



| ICAO

TRIP 2022

SEAMLESS AND CONTACTLESS

Sharing data to accelerate the recovery

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Pitfalls to Avoid while Designing & Issuing Passports

Context: The passport

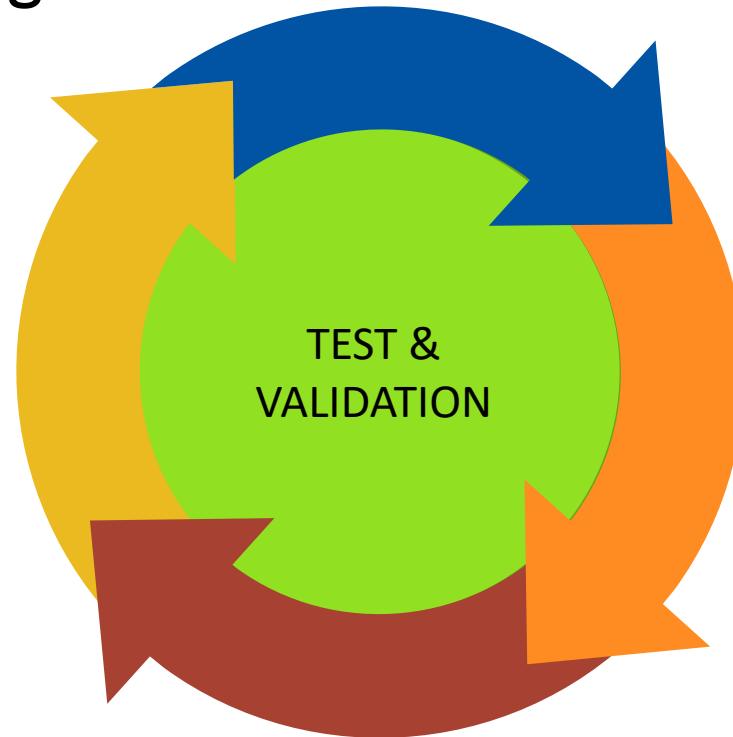
- Establish identity
- Secure
- Durable
- Facilitate travel



Five dimensions of an effective passport design program

Aesthetics
Theme, message, style,
colours, etc.

Personalization
MRZ, VIZ, Microchip,
Observations



Security Features
1st, 2nd and 3rd level
features

Physical components
Cover, datapage, paper,
microchip, binding

Examples of Personalization Pitfalls

EXAMPLE 1: NAME FORMATTING



Risk: scanned versus manual data entry

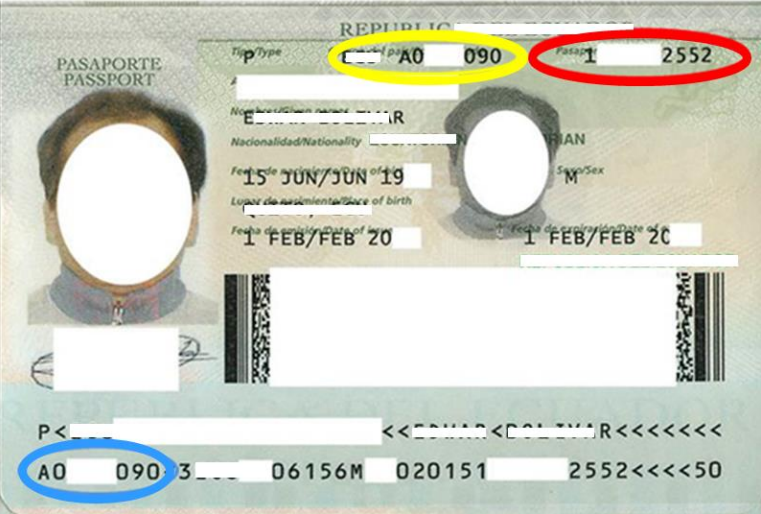
- Mismatches in API manifests
- Incorrect name search against watch lists and INTERPOL
- Creation of erroneous crossing records
- Potential for erroneous visa applications

Impact:
Delays, security gaps, cost & inconvenience for all

✓ Doc 9303: Consistent representation of the name between the VIZ and MRZ is required

✗ Issue: VIZ has a single 'primary' identifier (A); MRZ name is separated into multiple parts (primary + secondary names) (B)

EXAMPLE 2: INCORRECT DATA LAYOUT



✓ Doc 9303: Passport number in VIZ field (red) must match the MRZ field (blue)

✗ Issue: Unique number is printed in the VIZ 'passport' field (red) & different from the MRZ passport (blue).

Real passport number is in the wrong field (yellow)

How to avoid these common pitfalls?

Validation is a key component for an effective design program.



Assess

- **Develop** a core proficiency of Doc 9303 within your organization
- **Check** the basics of the MRZ, VIZ and chip encoding (when applicable)
- **Test** unique use cases (i.e. accents, truncated names, hyphenation, etc.)
- **Inclusive** for all document types and different issuance locations



Consult

- **Hire** a qualified external consultant/laboratory
- **Check** the passport with the national border system
- **Cross check** the passport with other government's systems and partners



Engage

- **Seek** guidance from ICAO for specific questions & watch for ICAO's emerging compliance scheme in the future



Summary

- Passport designs have reached a new level of excellence.
- The holistic design approach interweaves aesthetics, security, materials and personalization.
- There are still pitfalls which are usually discrete. These errors can have a profound impact on the traveler
- Testing and validation is a critical component of an effective design program.



Thank You

