

BUSINESS CASE

GOVERNMENT: CIVIL IDENTIFICATION (DRIVER LICENSES)

**EFFECTIVE IDENTITY RESOLUTION STRATEGIES AS A MEANS TO MAXIMIZE
AGENCY RESOURCES AND INSURE PROGRAM SUCCESS**

merkatum
Biometric ID Management



BUSINESS CASE: CIVIL IDENTIFICATION

This testimonial presents the challenge faced by the Florida Department of Highway Safety & Motor Vehicles (DHSMV), the solution to overcome it, and the benefits that resulted from the deployment of the solution.

CHALLENGES

The challenges faced by the Florida Department of Highway Safety & Motor Vehicles was to de-duplicate its commercial driver license database at an identity level to pinpoint identity fraud, database administration errors, and to generate lines of investigation for law enforcement agencies to use in their fight against crime. The agency required to test the performance of best-of-breed facial recognition technology and identity management systems.

SOLUTION

The Florida Department of Highway Safety & Motor Vehicles entered into a contract with Merkatum for piloting and fully-deploying a very large facial recognition system. The project ran for eight months beginning February 2006. During this period, 52.9 million facial images were enrolled by Merkatum into a single database, for comparison and recognition of potential multiple identities of individuals. The data comparison was cross-referenced between the State's Commercial Driver License images and metadata database of 735,000+ records and the total driver licenses image database consisting of approximately 52.9 million images. Merkatum used several proprietary biographic and COTS biometric algorithms within their emfiva F/FRS® architecture to perform the task. The data cleansing process (also known as "scrubbing" or "de-duplication") uncovered thousands of "bio-aliases" cases or clusters of identity records of individuals with very similar (or identical) physiologic traits (faces) with very different names and/or other biographic data, suggesting identity fraud or administrative errors. Project delivered by Merkatum on time and within budget and is currently the largest facial identification system ever deployed in the world.

PROJECT BENEFITS

- (1) Thousands of records were identified as potentially fraud-related.
- (2) Generated hundreds of lines of investigation for law enforcement.
- (3) Thousands of records identified and corrected with administrative or typographical errors. The database was cleansed & de-duplicated.
- (4) Facial recognition technology successfully validated by DHSMV.
- (5) Intangible ROI: a confidential number of crime cases were solved, employee productivity increased, and system resources optimized.

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.