



INTERNATIONAL CIVIL AVIATION ORGANIZATION



الهيئة العامة للطيران المدني
CIVIL AVIATION AUTHORITY

ICAO Regional Seminar on MRTDs, Biometrics and Border Security

دوندوة الايكاو الإقليمية عن وثائق السفر المقروءة آلياً، والأدوات البيومترية وأمن الحدود
الدوحة، قطر *

31 October - 2 November 2011, Doha, Qatar

٣١ أكتوبر إلى ٢ نوفمبر ٢٠١١



Key Elements of the e-MRTD

Robin

Chalmers

Consultant, United Kingdom

E-MRTD Key Elements



- CHIP
- LOGICAL DATA STRUCTURE (LDS)
- DATA SECURITY
- PUBLIC KEY INFRASTRUCTURE (PKI)

CHIP



- Reliability
- Location

LOGICAL DATA STRUCTURE



- Electronic representation of data page
- Data Groups
- LDS2

DATA SECURITY



- Privacy concerns
- Skimming
- Eavesdropping
- Cloning
- Security measures

PUBLIC KEY INFRASTRUCTURE



- Enables validation of data
- Private and public keys
- Public Key Directory

CONCLUSION



- MRTD specifications have endured
- VIZ/MRZ remain as originally envisaged
- E-MRTD has enhanced travel document security
- E-MRTD has enabled passenger facilitation



Thank you
Robin Chalmers

ICAO Regional Seminar on MRTDs, Biometrics and Border
Security, 31st October-2nd November 2011