

Bruk av biometri vid grensekontroll Use of biometrics at border control

Biometri og Identitet -NID Senter seminar April 2012

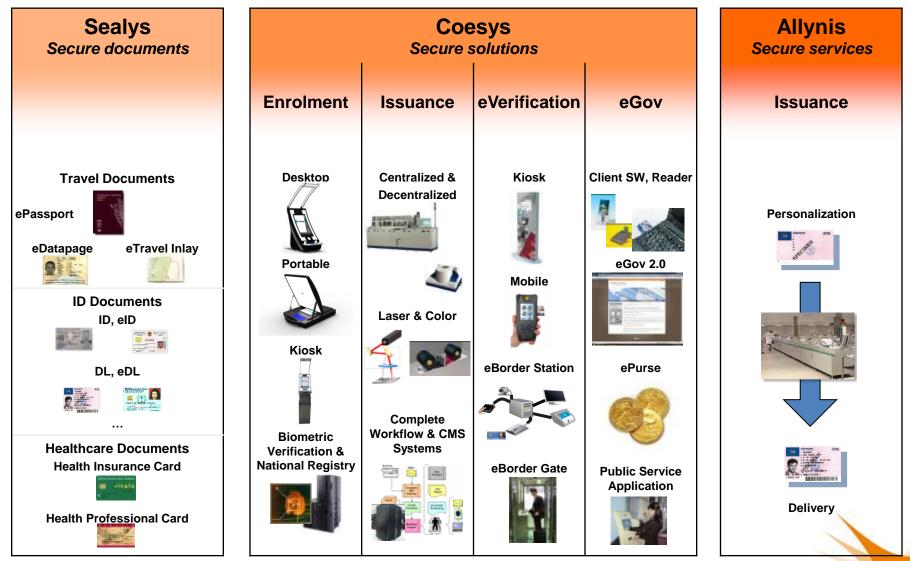
Kristian Honkanen Gemalto

Agenda

- 🗙 Gemalto in brief
- × Biometrics and Border control
- × Automated Border Control ABC
- ✗ ABC in Europe
- X Mobile border control
- X Norway eGate-project Politiet



Gemalto: a complete offering





eVerification

Document Delivery Station



Self-service Verification kiosk

Border Control Station



Automated Border Control

Mobile Verification Terminal



Tablet PC vehicle





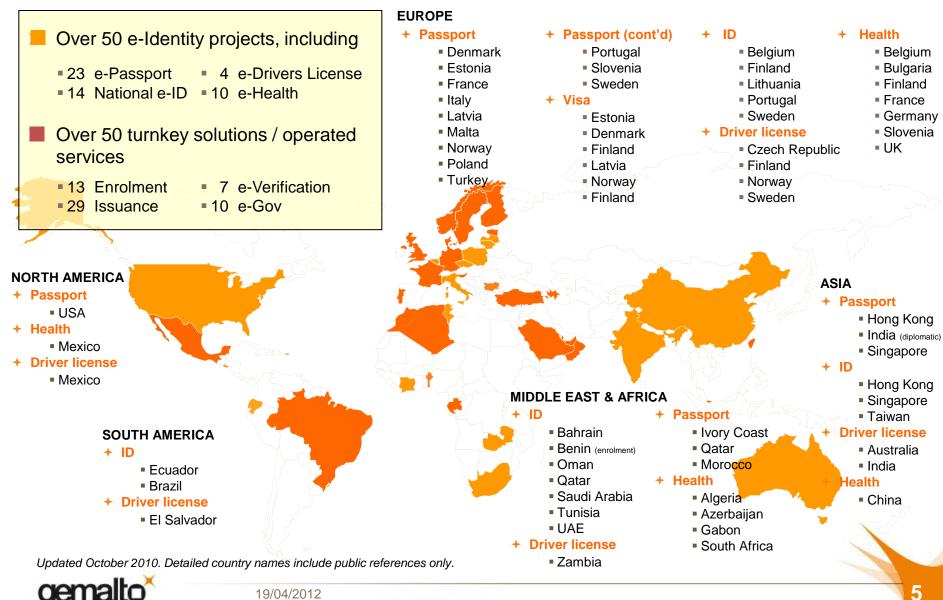
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Worldwide Sales Training Tour

