

# e-Passport Solutions



**End-to-End Modular Travel  
Document Management**





# Customized Solutions for e-Passport Programs

## HID Global benefits:

- Trusted partner
- Flexible approach
- Strong digital and physical security
- End-to-end offer
- Experience and references

## Secure and Field Proven

The challenges of implementing or upgrading e-Passport solutions are considerable when all aspects of systems architecture and integration, cryptography, software, physical security, RFID and digital security are aggregated.

As one of the pioneers of electronic passports in Europe, HID Global has over a decade of experience in delivering secure document programs for Government-to-citizen applications. Our in-depth expertise – ranging from large systems architecture, personalization, and certified chip operating systems to innovative physical security features – has enabled us to achieve a flawless track record.

HID Global's experts successfully produce and implement customized solutions to fit specific project requirements.

Partnering with governments and regional systems integrators, we help countries to migrate to electronic travel documents and upgrade their existing systems, ensuring that control of their solutions remains in local hands.

Our large portfolio of solutions and products cover the entire spectrum of the latest ICAO eMRTD requirements:

- Integrale™ system suite for enrollment, document issuance and verification
- SOMA™ family of certified Chip Operating Systems (COS)
- Dataflex™ Polycarbonate datapages
- Paperlam™ and T-Lam passport inlays
- Textile and paper-based e-Covers
- Security features and components for booklet makers

Our multiple secure facilities provide our partners with production capacity and quality they can count on. Over 100 million e-Passports have been produced with our technologies for use in over 50 ICAO® e-Passport projects around the world.

# ID System and Integration

## Optimized and Comprehensive

HID Integrale™ is a suite of modules designed to support third-generation ICAO e-Passports issuance and related verification systems.

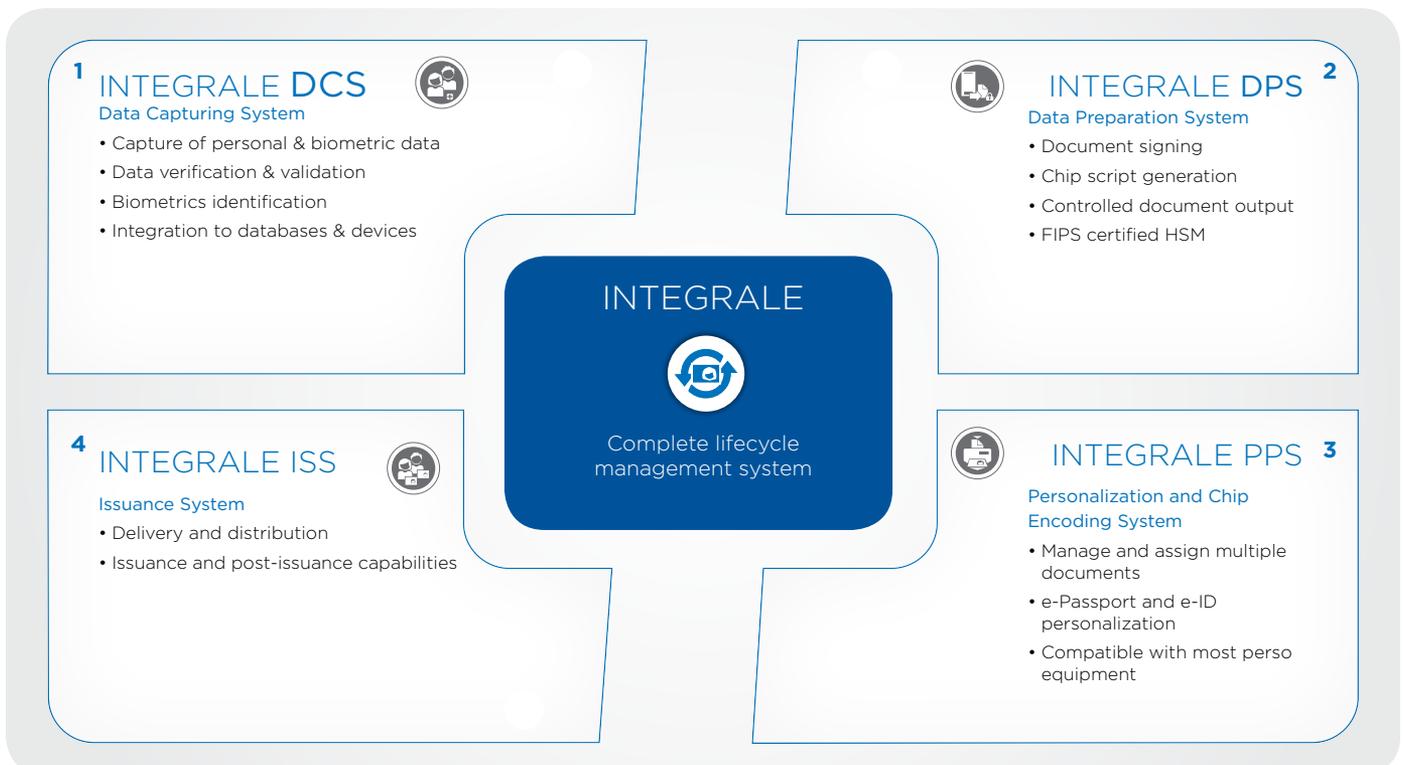
From biometric enrollment, ICAO PKI, data signing and personalization to e-Passport lifecycle management, HID Integrale provides high performing modular software suites that can be easily customized to the local environment.

