iDeal Pass

From the ICAO platform to an ID global solution

ICAO Symposium
November 04th 2010

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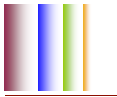
Electronic embedded solution

From 1577 to 2010

■ **Travel documents**

- ➢ **Market's requirements for a Passport platform:**

  - ➢ **ICAO 9303 compliant**

  - ➢ **Common criteria security evaluation**

  - ➢ **Compliance with new BAC/EAC PP (PP055 and PP056)**

  - ➢ **Fast EAC transaction in less than 3 seconds**

  - ➢ **Large memory space for personalization data**

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Identity documents & Markets needs

- ➢ **Compliance with IAS ECC standard**
- ➢ **Extended :**
  - ✓ **MOC**
  - ✓ **Elliptic Curve**
- ➢ **Security evaluation based on the Common Criteria V3.1 new PP SSCD**
- ➢ **Introduction of SSCD with Elliptic Curves**
- ➢ **Introduction of PKI + Java card open**

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Technical characteristics

BAC, Passive authentication Active Authentication
Supplemental Access Control for next generation

EAC with support of RSA and Elliptic Curves

80 Kbytes EEPROM available.

8/16 bits micro Controller

Typical performance

Based on FAR 1%

	Typical FRR
Single Biometry Typical Perf.	
▪ Fingerprints	
▪ Face	
▪ Iris	
Sequential Biometry Perf	
▪ **Fingerprints + Face + Iris**	▪ **0.003 %**

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IDeal Platform Strengths

- ➢ **Performances**

  EAC full transaction in < 2,7 seconds

- ➢ **Java card open solution**

- ➢ **State of the art of security**

- ➢ **Large space for CC Certificates**

- ➢ **Full EEPROM available**

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➢ *First Biometric-based signature product*
Common Criteria certified

➢ **Extended :**
  ✓ **MOC**
  ✓ **Elliptic Curve**

➢ **First product compliant to new BAC/EAC PP (PP055 and PP056)**

➢ **Compliant to IAS (I***dentification* **A***uthentication* **S***ignature***) ECC standard**

➢ **First product SSCD in CC v3.1**

➢ **First product SSCD with Elliptic Curves**

➢ **First product PKI + Java card open solution**

Qualified to be used in inlays and prelams for available technologies *(Polycarbonate, PET, "Paper", …).*

■ **IDeal products are designed to meet each market's specific needs and requirements. IDeal is available in different materials and technologies, combining outstanding security, speed and user convenience .**

■ **Travel Document market (passport, visa) :**

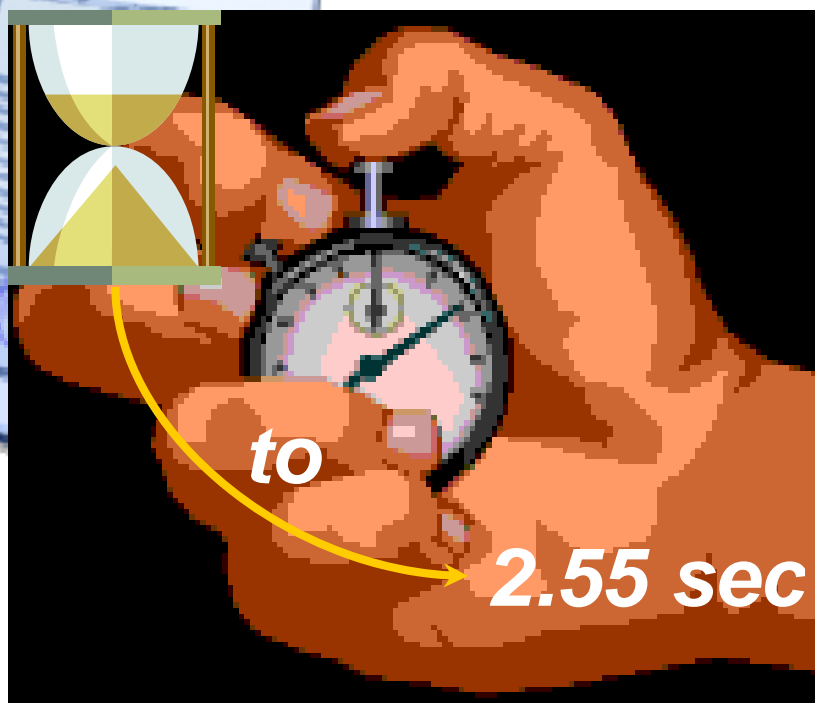■ **Identity market (ID Cards, Resident cards, e-services) :**

■ **Road Safety (Driving license, Tachograph, car reg.) :**

■ **Health Market (Health card, professional cards) :**

From 1577 to 2010

to

2.55 sec

e-Documents

Thank you !

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