Case Study

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Empowering Lives

Biometric based Passport Issuance System for Immigration Departments

Department of Immigration, Tanzania Increases Security and Eliminates Fraud through Biometric Verification and Identification

Biometric based Passport Issuance System for Immigration Departments

Customer Profile

Ministry of Home Affairs of the United Republic of Tanzania based in Dar es Salaam comprises of six departments to provide, Police Force, Prisons, Probation & Community, Immigration, Refugee and Fire & Rescue services. The main responsibilities of the Department of Immigration Services (DOI) are to ensure that National security is highly observed & maintained; facilitate entry, exit & stay of all immigrants/emigrants with a view of promoting investments & tourism for National Socio-Economic Development; facilitate exit & entry of citizens travelling abroad for both private & public affairs; conduct patrols & apprehend the undesirables for expulsing or other possible legal measure and issue citizenship & other immigration related documents to immigrants such as investors, tourists, experts, missionaries, students & others.

Business Situation

Department of Immigration (DOI) Services was earlier using a passport printing system which was unstable, insecure and vulnerable for counterfeit. The procedure followed to get a single passport was also very time consuming and was also delayed due to bureaucracy and red tape. The average time taken for getting one passport completed & ready for use was around one month which became the major drawback for the DOI to provide better services to the public and ensure that National security is maintained properly. In order to overcome this issue, DOI wanted to upgrade their existing passport issuance system to a secured & stable passport issuance system. After evaluating Techno Brain credentials and propositions, DOI awarded this prestigious contract to Techno Brain to provide secured passport issuance system.

Solution

Techno Brain implemented its biometric based Passport Issuance Solution built on automatic fingerprint identification (AFIS) / IRIS / face recognition technology. Techno Brain provided DOI with a single-step digital passport & identity cards printing & issuance system and also with delivery, maintenance & support services.

The passport printing process begins with automatic transfer of textual application data from the existing system to the new system; automated photo, fingerprint & signature capturing and application form handling & automated data entry. Once the members' data is entered into the system, pigment transfer printing is done on thin & optically active & protective holographic film along with ultraviolet printing of photograph & text at personalization stage. Applying single-step printing process with the help of One-Step MP-300 Passport Printers made the production of passports very easy, fast & at the same time secured. Finally a stringent data validation & verification process is performed.

Customer:
Ministry of Home Affairs of the United Republic of Tanzania based in Dar es Salaam comprises of six departments to provide, Police Force, Prisons, Probation and Community, Immigration, Refugee and Fire and Rescue services.

Industry:
Public Sector – Ministry of Home Affairs

Business Situation:
DOI's earlier passport printing system was unstable, insecure and vulnerable to counterfeiting. Citizens faced long delays in receiving passports due to DOI's shortcomings with its existing system.

Solution:
Techno Brain implemented its biometric based Passport Issuance Solution built on automatic fingerprint identification (AFIS) / IRIS / face recognition technology.

Benefits:
- Enabled stable & centralized passport issuing and production center
- Eliminated duplicate passport issuance & forgery of national passports
- Reduced average time taken for passport production from 30 days to 2-3 days

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Major features of Passport Issuance System:

- Automated photo, fingerprint & signature capturing and application form handling & automated data entry

- Single-step printing process with One-Step MP-300 Passport Printers

- Stringent data validation & verification process

Technologies
Automatic fingerprint identification (AFIS) / IRIS / face recognition technology

Benefits
Key benefits of Passport Issuance System:

- Techno Brain's solution eliminated fraud through the enhanced security mechanism for passport issuance

- The average time taken for passport production & issuance has come down from 60-90 days to just 7 days, thereby improving the overall efficiency of the system

- The machine readable passports issued are compatible with passport requirements of International Civil Aviation Organization (ICAO) & International Organization for Standardization (ISO) standards

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