

REPÚBLICA DE MOÇAMBIQUE

Ministério do Interior



GENERAL PRESENTATION



THE NEW BIOMETRIC E-PASSPORT



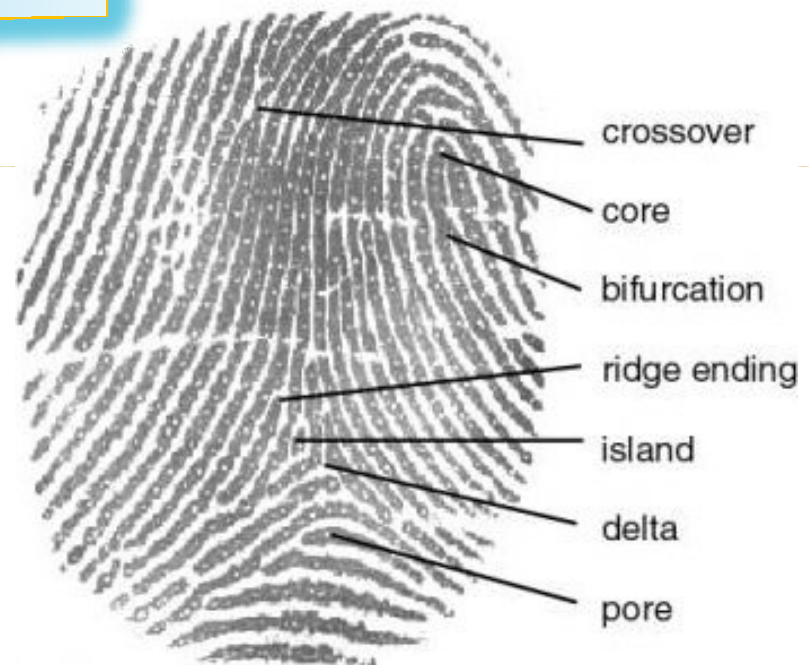
MOZAMBIQUE PASSPORT

- ICAO compliant
- Biometric
- 2D bar code encryption
- Electronic encryption
- 1 to 1 matching
- 1 to n matching

