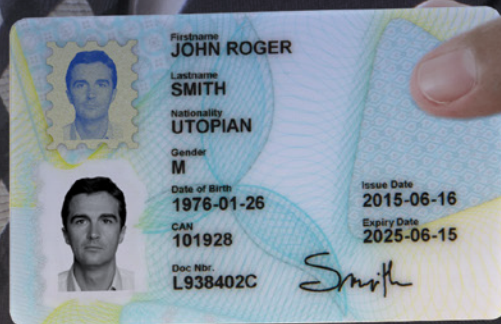


e-ID Card Solutions



**End-to-End Solutions for
Citizen ID Applications**





Customized e-ID Programs

Governments, organizations and citizens have realized the benefits of holding electronic cards for their security, functionality and convenience. HID Global is a certified security printer for ID documents. We combine card design expertise, proven manufacturing excellence and innovative technologies to offer advanced secure cards that are relied upon in government programs worldwide.

With presence in more than 120 card projects around the world, HID Global has the unique ability to design, implement and deliver card programs that exceed international standards requirements while respecting local needs and constraints. Our industry expertise enables us to handle all stages of solution and product design from the initial idea to field implementation and future upgrades.

Additionally, we offer a diverse portfolio of industry standard and totally unique security features and related technologies. From classic sets of secure elements – DOVID, color-shifting inks, and security printing – to innovative features for polycarbonate documents, HID Global will work with you to meet your specific program requirements.



System Integration

HID Global has a flawless record of government e-ID cards system integration projects worldwide. Our experts, have been tailoring e-ID secure software and solutions for decades.

Partnering with governments and regional systems integrators worldwide, we help countries to migrate to electronic documents, upgrade their existing systems, and provide citizens with the benefits of mobile ID while ensuring control of their solutions remains in local hands.

Modular End-to-End Systems for e-ID Cards

HID Integrale™ is a modular suite designed to create end-to-end e-ID card issuance and related verification systems.

Developed in-house, HID Integrale has been engineered to support either end-to-end system deployment or in-field upgrades of legacy systems with customization to the local environment.

Whether in a centralized data center or distributed server environment, captured application data is encrypted both at rest and in transit, ensuring the citizen's information remains safe at all times.

Future Proof Implementation

Designed to adopt future standards and market requirements in a simple and frictionless manner, HID Integrale optimizes a government's returns when investing in e-ID cards and ICAO® e-Passport-issuing systems.

