Guinea-Bissau

Delivering Trusted Services with Secure National IDs

Wayne Fletcher, Government Solutions Marketing
## Challenges

- **Surge in document falsification and counterfeiting** — existing paper-based system had insufficient protection against attacks

- **National ID had lost credibility** — as a viable credential and the government was under growing pressure to re-build trust, both internally and internationally

- **Lack of civil registration database** — to identify the country's citizens

- **Starting from the ground up** — registering, producing and issuing one million National ID cards in five years

## Requirements

- **A Secure ID document** that is resistant to simulation ("counterfeiting"), alteration ("tamper"), and easy to verify with confidence

- **Modernize the card issuance process** adding comprehensive audit trails to reduce internal fraud

- **Integrate the latest identification technologies** for application development, systems & network design, database design and optimisation, biometrics and encryption

- **Reestablish credibility** with highly secure identity to prevent election fraud, fictitious employment, salary remuneration fraud, and illegal immigration
REPUBLIC OF GUINEA-BISSAU ENHANCES ID CARD SECURITY

Application form for enrollment
Document evidence
Photo capture
Two index fingerprints

Collect ID cards in person
Final one-to-one (1:1) authentication

Biometric one-to-many (1:n) check

SEMLEX GROUP
PVC
Rainbow printing
Two colour guilloche
OVI green/pink
Microprint
UV printing

High quality, full-colour photo

Minutia of the left & right index finger embedded within a 2D PDF 417 bar code

Laminate to both sides of the card

Datacard DuraGard Optigram laminate
- Embedded custom hologram of the Guinea-Bissau coat of arms
- Customised Guilloche pattern
- Secure microtext
THE NEXT STEP IN DELIVERING TRUSTED SERVICES

PHYSICAL SECURITY

SUBSTRATE
- Paper
- PVC
- Polycarbonate
- Smartcard

PERSONALISATION
- Inkjet
- Dye
- Sublimation
- Retransfer
- Laser

SECURITY FEATURES
- Laminates
- Hologram
- STOP
- Laser

TRUSTED IDENTITY

CARRIER
We innovate across platform technologies

HSM
USB
Mobile
Smartcard

CREDPENTAL
We create the personalized credential

X509
ICAO
BAC/EAC
ISO7816
PIV

AUTHENTICITY
We protect and seal for integrity

Encryption
Hash
Keys
PKI

DIGITAL SECURITY

FORM FACTOR

IDENTITY
CERTIFICATE

IDENTITY
KEY

DIGITAL SIGNATURE

DOCUMENT VALIDATION

SECURE TRANSACTIONS
We enable access to services and resources
ENTRUST DATACARD CITIZEN SOLUTIONS

Trusted Identities
Secure Transactions

- eGOV
- PASSPORT
- NATIONAL ID
- BENEFITS PROGRAMS
- AUTHENTICATION VALIDATION
- DOCUMENT SECURITY TECHNOLOGIES
- CREDENTIAL ISSUANCE
- CREDENTIAL MANAGEMENT
- DRIVER’S LICENSE

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## TRUSTED SOLUTIONS WORLDWIDE

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- **400+ Government Identity Programs**
- **30K+ passports issued daily**
- **18 of top 20 e-gov programs**
- **10M credentials and 5M smart cards issued daily**
Thank You

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