

An Essential Transformation Trusted Identity & Security at Borders

Every country faces critical challenges at their borders. The technologies required to address these challenges exist today. This illustration shows how they can be configured to greatly improve security and efficiency at the border.

How will you address traveller identity validation?

AIRPORT VOLUMES
Dubai: **70.5M**
Heathrow: **68.1M**
Hong Kong: **61.8M**

INTERNATIONAL TOURIST ARRIVALS
Topped **1.3B** in 2014
Anticipate **1.8B** by 2030

120 Countries
Issuing eMRTD

80% Growth in terrorism in 2014
Foreign Fighters Exceeds **30,000** by Jan 2016
59.5M displaced by war in 2015

53M+
Lost or stolen travel documents as of November 2015

SECURE BOOKLETS

SECURE SUPPLY CHAIN

Serialized booklets allow for tracking and accountability from the supply chain process to secure issuance to validation at borders and other points of engagement.

SERIALIZED BOOKLETS

Serial numbers allow specific booklets to be assigned to specific countries and, ultimately, specific individuals.

BOOKLET ACCOUNTABILITY

Trace through issuance and use of document

DIGITAL & PHYSICAL MEASURES

Security measures in the supply chain augment use of verifiable serial numbers.

CENTRAL ISSUANCE

High-volume central issuance operations provide efficiency and cost optimization for passport and national ID programs.

DESKTOP ISSUANCE

Advances in desktop issuance technologies allow embassies and other remote locations to securely produce permanent passports.

SECURE ISSUANCE

FACILITY SECURITY

DEVICE AUTHORIZATION
Passport issuance systems and other devices used in the process are serialized and tracked.

EMPLOYEE AUTHORIZATION
Security controls restrict operator access to issuance systems and create tracking logs.

MATERIALS HANDLING
Booklets, printer supplies, security overlays and other materials are serialized, tracked and stored in secure facilities.

DOCUMENT SIGNER

Data Page biographical data, the photograph and any biometrics are hashed and digitally signed. The Digital Signature provides the basis for proof of data authenticity and integrity

SECURE CREDENTIAL

DIGITAL SECURITY MEASURES

- Document Signer Certificate
- Digital Travel History
- Digitally Signed Biographical & Biometric Data

PKI technology provides high assurance of document integrity and authenticity.

PHYSICAL SECURITY MEASURES

- Covert Features (such as UV)
- Optical Variable Devices (OVD)
- Laser Engraving & Microprinting

Physical security features make it virtually impossible to forge or alter documents without obvious evidence of the attempt.

TRUST INFRASTRUCTURE

ISSUING PKI

ICAO PUBLIC KEY DIRECTORY

NATIONAL PKD

SPOC

BORDERS PKI

BORDER VALIDATION

WHO? WHAT? WHERE?

OUTBOUND

OUTBOUND TRAVELERS
e-Passport or similar credential presented for digital validation and visual inspection. Leverage full suite of validation capabilities at outbound.

INBOUND

INBOUND TRAVELERS
Validation technology allows field agents to make better decisions in less time — with supports automated validation integrated with eGates for efficiency without reducing security

ADVANCED PASSENGER INFORMATION

Data regarding each segment of a journey is captured and integrated with the traveler's trusted identity.

NO VALUE WITHOUT VALIDATION

FIELD OFFICER

AUTOMATED E-GATES

SELF-SERVICE KIOSK