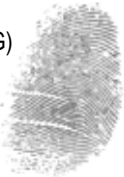




## ■ Concepts

- **Second Generation ePassports:**
  - The fingerprints of left and right Index Fingers will be added to
  - Access to Fingerprints protected by Extended Access Control
- Schengen Member States had to implement fingerprints in ePassports by **July 28th 2009**
- Germany is issuing ePassports with Fingerprints since November 1st 2007.
- Interoperability Tests by Brussels Interoperability Group (BIG)



- **Face to Face Verification of eID Documents**
  - Desktop Solution (Border Control Booth)
  - Portable Solution (Suitcase)
  - Mobile Solution (Handheld)
- **Self-Service for Verification of eID Documents**
  - Autogates
  - Kiosks

- **Schengen Area;**
  - 25 Countries of European Union
  - plus Norway, Iceland, Switzerland
  - Population: approx. 450MM
- **No Border Control between Schengen Countries (exception Bulgaria, Cyprus, Romania)**
  - Right of Union Citizens to move freely within the Member States
- **Strengthen Borders between Schengen and Non Schengen Countries**
  - Offer the highest Level of Security for the Schengen Countries
  - Make Travel as convenient as possible



## Trend on Mobile Solutions



## Desktop Solution for Document Verification



- Full Page Document Scanning
- Parallel Chip Reading
- Information Capturing
  - Data Storage
  - Data Management / Analysis
  - Database Checks
- Document Authentication
  - Authentication Check of Datapage
  - Authentication Check of Chip

## Why Mobile Verification Solutions?

- Best Data available at any point
  - Maximum Number of Information
- Fast Processing
- Easy to use format
- Accurate / Reliable
- Flexible

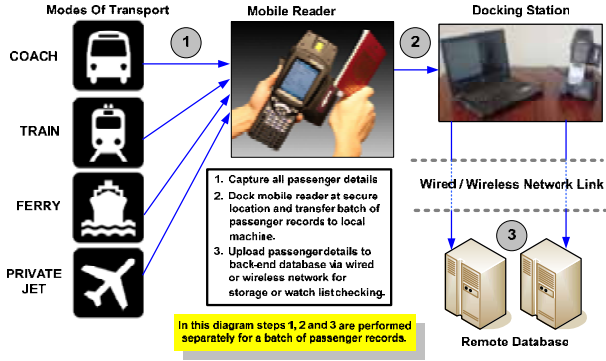


- Document Verification becomes an easy Process  
 - Checks are performed more regular

## Desktop Solution for Document Verification



Document data capture - store and forward



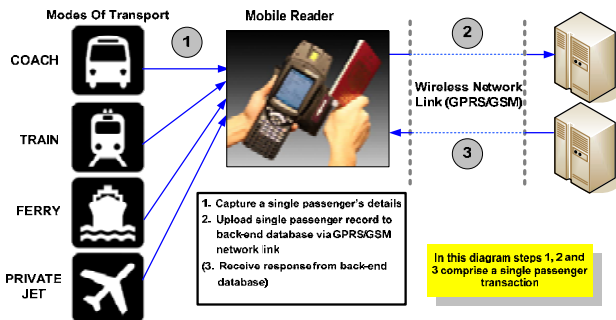
Portable Solution for Document Verification



- Hardware Components:
  - Document Reader
    - E-passport Reader (with Smart Card Option)
  - Laptop
  - Battery
  - Suitcase
  - Peripheral Equipment
    - Printer
    - Fingerprint Devices
    - Camera
  - Communication
    - Bluetooth
    - WLAN
    - GPRS



Document data capture - real time transmission



Mobile Solution for Document Verification

- Rugged Hand Held PC including
  - Travel Document Reader
    - OCR Reader
    - Contactless RF Reader (for epassports and eID)
    - Smart Card Reader
  - Additional Features
    - Fingerprint Sensor
    - Barcode Reader
    - Imaging Device
    - Manual Data Entry (Typing)
    - Wireless Data Communication
      - Multiple wireless protocols
      - Wifi 802.11 b/g
      - GSM/GPRS EDGE
      - Bluetooth
    - Required Software Applications





1:1 Fingerprint Validation



Fingerprint on the Chip

1:N Fingerprint Verification



AFIS



Change in ID Document Control Environment:

- Rapid Change of ID Documents towards eID Documents
- Less physical Borders
  - Verification of People independent from its Location
- Increase of International Travellers



Solutions on market for stationary, mobile and self service Document Verification



- Automatic Border Control Process at High Traffic Airports
- Identity confirmation via Biometrics
- Link to local / central system for identification and external verification



STRENGTH IN NUMBERS

