MB STEEL READER MOBILE

DOCUMENT VERIFICATION SOFTWARE

MB STEEL READER MOBILE

Using biometric travel documents has become common practice at airports, especially since more and more countries are introducing electronic Machine Readable Travel Documents (eMRTD) like ePassports and eID cards. However, biometric documents require appropriate reading devices to access the information and to compare and verify the document and its holder. In order to allow for mobile verification anywhere inside a security area and at any time, a new mobile application by Mühlbauer is now available. It checks electronic travel documents and verifies traveler without disturbing the normal passenger flow.

The MB STEEL READER MOBILE App offers an easy-to-use solution to verify eMRTDs. It is now extended with a person verification feature based on face recognition against the eMRTD. The app is available for Android devices with a high resolution camera and NFC for Chip access. The app can read the Machine Readable Zone (MRZ) of the travel documents via the camera. eMRTDs can be verified by the chip content or by using internal and external services offering additional document information, white-lists, stop-lists etc. Additionally, for eMRTDs, the contactless chip (ISO 14443) is also read. A built-in face matching feature allows to verify the holder image on the chip against a live face image of the traveler. The data and verification results are visualized in an intuitive user interface which is very easy to use in the field.

All ICAO Doc 9303-compliant eMRTD as well as ISO-compliant driver´s licenses can be read. MB STEEL READER MOBILE supports the different standard protocolls like Basic Access Control (BAC), Supplemental Access Control (SAC), PACE CAM and Extended Access Control (EAC) including Chip Authentication (CA) and Terminal Authentication (TA).

Since MB STEEL READER MOBILE allows for secure document and person verification with standard mobile devices like smartphones, tablets or other commodity, there is now an alternative smart verification solution available. MB STEEL READER MOBILE can be used in different use cases. High-priced reading equipment or stationary inspection counters are no longer needed.

MAIN BENEFITS

- Access to contactless chips of eID, eMRTD etc.
- Available for NFC-enabled Android devices
- Mobile, easy-to-use and intuitive user interface
- Simple and secure identification of the card holder
- Built-in face matching to compare digital image on chip and live photo
- Document verification against external databases
- Intuitive visualization of verification results

FEATURES & TECHNICAL DATA

VISUAL VERIFICATION

- MRZ recognition
- MRZ verification of check digits

CHIP ACCESS

- Support of ISO 14443 Interface
- Usage of MRZ to access the chip
- Manual Data entry as fallback
- Comparison of optical MRZ and MRZ data from chip

SECURITY PROTOCOLS

- Basic Access Control (BAC)
- Supplemental Access Control (SAC)
- Password Authenticated Connection Establishment (PACE)
- Support of Card Access Number (CAN)
- Passive Authentication (PA)
- Active Authentication (AA)
- Extend Access Control (EAC)
- Chip Authentication (CA)
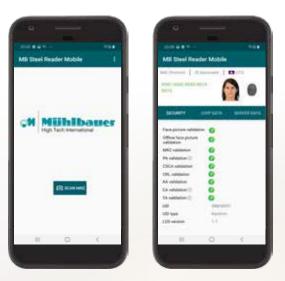- Terminal Authentication (TA)

STEP-BY-STEP VERIFICATION

- Starting MB STEEL READER MOBILE on Android device
- Capturing of MRZ data either by
  - » Taking a photo of the MRZ
  - » Typing in the MRZ data/CAN
  - » Taking a photo of a barcode with MRZ data
- Parsing of MRZ data
- Reading chip data via NFC interface of the device
- Collecting data from background system
- Check of document data
- Verification and identification of the person

MB STEEL READER MOBILE

SERVER-BASED-VERIFICATION

- Secure identification of the card holder using face match of
  - » Digital image from background system against live photo
  - » Digital image from chip against live photo
- Support of
  - » CSCA/DS certificates
  - » Black lists
  - » White lists
  - » Master lists
- Compliant with following standards
  - » ICAO Doc 9303 Machine Readable Travel Documents (MRTD)
  - » ISO/IEC 19875 Common Biometric Exchange Framework Format
  - » ISO/IEC 19794-4 Fingerprint image
  - » ISO/IEC 19794-5 Facial image

STANDARD CONFIGURATION	ADDITIONAL OPTIONS	
	ON SMARTPHONES	ON SPECIAL DEVICES
OCR of MRZ	Face verification on device	Face verification on device
Manual input of MRZ data	Online face verification	Online face verification
Manual input of CAN	Online identification of suspects based on face image	Online identification of suspects based on face image
MRZ check	Capturing of Barcode with camera	Barcode reader support
Standard security protocols eMRTD	Online background check	Online background check
Standard security protocols iDL (ISO/IEC 18013)	Support of TCC (BSI TR-03129)	Support of TCC (BSI TR-03129)
Standard security checks of the document		Online fingerprint verification
Presentation of chip data		Fingerprint verification on device

![Mühlbauer High Tech International logo]

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