



➤ Secure ID Solutions: The Trusted Partner



- End-to-end integration of secure ID solutions
- Modular multi-application architecture
- Risk management and key technologies expertise (smartcards, biometrics, PKI, etc.)
- Long-term customer support
- Innovative financing packages
- Protection of privacy

A fast-changing sector

Individual states and international bodies like the ICAO (International Civil Aviation Organization...) have responded to the proliferation of new types of threats (illegal immigration, organised crime, cybercrime, terrorism, etc.) and the growing volume of global trade and travel. Among other measures, they are stepping up and standardising the security features of identity and travel documents to meet the expectations of civil society and the need to protect the privacy of citizens.

At the same time, the latest advances in smartcards, biometrics, cryptography and other advanced technologies are making it possible not only to meet customers' growing security requirements, but to provide access to multiple applications, turning ID documents into versatile, multi-service media.

Unique experience in turnkey solutions more than 120 million ID documents

Thales : The Trusted Partner

In this fast-developing sector, where performance, deadline, operating cost and security requirements are more stringent than ever, Thales stays abreast of the latest developments and is positioned as the **Trusted Partner** for secure digital identification technology, specialising in the supply, replacement and upgrade of secure ID systems as well as the production of documents.

Risk management and long-term dependability



With its unique combination of global presence, more than twenty years' experience in **the design and operation of secure ID systems and extensive expertise in digital technologies**, Thales offers unparalleled knowledge of the constraints and risks involved and can provide its customers with the solutions that most closely match their needs and budgets.

End-to-end security



As a global security expert, Thales guarantees its customers end-to-end security solutions including system-level and operational security, security of supply, IT security and secure Key Management Infrastructures (KMI). Thales provides seamless solutions incorporating customised signature and certification protocols in full compliance with relevant standards.

Standardised modules and scalable architectures



The modular range of Thales secure solutions is suitable for **all types of identity documents*** and incorporates the latest technological features. Thales delivers complete digital identity management solutions to meet customers' specific needs at a competitive price. Thales solutions cover all phases in the production cycle: data acquisition, database creation, data flow management, application verification (one person, one application), personalisation (including data and physical security), issuing management system and document control.

* passports, visas, national ID cards, residence permits, driving licenses, vehicle registration documents, voter registration cards, etc.



ns: s produced in over 20 countries

The core of the system: a trusted infrastructure



Thales has developed a **multi-application digital infrastructure** that guarantees **complete and secure management** of all procedures throughout the lifecycle of an ID document (creation, renewal, update of personal details, etc.). This solution can process huge volumes of data in strict compliance with local regulations.

A combination of physical protection and digital encryption guarantees the integrity and confidentiality of data transmitted on packaged media or over a network. To maintain security throughout the entire process, personnel at document production centres are carefully monitored, secure deliveries are tracked and applicants are authenticated at places of issue.

Acquisition and identification: data quality and compliance



Thales' software solutions automatically monitor quality of data (photos, fingerprints, signatures, etc.) and their compliance with relevant standards. These solutions ensure secure transfer of data: digital certificates and signatures, encryption, Virtual Private Networks, interface management. Automatic management of personal data input can be enhanced by OCR/ICR character recognition functions.

Thales' identification systems can incorporate **any type of biometric technique**, including a proprietary solution based on digital fingerprint comparison. Combining these technologies with national database management systems, governments can ensure secure identification of people requesting ID documents. Thales has processed over 150 million fingerprints using their AFIS (Automated Fingerprint Identification Systems) systems.

Document personalisation: flexibility and security



The Thales graphic and electronic personalisation solution **can handle different types of documents** (with or without embedded chips) **at the same time**, in full compliance with international standards and recommendations, and manages all personalisation subsystems. The multi-language user interface is independent of the personalisation equipment selected. **Production data archiving and traceability are fully secure** thanks to user authentication and role management.





Document distribution: secure, customised procedures



The document distribution process can be tailored to each customer's specific procedures, whether individual mailing or batch delivery to places of issue, with delivery tracking and traceability guaranteed by Thales. To validate the document at the moment of issue, the applicant's identity is confirmed (fingerprint scanning, etc.) using adequate equipment.

Control: a secure authentication process



Thales provides fixed and mobile solutions to verify identification automatically both at border checkpoints and in-country. As well as checking the match between the **document and the bearer**, Thales secure authentication solutions also cross-check bearers with watch lists and stolen document reports.