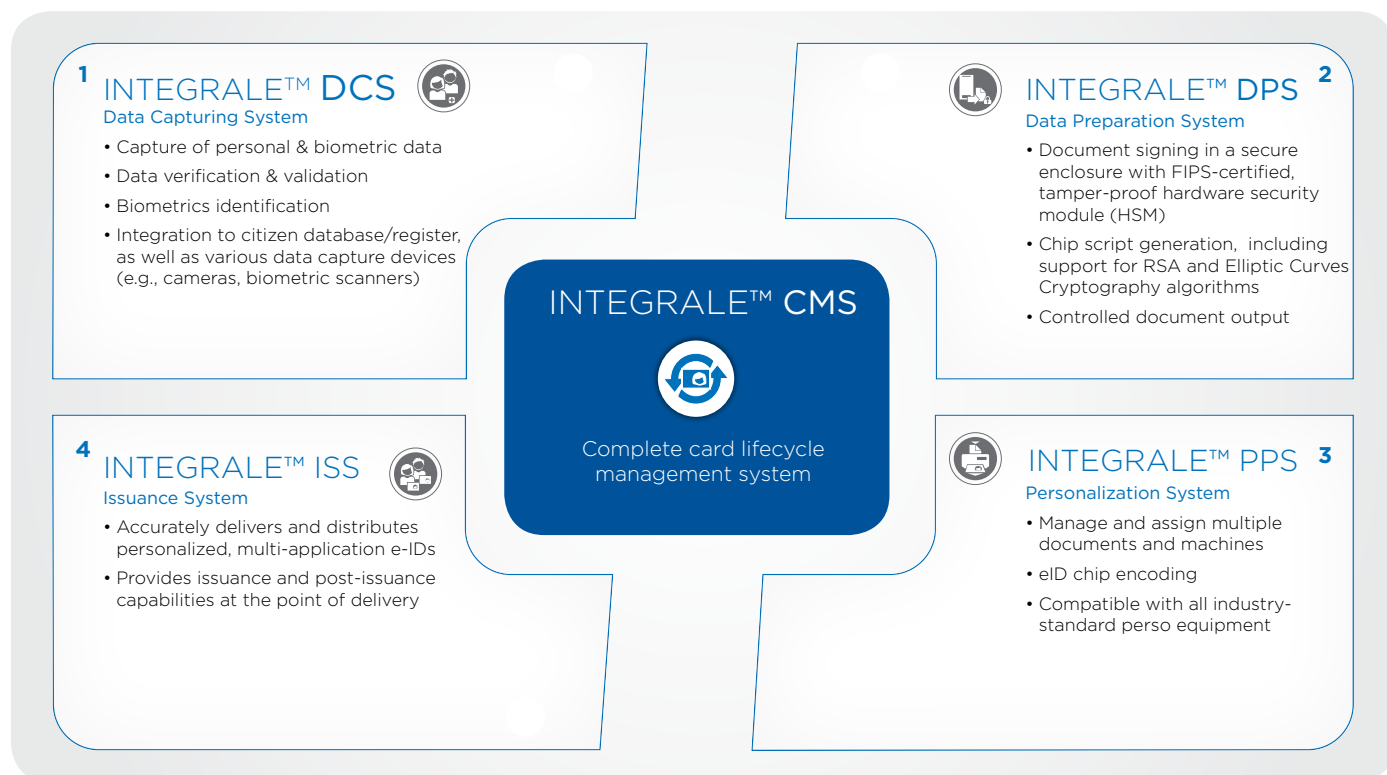
HID Integrale™ Key Modules

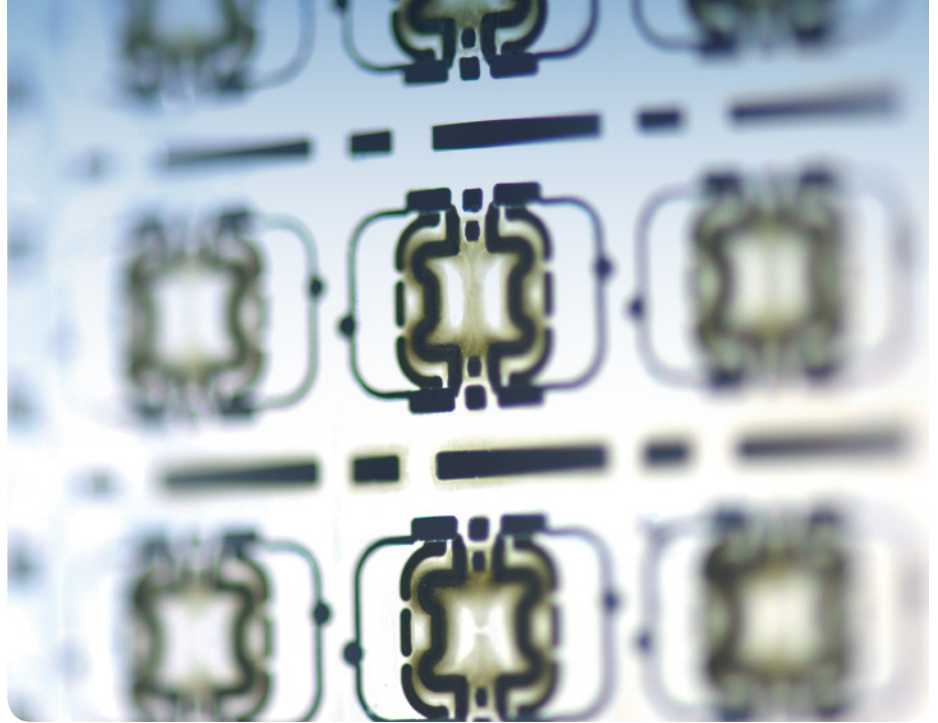
- Application Processing (Integrale APS)
- Data Capture, Including Biometrics (Integrale DCS)
- Data Preparation and Signing (Integrale DPS)
- Public Key Infrastructure Systems (Integrale KMS)
- Personalization and Chip Encoding (Integrale PPS)
- Card Management System (Integrale CMS)

Applications

- e-ID
- e-Driving License
- e-Resident Permit
- e-Voting
- e-Health

INTEGRALE™ SYSTEMS.





