

Mauritania integrated ePassport Project

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BACKGROUND



A LARGE COUNTRY WITH A STRATEGIC POSITION IN NORTH AFRICA



MAURITANIA

★ 1,030,631 KM²

★ HIGH FOCUS HOMELAND SECURITY

- **★ POPULATION IS AROUND 3.4 M PEOPLE**
 - 800,000 people in Nouakchott
 - Bilingual : Arabic & French



OBJECTIVES AND KEY DRIVERS





TO MODERNISE THE ADMINISTRATION

• Build up a reliable population registry (citizens and residents)



TO ENFORCE SECURITY

- Increase security and reliability at all steps: enrolment, data processing, identity documents, identity control
- Implement connections between population registry, criminal AFIS and border control
- Introduce state-of- the-art tools and services



TO PROVIDE NEW GENERATION DOCUMENTS & SERVICES

- Protect citizen's rights
- Set up a Biometric passport
- Set up Smart cards (ID card, Resident card, Vehicle Registration card)
- Introduce new services



ENROLMENT in REGISTRY

ONE NATIONAL IDENTIFICATION NUMBER IN ALL DATABASES





A COMPLETE ENROLMENT PROCESS





OBJECTIVES

- To enrol the entire population aged > 15 (seniors first)
- Issuance of one national identification number for all data bases: NIN
- NO-HIT checking at enrolment and real time NIN issuance





DATA BASE

- 10 fingerprints
- Portrait
- Signature
- Scanned supporting paper documents



OUTPUT

- NO-HIT checking at enrolment
- real time NIN issuance
- Reliable data base
- Creation of checked and approved data set for ID documents

FULLY INTEGRATED SYSTEM







- Population
- Visa: Enrolment at consulates or at border
- Police







- Civil AFIS (fingerprints, facial recognition)
- Criminal AFIS (with print and latent processing)
- Card Management System
- Visa
- Document request (smart cards and passports)
- Civil Registry and Electoral Registry
- Document personalization and issuance
- Multi-application biometric passport &smart card
- Public Key Infrastructures
- Visa: Visa issuance and Visitor Registry
- Equipment for document verification





CIVIL REGISTRY

 Civil ID management depending on population database (birth, wedding, divorce, death)



POPULATION REGISTRY MANAGEMENT

- Passport PKI & Citizen PKI (e-Gov)
- On-line enrolment software with real time NUN (NNI) issuance if workflow OK
- Personalization software (smart cards and passports)
- Passport printing and personalization units
- Card printing and personalization units



ELECTORAL REGISTRY MANAGEMENT



1 Biometric acquisition







* portrait and 2 index acquisition

Remote acquisition at consulate level







- * biometric visa sticker (minutiae in 2D barcode)
- * connection to the central registry for 1:N search



4 Visitor verification at the border









- * biometric visa 1:1 verification at the border
- * interface with civil registry: 1:N search in visitor registry at citizen enrolment

Local visitor registries with 1: N AFIS at the border







- * enrolment of visitors without biometric visa
- * linked to central visitor registry for synchronization



Passport development





- Agree on the technical specifications
- Make a new graphical design
- Get the design approved
- Make a new security design
- Get the security design approved
- Order production material
- Production of test passports
- Approval of test passports
- Production of live booklets

First customer meeting

- Agree the technical specs with the customer
- Discuss ideas/wishes from the customer in relation to the new documents
- Discuss ideas from the designer in relation to the new documents
- Texts that need to be printed in the new documents
- Planning

Agree on technical specifications

- Printing techniques and colors on
 - inside cover page
 - data page
 - visa pages
- Use of OVI and UV inks
- Use of intaglio/silk screen printing
- Paper specs (visa pages and inside cover page)
- Use of tactile relief, MLI and or 3D photo

Design meetings with the customer

- Several meetings
 - > Approval of basic design
 - > Approval of security design

Mauritania: Change in design at approval session security design

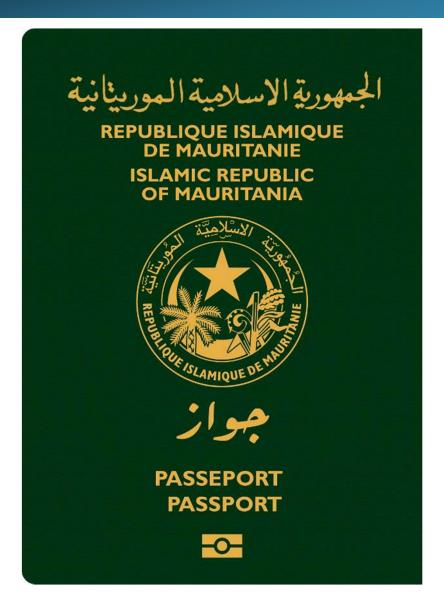
- RFC
 - > Impact on design
 - ➤ Impact on timeline → new basic design for component

