

UNCLASSIFIED



# **FALP/5 – WP/3 Passenger Facilitation and the ICAO PKD for ePassports**

**April 3, 2008**

**Leslie Crone  
ICAO PKD Board  
Member for Canada**



Passport Canada    Passeport Canada

**Canada**



# Proposed Amendments to Annex 9

---

## To Chapter 1

- Add definitions for the terms “e-Passport” and “ICAO Public Key Directory (PKD)”

## To Chapter 3

- Add as a **Recommended Practise** :

3.9.1 *“Contracting States:(a) issuing or intending to issue ePassports; and/or (b) implementing at border controls automated checks on ePassports; should join the ICAO Public Key Directory (PKD).”*



# What is the ICAO PKD ?

---

- Central Repository of PKI Certificates and Certificate Revocation Lists (CRLs) issued by Participants
- System for distribution of the PKI Certificates and CRLs
- Maintained by ICAO to facilitate validation of data in ePassports



# ePassport PKI Validation

---

- ePassport validation is achieved via the exchange of Public Key Infrastructure (PKI) certificates.
- The system is **privacy enhancing** because it does not require or involve any exchange of the personal data of passport holders and the validation transactions help combat identity theft.



# The Border Clearance Process

---

## Step # 1 - Confirm identity

- 1 Integrity of issue process?
- 2 Genuine passport?
- 3 Passport unaltered?
- 4 Genuine holder?
- 5 Passport lost/stolen/cancelled?

---

## Step # 2 – Decide whether the passenger and accompanying goods can enter

- 6 Intentions of passport holder?
- 7 Entry criteria met?
- 8 “Alerts”?



# ePassports in the Border Clearance Process

## Step # 1 - Confirm identity

- 1 Integrity of issue process?
- 2 Genuine passport?
- 3 Passport unaltered?
- 4 Genuine holder?
- 5 Passport lost/stolen/cancelled?

PKI Validation

Biometric Comparisons

Interpol Mobile Interpol Network Database/Fixed Interpol Network Database (MIND/FIND) & Regional Movement Alert System (RMAS)

## Step # 2 – Decide whether the passenger and accompanying goods can enter

- 6 Intentions of passport holder?
- 7 Entry criteria met?
- 8 “Alerts”?



## Benefits of ICAO PKD in Border Control

---

- Benefits of PKI validation (and checks of lost/stolen passports, and biometric comparisons) are maximised in fully integrated solutions where all Passport holders are examined (eg Smartgate)

Benefits can still be obtained from cheaper, less integrated, risk based approaches – eg PKI validation (and checks of lost/stolen passports and photos on chips) of ePassport holders referred to secondary examination.



# Why the ICAO PKD?

---

Exchange of public key certificates must be:

- manageable
- reliable
- timely
- sustainable..... indefinitely





UNCLASSIFIED

# ICAO Public Key Directory

---

- For more information go to:

**<http://www.mrtd.icao.int/>**

or address queries via e-mail to:

**[ICAO-PKD@ICAO.INT](mailto:ICAO-PKD@ICAO.INT)**