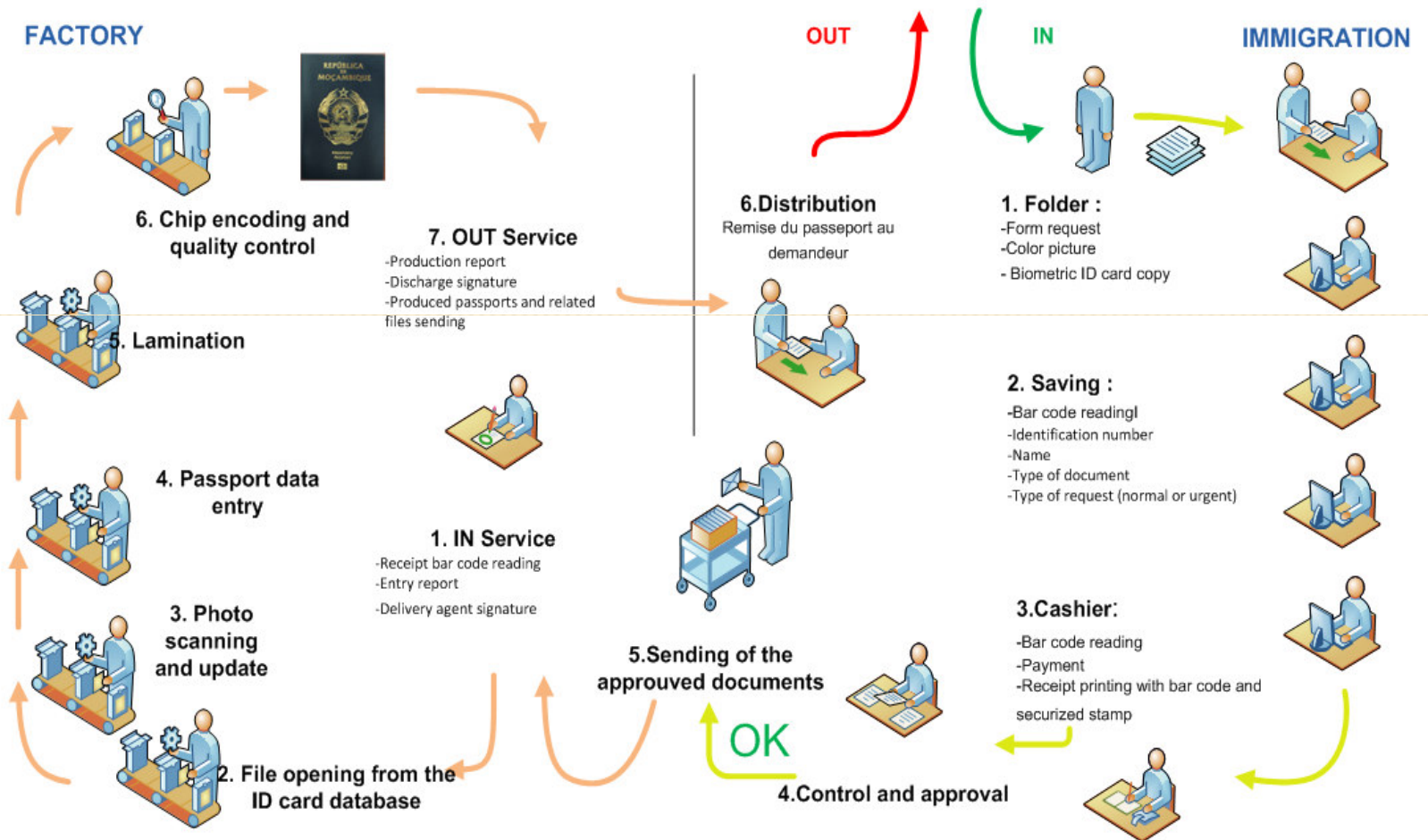


BIOMETRY

Analysis of biological data such as fingerprint using mathematical and statistical method



PASSPORT ENROLMENT AND PRODUCTION



COMPLETE SYSTEM

- Passports made through a complete system based on a central database giving each citizen a National Identification Number
- Possibility to integrate various documents from the same database



MOZAMBIQUE COVERAGE

- Each district is covered for enrolment
- Passport is made through 11 regional centers
- 1 unique factory
- 1 central database

THE PASSPORTS



Passport



Diplomatic Passport

Service Passport



3 LEVELS OF SECURITY

- Visual and tactile reading (OVI, Intaglio,...)
- Machine media reading (Magnifying glass, UV light, filter,...)
- Laboratory testing (Ink, paper,...)

COVER AND PAPER



COVER:

Paper based substrate saturated with latex, heat resistant, thickness 9 points, surface aspect smooth and uniform

The gold printing concerns :

The identification of the passport's country owner

The e-passport logo in accordance with ICAO's recommendations.

The gold printing will be different for each type of passport

PAPER:

End leaves : security paper, 110 grsm, 100% cotton.

This quality of paper will offer an optimized solution for the integration of an electronic inlay between the cover and the end leaves.

Inside pages : multi-tone watermarked paper exclusive to the Mozambican passport, 90 gr,

100 % Bleached Chemical Pulp

invisible blue and yellow security fibres, length 3mm, density 30-40/dm³

Acids and bases chemical protection

THE E-PASSPORT



The electronic chip contains:

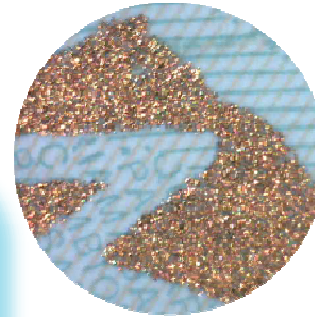
- The picture in Jpeg 2000,
- The data
- The bar code including the digital fingerprint.