What we need before we can start preparing the production:

Approved security design, including:

- Printing on Inside cover, data page and visa pages
- Gold foil printing
- Relief on outside cover page
- Relief on data page (incl. MLI/CLI or 3D photo ID)
- Watermark
- Security strip in paper
- Sewing thread
- Kinegram[®]
- All texts

PASSPORT COVER



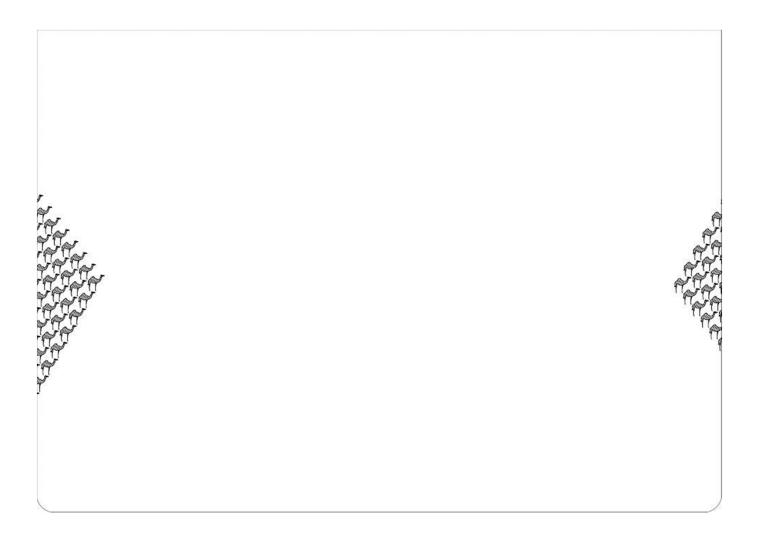
INSIDE COVER PAGE AND TITLE PAGE



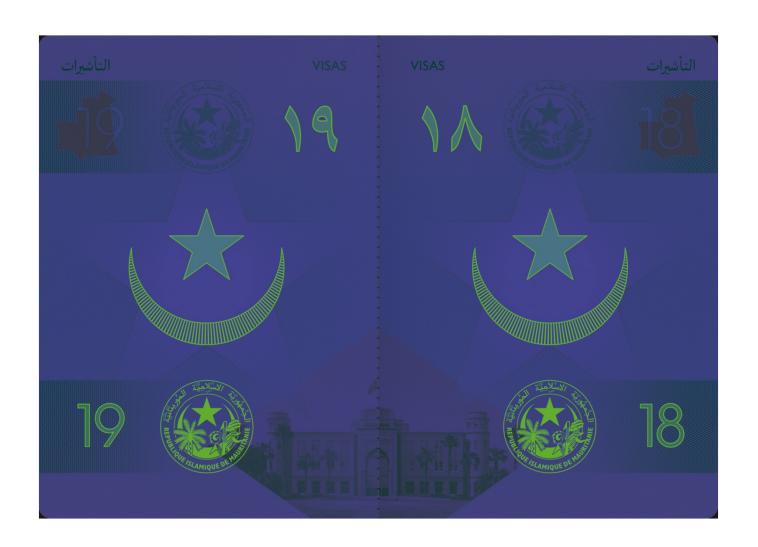
POLYCARBONATE DATA PAGE: UV



POLYCARBONATE DATA PAGE: TACTILE RELIEF



VISA PAGES: UV



KEY APPLICATION 3: IDENTITY DOCUMENTS ISSUANCE



Biometric Passeport

DATAPAGE



- Body in polycarbonate
- Bilingual Arabic-Latin
- Chip with contacless interface and 80 Kb EEPROM
- Extended Access Control (´ICAO´ EAC)



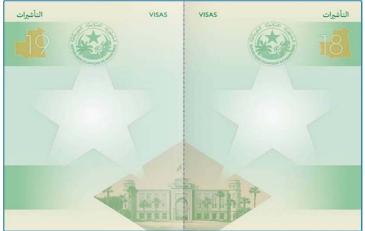
- Security features through pre-personalization
- Security features through personalization



BOOKLET

- Inner covers with security features
- Visa pages with security features







Project summary





MAURITANIA INTEGRATED SOLUTION & EPASSPORT





CREATION OF A RELIABLE POPULATION REGISTRY



IMPROVING DATA SYNCHRONIZATION AT GOVERNMENTAL LEVEL



PROVIDING AUTHORITIES WITH SECURED ACCESS TO DATA



FACILITATE IMPLEMENTATION OF SECURITY SYSTEMS



BETTER DETECTION OF FRAUDULENT ATTEMPTS



PROTECTION OF CITIZEN'S RIGHTS



ICAO COMPLIANT ePASSPORT and other ID documents



THANK YOU