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Gemalto Identity references

19/04/2012



Biometrics and Border Control

- X Two main tasks of Border Control
 - Verify that a person has the right to enter (and exit) a country
 - Travel document
 - Visa
 - Additional documentation and information
 - Verify that the travel document holder is the right person
 - Biographical data
 - Biometric data
 - Watch lists





Biometrics and border control

- \times 193 countries* in the world \times Choice of biometrics
- X Variety of travel documents
 - ePassport
 - Passport
 - (e)ID cards
 - **Resident permits**
 - Visas
 - **Driving license**

- - Face
 - Fingerprint (1-10)
 - Iris
 - Signature
 - Gait
 - Veins
 - Others



* UN Member States



Biometrics and border control

- 🗙 Facial picture
 - Mandated by ICAO and EU
 - Frontal picture
 - Stored on the passport chip
 - Protected by BAC, "Open data"
 - ePassport, EU eID & eRP



- × Fingerprints
 - Mandatory for EU and EEC passports
 - 2 index fingerprints stored
 - Protected by EAC
 - EU Schengen Visa
 - 10 fingerprints stored in central database





Why Automated Border Control?

× Service

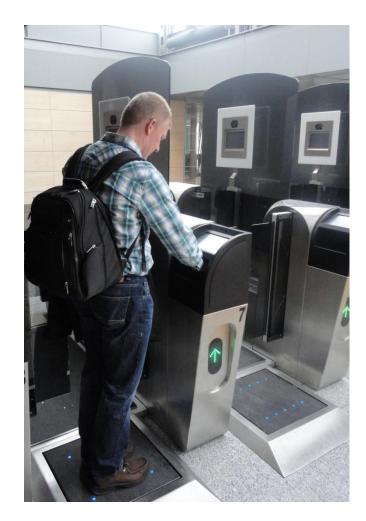
- better service for passengers
- better service for airports
- better service for border control

× Security

- same controls as in manual control
- in addition biometric matching , i.e. facial recognition
- ABC is unbiased, same procedures for all passengers

× Resource optimization

- one border officer can control 3-7 eGates
- manual resources on high risk travelers



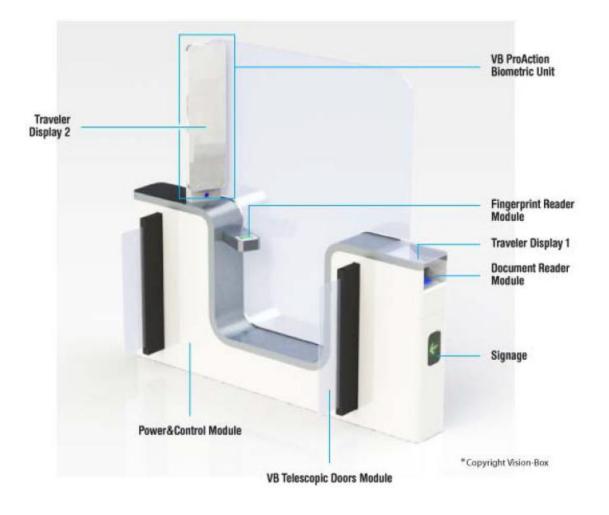


Helsinki Airport eGates





eGate modules and functions











Mobile eVerification use cases

× Document and Identity verification

- Document reading
 - eDriving License
 - elDentity card
 - eResident Permit
 - ePassport
 - eHealth card
- Document Authentication and security features
 - BAC, BAP, SAC, AA, TA, EAC, EAP
- Biometric Verification
 - 1:1 verification (Match on Card or Match on Terminal)

× Biometric Identification

- Finger Print acquisition
- 1:n verification (AFIS with back end access)

× Back end verification

- Document data base re-search
- Peoples data base re-search
- × Electronic Infringement notice











Capable to read all electronic identity documents Capable to capture and match fingerprints





OCR A

OCR B

What is there for the future?

× Alternative biometrics

- Fingerprints
- Iris
- DNA
- ...
- New type of eGates and processes
- X Mobile verification units
- \times 3rd country nationals
- 🗙 EU entry-exit program



What is common with these celebrities?



Match: 68% M

Match: 67%

Match: 65%

% Match: 63%

Match: 61%

Tony Blair

Bryan Adams Francis Ford Coppola Simon Cowell Daryl Hannah



Courtesy http://celebrity.picadilo.com/

Thank you for your attention

Questions?

kristian.honkanen@gemalto.com



