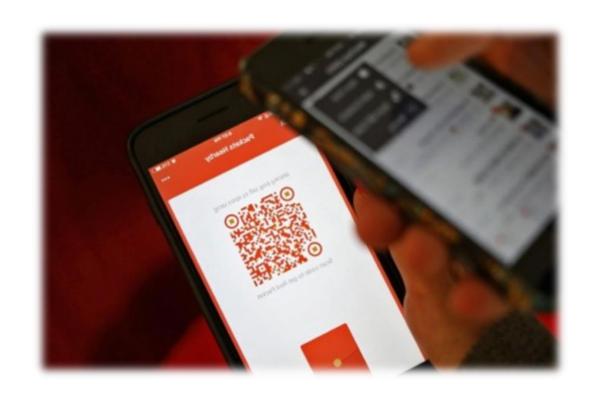
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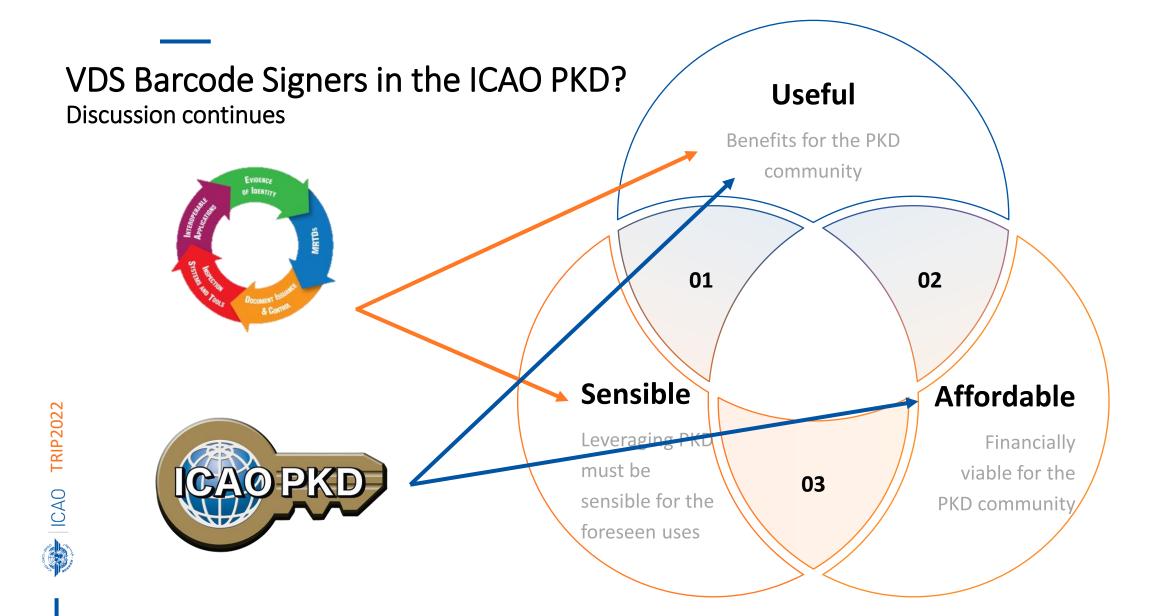
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Visible Digital Seals (VDS) for Non-Electronic Documents -Part 13, 9303, 8th Edition

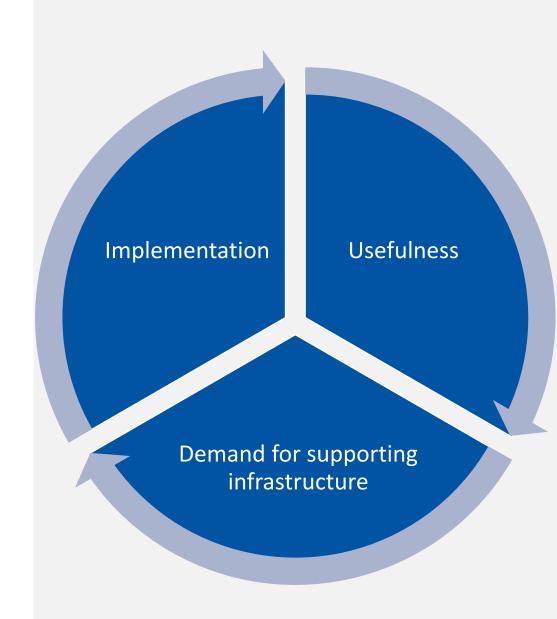






TRIP-PKD Cooperation is essential

- Vital that specification development goes hand-in-hand with PKD implementation planning to the greatest extent possible
- Common awareness of interrelations critical within WGs and governance structures
- Mutual interest in capacity building and implementation support implies cooperation in this area





Thank You

ICAO Headquarters Montréal European and North Atlantic (EUR/NAT) Office Paris

> Middle East (MID) Office Cairo

Eastern and Southern African

(ESAF) Office

Nairobi

Western and Central African (WACAF) Office Dakar Asia and Pacific (APAC) Sub-office Beijing

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Central American
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(NACC) Office
Mexico City

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