

ROMANIA

**ELECTRONIC IDENTITY CARD (e-ID Card)
*PROJECT***

MINISTRY OF ADMINISTRATION AND INTERIOR
DIRECTORATE FOR PERSONS RECORD AND DATABASES' MANAGEMENT

The basic functions of e-ID card.

- National identity document;
- Travel document in European Union;
- Access of the holder (by authentication/electronic signature), to various electronic services, such as :
 - e-Administration ;
 - e-Voting;
 - other electronic services .
- Global interoperability ;
- e-ID card will provide technical support for the development of future applications (financial education , health , social insurance etc.).

Applications which will use the information stored in chip :

- citizen's authentication in different IT systems;
- applications which will allow the holder to use electronic signature (in accordance with applicable law in this area);
- applications that will validate the identity of the holder and authenticity of the e-ID card in their dealings with legal authorities who have responsibilities in this regard;
- applications that will ensure interoperability of e-ID card;
- other applications that will access, according to law, data stored in the chip (storage, encryption, transfer etc.).

Categories of security features included on e-ID Card

- graphics and text visible under UV light
- two-tone watermark
- variable optical elements
- two colour **guilloche** background
- rainbow printing
- anti-scan pattern
- microprinting
- embosaj positive , embossed graphics (tactile feature on card surface)
- filigran multiton(watermark multiton), Invisible fluorescent fibers
- laminated layers

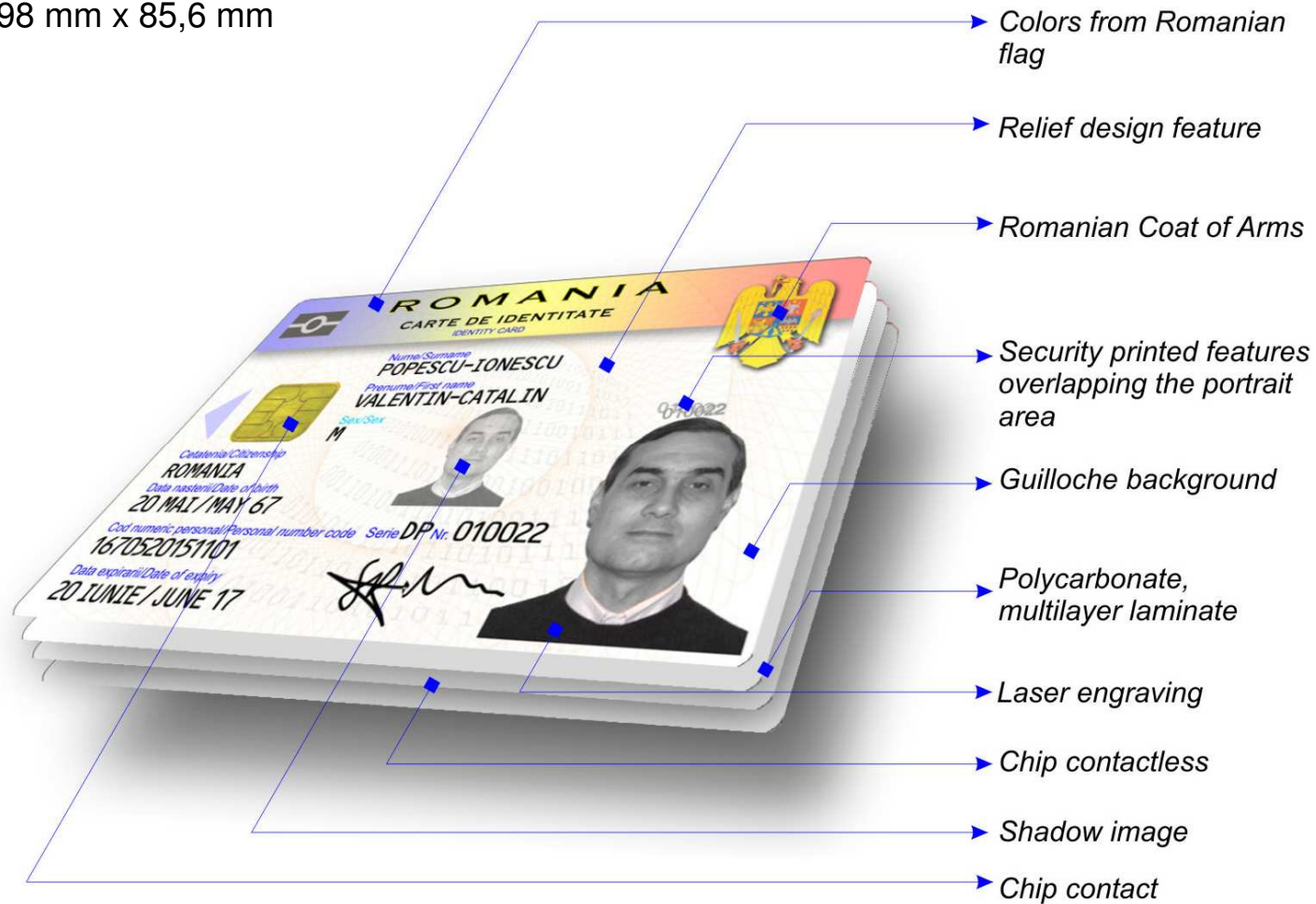
Security features in e-ID Card will prevent :

