

ID DOCUMENTS

# IDEAL CITIZ™ — ALL ID INSIDE



# IDEAL CITIZ™

**IDEal Citiz™ is the latest smart cardbased solution from Morpho that responds to global identity needs of the public sector. For years, government agencies have demanded ever higher security and greater functionality as they work to improve their services for their citizens. They need a fast and efficient product to facilitate all Internet transactions in e-government and e-commerce as well as border control.**

What are the concerns of today's governments? Strengthening national security, reducing ID fraud and theft and establishing secure Internet access for their e-services, for example. By addressing these issues, governments are also seeking to improve public services and cut administrative costs.

In keeping with national requirements, and allowing governments to continue their security and electronic application deployment, the European Committee for Standardization (CEN) published the European Citizen Card standard in 2007 to meet these government needs and concerns.

## **THE EUROPEAN CITIZEN CARD IS DESIGNED TO PROVIDE THE FOLLOWING SERVICES:**

- Identification and strong Authentication for e-services with or without biometrics
- Qualified digital signature
- Citizen identification and cross border control

Morpho's development approach is based on a methodology that first meets application and use case requirements and ensures the integration of standards,

provision of security and privacy protection on the strength of its design and innovative features. The result of this approach is Morpho's IDEal Citiz™, an all-in-one solution that meets the full range of ID requirements, including e-services, digital signature and travel applications, leveraging the experience of the company in the security document market.

## **IDEAL CITIZ™ ADDRESSES ALL ID APPLICATION NEEDS:**

- National e-ID and Corporate e-ID
- Healthcare/welfare Card
- Driver License
- Resident permit
- Qualified signature

## **IDEAL CITIZ™ COMPLIES WITH THE FOLLOWING STANDARDS:**

- IAS ECC v1.0.1
- ICAO 9303 7th Edition
- EAC v1.11
- CEN 14890
- CENT/TS 15480
- ISO/IEC 7816 part 1 to 6, 8, 9, 11
- Java Card™ API 2.2.2
- Global Platform 2.1.1
- e-EHIC: CEN CWA 15974:2009



**IDEal Citiz™ enables identification, online authentication and electronic signature with maximum security (IAS ECC Specification, Common Criteria security certification).**

**IDEal Citiz™ is a travel document and a means of citizen identification (ICAO/EAC standards).**

**IDEal Citiz™ enables strong multi-biometric authentication (fingerprints, iris, facial) thanks to the best high-performance Match-On-Card technology available on the market (MINEX II).**

## **IDEAL CITIZ™ IS AN ALL ID INSIDE SOLUTION:**

- With proven interoperability thanks to the IAS ECC and ICAO/EAC ecosystems
- Evolves to handle future applications – and has the necessary performance – thanks to Java™ and Global Platform
- Secured with an EAL6+ Common Criteria certification

## BEYOND THE STANDARDS

First, IDeal Citiz™ conforms to the latest standards in terms of security and applications. These are published by:

- CEN and GIXEL (1): CEN15480 and IAS ECC v1.01: an application meeting the needs of the European Citizen Card for identification as well as for e-government services.
- ICAO and EAC: for travel and resident permit applications.
- ISO (ISO 7816 / 14443), the foundation of the smart card specification.

But IDeal Citiz™ goes beyond these standards by offering the potential to migrate and enhance the security of the system. IDeal Citiz™ already offers the opportunity to use the largest cryptographic keys, including RSA keys of up to 3072 bits and elliptic curves of up to 521 bits.

Finally, IDeal Citiz™ provides customers with an open product during the personalization stage thanks to the use of the common personalization specification (CPS), a standard published by Global Platform.

## OPTIMIZED MEMORY

For even greater convenience, IDeal Citiz™ is available in two versions: a 48 KB and an 80 KB EEPROM. In both versions, the IAS ECC application is directly ROMed, thus leaving the EEPROM memory for application-specific use. The decision made between the two versions will depend on data storage needs for personalization as well as possible evolution to enable new application uploads, for example.

This optimized memory is a must for enhanced e-service capabilities, enabling governments to tackle their new Identification projects in a more confident way – without memory constraints.

**„IDeal Citiz™ relies on the latest evaluated silicon platform available on the market.“**

# KEY BENEFITS OF THE IDEAL CITIZ™

## ENHANCED SECURITY STANDARDS AND CERTIFICATES

IDEal Citiz™ is evaluated according to:

- National e-ID and Corporate e-ID
- Healthcare/welfare Card
- Driver License
- Resident permit
- Qualified signature

## MULTI-BIOMETRY

IDEal Citiz™ leverages the biometrics expertise of Morpho to implement the first multi-Match On Card feature on a smart card (fingerprint, facial and iris on request). The MOC feature is the best possible combination of privacy and security, as the biometrics template is stored securely on the card.

IDEal Citiz™ MOC is the most interoperable and fastest product as confirmed by the NIST based on the Minex II phase II benchmark

## JAVA™ TECHNOLOGY AND GLOBAL PLATFORM

The implementation of the latest versions of Java™ technology and Global Platform gives IDEal Citiz™ the following advantages:

- Post-issuance processes that allow the product to evolve by adding features and applications. It enables management of the card content, including the creation and deletion of applications.
- A high-level programming language that is well known and in common use makes it possible to develop applications at reduced cost.

## FLEXIBILITY AND ADAPTABILITY

IDEal Citiz™ is available for all interfaces: contact, contactless, DUAL or hybrid (contact and contactless chip on one card).

There is also a choice of card bodies to meet a variety of needs regarding service life and personalization modes. Generally based on the smart card (ID1 format) form factor, IDEal Citiz™ is available in polycarbonate or PET with state-of-the-art secure printing and use of specific inks.





## KEY MISSIONS, KEY TECHNOLOGIES

### Morpho

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