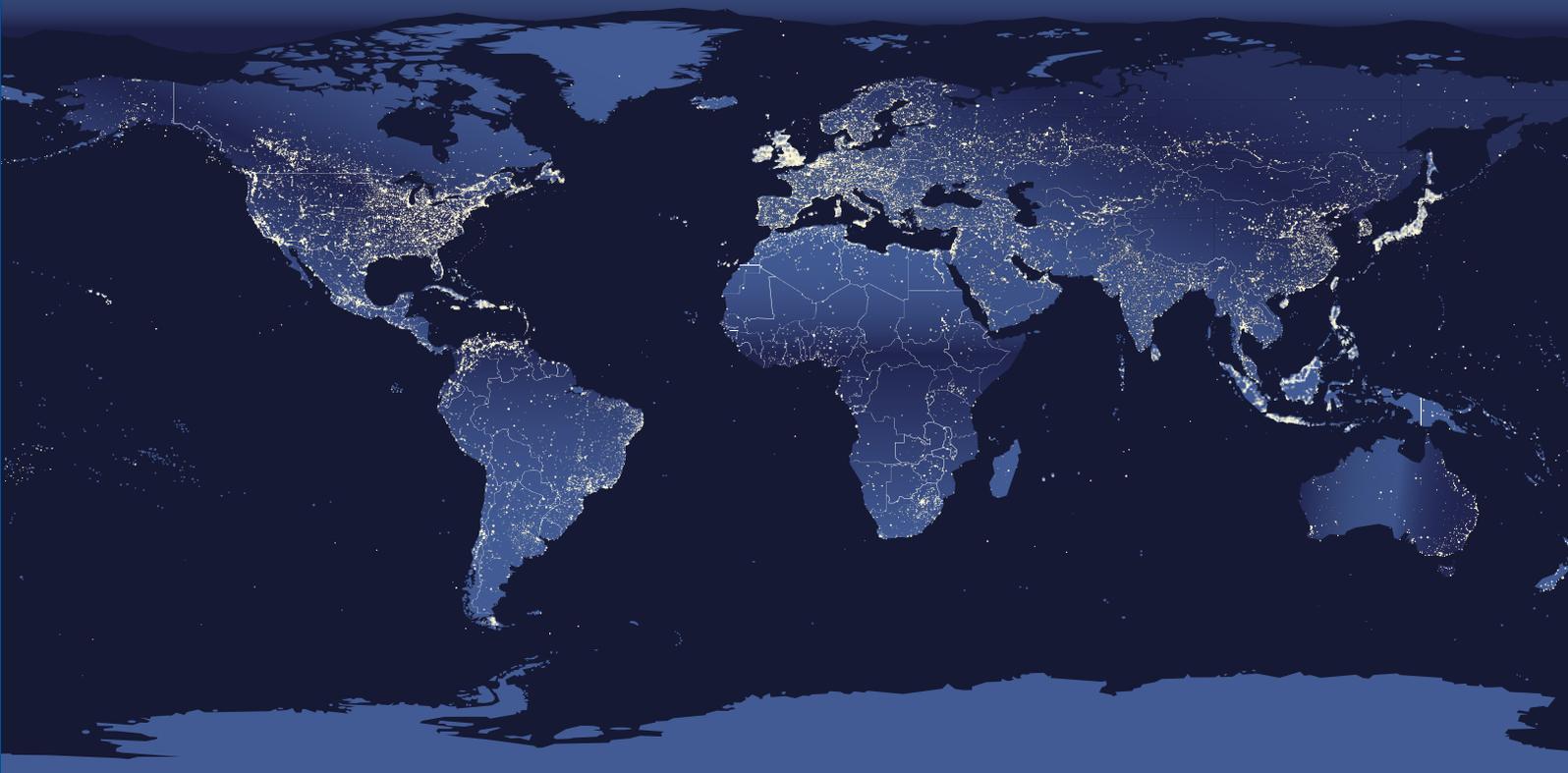


Identity Card Solutions



HID Global
Citizen Identity Solutions





The Fundamentals of Identity

The world's population is forecast to reach 11.2 billion by 2100, and combined with the social and economic challenges brought about by increased global travel, migration and security threats, the need for each individual to have a legal and secure identity has never been greater.

Identity is one of the most important rights in the modern world, providing protection, peace of mind and freedom for both citizens and their governments.

For the individual, it is a validation of who he or she is. It secures their rights, ensures their entitlement and access to services and allows them to travel.

For governments, identity allows authorities to plan, provide social benefits and services, allocate resources effectively and protect the collective national identity.

