

Civil Identification and Law Enforcement

Combating terrorism, crimes, illegal migration and trafficking, global identity fraud – all can be successfully handled by biometric identification solutions designed for civil and law enforcement purposes

The key requirement imposed on civil identification and law enforcement systems is the ability to reliably identify various individuals or groups of people within middle and large scaled applications

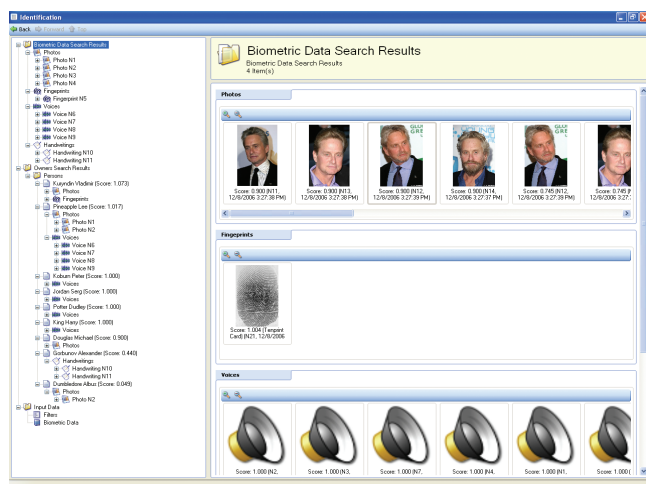
BioLink AMIS (Automated Multi-biometric Information System) is a multi-biometric solution performing real-time identification of humans. BioLink AMIS has a modular and flexible architecture that allows easy integration of innovative biometric technologies into large-scale identification projects.

BioLink AMIS Functions

- Enrollment, modification and removal of AMIS database and search subsystem records.
- Database search for biometric identifiers. The search requests may contain filters for various biometric identifiers and additional demographic information.
- Monitoring and auditing. These modes allow tracking the technical condition of the entire system and analyze the requests processed.

BioLink AMIS Features

BioLink AMIS is easily customizable, fault-tolerant, and price-affordable, implies low development and implementation costs and requires little or no experience in biometrics. It is also advantageous for its robust performance and supreme speed (hundreds of thousands of matches per second).



Multi-biometrics: fingerprint, voice, handwriting and face



BioLink AMIS basic features

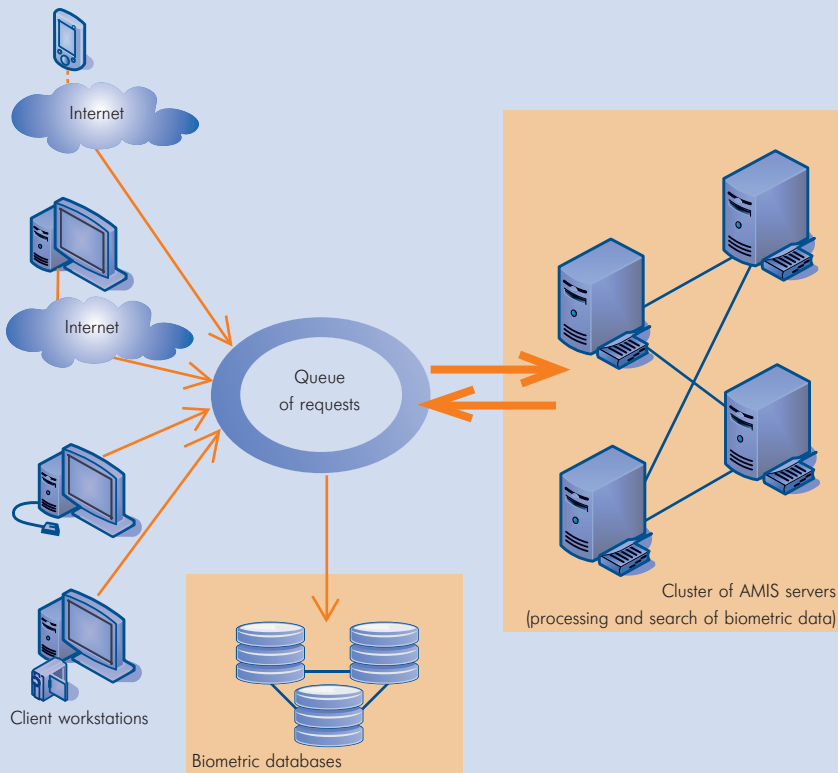
- Support for multi-biometrics: fingerprint, voice, handwriting and face
- One-to-one, one-to-many identification modes
- Quick database search by using various biometrics
- Ability to convert any input data such as paper, single and tenprint optical scanners, and ink it into the required format
- Compliance with the international standards, such as BioAPI, ISO and ICAO

BioLink AMIS is best suited for

- Public institutions involved in civil identification projects, such as e-passports, e-ID cards, multi-purpose ID cards, visas and other travel documents, voting systems, driver licenses, social security cards, access to social and healthcare services, etc.
- Public and military institutions and private organizations requiring strong and fast identification of employees and the implementation of enhanced security system.
- Law enforcement applications and police applications tracking criminal activities.
- Commercial applications: e-purse, banking systems, transportation etc.

Mobile terminal

AMIS Architecture



BioLink
Advanced Biometric Solutions



BIO-METRICA LLC

AMIS

People's Technology



Project References

BioLink AMIS has been successfully implemented in the following projects:

Voter Registration

The Nigerian government (Western Africa) selected BioLink to implement a biometric-based voter registration system to ensure the unique enrollment of an estimated 60 million voters. The solution was made up of 37 BioLink Authenticon Cluster Array servers located in each Nigerian State processing center. Two thumbprints and related demographic information were collected from each individual using ink on paper and were high-speed scanned in a batch operation.

City Department of Human Services

The City of San Francisco installed a web-based homeless person identification system using BioLink's AMIS system. The system is intended to prevent fraudulent use of Social Service benefits via multiple identities and identity substitution. The system operates at 40,000 matches per second, is accessed from 50 workstations across the city, and involves 150,000 of citizens entitled for benefits.

Passport System

The government of Nigeria has resolved to create the Nigerian Electronic Passport and Autogate System, designed to issue biometric-based travel passports according to new standards for Nigerian citizens. The initial system design included 180 BioLink Authenticon Cluster Array Servers in a centralized, triple redundant architecture supporting 10,000 enrollments per day with an initial database size over 3 million citizens. Additional expansion of the system, by adding more ACA Server Blades, supports up to a planned total of 6 million citizens.

The project was performed in consortium with Iris Corporation Berhad, Malaysia, the leading company in e-passport and e-id document area.



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AMIS Components

- Transaction Manager (client application for transaction management)
- Database Manager (client application for database management – insertion and update of records, etc.)
- Configuration Manager (client application for system administration and parameters tuning, biometric features processing set up, and license management, etc)
- Queue Server (server application performing client applications message queue management)
- Application Server (server application to process all client applications requests)