

Coesys solution for civil registers

||||| To modernize, digitize and increase reliability of civil registers



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The civil register is used to manage the situation of all the citizens of a nation, providing the means to create certificates of birth, marriage, divorce, death, etc. As such, it plays an important role in the security of a country's institutions, in particular identifying the holders of nationality.

The civil register makes it possible to have a full record of the country's population, to assign a unique identification number to each citizen, allows centralized and decentralized administrations to manage their relations with each citizen, while at the same time protecting their individual liberties.

The civil register is the key matrix for all identity registers for the country and for all the citizens' identification documents (driving license, national identity card, passport, etc.). It allows identification of citizens and makes it possible to distinguish them from foreign nationals who may, for political or economic reasons, attempt to benefit fraudulently from rights reserved for citizens of the country.

The digital modernization of the State is necessarily underpinned by the creation of a secure infrastructure to help pool and coordinate efforts to increase the reliability of all identity documents issued. These identity documents are key in allowing citizens to exercise their rights and responsibilities.

Clearly, identity theft and fraud are sources of social injustice, as the community may inadvertently allocate resources to an ill-intentioned individual who, by adopting the identity of another person, deprives the genuine citizen of his or her legal entitlement.

The first requirement in terms of reliability is therefore to ensure the infallibility of the procedure for issuing and distributing identity documents. Failure to achieve this could jeopardize trust in the whole program.

> Gemalto provides a civil register solution the purpose of which is to:

- Consolidate and increase reliability of information relating to the identity of citizens within a single, central database.
- Ensure the accuracy and coherence of information managed by various governmental agencies in order to reduce workload and time required to access, correlate and correct information.
- Reduce fraud, control costs and manage delivery times for implementing specialized registers (national identity cards, passports, driving licenses, electoral rolls, social security, and civil service census).
- Provide a reliable and efficient statistical management tool necessary for good governance and for improving services to citizens.

> The Coesys civil register solution features:

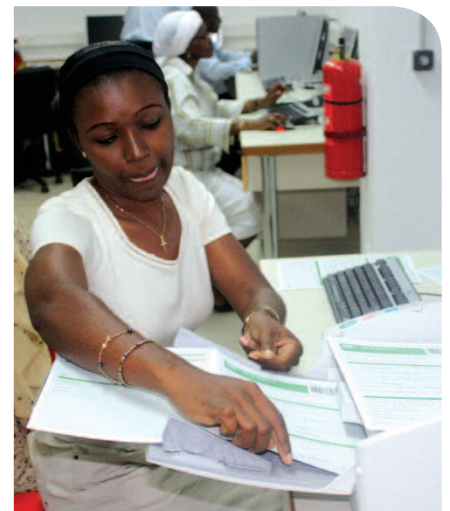
- A registration infrastructure, which will serve to record all of the population's life events (births, marriages, divorces, naturalizations, adoptions, deaths, etc.) and to issue secure certificates.
- A distributed civil register database, with a process of migration and validation of data from the legacy system.
- An AFIS (Automated Fingerprint Identification System) type biometric database, to provide a fast, reliable, automated way of ensuring a citizen's uniqueness, by comparison with the rest of the population using his/her fingerprints.

Gemalto offers an optional module for drawing up electoral rolls, as well as the implementation of electronic national identity cards and passports.



Capture of fingerprints (Muscat, Oman)

Recording of citizens in the civil register is carried out using a registration station which allows the entry of civil data, the scanning of supporting documents and the capture of photos and fingerprints. A civil register management application deployed in Town Halls and in maternity wards is provided for recording life events, printing out the associated certificates and updating (in case of death, divorce, etc.) data already held in the civil register.



Centralized form scanning (Libreville, Gabon)

According to the site, only certain functions will be activated. For instance, a maternity ward will only be able to declare a birth, and it will only be possible to validate this record once one of the parents has visited a Town Hall to confirm the birth.

The Gemalto solution takes into account a diagnostic of the legacy procedures in place so that authorized personnel can migrate the existing data (paper registers, national identity card database) into a single centralized database, with digitization and archiving of the data. The system can also include a lexicon of names detailing ascendants and descendants, which will increase the reliability of the register.

The improvement of the register is also an opportunity to create links with other governmental databases with the aim of increasing reliability and reducing the possibility of fraud, for example in social security systems, land registers, taxation or the driving license database.

Gemalto's offer is based on a set of technological building bricks (enrolment, central database, biometric database) each of which can be tailored to the individual needs of each country.

Gemalto delivers a turnkey solution which includes the integration of an AFIS (automated fingerprint identification system) and the implementation of a biometric database.

The components for enrolment and management of citizens have been deployed in the following countries:

- Enrolment of citizens: Algeria, Denmark, Estonia, Finland, Gabon and Morocco.
- Management of citizens: Algeria, Denmark, Estonia, Norway, Oman, Portugal, Slovenia, Sweden.



In Denmark, Gemalto operates on behalf of the royal police force, managing the centralized registration of documents from town halls in a secured centre located in the suburbs of Copenhagen. Gemalto is currently producing and personalizing 700,000 second generation Danish electronic passports and delivering them district by district, providing a turnkey service for the royal police. Gemalto also operates the same type of centres for Norway, Sweden and Estonia.

■ About Gemalto

Gemalto (Euronext NL 0000400653 GTO) is a world leader in digital security with pro forma 2009 annual revenues of €1,654 billion, more than 77 offices in 40 countries and some 10,000 employees, including 1,400 R&D engineers.

Gemalto manages 18 production sites, 30 personalization centres and 11 R&D centres.

Gemalto produced and personalized over 1.4 billion smart (microprocessor) cards in 2009.

Gemalto provides end-to-end digital security solutions, from the development of software applications through to design and production of digital security devices, such as smart cards, SIMs, bank cards, e-Passports and tokens, as well as the deployment of services on behalf of customers.

■ Gemalto and the public sector

Gemalto has considerable hands-on experience in the public sector, having participated in over 50 national projects worldwide, including many electronic identity card and passport programs.

Gemalto is also a partner in the world's main e-Health programs, and has worked extensively with drivers' licences, vehicle registration and tachograph cards.

Gemalto was formed in June 2006 as a result of the merger between Axalto and Gemplus.

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