E-passport

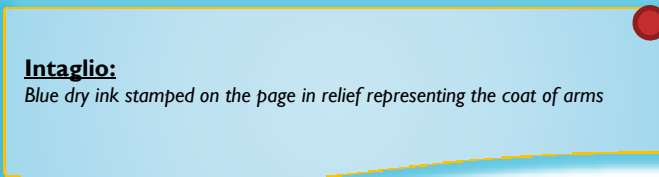


INSIDE PAGE



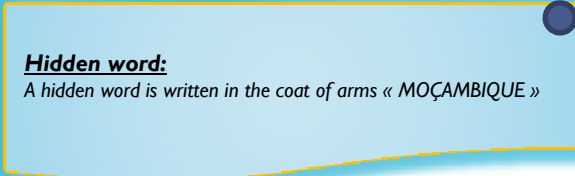
O.V.I.: Optical Variable ink

The color of the ink pass from the red to the green when change the orientation of the page.



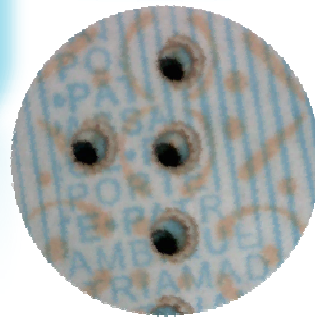
Intaglio:

Blue dry ink stamped on the page in relief representing the coat of arms



Hidden word:

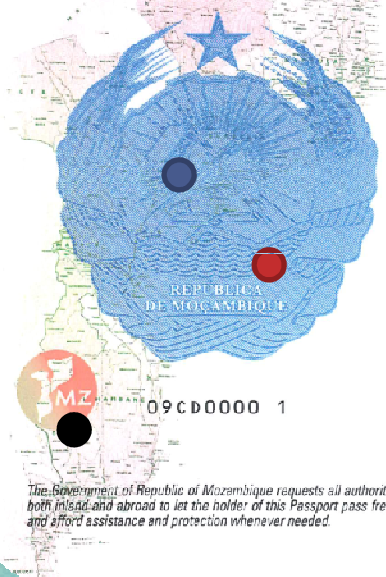
A hidden word is written in the coat of arms « MOÇAMBIQUE »



Laser numbering:

The number of the Passport is perforated though the entire book excluding the covers and bio-data page

O Governo da República de Moçambique pede a todas as autoridades nacionais e estrangeiras que facilitem a livre circulação e concedam ajuda e protecção ao titular deste passaporte em caso de necessidade.



Front interior cover

- Recomendações importantes**
1. Este Passaporte é propriedade da República de Moçambique.
 2. É um documento pessoal e intransmissível.
 3. O titular do Passaporte deve garantir a sua correcta conservação e utilização.
 4. Não deve ser rasurado nem alterado de nenhuma forma.
 5. Os menores de 18 anos só podem viajar mediante autorização dos seus representantes legais.
 6. Em caso de perda, destruição ou furto do Passaporte, o facto e as circunstâncias devem ser comunicados imediatamente às autoridades de Migração ou Polícia locais.
 7. No exterior, a participação deverá ser feita à Representação Diplomática ou Consular da República de Moçambique e à Polícia local mais próxima.
 8. Só poderá ser emitido novo Passaporte depois de uma exhaustiva investigação das causas do desaparecimento ou destruição do anterior.
 9. Fimido o período de validade do Passaporte, o titular deve requerer novo Passaporte.
 10. O titular do passaporte que seja residente permanente no exterior deve registar-se na Representação Diplomática ou Consular da República de Moçambique.
 11. Este Passaporte contém 32 páginas numeradas, com a série e números picotados na parte inferior.

Back interior cover



DATA PAGE MRP



Photo Shadow in B&W

M.R.Z. : Machine Readable Zone

PAGE 2 :

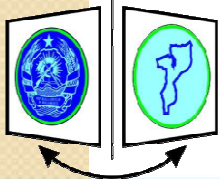
- | | |
|-----------------|--------------------|
| 1- TYPE | 9- DATE OF BIRTH |
| 2- COUNTRY CODE | 10- PLACE OF BIRTH |
| 3- PASSPORT N° | 11- DATE OF ISSUE |
| 4- SURNAME | 12- PLACE OF ISSUE |
| 5- NAME | 13- EXPIRY DATE |
| 6- NATIONALITY | 14- SIGNATURE |
| 7- ID NUMBER | 15- 2D BAR CODE |
| 8- SEX | 16- DIGITAL PHOTO |