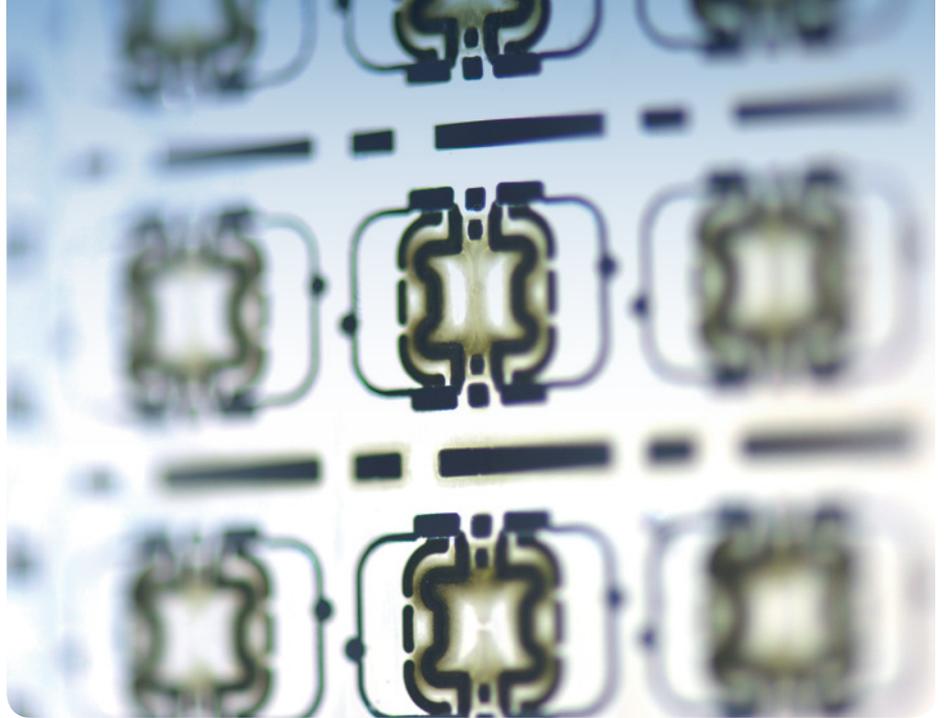
For more than a decade, HID Global has been a trusted advisor to government agencies and state printers. Our deep industry expertise enables us to handle all stages of solution and product design, from the initial idea to field implementation and future evolutions. Our approach ensures a fast, smooth roll-out with solutions and products complying to key international standards.

## HID Integrale™ Key Modules

- Application Processing (Integrale APS)
- Data Capture, Including Biometrics (Integrale DCS)
- Issuance & Post-issuance System (Integral ISS)
- Data Preparation and Signing (Integrale DPS)
- Key Management System (Integrale™ KMS)
- ICAO® Certificate Verification and Exchange (Integrale N-PKD)
- Personalization and Chip Encoding (Integrale PPS)
- Key Distribution System (Integrale KDS)

