ICAO Ninth Symposium and Exhibition on MRTDs, Biometrics and Border Security 22-24 October 2013

PKD: A Crucial Component of the Border Control Architecture

Roman Vanek

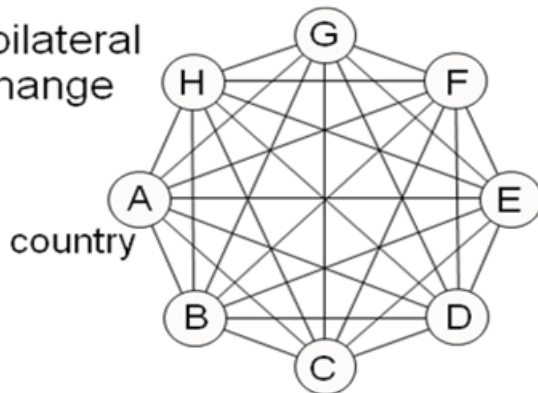Federal Office of Police, PKD Board Chairman

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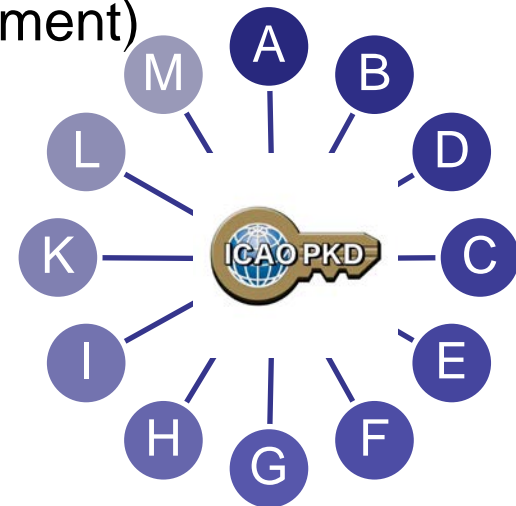
What is the PKD?

A repository for:

- Document Signer Certificates (conformity validated – non conformant certificates are also made available)
- Revocation Lists
- Master Lists
- CSCA Certificate (possible future development)

Conformity validated certificates

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Vision on the horizon

All ICAO Member States can uniquely identify individuals – Part of TRIP Strategy

- Secure identification is essential when crossing borders.

- Facilitation level must be maintained or be improved.

- This identifications must guarantee the highest
    possible degree of certainty, security and efficiency
    = Trust.

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Role / Importance of travel documents

Todays annual airtravel: 3 billion

Expetecd airtravel 2030: 6 billion
(Source: ICAO 198th Council Session WP 13926)

• To support this growth the necessary infrastructure must be put into place.
• To guarantee security and deny unwanted individuals to cross borders with anonymity a robust travel document scheme is a must.

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Expectations

- **Shortening of time required for border controls** –
  efficient, fast and secure reading and verification of MRTDs

Land Borders and

„Air" Borders

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Ways to improve speed, reliability and security of border controls

- Manpower – Increase the personal used in border controls

- Improve technology applied (fast readers – fast applications)