SECURITY FEATURES OF THE PAGE 2

HOLOGRAM

Multiple image visible by rotation



Blue fluorescent and photochromic ink
Visible under U.V. light



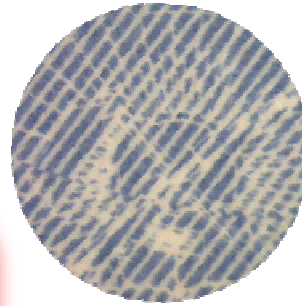
High resolution dynamic watermark

Alexagram with green fluorescent printing

ORC-B zone with matte effect



VISA PAGES

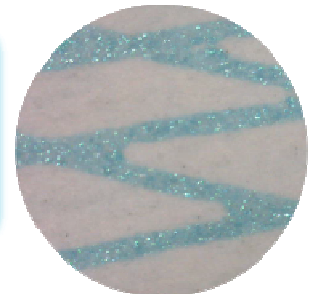


Line structures and hidden page number:

Coat of arm in line structure and Scrambled page number legible with a decoder

Green Iridescent ink:

Iridescent varnish pattern transparent showing a colour change when the document is tilted in standard lightning conditions



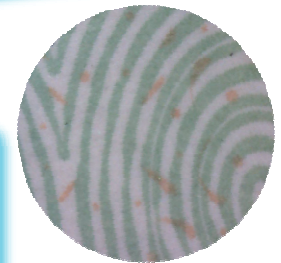
Micro letters:

« PATRIAMADAMOCAMBIQUE », « PASSAPORTE »



« Guilloche » :

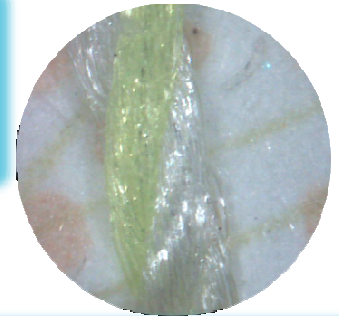
Uniform background with guilloches made of micro letters



VISA PAGES

Stitching:

Lock stitch binding method
White sewing thread made of 3 threads fluorescent : yellow-green-red



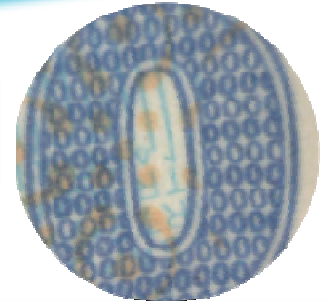
Micro letters:

«república de moçambique», «Passaporto normal»
The name of the animal on the page, here «leão»



Page number:

The number are filled with micro numbers

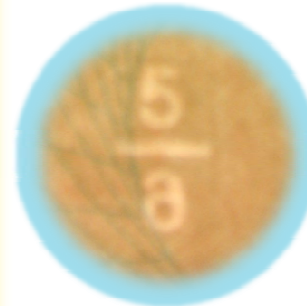
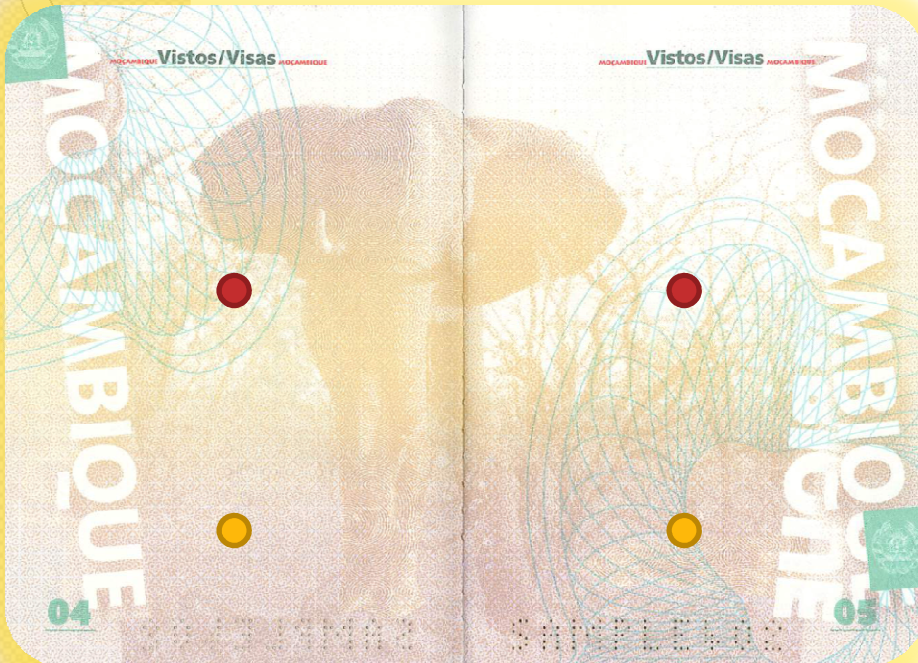


