Introduction

Morpho – The Art of Identification



by Adriaan Kamphorst, Sales Manager Morpho Identity Documents



Safran group businesses



Morpho strengthens Safran's positioning to capitalize on high growth security markets



Morpho

Security Division



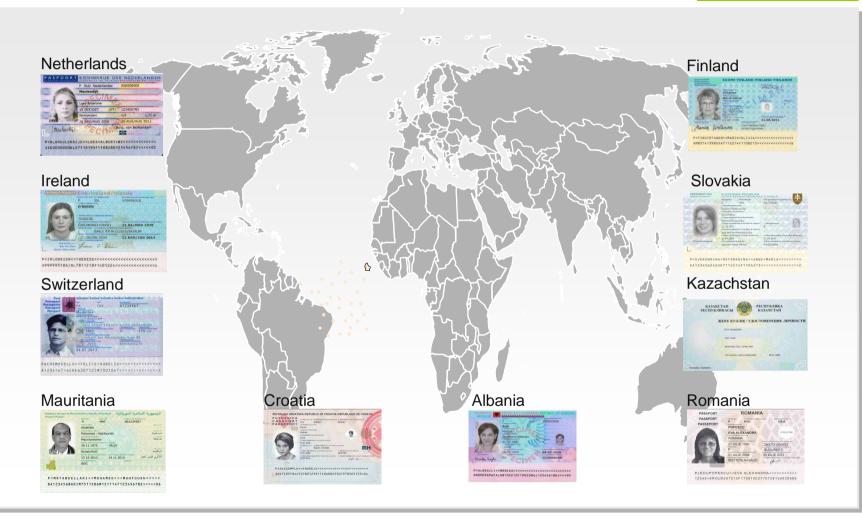
Main markets:

- Identity Documents
- Criminal justice
- Border control
- Access control
- > Transport
- Gaming and betting



Morpho Identity Documents

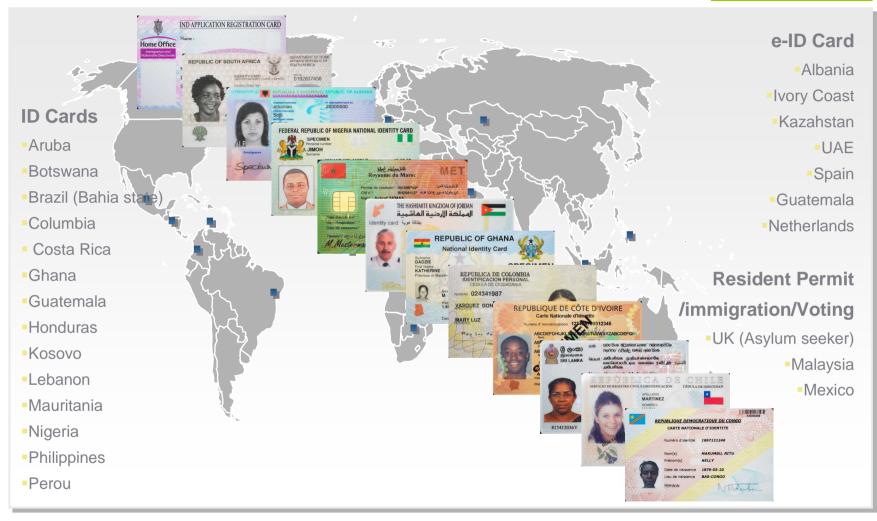
References





Morpho Identity Documents

References





We help to set the standard

- Chairman ISO/IEC JTC1 SC 17 WG3 taskforce 2, "ICAO Doc 9303 and ISO/IEC 7501 Editorial Drafting"
- Chairman ISO/IEC JTC1 SC 17 WG3 taskforce 5 "Data structure and security scheme for MRTDs" Project editor ICAO technical report
- Project editor ICAO PKI technical report
- Project editor ICAO Supplement to Doc 9303
- Member of ISO delegation at ICAO TAG on MRTDs
- Member of ISO delegation at ICAO NTWG
- Member ISO/IEC JTC1 SC17 WG3 Task force 1, "New technologies"
- Member ISO/IEC JTC1 SC17 WG3 Task force 4, "Test Methodology"
- Member of Brussels Interoperability Group (BIG)
- Member of the UNODC (United Nations Office on Drugs and Crime)











