

**ToBe**



# ePASSPORT SOLUTION





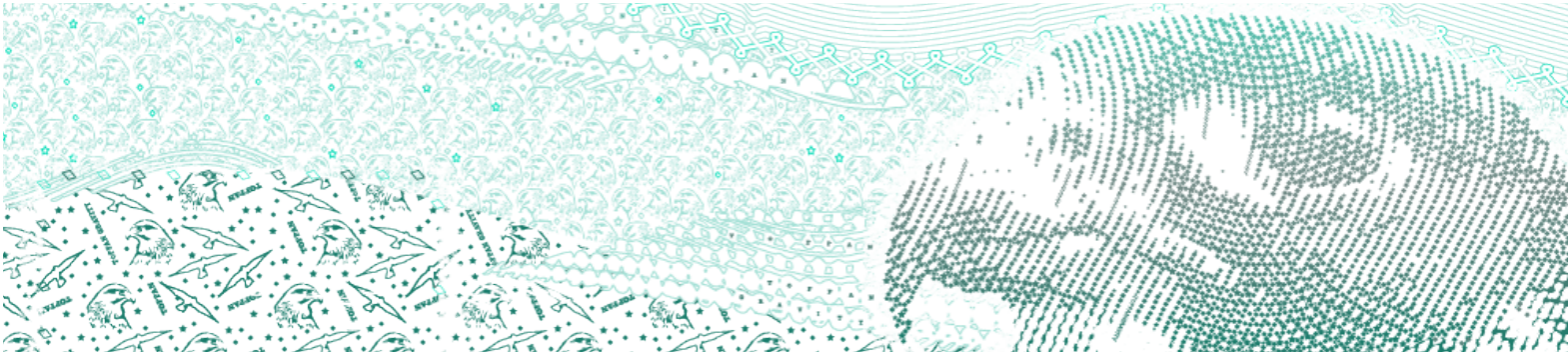
**T**OPPAN Security is a global leader in systems integration and solutions, specializing in mission-critical identity and payment technologies. Being a subsidiary of TOPPAN Next, TOPPAN Security is serving as the international development arm of the TOPPAN Group in the security domain. Founded in 1900, TOPPAN (7911:TYO) is a respected Japanese brand known for exceptional quality. With heart, bold ideas, and a deep understanding of government and banking customers, TOPPAN's mission is to create a meaningful, technology-facing future together.

We harness collaborative intelligence to deliver solutions that meet the highest standards of security, quality, and effectiveness. Focused on delivering advanced solutions for the identity and payment sectors, we provide everything from secure document and card manufacturing to advanced encryption and biometric systems. By partnering with governments and businesses, TOPPAN Security consistently pushes boundaries, exceeds expectations, and sets global standards, delivering cutting-edge solutions that transform citizen experiences and drive innovation worldwide.





In today's globalized world, it is more important than ever for countries to provide their citizens with passports featuring the highest level of security. As part of our mission to support governments, TOPPAN Security offers state-of-the-art, high-security electronic passports that comply with the specifications set by the International Civil Aviation Organization (ICAO) and ISO standards. Our continuous R&D efforts ensure that our solutions stay one step ahead of fraudsters.



All our passports are Logical Data Structure (LDS)-ready and customizable to meet our customers' needs and design preferences. We cover the entire production process of passport booklets, including electronic and non-electronic polycarbonate (PC) data pages, electronic covers, and other secure consumables.