As the global leader in identity management, HID Global understands the challenges and requirements of delivering a legal and trusted identity for both the citizen and the government. We leverage our knowledge and expertise to create and deliver integrated citizen identity management solutions.

We believe that a legal and secure identity is the foundation that enables participation within society and the wider global economy — and that authentic data is key to the success of any identity management solution.



SOLUTION OVERVIEW

- Production, personalization and delivery of physical documents or digital credentials
- End-to-end solutions, including application management, data matching, decision support, issuance and lifecycle management
- Customized platforms based on your specific requirements
- Data management and data integration with a common platform
- A selection of card substrates including polycarbonate, Teslin and composite cards
- Working in partnership with key global and local partners
- Develop local skills and expertise

Domestic Requirements

Domestic and national identity needs –including **national identity cards, driving licenses, residents permits, voter registration, health and education cards** – are critical for the functioning of society.

Getting this important aspect of identity management right enables governments to protect their citizens, keep count of the population, understand who those citizens are and what they're entitled to. This, in turn, allows authorities to plan and provide social benefits and services, allocate resources effectively and protect the citizens.

The first function of any identity card is to identify the holder. It provides simple face-to-face confirmation of the holder and key biographic data such as name, status, date of birth and any specific rights, permits and entitlements. The addition of a bar code, QR code or chip enhances the card's ability to offer and access more services upheld via electronic identification, online authentication and / or the use of digital signatures. There is also potential for post issuance functionality and third-party solutions associated with e-Wallets, travel apps, loyalty cards, health records, education and employment data.

At HID Global, we provide the design, production and supply of physical documents that support national identity programs through to fully managed and integrated platform solutions. We can also help you shift from physical to digital as part of your e-Government transition plan.



ID System and Integration

The secure management of citizens' identities requires a series of highly complex work streams. HID has simplified these into a single, complete, next-generation identity management solution, providing the functionality needed to underpin all e-Government and e-Citizen applications.

HID Integrale™ is a web-based software solution for the secure management, personalization and storage of citizen identity data that allows governments to record, validate, retrieve, update, certify and issue documents to citizens.

Citizen Identity Management

HID Integrale comprises data and technology that supports the management of digital credentials in a secure and flexible way. It facilitates access to rights and also enables access to unique identities, across multiple applications, from a single foundation.

Complete Personalization Solution

HID Integrale offers governments access to a comprehensive menu of custom solutions for the personalization of ID documents. HID provides solutions for manual or automated production and for small or large-scale delivery.

PKI (Public Key Infrastructure) and Chip Encoding

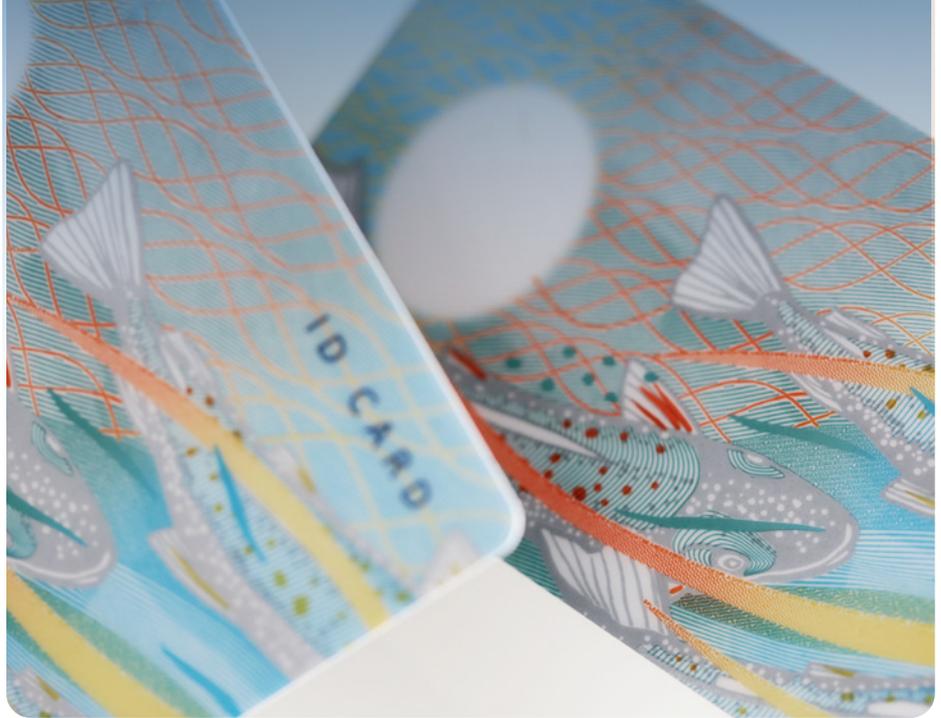
HID Integrale uses PKI and other cryptographical techniques for chip and data encoding. Other encryption solutions are also used for a range of e-ID applications, including travel apps and driving licenses.