Visible Rainbow printing technique:

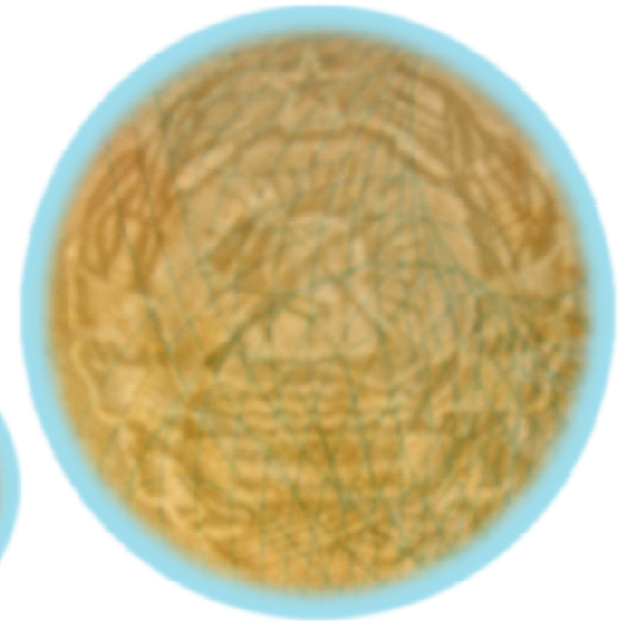
blue-yellow-blue



SECURED WATER MARKED



The page number



The coat of Arms of Mozambique

Secure water marked PCB (Wood pulp)
Secure optically dead paper of a weight of 90gsm.
Chemically reactive
The watermark is present on each page of the passport



U.V. FEATURES, EXAMPLE WITH PAGE 3

Observation Under U.V. light for all the pages except the data page



Personalized U.V. for each page
-The number of the page in red
-An animal of Mozambique
-Rainbow U.V. print purple-blue-purple
U.V. fibers in the paper, blue, green and yellow