Through-life support: availability, upgradeability and long-term serviceability



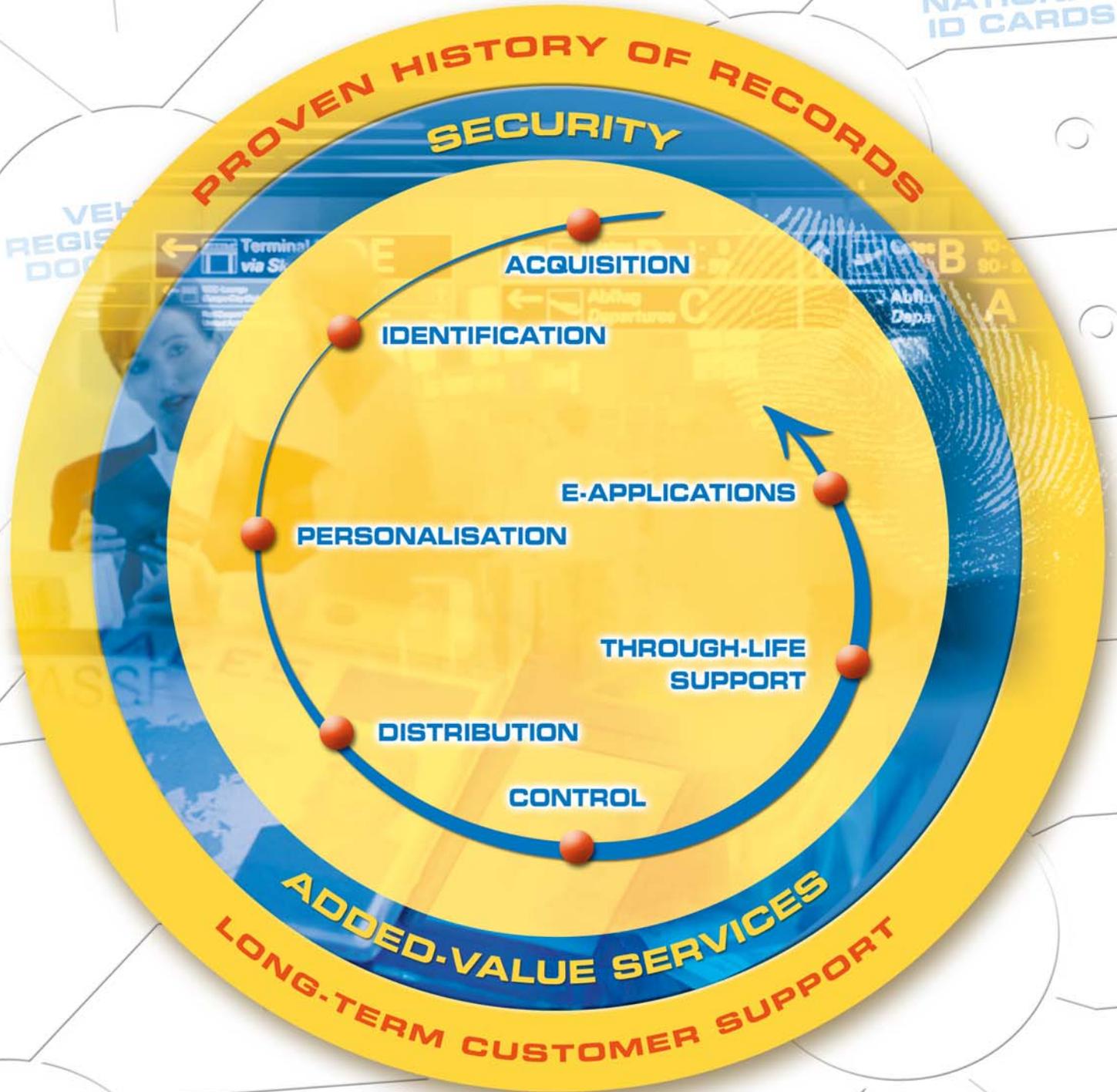
ID document production systems must be continuously operational for the duration of the project. To meet this requirement, Thales' teams of experts manage **a global network of service partners** who provide dedicated support on a local basis for customers. Customers also benefit from a 24/7 call centre with customer care systems that monitor and trace calls and ensure incidents are followed through to successful resolution. In line with its **partnership and long-term customer support strategy**, Thales transfers to its customers the knowledge they need to maintain and upgrade their systems throughout their operational life cycles.



The Trusted Partner

VISAS

NATIONAL ID CARDS



VEH
REGIS
DOC

Terminal
via St

ACQUISITION

IDENTIFICATION

E-APPLICATIONS

PERSONALISATION

THROUGH-LIFE
SUPPORT

DISTRIBUTION

CONTROL

ADDED-VALUE SERVICES

LONG-TERM CUSTOMER SUPPORT

RESIDENCE PERMITS

PASSPORTS

DRIVING
LICENSES

Excellence in customer support and services

E-applications: a through-life multiservice support

To meet the emerging requirements of e-administration and citizens' growing expectations, **ID documents are becoming increasingly multi-application**. Building on its experience in the deployment of national transactional systems for applications including ID, transportation and banking, Thales guarantees to its customers a consistent implementation of these applications.

Innovative financing and service-bureau operations

A growing number of administrations are transferring responsibility for secure ID document production to private contractors in order to control their budgets more efficiently and optimise system operation. To meet these requirements, Thales has set up service-bureau operations backed by innovative financing packages, including public-private partnerships (PPPs) and private finance initiatives (PFIs), for many customers throughout the world.

Expertise and independence

- **Standardisation and interoperability**

Leveraging its role in all the main standardisation bodies, Thales designs and develops **system architectures** that do not rely on proprietary technologies and uses fully compliant hardware and software platforms to support **cross-programme infrastructure sharing**.

Thales laboratories have been CESTI-certified (Centre d'Evaluation de la Sécurité des Technologies de l'Information) by the French Administration (Direction Centrale de la Sécurité des Systèmes d'Information) for the evaluation of security components and their embedded software.

- **High-security consumables**

Thales integrates **the most advanced materials and technologies**, including smartcards for contact, contactless, hybrid and dual applications. Thales operates a laboratory that tests the security, resistance and durability of materials to radiation, humidity, tearing, etc.

- **Qualification of subsystems**

Thales provides the independent expertise needed to select and qualify acquisition, capture, personalisation and control equipment in line with the specific requirements and budget of each customer, and to work with the concerned suppliers when customisation is necessary.



Thales is an international electronics and systems group serving defence, aerospace, security and services markets.

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