Quality and compliancy requirements

- ICAO Doc 9303, part 1, machine-readable passports, fifth edition, 2003;
- ISO/IEC 7810, Identification cards physical characteristics, 1995;
- **ICAO NTWG**, introducing biometric machine-readable travel documents, technical report, May 21, 2004;
- **ISO/IEC** published standard 19794-2,4,5, formats for biometric data exchange;
- **ISO/IEC published standard 14443, identification cards;**
- ICAO NTWG, development of logical data structure LDS for auxiliary technology capacity enhancements, technical report;
- ICAO NTWG, PKI for machine-readable travel documents offering read-only access, technical report, v 1.1;
- ICAO NTWG, Amendment to Doc 9303 ePassports;
- ISO/IEC 7816-4, Identification cards cards with integrated circuits part 4: Organisation, protecting and commands for transfer;
- Access control for machine-readable travel documents, preliminary proposal, 2004;
- ANSE/NIST-ITL 1 -2000 standard "Format of Data for Exchange of Information Concerning Fingerprints, Face, Scars and Tattoos"; FBI: Wavelet Scalar Quantization (WSQ) (biometric data volume compression);
- CWA 14890-1:2004, Application interface for smart cards used as devices for safe creation of electronic signature;
- ISO/IEC 7501-1 :1997, Machine readable passports;
- ISO 1073-2: 1976, Alphanumeric character sets for optical recognition Part 2: Character set OCR-B -shapes and dimensions of the printed image;
- **ISO 1831: 1980, Printing specifications for optical character recognition,**
- ISO 8601: 1988, Data elements and interchange formats Information interchange; Representation of dates and times;
- **ISO 3166: 1993, Codes of representation of names and countries.**



ePassport

Security Philosophy

A travel document...

- Issued by a national government to certify the identity of its owner at borders
- Authenticity can be checked everywhere
- Compliant with international standards

which needs to be secure!

- Trustworthy information
- Unique and forgery-proof
- 95% of ID verifications is based on first line security features