- *forgery*
- *copy (FALSIFICATION)*
- *counterfeiting*
- *using by unauthorized person*

e-ID Card (draft model)

Front

ID1 size, 53,98 mm x 85,6 mm



Electronic storage medium will contain at least:

- ✚ all existing data on front and back, except the handwritten signature of the holder;
- ✚ parents' name;
- ✚ biometric data stored in the chip: facial image and fingerprints;
- ✚ information needed for authentication of the holder and the document in electronic systems and for electronic signature of the holder;
- ✚ holder's residence;

Other features of e-ID card:

- *100% polycarbonate, multilayer*
- *integrated chip (dual interface chip, contactless and contact - data structure will be in accordance with the ICAO LDS*
- *identification will be personalized by laser engraving*

Interoperability of e-ID card will be provided by:

- CEN/TS 15480 1,2 (European Citizen Card)
- ISO 19794 Biometric Data Interchange Format
Part 2: Finger Minutiae Data
- ISO 24727 1,2,3 (ICC programming interfaces)
- ICAO 9303 (travel documents, size TD1)

In determining the functions of the e-ID card will be considered following standards / recommendations :

Card:

- §ISO/IEC 9798 (device-authentication/Secure messaging);
- §ISO 7810; Identification cards -- Physical characteristics
- §ISO 7811; Identification cards -- Recording technique
- ISO 7816; Identification cards -- Integrated circuit cards
- §ISO/IEC 10373; Identification cards -- Test methods
- EN 742:1993 Intersector ID-1 card location of contacts for cards and devices in Europe;
- §CECC 90000; Harmonized system of quality assessment for electronic components
- §MIL STD-883C; Test Methods and Procedures for Microelectronics
- §Pr CEN/TS 15480 1,2 (European Citizen Card - draft);
- §ICAO 9303 (Machine readable travel documents);

Chip:

- §ISO/IEC 7810 Identification cards -- Physical characteristics
- §ISO 7816; Identification cards -- Integrated circuit cards
- ISO/IEC 14443; Proximity cards
- §Java Card/GP (suporte de Java cards, ISO/IEC 7501-3 (ICAO))
- §CEN / TC 2254;
- §CWA 15264 (e-Authentication);
- §CWA 14890 (eSign);
- §ISO/IEC 19794-2: Finger Minutiae data;
- §ISO/IEC 19794-4,5 : Finger Image data;
- §ISO/IEC 19784 - BioAPI;
- §ISO/IEC 19785 - CBEFF;
- §ISO/IEC 24727 (ICC programming interfaces)
- §EMV std. for credit and debit payment cards based on chip card technology

Biometrics:

- §ISO/IEC/JTC 1 SC 37 Biometrics;
- §ISO/IEC 7816-11 Integrated circuit;
- §ISO/IEC FCD 19794-2 (*fingerprint minutiae data*);
- §ISO/IEC 19784-1 BioAPI;
- §ISO/IEC 19785-1 *Common Biometric Exchange formats (CBEFF) - Part 1: Data Element Specification.*

Certificates and digital

signatures :

- §ISO/IEC 7816-15 Cryptographic information application;
- §CWA 14890 - CEN/ISSS *Workshop on the electronic signature (Area K)*;
- §CWA 15264 (eAuthentication);
- §CWA 14167 (Multipart);