

ICAO Regional Seminar on MRTDs, Biometrics and Security Standards

Séminaire Régional de l'OACI sur les normes des documents de voyage lisible à la machine, de biométrie et de sécurité

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Evidence of Identity - a cornerstone of a secure travel document

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Background

 Technical and physical security features, and increased checking at the border, is making it more difficult to produce counterfeit travel documents







- As quality and integrity of the physical travel document improves, weaknesses in the issuance process will be targeted
- Poor issuance processes can undermine the integrity of the travel document and the State's investment in secure technology









Using robust processes to establish the identity of an applicant is a cornerstone of secure travel document issuance





Evidence of Identity (EOI)

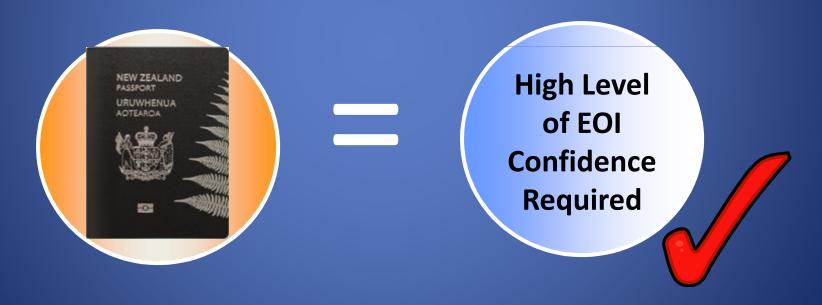
- EOI is growing internationally as an area of focus
- Some States have developed national standards and frameworks
- Other States employ robust EOI processes as part of their issuance process without developing standards at a national level





Risk-based EOI

 EOI requirements should be relative to the risks and downstream effects of providing the product or service





EOI Authentication Principles

Identity
Exists and is
Living

Applicant
Links to
Identity and
is the Sole
Claimant

Applicant
Uses
Identity in
the
Community

 First-time interaction MUST be robust so that subsequent contact can leverage off initial EOI



EOI Principle 1: Proving

Data Validation

Reports

Data Validation Services

Validation Results

Document Type: Nama Hruwbenna

Certificate Number:

Surname: Ingoa Whānau

First/Given Name(s): Ingoa Tapa

Date of Birth: Te Rā i Whānau Ai

Country of Birth: Te Whénua i Whānau

Data Status:

Transaction Number:

Citizenship

06/04/1978

Invalid Data

C10000181

England

1234567

SMITH

john

1-2 documents validated against source

OR

Verification against 1-2 source registers

> Death Checks

Proving Identity Exists and is Living





EOI Principles 2 & 3: Linking

Determine if Applicant Links to Identity

Provide confidence of applicant's 'social footprint'

Applicant Uses Identity in the Community



In-person verification, trusted referee, interview

Applicant is the Sole Claimant

Check against agency records (names and/or biometric matching)

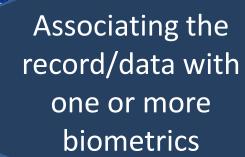


Final Step: Binding

Binding to Biometric













 Different challenges for different issuing authorities

 Legislative environment can have an impact on information sharing/validation



EOI Analysis

EOI information stock-take







 Analysis of each potential document or record and its value in an EOI process

Process for Registration of Birth



Citizenship Process



EOI Analysis (2)

- Confidence that an identity is operating in community is becoming increasingly important to issuing authorities
- Less confidence in civil registry information may result in need to increase EOI confidence in other areas ('social footprint')
 - electoral role
 - school and hospital records
 - driver and firearms license
 - utility bills / bank records



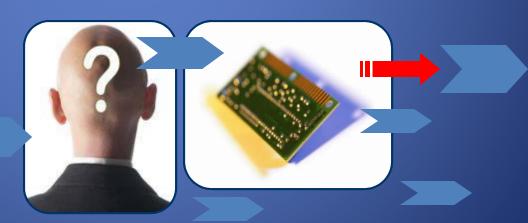


Evolving EOI

 Applying EOI is an evolving process – as technology/environment changes, States need to adjust

EOI and technology must move forward

together





Biometrics

- Every State already collects face biometric potential for Facial Recognition
- Give confidence to linking process, and that the applicant is the sole claimant
- Scale of deployment can be 'fit for purpose' to complement back office risk profiling and data mining
- Can benefit productivity as well as improving integrity







Applying EOI Case Study – New Zealand

- EOI Standard first published in October 2006 (revised 2009) as part of a suite of Authentication Standards
- Multi-agency development
- Adopted across government, including:
 - Inland Revenue (Tax)
 - Transport Authority (Driver License)
 - Ministry of Social Development (Welfare Benefits)





Case Study – New Zealand (2)

Proving Identity Exists and is Living

Verification against 1-2 source registers

Death Checks EOI Standard is integrated into passport issuance process



- Electronic access to authoritative source registers to verify NZ life event details
 - name at birth, parent's details, name change and marriage/civil union details
 - verification against citizenship database
 - death checks
- No longer rely on physical documents so no risk of counterfeits



Case Study – New Zealand (3)



Trusted referee (NZ passport holder)

- Previous passport records
- Facial recognition
 - 1:n matching (sole claimant)
 - watch-list
 - adult renewals

Applicant Links to Identity and is the Sole Claimant

Binding





Case Study – New Zealand (4)



- NZ has high confidence in registry information, so less emphasis has been placed on evidence of 'social footprint'
- NZ moving towards automated checks, including social footprint (electoral role), other government databases, and possibly private sector information
- NZ source documents and data are from public registers – robust back-office checking/validation can still result in high EOI confidence



Key Points

- Broad EOI concepts are applicable to any passport issuing organization
- Passport issuing authorities need to develop a framework – approach EOI in a systematic way
- Evaluate and understand EOI environment

Identity Exists and is Living

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Support and Guidance





EOI Guidance material

- New Zealand EOI Standard (available at www.dia.govt.nz)
- Australia Gold Standard Framework
- ICAO New Technologies Working Group is developing guidance material
- ICAO Implementation and Capacity Building Working Group can assist with assessments and developing robust EOI processes for TD issuance





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