Chip Operating System (COS)

Issuing electronic national identity cards, resident permits, driver's licenses or health cards requires the presence of an embedded COS; it protects and grants access to sensitive personal data securely stored in the chip's memory and performs complex cryptographic operations.

HID SOMA™ COS

Our family of operating Systems, SOMA™, has been designed for reliable and secure usage of travel and identification electronic documents. Over 60 million e-Documents currently run HID SOMA worldwide.

The family of SOMA e-ID COS is Common Criteria-certified and has regularly demonstrated superior performance at international interoperability test sessions.

Benefits

- Integration of the most recent cryptographic algorithms
- Support of the latest ICAO® security mechanisms
- Multi-application support with in-field post-issuance capabilities
- e-IDAS digital signature (QSCD) and biometrics verification (Match-on-Card)
- High speed data exchange (VHBR)
- Available on high-security micro-controllers from multiple vendors
- Common Criteria certification of all key functionalities, up to EAL5+
- Full compliance to key industry standards, such as ICAO®, ISO®, GlobalPlatform™
- Available in native implementations and open platform applets



HID SOMA is fully compliant with all the international and regional standards, such as e-IDAS and ISO-18013 for International Driving Licenses.



Cards and e-ID Cards

HID Global identity cards are designed to be the best-in-class ID cards on the market. Manufactured from a choice of materials and incorporating an array of different security features, we offer customisation to meet every project requirement.

HID Global combines card design expertise, proven manufacturing excellence and innovative technologies to offer advanced secure cards that are relied upon all over the world.

Prelaminates

HID Global's Cardlam™ and Skylam™ inlays provide card manufacturers with the highest level of reliability, durability and card structure design versatility. Prelaminates are available with HID SOMA chip operating systems.

In addition to our standard range we also offer enhanced prelaminates:

HID Skylam

HID Global's Skylam is a polycarbonate inlay with built-in custom windows that can be easily assembled with the rest of the card's structural layers, prior to hot press lamination.

Cardlam CPF

Cardlam CPF includes HID Global's unique crack prevention feature that optimizes the reliability of polycarbonate cards

Cardlam UT

Over 40% thinner, our ultra-thin 200-micron polycarbonate inlays with DBond™ technology gives document makers more room to create complex e-ID card structures.



Features

- Range of materials, PVC, Composite and Polycarbonate
- With or without electronics
- Contactless, dual interface or contact chips
- Wide range of classic and innovative security features available, including HID's polycarbonate crack prevention feature (CPF)
- Compliance to industry standards
 - ISO/IEC 7816
 - ISO/IEC 10373
 - ISO/IEC 14443
 - ISO/IEC 24789
 - ISO/IEC 18013
 - ICAO DOC 9303



Security Features and Technologies

Leveraging decades of experience document engineering and manufacturing, HID Global balances high security with ease of implementation and custom design capabilities.

HID Mirage™

HID Mirage is the most memorable level 1 window-based laser engraved security feature for polycarbonate documents. Unique visual effects and layered security mechanisms make Mirage easy to authenticate in less than 5 seconds. Mirage is available for polycarbonate cards.

HID DBond™

HID DBond powers the world's thinnest polycarbonate prelaminate with micro-controllers, providing unprecedented document structural design flexibility. HID DBond directly connects antenna copper wires to the chip pads.

HID Crack Prevention Feature (CPF)

HID Global's unique crack prevention feature optimizes the reliability of polycarbonate cards by reducing the physical stresses in the chip region of the card which are induced by lamination.





Mobile IDs

HID gold™ is a mobile identity platform which enables the issuance, management and revocation of encrypted identities to mobile phones. HID gold can create mobile identities that can be issued along any existing physical identity card project and is easily integrated to any back-end solution. The mobile identities are easily verified using another mobile phone or other simple verification devices, removing any subjectivity from the authorization process.

From driver's licenses to gun permits to fishing and hunting licenses, HID gold can be tailored to meet unique use case requirements.

HID gold also 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 functionality, can be customized to meet the specific local needs of a Government or region.

Unsurpassed Privacy Protection.

The citizen is always in full control of their own data.

HID gold™ is a perfect fit for:

- Driver's Licenses
- Voter Permits
- Sporting Licenses
- Voter Registration Cards
- Emergency Travel Documents



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