- Separate the passanger flows – separate the passanger groups based on nationality, previous assesment; registered traveller programs (mostly with a separate token)
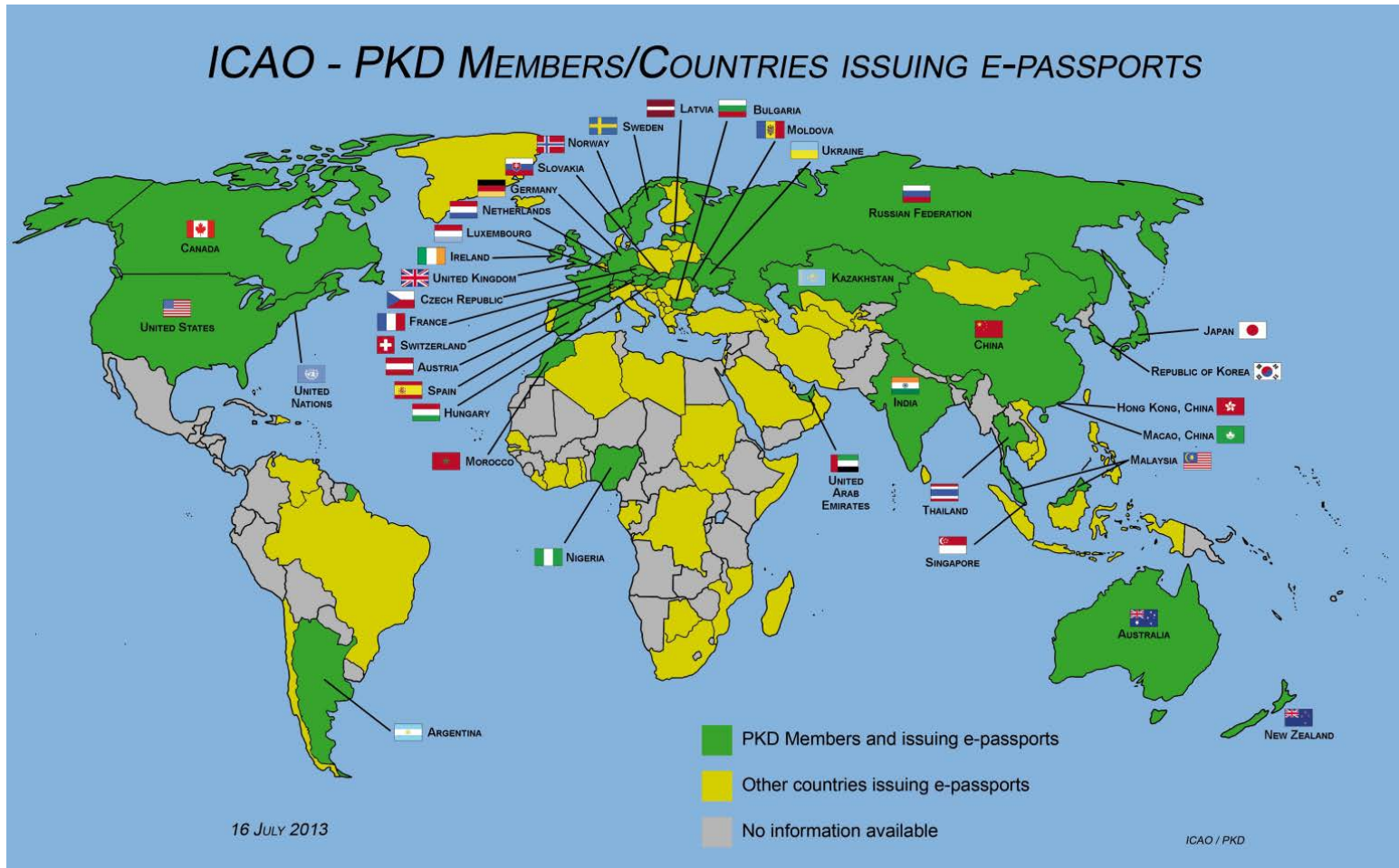
**Fast Track
XX Card
$$$$$**

Alternative: eMRTD

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PKD State of play – 38 participants

ICAO - PKD MEMBERS/COUNTRIES ISSUING E-PASSPORTS

16 JULY 2013

PKD Members and issuing e-passports

Other countries issuing e-passports

No information available

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Which part of the "*e*" have Border Control Authorities to check ?

