

More on Gemalto

Gemalto is the leader in digital security with pro forma 2009 annual revenues of over €1.654 billion, operations in about 85 countries and over 10,000 employees.

Gemalto provides end-to-end digital security solutions, from the development of software applications through design and production of secure personal devices such as smart cards, SIMs, e-Healthcare cards, e-passports and eIDs, to the deployment of managed services for its customers.

More than a billion people worldwide use the company's products and services.

Gemalto and the public sector

In the public sector, Gemalto is contributing to over 50 national programs.

The company has a long history in secure printing as well as in the smart card industry. Gemalto has produced identity cards, passports and e-passports, driving licenses and e-healthcare cards for many years. It also has extensive experience in the delivery of issuance, enrolment and e-Government solutions or even turn-key solutions and operated services for national passport, ID or health systems.

Gemalto is taking an active part in 14 national eID initiatives and 9 major eHealthcare programs around the world.

In 2005, Gemalto began producing Sweden's, Norway's and Denmark's e-Passports. As of today, Gemalto is contributing to more than 20 national e-passport programs including in particular Côte d'Ivoire, Estonia, France, India (diplomatic), Italy, Morocco, Portugal, Qatar, Singapore, Slovenia, Turkey and USA.

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The electronic passport

||||| The freedom to travel in total security

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The International Civil Aviation Organization (ICAO) defines the specifications for travel documents, and in particular passports. This allows citizens to cross borders (using either a passport only or a passport with a visa inserted).

Migration to ePassports has been in progress since 2005. Unlike conventional passports, the ePassport has a chip which stores a digital version of the ID photo as well as all of the ID data found on the first page of the paper passport. In addition, digital fingerprints can be stored. In this case it is referred to as a “biometric passport” or second generation ePassport.

Added security

The introduction of smart card technology is aimed at improving security by making forgery more difficult still. Now, a forger must not only modify the data printed on the passport but also that contained in the chip to ensure that the two sets of information match.

The chip's software contains an arsenal of technical measures to ensure any modification is not only extremely difficult but also easily detectable. The data is stored securely and signed by the government agency that issued the passport. The passport readers verify not only the identity of the citizen, but also the authenticity of the document. If the data has been modified the signature will no longer correspond and the document is therefore false.

The new ePassports feature multiple layers of security to protect an individual traveler's personal information and photograph for a higher level of security.

In addition, the chip allows rapid, automated reading of the bearer's identity when crossing borders, reducing waiting times and eliminating errors when processing passengers (e.g. mistakes when entering names, etc.).

For nationals, it is even possible to put in place customs kiosks with face and fingerprint recognition to facilitate their entry onto the territory. As a result, immigration officers are more available to perform checks on foreign nationals, in particular for verifying visas.

Gemalto offers a wide range of passports and components for ePassports to meet the different needs of governments, including:

- > A complete ePassport for governments purchasing passports from a manufacturer
- > An electronic component, either in the form of an inlay or cover, or as a page of data in polycarbonate into which the electronic component is integrated, for governments who prefer to manufacture their own passports

These products are associated with a range of solutions for registration, issuance and verification of documents, as well as managed issuance services provided on behalf of governments, as is the case in Sweden and Norway.

Guaranteed durability

Passports are often mistreated by their holders who keep them in their pockets or in their hand-luggage. The electronic component therefore needs to be tough and reliable.

Our products undergo the different resistance and interoperability tests organized by both the ICAO and European states. In addition, our own laboratories carry out tests in more severe conditions, subjecting our passports to extreme pressure, torsion, heat, saline mist and chemicals. This stringent testing aims to ensure that our customers receive faultless products with every possible guarantee of correct operation throughout the lifetime of the passport (up to 10 years in some countries).



Our expertise at your service

Many countries have already adopted the ePassport, and have chosen Gemalto as their partner.

Gemalto has become the world's foremost supplier of ePassport solutions with several tens of millions of products (passports and electronic components) and solutions delivered to the Cte d'Ivoire, Denmark, Estonia, France, Hong Kong, Italy, Lithuania, Malta, Morocco, Norway, Portugal, Qatar, Singapore, Sweden, Turkey and the United States.

Gemalto actively contributes to standardization groups such as ISO, BIG (Brussels Interoperability Group) and the IACO. This allows us to offer products which conform fully to the most recent norms and standards.

