

Case Study



Biometric Registration and Verification System for Regulatory Authorities

Identification System Improves
Registration Process for
Regulatory Authority



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Customer Profile

The Tobacco Control Commission (TCC) is a government statutory body corporate established in 1938 under the Control of Tobacco Auction Floors Act Chapter 65:03 and governed by the Tobacco Act Chapter 65:02.

The main objective of TCC is to manage and regulate production and marketing systems of tobacco in Malawi, collate and disseminate information relating to tobacco and promote growth of tobacco industry while taking cognizance of environmental, socio-economic and health issues of production and consumption. To promote employee welfare through equitable employment, gender balance, career development and job satisfaction.

Business Situation

TCC regulates the production, manufacture & marketing of tobacco; advises the government on the sale & export of tobacco; promotes & expand the sale of tobacco; carries out market research, collate statistics, distribute market studies & disseminate information relating to tobacco; controls & regulates the sale of tobacco; register & license tobacco growers and sellers and define tobacco grades & classes for the purposes of selling & buying.

TCC was facing a number of issues in their day to day activities due to a decentralized system in place and lacked a central data repository. TCC was not able to keep a track of the farmers registered. TCC wished to have a comprehensive system in place which would enable TCC to perform farmer registration and identification, monitor the selling pattern of the tobacco growers, eliminate multiple and bogus club membership, provide real time information across the country, capture the exact location of the tobacco grower and generate various MIS reports on the fly.

Solution

Techno Brain implemented a biometric based Grower Registration System (Bio-Reg GRS) at TCC. The solution captured fingerprints & photographs of all the tobacco growers and eliminated the issue of bogus entries, multiple club memberships through a de-duplication process. The solution enabled TCC to capture and share real time information about their farmers, and their selling patterns. Bio-Reg GRS system also captured the GPS co-ordinates through which TCC could track and monitor the actual location of the estates thus eliminating any discrepancy between information captured about the actual location and the location captured in the system.

Techno Brain also provided TCC a centralized web based application accessible anywhere and group based user access for tracking & auditing every action. The web based application ensured the high availability of the system to various users, thus reducing the overall application downtime. Hand held device (iMFAST) was provided to do registration/renewals at the field, report generation for current and previous season by anyone at any location and all papers related to the land scanned once & maintained in the database for all future references.

Customer:

Tobacco Control Commission (TCC) regulates production and marketing systems of tobacco in Malawi, collate and disseminate information relating to tobacco and promote growth of tobacco.

Industry:

Public

Business Situation:

TCC was looking for a Grower registration system for managing the tobacco growers in the country.

Solution:

TCC implemented Techno Brain's biometric based Grower Registration System (Bio-Reg GRS) for capturing the information of their tobacco growers.

Benefits:

- Reduces administrative time and cost as grower's information is centralized and automatically organized without any manual intervention required by staff
- Provides clean, instant, accurate and consistent data results at all times
- All transactions are reported online and in real-time

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Major features of the Bio Reg GRS are:

- Registration of Users/Offices, Producing licenses as per specified format, Disbursing Smart Cards and Capturing and storing biometric features & GPS coordinates of estates
- Records management, Recording offences, Download information into Mobile Units, Transfer of registration information file straight to AHL, Provision to invalidate registration.
- Audit logging & reporting tool, Storage of electronic copies of grower documents and Change of ownership.

Technologies

JBoss running on Windows 2003 Server, jdk, MS SQL Server 2005, Java, SQL, Java Script, HTML, CSS, XML, AJAX, C/C++, COM

Benifits

Key benefits of the Bio-Reg GRS system are:

- **Efficient and Faster Grower Registration:** The solution provides an efficient biometric based centralized registration for growers across Malawi.
- **Reduced Cost and Time:** Dramatically reduces administrative time and cost as grower's information is centralized and automatically organized without any manual intervention required by staff.
- **Real time information:** Provides clean, instant, accurate and consistent data results at all times - all transactions are reported online and in real-time.
- **Eliminates Fraud:** The solution eliminates the risk of duplicate registrations and hence streamlines the process of selling and buying as every grower's activities can be traced.
- **Better Integration:** Seamlessly integrates with other best of breed technologies such as the cashless environment, access control, database management, smart copiers, SMS, centralized access control and reports extraction & analysis.