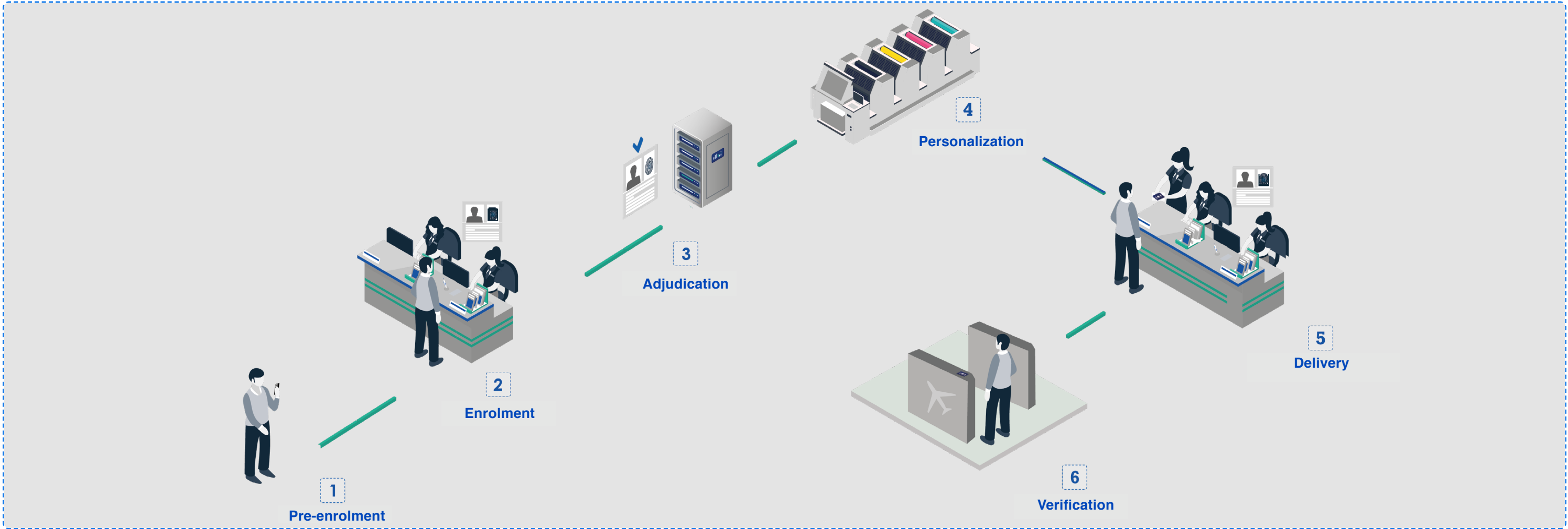
### KEY BENEFITS

- ✓ Fully Customizable Passports to reflect the country's identity
- ✓ Cutting-Edge Technologies
- ✓ Forgery-Proof Security Features
- ✓ ICAO compliant
- ✓ +120 years of experience in secure printing
- ✓ +20 passport projects
- ✓ Mastering full supply chain from consultancy, design, document and chip security to the in-house production of secure documents
- ✓ Highly secure production process
- ✓ Project Consulting
- ✓ In-House Design
- ✓ Secure Logistics
- ✓ Customized Passport Solutions, inc. PKI





ePASSPORT SOLUTION PROCESS



1. PRE-ENROLMENT:



Submission of biographical data for passport applications and appointment management for applicant enrollment.

2. ENROLMENT:



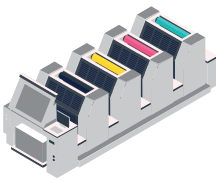
Optimizing the flow and capacity at the enrollment site through graphical pre-enrollment and capturing accurate biometrics to confirm identity uniqueness.

3. ADJUDICATION:



Comparing an individual's biographical details (biometric and demographic data) with the data in the system and managing suspected duplicates.

4. PERSONALIZATION:



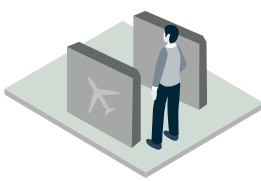
Transferring sensitive personal biographical data to an ID document using selected technologies, such as laser engraving or printing.

5. DELIVERY:



Once personalized, the ID document is either mailed to the applicant's permanent address or made available for pickup at the municipality.