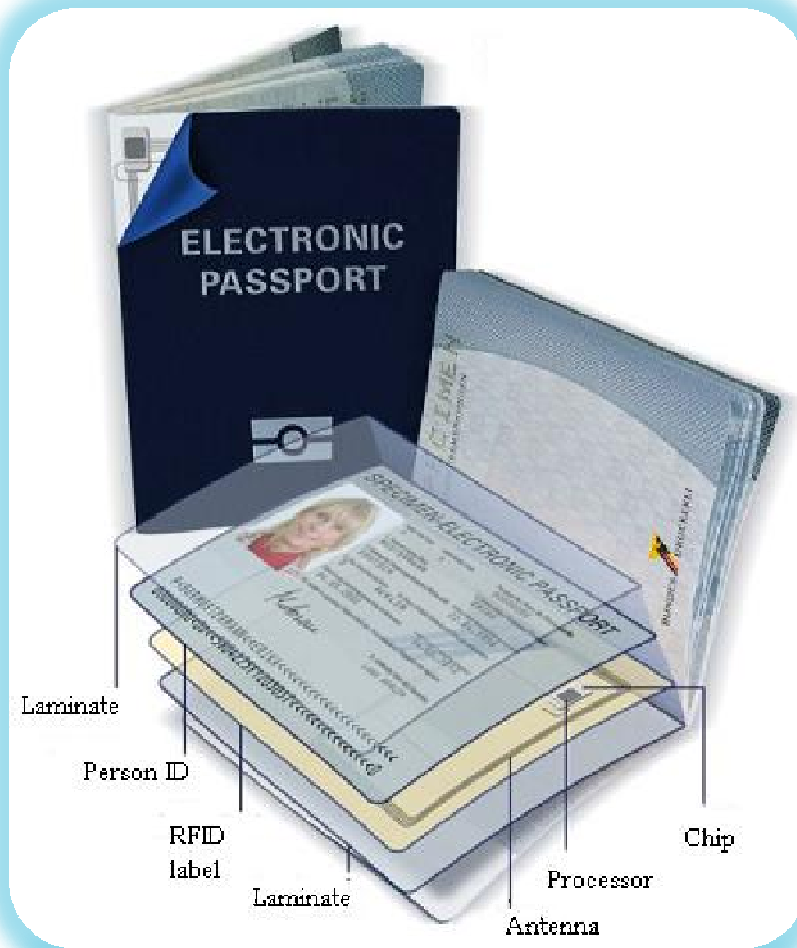
2D BAR CODE



The encrypted 2D bar code contains:

- *The data*
- *The digital fingerprints*

THE ELECTRONIC CHIP



80 ko chip contains:

- The picture in Jpeg 2000
- The data
- The bar code including the digital fingerprint
- Origin certificate

The chip offers a **Basic Access Control**, meaning that no fraudulent reading can be processed.

The chip is activated through the **MRZ** reading using a key such as birthdate

The chip is divided in 16 DG:

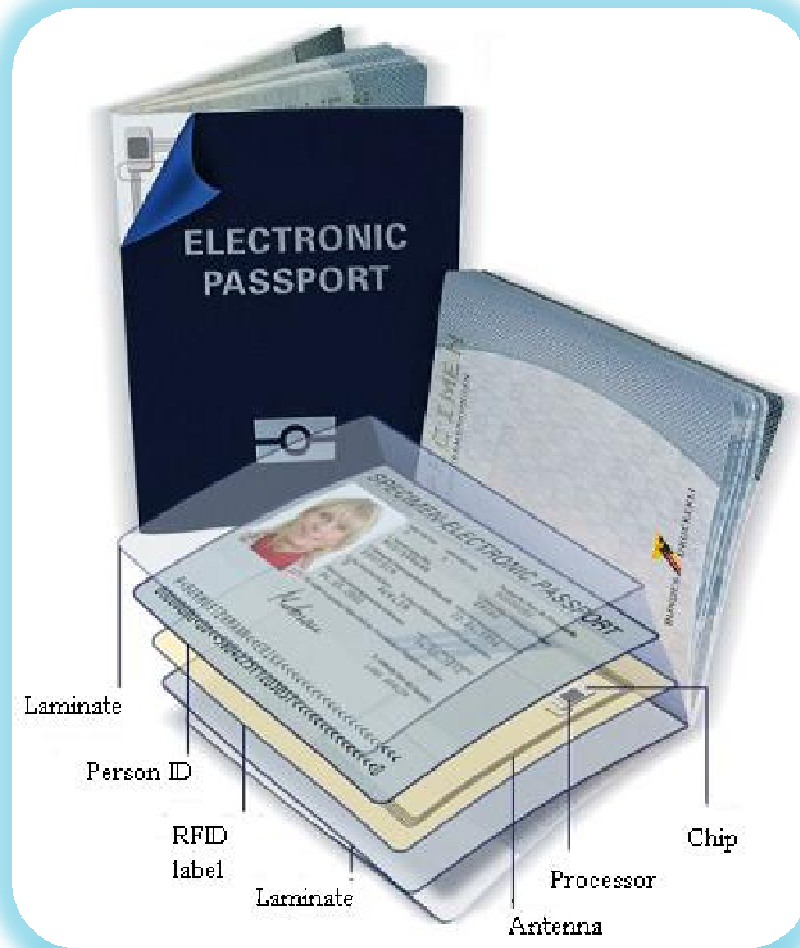
DG1: Data in the MRZ

DG2: Photo in JPEG2000

DG13: Bar code including fingerprint minutiae

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THE ELECTRONIC CHIP



The passport is certified thanks to a Certificate which guarantee the origin of the passport.
The passport is checked with the certificate furnished to the Third Countries.