



ePassport performance and compliance



The demand to store increasing amounts of data on a machine-readable travel document has led to the development of the ePassport. Countries around the world are now beginning to implement ePassport programmes in a bid to improve security, facilitate passenger processing and provide better services to passport holders.

De La Rue Identity Systems has extended its leadership in conventional passports into the arena of ePassports with the development of a comprehensive ePassport solution, including ePassport booklets, that is fully compliant with International Civil Aviation Organization (ICAO) and supplementary, regional standards.

De La Rue's ePassport booklets provide:

- **Compliance** – with ICAO 9303, European Union and US visa waiver programme standards
- **Global-interoperability** – read successfully by all compliant readers
- **Cryptographic data protection** – to safeguard data integrity and privacy
- **Durability** – suitable for a 10-year life

ePassport functionality and features

De La Rue has spent several years researching, testing and developing ePassport booklet solutions of sufficient functionality, security, durability and aesthetic appearance to meet the requirements of passport issuing authorities. Our ePassport booklets feature a contactless IC chip securely embedded in either the cover or a polycarbonate data page insert.



Setting the standard

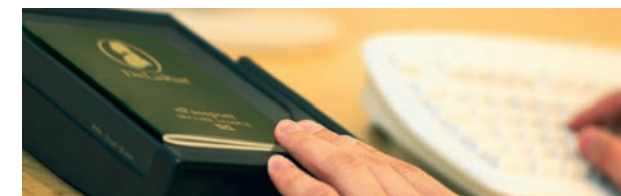
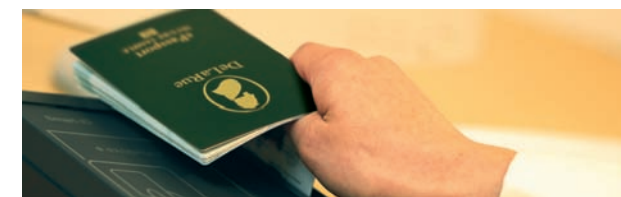
As one of the world's leading suppliers to issuing authorities around the world, De La Rue has been involved in setting the future direction of ePassport development with international standards bodies. It therefore goes without saying that the contactless IC chip, antenna and Operating System used in our ePassport booklets are ISO/IEC compliant as required by ICAO's 9303 standard.

High data capacity

With a data capacity in excess of 64kB, the industry benchmark contactless IC chip selected by De La Rue can easily accommodate the bearer's details, including a biometric facial image and optional fingerprint and/or iris images. The data is stored in the ICAO Logical Data Structure (LDS) format to ensure global interoperability.

Interoperability and readability

De La Rue ePassports are ICAO-compliant, globally-interoperable and can be read effectively by a broad range of readers in use worldwide, as demonstrated in international tests.



Secure and tamper-proof

To safeguard the confidentiality and integrity of the data on the chip, it is secured with a digital signature. The digital signature ensures that the data was encoded by a genuine issuing authority and hasn't been modified in any way since it was created. Additional electronic security measures comprise Basic Access Control (BAC) to secure communications between the ePassport and reader, optional Active Authentication to ensure that the passport has not been cloned, and planned Extended Access Control to restrict access to sensitive data (e.g. iris or fingerprint images).

Physical security is provided by a comprehensive range of multi-layer security features in the ePassport booklet – characteristic of a passport manufactured by De La Rue – and auditing procedures which control all materials and consumables from the beginning to the end of the production and issuance process.

Document durability

De La Rue's ePassports have been extensively tested to industry standards to prove their suitability for use. The booklets excelled in all mechanical, electrical, reliability and durability tests performed.

Flexibility and compatibility

The ePassport booklet's design and functionality can be tailored to meet the individual requirements of an issuing authority, while still maximising security and durability. Our ePassports are compatible with De La Rue personalisation and issuance solutions as well as other industry systems.

End-to-end ePassport solution

To achieve the highest levels of ePassport security and performance, the booklet must be part of a wider, end-to-end solution for personalising and programming ePassports. De La Rue offers a completely integrated system incorporating not just ePassport manufacture, but also application and issuance software, PKI and associated cryptology, and sophisticated personalisation solutions.

Why choose an ePassport booklet from De La Rue?

- Compliant with ICAO, EU and US standards
- High data capacity and high speed of data retrieval
- Globally-interoperable – read successfully by all compliant readers
- Secure and tamper-proof – to safeguard data integrity and privacy
- Durable – tested to industry standards
- Security, integrity and overall quality characteristic of a De La Rue passport booklet
- Backed by an end-to-end ePassport solution from secure government identification expert, De La Rue Identity Systems

De La Rue Identity Systems is a trusted partner of governments around the world, working closely with them to design, implement and manage secure government identification systems. To date, we have successfully implemented over 50 national schemes across every continent.

Our expertise and understanding extends across the complete ID Lifecycle™: the end-to-end process of how individuals apply for, obtain and verify their personal identification. We invest heavily in Research and Development programmes and work alongside organisations like Interpol, the United Nations and the International Civil Aviation Organization (ICAO). As a result, Identity Systems is at the centre of some of the most exciting and innovative developments in the modern world.

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