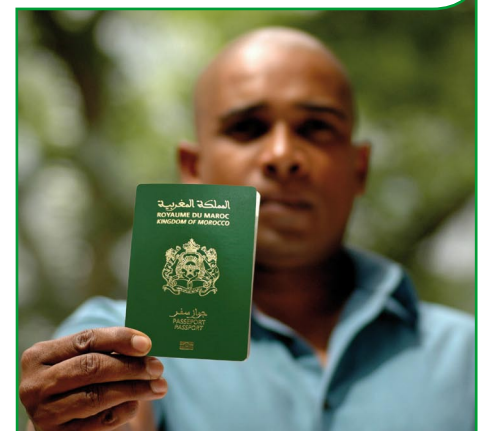
Whichever passport you currently use, Gemalto is able to offer a migration program tailored to your existing system and to your future needs.

In particular we can migrate your solution block-by-block, for instance maintaining the current passport request system and scanning forms at a central location to extract the photo and the data they hold. The next step will then be to deploy an infrastructure for the real-time capture of photo and fingerprints.

Where passports are currently issued manually, migration to an automated solution for printing the photo and the optical strip, and writing the data into the chip, is definitely the way forward. Gemalto provides tailored solutions

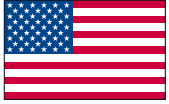
to deal with different volumes in order to offer you the most appropriate solution.

Gemalto is also available to advise you and to present case studies for countries which have already made the transition to ePassports. Gemalto works in direct collaboration with national police and printers to create new documents and their corresponding security features.



References

The American ePassport

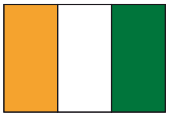


With more than 13 million passports issued each year, the American ePassport program is one of the biggest in the world. In August 2006 the US Government Printing Office chose Gemalto to provide Sealys eCovers and a Sealys eTravel operating system, as well as a Coesys Issuance pre-personalization solution.

Gemalto's secure documents and solutions are fully compliant with the requirements of the GPO in terms of protection of private data, security, durability, yield, speed of transactions and performance of communications.



Gemalto ePassports for Cote d'Ivoire



Gemalto is supplying its digital security technology for Cote d'Ivoire's ePassports program.

Gemalto is delivering Sealys inlays, the secure devices which integrate its advanced ePassport software technology, to the integrator Zetes.

Sealys eTravel, the highly secure OS featuring advanced cryptographic functionality, was also part of the chosen solution.

More than one-million passports are currently in circulation.

One million French passports issued in 5 months



On 13 April, 2006, the Imprimerie Nationale, the French state printers,

issued the first French ePassports manufactured using Gemalto technologies, featuring the Sealys eTravel operating system which offers a very high level of data security through use of encryption algorithms, and Sealys eCover Inlay, containing the contactless microprocessor integrated into the passport cover.

By the end of September 2006, the milestone of one million ePassports issued had already been reached, marking a notable achievement in the biometric passport industry.

In 2008, Gemalto was selected by the state printers to supply its Coesys Issuance solution, designed for the personalization of second generation French biometric passports.

These new travel documents contain digital biometric information, in particular digital fingerprints.

The state printer now produces around three million passports a year.

