

MB MOBILE ID

PRIVACY-FRIENDLY MOBILE IDENTIFICATION





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KEY ELEMENTS OF MB MOBILE ID

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Based on a trust framework, MB Mobile ID allows citizens to identify themselves towards governmental and other participants, like for age verification in casinos or shops, as a trustworthy and verified individual in a privacy-respecting and data-minimizing manner.

OVERVIEW - BASIC PARTS

- ID CARD with 2D barcode (ID1, following ICAO 9303 recommendations)
- MB MOBILE ID verifier app in hand of an officer for mobile verification
- MB MOBILE ID back-office-system

ID CARD - USED BY CITIZEN

The ID card with 2D barcode is issued by the government and holds personal data for MRTD, following ICAO 9303. The card contains optical security features (Level 1, 2 and 3). The card represents the trust anchor and allows a first inspection and verification of the card holder by the officials.

The 2D barcode contains signed personal data allowing the officials to access verify and the personal data of the citizen.

Contained Data:

- eName, surname, further names
- Date of birth
- Gender
- Digital signature for the data



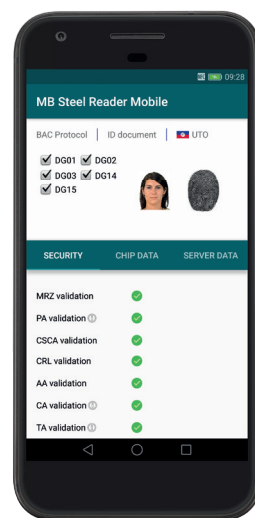
MB MOBILE ID APP

APP USED BY CITIZEN

The MB MOBILE ID APP holds the officially issued credential to identify a person and further data snippets. It provides an intuitive user interface for the device owner to interact with the related parties like airlines and government (as a data provider and data consumer).

Verified and user-friendly mobile application

- Usage of trusted storage for personal data, including face image
- Permission-based data exchange
- Signed and secured 2D barcode:
 - » Unique identifier, certified by trusted issuer
 - » Use of PKI as a trust anchor



- Mobile wallet to hold further identity data:
 - » eMRTD data (ICAO 9303 compliant LDS)
 - » Boarding pass, hotel booking etc.
- Open interfaces to share personal data on demand
- Supports the use of peripheral devices for reading eMRTD data

APP USED BY VERIFIER

The Mobile ID Verifier allows government, banks and other institutions to request a certain record from the My Mobile ID App based on decrypted ID data and a digital signature for reliable authentication. It can also be used to verify face or fingerprints and to verify the data elements, biometrics and cryptography used by the person.

- User-friendly mobile application
- Supports capturing of 2D barcodes
- Connectivity to central register to request additional data
- Supports verification of classic eMRTDs
- Supports use of peripheral devices for
 - » Face verification
 - » Optional: Fingerprint verification
 - » Optional: Reading chip data via NFC



SERVICE

The Mobile ID back-office system provides services for biometric verification, cryptography (like signing and validating data). The system is hosted in a trusted environment. MB provides these services as 3rd party interface.

- Trust framework based on biometric verification, e.g.
 - » Face verification
 - » Fingerprint verification
- Verification of extracted ID
- Person verification via local or server-based face verification with Mobile ID Verifier
- Interface to Third-Party Systems
 - » Request for person-related data





USAGE OF MB MOBILE ID



- Biometric photo
- Personal data
- Certified enrollment offices and devices

DATA PROCESSING

- ICAO compliant Preparation, Signing
- Data Encryption
- Central data storage in central register

2D BARCODE GENERATION WITH:

- Personal Data and
- Access Key

ID CARD VALIDATION:

- Officials check the document visually
- Officials check the security elements

This ID Card validation offers a first level of trusted identification information.

MB MOBILE ID OFFLINE VERIFICATION:

- Access data on mobile ID device
- Verify signed data
- Perform offline face verification with MB mobile ID Verifier

Offers a much higher level of identification verification and supports further use cases as age-verification etc.

MB MOBILE ID ONLINE VERIFICATION:

- Access data on mobile ID device
- Verify signed data
- Access data on data base
- Perform online face verification with MB mobile ID Verifier

Offers the highest level of identification and data verification. It supports further use cases as age-verification etc.

SUMMARY AND CONCLUSION FOR MB MOBILE

MB Mobile ID Solution represents a trusted and secure framework for secure, trustworthy and privacy-friendly mobile ID based on European standards. The capabilities of the mobile device helps to overcome drawbacks of other ID and travel documents and offers complete new application scenarios.



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