Security Philosophy - 1st line security features

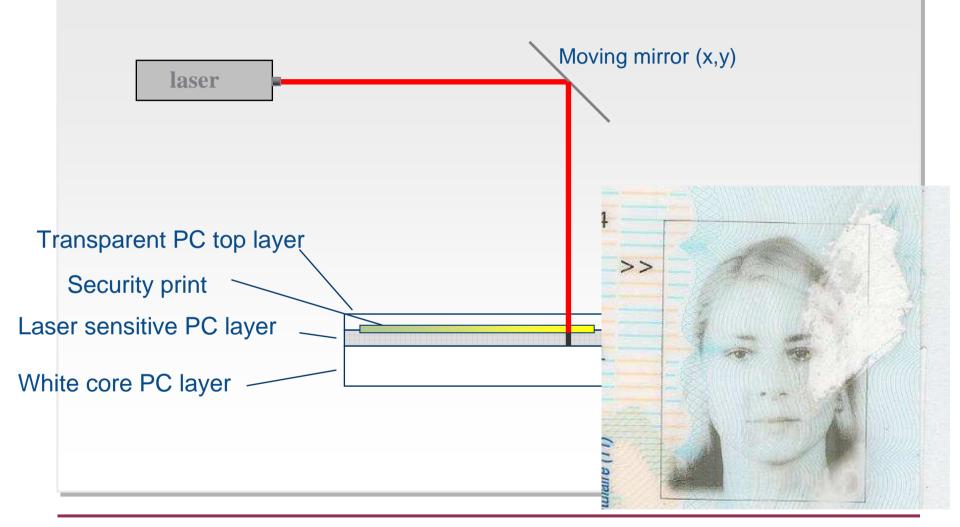
Security Philosophy





Laser engraving in polycarbonate

Strong Data Carrier

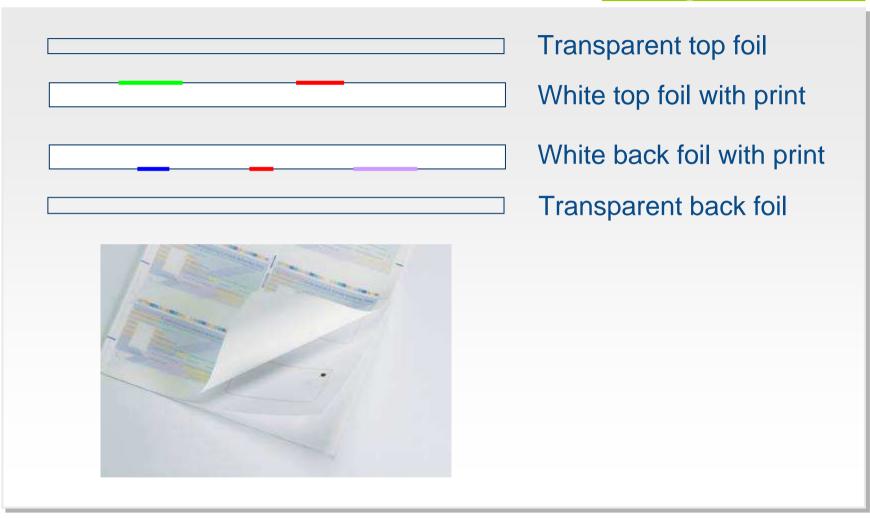




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100% Polycarbonate datapage

Strong Data Carrier

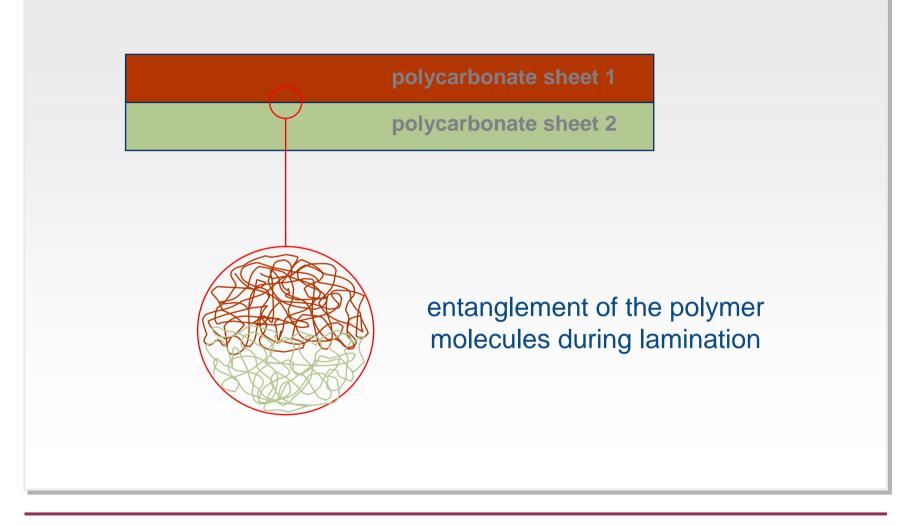




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Polymer sheets melt together during lamination

Strong Data Carrier

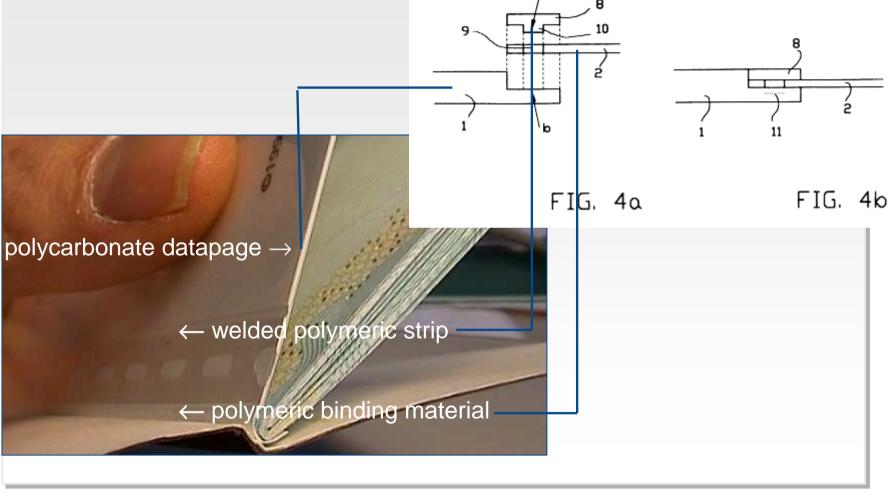




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Security Philosophy - Binding



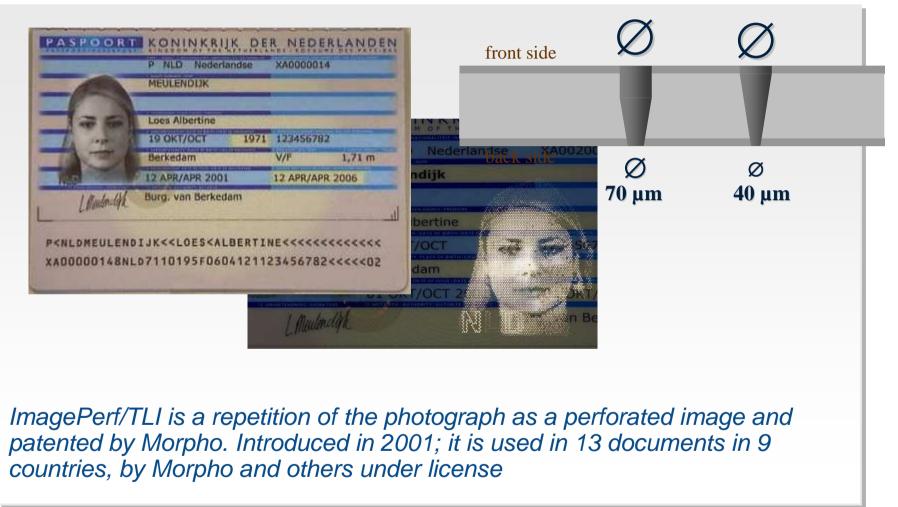




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Imageperf/TLI

First line security feature





3D Photo ID

First line security feature







Questions