Mobile Identity Issuance

HID Integrale facilitates the issuance of mobile identities via the HID goID solution. This fully encrypted solution delivers secure credentials to mobile devices, catering for future digital identity needs.

SOLUTION OVERVIEW

- Open architecture integration
- Flexible, modular workflow
- Stand-alone or integrated solution
- Rapid installation and configuration
- Fully functional suite of modules enabling citizen-centric database management, enrollment, verification, personalization, issuance, audit and control



SOLUTION OVERVIEW

- End to end capability to design, manufacture, personalization and deliver any document type
- Experts in the provision of documents, systems, technologies and support to integrate and deliver complete, secure identity card solutions
- Access to a breadth of design knowledge and skills, including a thorough analysis and understanding of the potential threats.
- Structured approach:
Creative collaboration / Designed for use / Inspirational iconic design / Insight and evidence / Layered security / Risk reduction
- A partner who provides documents with the integrity to reinforce national reputation

Physical

In-House Design

Beautiful imagery, strong design themes and cultural aesthetics are combined with a highly sophisticated layering of security features to combat specifically identified threats and ensure the document's integrity.

Integrated security

The ID card solution incorporates state-of-the-art security printing features such as Lithography, multi-color ultraviolet (UV) and infrared (IR) workings, rainbow effect, fine line drawings and Guilloche patterns. These base workings can be combined with optically variable inks (OVI), embedded holograms and tactile features, such as, CLI/MLI lens and embossing, further enhancing security and protection.

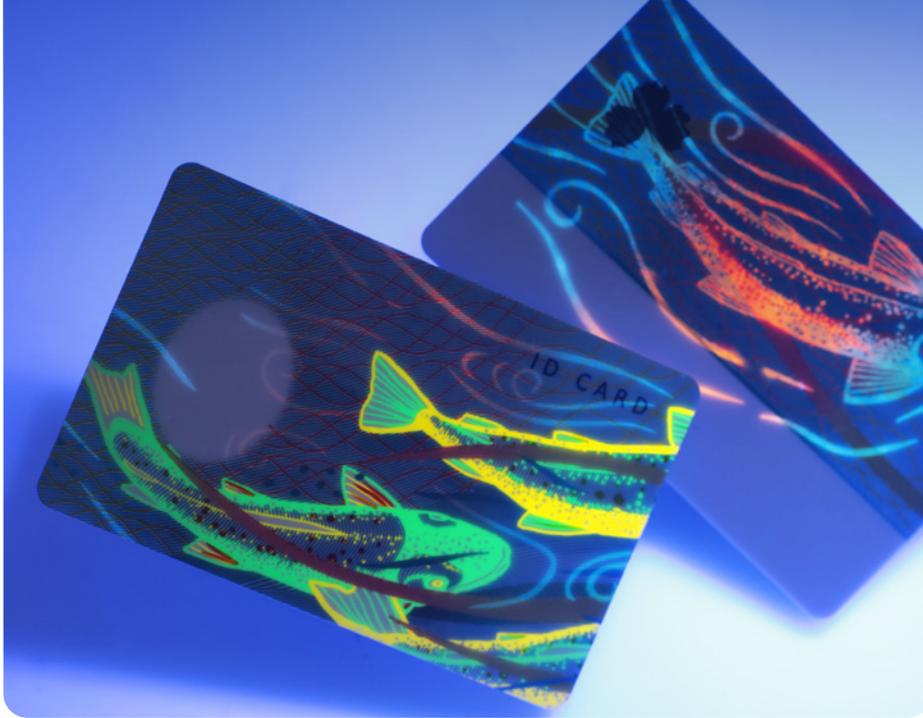
Personalization

By using the holder's personal details and applying encryption techniques, specialist codes and variable print features, our advanced personalization features ensure each document is totally unique.

Chip

A contactless integrated circuit chip can be embedded in the card, with three potential levels of access (BAC, SAC, EAC) and conformity to ISO14443.

The HID SOMA family of chip operating systems covers the needs for secure ICAO® e-Passports, national e-IDs, resident permits, digital signature and multi-application cards. These Common Criteria compliant systems are available in native implementations and open platform applets.



HID GLOBAL'S 100% POLYCARBONATE ID CARD

Classification

Secure ID1 card

Security Level

Levels 1, 2 and 3 depending on selected features

Durable and attack resistant 100% polycarbonate, long-life card, encompassing a multi-layer structure protecting against the threats of counterfeit of the card and fraud to the holder's identity.