Estonia chooses Gemalto

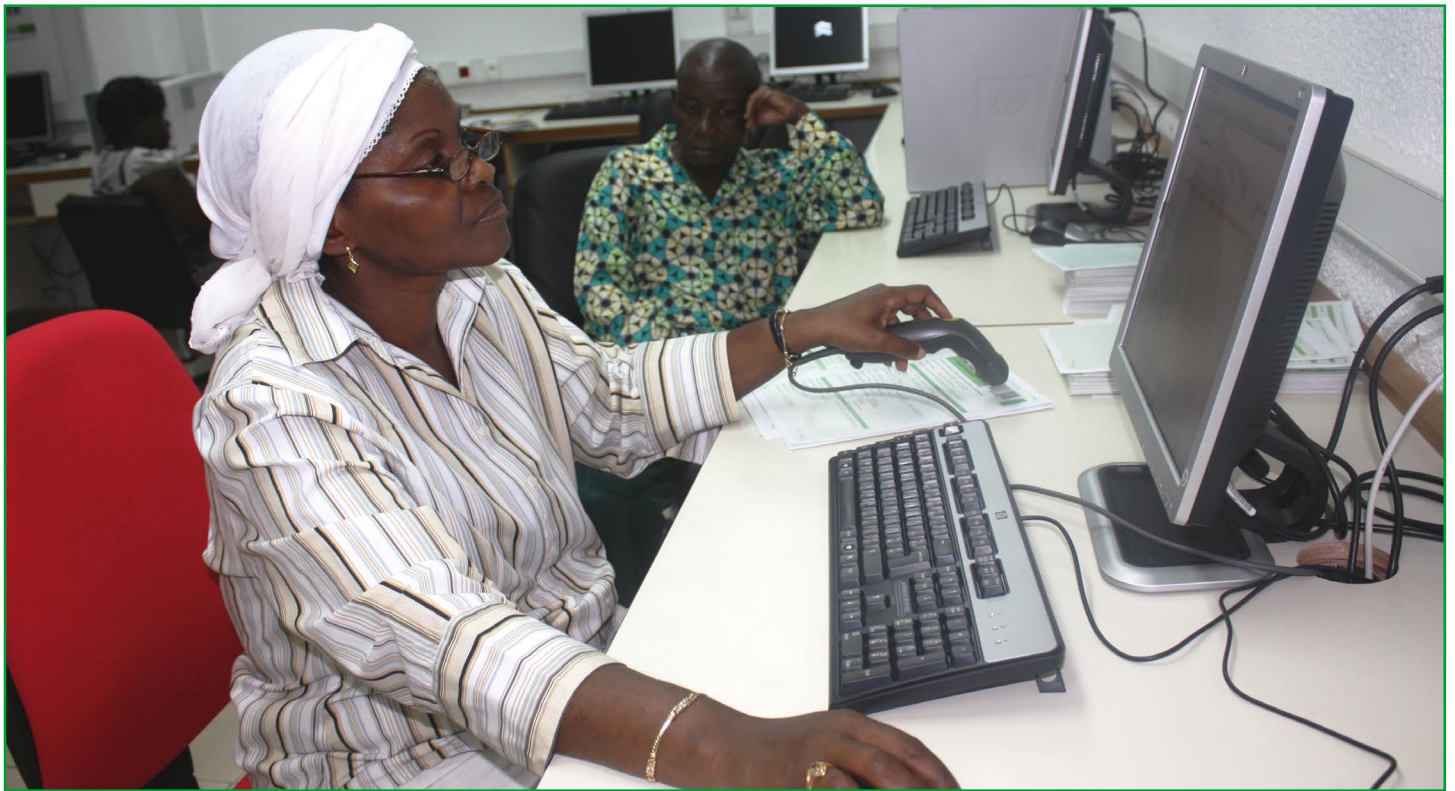


With responsibility for manufacture of travel documents integrating a chip for biometric

identification, Gemalto is supplying its Sealys ePassport solution, as well as Coesys Issuance personalization for Estonia.

The Coesys Enrolment solution is used in the registration of certificates and includes the software and equipment required to capture and digitize data, photographs and signatures, and has been deployed at 300 stations across 20 registration offices throughout the country.

The personalization centre is capable of producing up to 1,500 passports in 7 hours.



The Moroccan passport becomes the first biometric passport on the African continent.



In January 2009, the Ministry of the Interior set itself a one-year time frame in which to deploy a

complete solution for the registration and issuance of EAC-compatible second generation biometric passports. On 15 December, 2009 the first ePassports were issued in this country.

Gemalto's solution includes the highly secure Sealys eTravel OS, as well as eCovers with built-in contactless microprocessor containing the photograph and fingerprints of the passport holder. Gemalto also provides its Coesys Issuance turnkey personalization solution as well as installation, training and maintenance services.

For the capture of citizens' data, Gemalto is supplying the Ministry of the Interior with its Coesys Enrolment solution in conjunction with Moroccan partner Netopia, a leading service provider in public sector integration. In addition, Gemalto has also implemented a process for the transfer of skills to Netopia to support the launch of the project.

New ePassports in Norway



In 2010, the Norwegian Police renewed their multiannual contract for personalization and issuance of ePassports for Norwegian citizens. Within the scope of this contract, Gemalto will manage all processes associated with the issuance of ePassports, from the manufacture and personalization of passports to the issuance services which will be taken charge of by the secure services centre in Oslo.

Norwegian ePassports were first launched in 2005, making Norway a pioneer in the field. Both new passports and the issuance solution incorporate a mechanism for Extended Access Control (EAC) offering increased security. The documents also feature an innovative fixing method which allows the data page to be fixed to the body of the passport, preventing any removal for fraudulent activity.



Synchronization of ePassports and eID cards in Sweden



In October 2005, Sweden became the first country to simultaneously deploy national eID cards and ePassports, both documents being incorporated into an ICAO- and EU-compliant contactless eTravel application.



As well as these second generation secure documents, Gemalto is supplying its Coesys Issuance solution and, through a joint venture, the Allynis Issuance personalization service for Swedish national ePassport and eID cards.