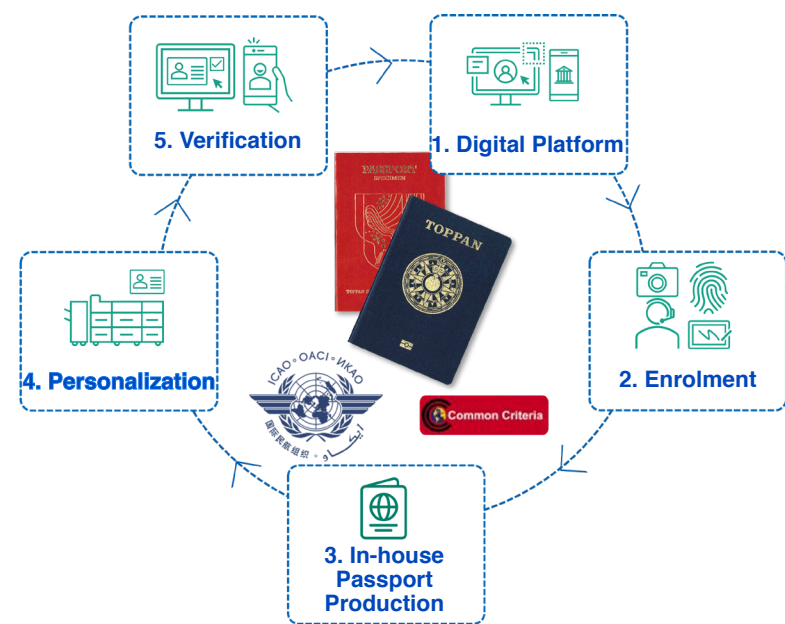
6. VERIFICATION:



Validation of document authenticity, comparison with Lost and Found or wanted persons databases, and verification of the document holder's identity.



ePASSPORT VALUE CHAIN



1. Digital Platform

Quick-to-deploy solution to a wide range of government functions

- Online document application
- Online payment
- 24/7 monitoring application status



2. Enrolment

Full digitalization and biometrics management

- TOPPAN's solution has been rolled out in over 20 countries and over 70 million persons captured / deduplicated



3. In-house Passport Production

Large range of Level 1-2-3 security features, 10 years lifespan, pioneer in polycarbonate technology

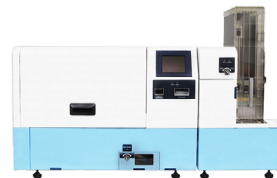
- Antimicrobial
- Moire
- Eco friendly



4. Personalization

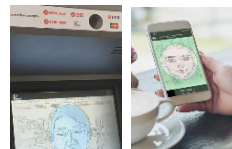
Full range of personalization systems

- TOPPAN Personalization machine
- High resolution Printing
- Modular Color + Laser Engraving
- Advanced security features



5. Verification

Security solutions to identity verification and authentication with the use of biometric and RFID technologies



ePASSPORT IN-HOUSE PRODUCTION

TOPPAN Security covers the entire production process of passport booklets, including electronic and non-electronic PC data pages, electronic covers, and other secure consumables.



Passport Booklets

- Machine-readable, electronic & biometric passports
- Flexible electronic cover
- Ultra-thin & electronic polycarbonate datapage
- Fully ICAO compliant, surpassing ISO standards
- Tailor made solutions & high secure artwork
- Security Features level 1, 2 and 3
- Up to 10-year lifespan

PC Data Page

- Paper / Polycarbonate Datapage (Thin/Electronic PCDP)
- Ultra-thin thickness available for better aesthetics
- Many different Security features are available:
  - Secure printing (rainbow, guilloches, microtext)
  - Hologram
  - UV printing (rainbow, microtext, polychromatic image)
  - OVI®
  - OVM®
  - Matt/Shiny effect
  - MLI/CLI
  - Customized Hinge
  - Latent & Dynamic Image
  - Positive/Negative embossing
  - Customized Clear Window





ePASSPORT PROJECT REFERENCES



Country	Projects
Australia	Passport
Armenia	Passport
Canada	Passport (Printer)
DRC	Visa
Greece	Passport
Indonesia	Passport
Korea	Passport
Lesotho	Passport (Printer)
Malawi	Passport
Mauritius	Passport (Printer)

Country	Projects
Nepal	Passport
Spain	ePassport
Singapore	Passport, Visa
Saudi Arabia	Passport (Printer)
Tanzania	Passport (Printer)
USA	ePassport
Zimbabwe	Passport (Printer)
Ethiopia	ePassport







Copyright © 2025 TOPPAN Security. All rights reserved. ePassport Solution Volume 02 | EN - 01/25