## INTEGRALE™ SYSTEMS





## Chip Operating System

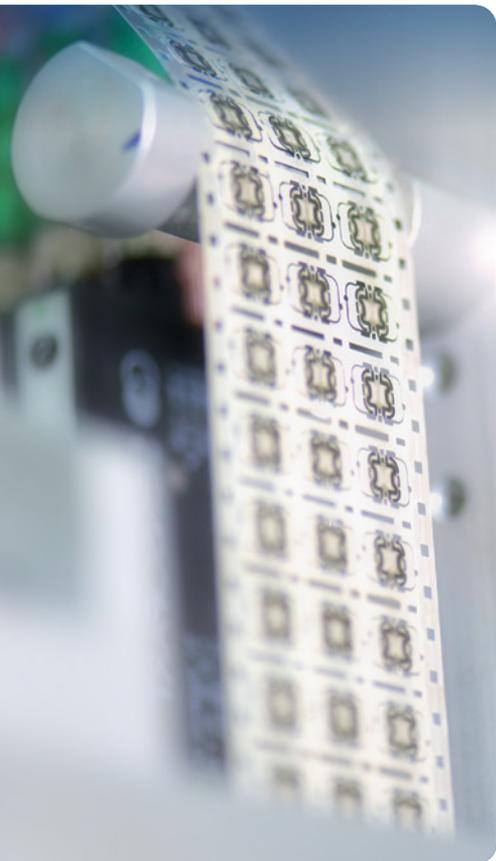
### Fast and Secure

HID SOMA™ is a range of secure Chip Operating Systems (COS) developed over the past 15 years to serve the specific needs of secure electronic documents.

The SOMA family covers all functionalities of current third-generation ICAO e-Passports. Our chip operating systems regularly undergo security evaluations to ensure that they adhere to Common Criteria guidelines and have demonstrated excellent interoperability at various international events. SOMA integrates with the HID Integrale™ issuance and verification systems for e-Passports.

### Benefits

- Support of the latest cryptographic algorithms, such as RSA and ECC
- Support of the latest ICAO security mechanisms, such as EAC and SAC-PACE CAM
- Common Criteria certification - up to EAL5+
- Available on high-security micro-controllers from multiple vendors
- Support of high-speed data exchange with enabled readers (VHBR)
- Full compliance to key industry standards, such as ICAO, ISO®, GlobalPlatform™
- Available in native and open platform implementations





# Datapages

## Sophisticated and Tamper Resistant

HID Global brings together state-of-the-art technologies to meet the need for flexibility, durability and security in polycarbonate datapages. We recognize the necessity for datapages to be customized to meet specific local requirements. Our expert designers and engineers collaborate closely with local partners to achieve an important balance between aesthetics, security, functionality, and return on investment.

The datapages are engineered to incorporate the latest and most innovative security features without compromising integrity or the electronics within.

Our Dataflex™ pages are referenced in significant programs worldwide and meet all current industry standards, as demonstrated in numerous independent laboratory tests.

To meet any customer requirement, HID Global's datapage solution is available in three thicknesses - with or without RFID functionality.

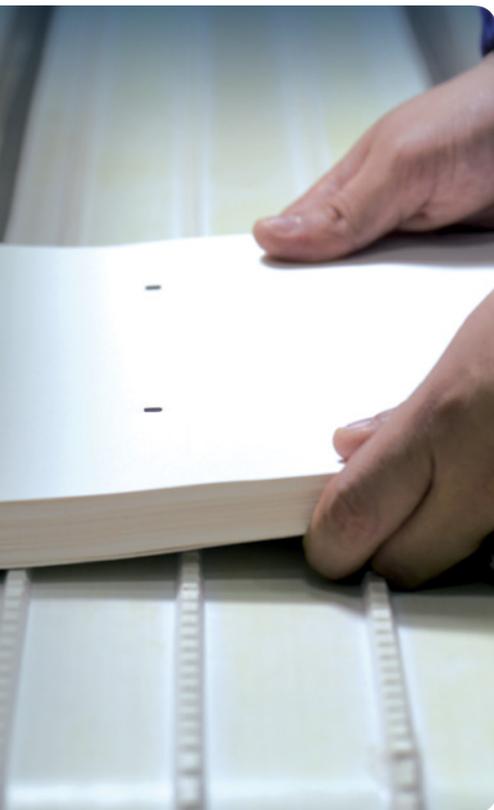
## Benefits

- **Secure.** HID's hinge material is specially formulated to prevent separation from the datapage body.
- **Durable.** HID Global's patented Crack Prevention Feature (CPF) ensures document resiliency of up to 10 years.
- **Reliable.** HID provides secure contactless technology and proven antenna design for optimum chip performance.
- **Flexible.** Our datapages are easily integrated into all e-Passport systems.
- **Convenient.** Single solutions provider to meet a full range of custom secure ID needs.
- **Customer-centric.** Market-leading design service, creating artwork to reflect any customer need.

