

ICAO PKD – Current state of play

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AUCTORIZO (medieval Latin)

- to confirm, approve, authenticate.

TRUST

- E-Passports are issued by entities that assert trust in the document
- Trust depends on the requirements of the relying party – Border Control of foreign countries

TRUST

- Trust is established by proper verification of the e-Passport
 - Verify SOD against DSC
 - Verify DSC against CSCA
 - Verify DSC not in CRL
 - Compare DG1 with MRZ
 - Compare DG2 with printed photo and the holder

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REQUIRED DATA

- Need to have CSCA for each Issuer
 - Diplomatic exchange
 - Master Lists published in PKD
 - 138 CSCAs in Master Lists published by Germany, Switzerland and Hungary.

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REQUIRED DATA

- DSC can be on chip or may not be present
 - PKD has pre-validated DSCs from 27 countries
- CRL needed for validation
 - CRLS from 27 countries available from 27 countries on the PKD.
 - Available for anonymous download using http access

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Non Conformant entries

- Given complexity of PKI, some mistakes will happen in issuing CSCA, DSC or CRL
- Need a central validating entity for conformance
- PKD plays the role of enforcing DOC 9303 conformance
- Non Conformant entries are published with Machine Readable Error Codes

Mistakes in Personalization

- Mistakes in personalization systems can cause issues at verification
- Defect List allows countries to inform border control agencies of such mistakes, so that they are not identified as fraud

Structure of PKD

- Two sites – Singapore and Bangkok, in Master-Master Configuration
- Synchronised in real time – maximum delay between synchronisation is 5 seconds

Structure of PKD

- PKD Operations office in Montreal – does verification of uploaded entries to ensure that only validated entries are published
- Anonymous download using http, authenticated download using LDAP

Structure of PKD

- CRLs available for anonymous download using http and https
- Defect Lists will be implemented soon in the PKD

TRUST - Revisited

- Issuing E-Passports is not enough to assert trust in your travel documents
- Border Agencies must be able to validate your document to accept that trust
- Only mechanism for exchanging required credentials is the ICAO PKD
- 45 Countries have understood this – Have you?

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THANK YOU

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