

# Mobile Solutions for Identification and Verification of ID Documents

11. Europäischer Polizeikongress; Berlin



## 3M Security Systems Division – On one Page

- Security Solutions in 119 Countries
- Producer of the UK ePassport
- Supplier of the Issuing System for UK FCO ePassport Production
- Supplier of ePassport Readers to UK Border and Immigration Services
  - *100MM Arrivals per Year*
  - *100% Deployment of ereaders*
  - *100% Scanning of Documents*
- Supplier of ePassport Readers to US Department of Homeland Security (US Visit)
- Supplier of 50.000 Swipe Readers for Governmental and Commercial Applications

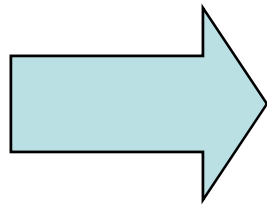


# Statements



It is required to have a strong link between the Issuing of High Security ID Documents and an appropriate Verification of the Documents.

The appropriate Verification of Documents should be possible independent from the Location of the Check.



Mobile, flexible Infrastructure for the Identification and Verification of eID Documents



# Identification & Verification of ID Documents

- Reading of Document Information
  - *Reading MRZ Zone*
  - *Reading Chip*
    - *Access Control*
    - *Chip Authentication*
- Capture of Biometric Features
  - *Fingerprint*
  - *Face*
  - *Iris*
- Storage of Data
- Verification of Document and Biometric Information
  - *Database and Watchlist Checks*
- Document Authentication

All these Operations should be possible independant from Location of the Check

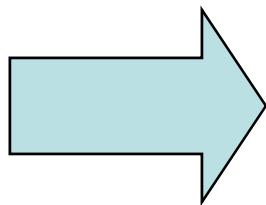


# Document Verification in stationary and mobile Environment



## 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



## What are Mobile Verification Solutions for Documents?

- Rugged Hand Held PC including
  - *Flexible Input / Output Devices*
    - *Travel Document Reader*
      - OCR Reader
      - Contactless RF Reader (for epassports and eID)
      - Smart Card Reader
      - Barcode Reader
    - *Finger Print Sensor*
    - *Imaging Device*
      - Documents
      - Picture of Individual (Face Rec SW)
      - Licence Plate (Registration SW)
    - *Manual Data Entry (Typing)*
  - *Required Software Applications*



# Main Requirements for Mobile Readers



- Rugged Design / Housing
- Light and Small
- Battery powered
  - *Long Battery Life*
  - *Effective Power Management*
- Good visible Display
  - *Night / Day*
  - *Visible Feedback*
  - *Reliable Touchscreen*
- Audio Feedback
- Data Storage Capacity



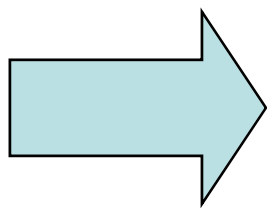
# How to manage the Data collected with the Reader

- Real Time Check
  - *Wireless Connection as Interface to Databases*
  - *Direct Checking of Data with connected Databases*
- Batch Mode Operation
  - *Storage of collected Data locally and batch it afterwards*
  - *Encryption of locally stored Data*
- Local Operation
  - *Databases / Watchlists stored locally on mobile Reader*
  - *Adequate Processing Power necessary*
  - *Encryption of Data*
  - *Replication of data when connected to docking station*



## Data Communication

- GSM / GPRS
- WLAN
- Bluetooth
- Tetra



Security of Communication is vital





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