- Some may require only CSCAs (**minimum requirement**, trust chain)
- Some require CSCA and CRL
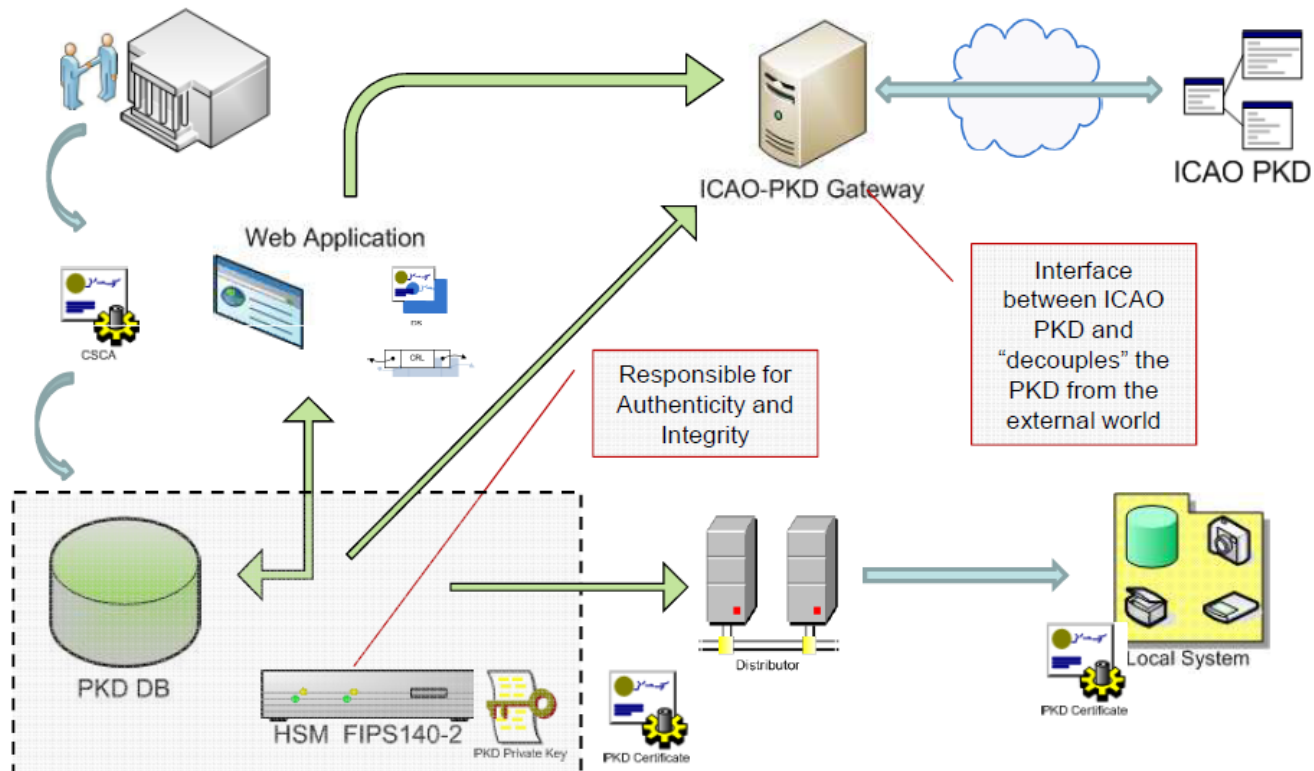- Some require CSCA, DSC and CRL
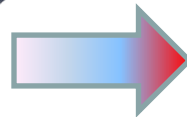
Make all three available and let the responsible authorities use what they want.

Join the ICAO PKD

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Best practises – Switzerlands General set-up

The PKD Infrastructure ... Details

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The PKD management application ...

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Key elements of the application

- Decide on **one** responsible authority – one application that handles all aspects

- Import, activation, deactivation of CSCA, DS, CRLs

- Import and create Master Lists

- Synchronize regularly with the ICAO PKD (daily)

- Distribute the enabled certificates to the users (Borders, Police etc.)

- Apply caution – implement and live security (access control, 4 eyes principle, secure data storage (HSM FIPS 140-02))

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Operational recommendation I

- Check PKD for updates at least once every 24 hours (Doc 9303 recommendation).

- Check the validity of your own entries in the PKD after upload.

- Upload CRLs before the previous on expires. CRLs can still take up to 7 hours to publish. Countries that download may download only once every 24 hours.

- Use delta LDIFs as much as possible for downloads as this will reduce download time and bandwidth usage.

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Operational recommendation II

- CSCA – Master List as a work around if CSCA not available

- Three master lists available so far
- (Australia, Germany and Switzerland)

Master List

81 CSCAs are available through the Master List from Switzerland.

Create Master Lists and make them public

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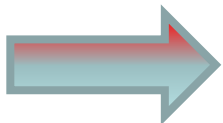
Facts & Figures(April 2013)

- Number of PKD Participants: 38

- Number of ePassports in circulation: over 484'000'000

- Number of ePassports issued by PKD Participants: 370'000'000

76 % of ePassports are issued by PKD Participants = very high benefit for border control authorities.

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Finances

Registration fee (one time):   **USD 56'000**

Operator fee 2013:   **USD 43'000**

ICAO fee 2013:   **USD 16'000**

Participation Fee 2013   **USD 59'000**

Operator fee reduction as of 1.1.2014:
USD 34'000 (21 % reduction, compared to 2013)

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In the best national interest

➡️ **Border Control Authorities interests in the PKD**

Protecting the borders in a reliable, cost effective and fast way living up to the citizens

expectations for facilitation & security.

It's not required, that a country already

issues MRTDs – Border Control Agency

may join

➡️ **Issuing Authorities interests in the PKD (may also join)**

world wide recognition of a nation's eMRTD, allowing it's citizens to cross borders as easily as possible.

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One more reason to join – easy access to the experts

The 17th Meeting of the Public Key Directory Board
Rabat, Morocco – 8 to 9 May 2013

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Chief Division Identity Documents
and Special Tasks –
PKD Board Chairman

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Information on the PKD
http://www.icao.int/Security/mrtd/Pages/PKD-HowtoPartici.aspx
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