

Solutions oriented Workshop

Designing unique e-Passports

Cutting edge security for your e-passport

22.10.2013 | Montreal Dr. Bernhard Deufel



Introduction to Giesecke & Devrient



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Passport Security since 1867!



Giesecke & Devrient Creating Confidence.

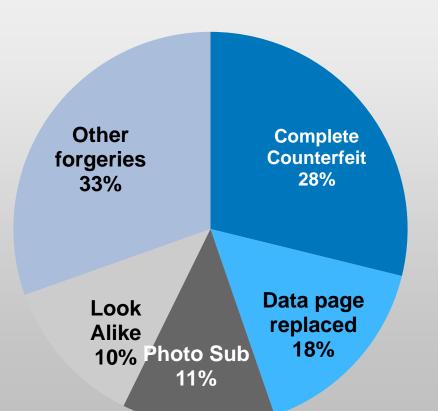
The e-Passport world today



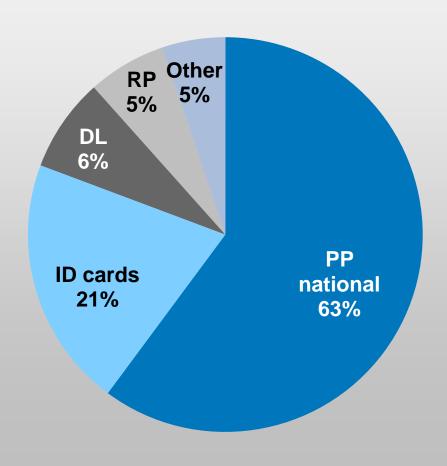


Most common forgeries in the market

Reason of seized document



Type of seized document





The five pillars of security of a passport

Five technical types of security features are feasible:

- 1. Features integrated into the materials used for document manufacturing (eg. paper)
- Features generated with security printing techniques and/or applied by lamination of security materials
- 3. Features of document booklet production
- 4. Features based on secure personalization techniques
- 5. Features enabled by embedded secure data carriers

 (e.g. microprocessor chips) into the materials
 ⇒ ePassports and their enrolment, issuance and personalization systems

Ultimate Security for passport paper



Giesecke & Devrient
Creating Confidence.

Ultimate Security for passport paper

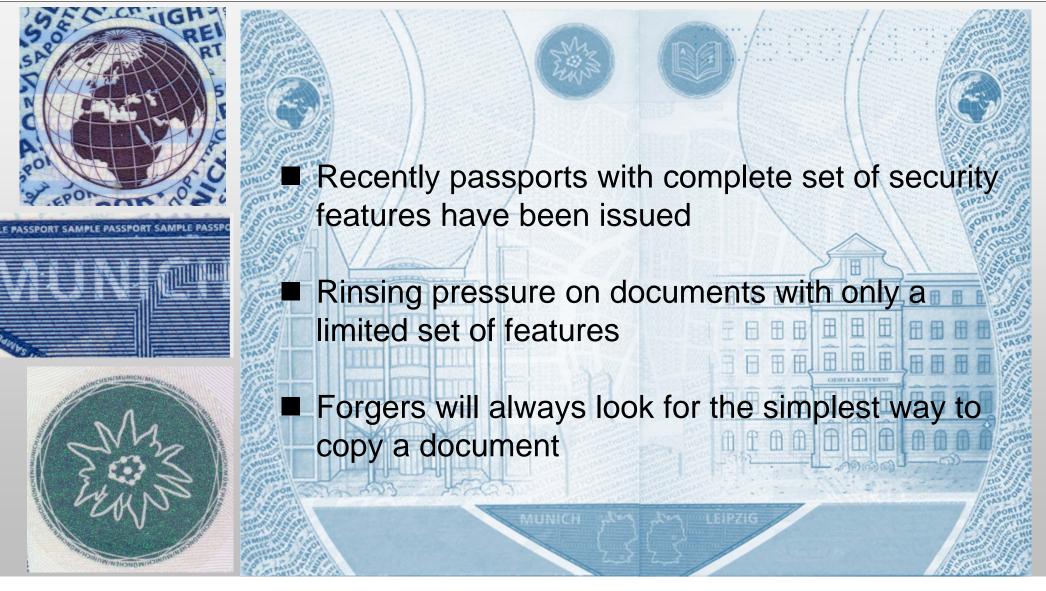






Integration of a second security thread e.g. a holographic window thread offering three verification levels

High security passport design: G&D'S new sample passport



High security passport design: G&D'S new sample passport

Incorporation of latest security features in paper and through printing technologies visas

- Specific and modern design on all inner pages being a trend in latest most advanced passports
- About ~10 passports worldwide show differently designed inner pages
- Supplemental Access Control enabled electronic chip with G&D's STARCOS® 3.5 (fully CC certified) operating system



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Different personalization technologies

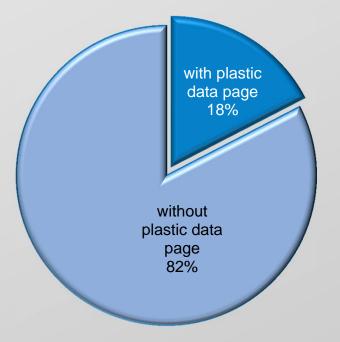
Personalisation Technologies

Color printed data pages

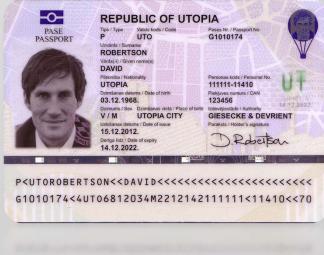


Chip integrated into the passport cover (Inlay, eCover)

Ratio countries with plastic data page (~35 worldwide)



Laser engraved data pages



Chip integrated into the data page

Passport Border Control System (BCS)