Protect identities and prevent counterfeiting

Easy to verify protective solution with a mono-block structure, embedded security features (physical and electronic) and tamper evidence built-in. The ID Card contains characteristics that combine to safeguard the holder's personal details and make it virtually impossible to counterfeit without obvious signs of attack. The polycarbonate substrate solution also ensures a strong performance in terms of card longevity and durability.

Multiple uses

A sophisticated range of security features are incorporated within the polycarbonate substrate to protect the holder's identity. Any attempts to access the inner layers and alter data will immediately damage these highly detailed features, making an attack obvious.

Usage

Suitable for all ID1 card applications (national ID, e-ID, driving license, voter registration, health insurance, student ID, etc.)

Personalization and application

High definition personalization: laser engraving from industry-standard personalization devices produces high definition text and greyscale image replication. An RFID chip can be embedded within the card structure – along with a range of e-ID applets and chip options. A proven, robust and highly durable solution, fully compliant with the latest applicable ICAO 9303, ISO/IEC 1444, ISO/IEC 7810, ISO/IEC 7816 standards.

Digital documents

e-ID cards simplify citizens' day-to-day interaction with governments and commerce – enabling access to a wide range of services. Such schemes have become an important cost-effective means of arming citizens with the tools necessary to access e-Government services. Creating documents that are trusted physically and electronically by the population is of paramount importance – confidence and convenience lead to use, and use leads to tangible benefits.



Service and Consultancy

Technical Consultancy

HID provides expert consultation to governments looking to better understand and comply with international standards. As well as offering clear insights on the solutions, features and technologies available, we create solution roadmaps, and give advice on upgrades and futureproofing.

Full Personalization Service

Personalization services can be located at the customer's site, or at secure premises provided and fully managed by HID. We provide world-class, cost effective and flexible solutions, all underpinned by our knowledge and expertise.

Operational Service

We have developed long-term partnerships with governments by providing tailor-made service and maintenance contracts, managed by dedicated support teams. We also help to manage all new requirements that arise during the life of a contract.

Disaster Recovery and Business Continuity

Being effectively prepared to respond to any potential interruptions is essential. Emergency response procedures are always clarified and agreed with the customer up-front.



Delivering Quality

Quality and integrity are central to the manufacturing of all secure documents and software developments. Customers can be assured that their solutions are delivered to meet their exact requirements as well as the highest standards.

Delivering Professional Projects

Our specialized, dedicated project management teams ensure that the customer's needs are met, promote clarity throughout the process and foster a collaborative, productive partnership.

In-Country Installation

With their extensive local knowledge, our on-the ground teams provide support throughout the implementation phase and manage regional third-party contractors and partners.

Knowledge Transfer and Training

As part of our ongoing support package, we also provide dedicated workshops and in-country training so that customers are fully informed about their identity management solution.

Citizen Identity Management

A view of the market



Citizen Identity is a critical issue in the modern world

By 2100, the number of people on Earth will be

11.2 billion

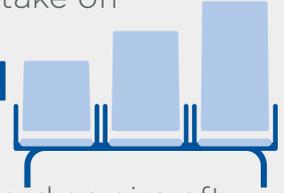


Every 60 seconds,

52 aircraft take off

5,700 passengers board an aircraft

Departures
Arrivals



The birth rate is

4.3 per second

367,200 per day

15,300 per hour

11,383,200 per month



That's an average of

8 million

people travelling every day

There are a number of key challenges to get right

A different approach is required if these challenges are to be solved.



1

Mass migration is the new normal

In the first **7 months** of 2015 the EU received

4 times as many first time asylum seeker applications as it did for the entirety of 2008. But this still represents less than 3% of the world's displaced population.



A global challenge needs a global response



Global focus on tackling the barriers to realise a legal and secure identity for every person on the planet

The UN estimates that the number of forcibly displaced people is now greater than

60 million



Over **250,000** people per week leave their homes to seek protection



1 in 3

children under five do not officially exist. That's

230 million

children with no identity and who will struggle to access education, health care and social security.

2 The right foundations are essential

Existing infrastructures often hold multiple identities for a single individual.

Ensuring that secure and effective birth registration and death certification in place is essential.



3 Recognize that each country is unique

Countries are facing different challenges driven by their legacy systems and technology infrastructure.



Specific global approach to identity issues driven by forced migration



Globally consistent standards for data matching and document security across all regions and travel types



Country-specific roadmaps for enhanced e-Government services

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2020-01-30-cid-card-identity-solutions-br-en

PLT-04889

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