

BUSINESS CASE

GOVERNMENT: PUBLIC SAFETY AND LAW ENFORCEMENT

EFFECTIVE IDENTITY RESOLUTION STRATEGIES AS A MEANS TO IMPROVE INTELLIGENCE, ENHANCE COLLABORATION, AND INCREASE PRODUCTIVITY

merkatum
Biometric ID Management



BUSINESS CASE: PUBLIC SAFETY

This testimonial presents the challenge faced by the Austin Police Department (APD), the solution to overcome it, and the benefits resulting from the deployment of the solution.

CHALLENGES

- Database Cleansing: The challenge faced by Austin Police Department was to identify booking or administrative errors caused by misfiling of mug-shot records, positively identify the mug-shot with correct name, and associate the mug-shot with the correct record.
- Question of Identity (QID) of suspects: Matching suspect's identification documents and fingerprints with a centralized database, Department of Public Safety, Federal Bureau of Investigation to resolve suspect's identity.
- Matching composite renderings of suspects created by sketch artists to a centralized database to identify individuals.

SOLUTION

When the suspects were arrested and escorted to the county jail, due to various reasons the mug shots and the arrest records were found to mismatch. The police department then entered into a contract with Merkatum and deployed its identity recognition system using facial and biographic algorithms and denominated it " Quick ID" . The Quick ID system was used to run the photos against the facial recognition system and biometrically and biographically compare that mug shot and its metadata to the entire mug-shot database. This helped them to positively identify the mug-shot with the correct name and associate it with the correct record. In addition, there were numerous cases where booking or administrative errors had caused misfiling of mug-shot records. Running a facial recognition and biographic verification system provided them with valid identity resolution and database de-duplication results. The project was successfully implemented within the allocated time and budget.

PROJECT BENEFITS

- (1) High-accuracy: When the facial matches were validated by the AFIS system to cross verify if the identifications were accurate, operations pointed at no false results between fingerprint & facial processes.
- (2) Time-efficiency of the Quick ID system: When a comparison test was run between the AFIS system and the Quick ID system, it was found that Quick ID delivered results faster than the AFIS system.
- (3) Officer Productivity: Field operations estimates that booking times can be reduced by 70% when using the Quick ID system.

THE SOLUTION: EMFIVA F/FRS ®

Merkatum's emfiva F/FRS® is a robust, modular, scalable, and flexible biometric and biographic resolution and identity management platform, " out-of-a-box" , that utilizes multi-biometric technology (fingerprint, facial, iris) and textual algorithms (name recognition, phonetic, keystroke, etc.) as a means to physiologically and biographically determining the identity of an individual or data duplicity among records sets. Furthermore, it permits the end-user to enable, manage, and/or control the activities of such individuals as they intend to interact with other people, physical assets and/or information systems.

The emfiva F/FRS® appliance is plug-and-play, simple to use and affordable, thus reducing technological complexities and heightened project implementation costs. It can be configured for different vertical segments including: civil identification, law enforcement and justice, healthcare, banking, and benefits management, among others.

Key benefits associated to the proper implementation of an emfiva F/FRS® -based solution include: risk mitigation, security control, fraud detection and prevention, operational costs reduction, and labor productivity increases.

ABOUT MERKATUM CORPORATION

Merkatum Corporation (www.merkatum.com) develops biometric and biographic identity resolution systems that effectively determine, interpret, and manage the identity of individuals in order to deter identity fraud and safety/security risks. Merkatum's core product, its patent-pending " emfiva F/FRS®" biometric resolution and identity management system, searches and compares the identity of individuals in databases and on the field by utilizing fingerprint, facial, and/or biographic recognition algorithms leveraged by an open, scalable, and business process driven, service-oriented architecture (SOA).

The Company's objective is to develop and market modular, " out-of-the-box" systems that are easy to install-deploy-maintain at a lower total cost of ownership by pre-configuring and deploying emfiva F/FRS® servers for determined vertical market segments. Merkatum also develops and markets identity enrollment kits ("Eagle Kit") comprised of integrated biometric capture devices (fingerprint, facial, iris, and signature) and data encoders (barcode, document scanners) contained in ruggedized briefcases for military, public safety, and civil identification applications.

Merkatum has successfully deployed its product for relevant customers and high-profiled projects. Merkatum's target customers include government agencies, healthcare providers, financial institutions, and enterprises worldwide.