- HID Global is present in over 60% of Government electronic identity projects
- Install base on all continents with 100% implementation success rate



## Inlays



### **Paperlam®**

HID Global's Paperlam®, a 100% paper substrate inlays is completely tailored to the needs of security printers. The porous qualities of the inlay paper allow a perfect glue penetration and adhesion to the passport cover and end-paper, bringing higher security, durability and tamper evidence.

### **T-Lam**

T-Lam inlays are Teslin® based inlays designed for incorporation into the covers of e-Passports. The construction of these inlays provides excellent tear resistance and durability without adversely affecting the physical properties of the passport booklet.

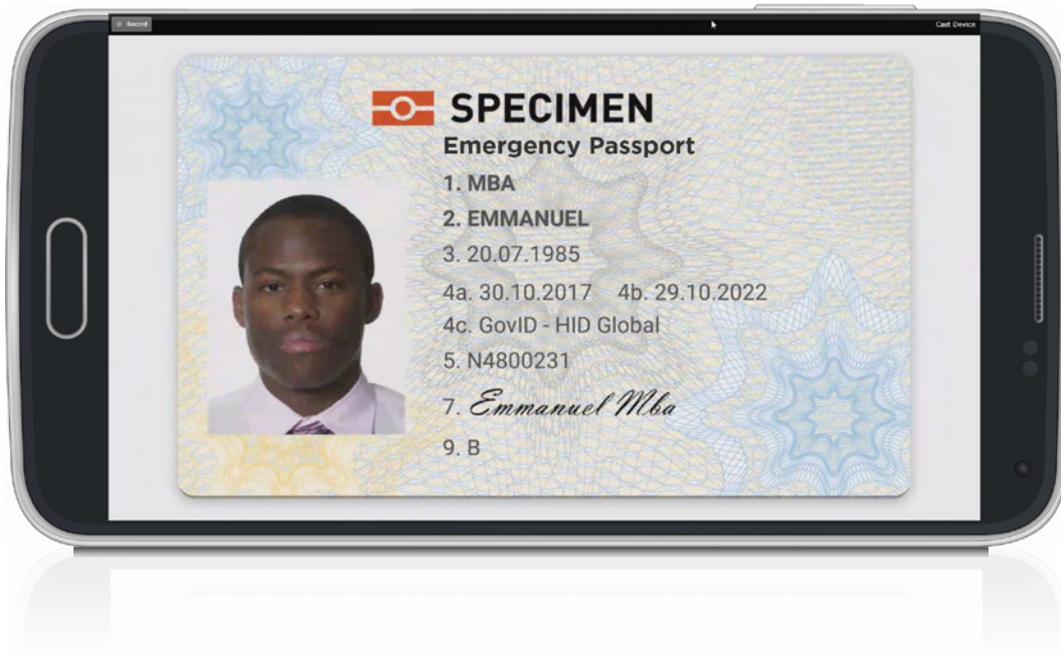
### **e-Cover**

Our passport cover inlays are pre-glued to customer-specified cover materials in our manufacturing facilities. HID Global can provide e-Covers using any specification of cover material.

## Security Features

HID Global provides security components essential in e-Passport manufacturing, including:

- Mirage™ - Window-based ghost image with watermark
- Secure laminates for paper datapages
- Security sewing threads
- Gold foil and reinforcement tapes



## Mobile Solutions

HID goID™ is a mobile identity solution enabling the issuance, management and revocation of encrypted identities to mobile phones. For example, Emergency Passport secure mobile applications provide convenience and a means of strong authentication for citizens who have lost their passport abroad. Renewal becomes faster and more secure.

Governments can also securely provision, manage and revoke emergency or temporary travel documents practically on demand. goID delivers additional functions and efficiencies when compared to physical documents, including:

### **Secure Remote Provisioning.**

Data is always protected by end-to-end encryption.

### **Offline Verification.**

The mobile ID is always available, even when not connected to a network.

### **Flexibility by Design.**

The whole project, down to core functionalities, can be customized to meet the specific local needs of a Government or region.

### **Unsurpassed Privacy Protection.**

Citizens are always in full control of their personal data.



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