



ABIS® System

Multi-Biometric Identity Management for Civilian Agencies

Eliminate Identity Fraud and Duplicates

Passports and Visas



Driver's Licenses



Benefit Entitlement Cards



Employee IDs



Voter Registrations



Mug Shot Systems

Detect Wanted Persons in Watchlists

- Population Registration
- Visa Application Screening
- Border Crossing Points
- Counter-Terrorism
- Criminal Investigations

ABIS® System

Implementing large identification programs can be complicated and quite daunting. Many challenges exist such as selecting a premier technology partner and a solution with the flexibility to scale based on future growth requirements. Only the ABIS® System combines top-rated multi-modal algorithms to ensure one identity per person, regardless of the biometric required – fingerprint, face or iris. Agencies issuing secure identity documentation for high volume programs such as passports, driver's licenses or national ID cards can select hardware and customize their workflows to meet their specific needs and protect their investment over time.

Select the Top-Rated Multi-Biometric Algorithms

Fingerprint

BioEngine® Fingerprint Matching

The latest generation of BioEngine fingerprint technology incorporates new and more accurate high-speed filters for fingerprint identification in increasingly larger populations. Tests conducted by the U.S. government place BioEngine among the leading fingerprint technologies – the result of more than 10 years of continued improvement in fingerprint matching technique.

Face

Facelt® Face Recognition

The eighth generation of Facelt technology improves on already exceptional matching ability by combining top-performing face recognition algorithms from L-1's Secure Credentialing and Biometrics Solutions divisions. The result is a multi-pass security solution that significantly improves search and hit rates to become the top performer in the industry. Each layer adds to the overall results of identifying and verifying individuals – even between twins.

Iris

Daugman 2008 Iris Recognition

Iris matching technology delivers what some consider to be the most accurate biometric for secure identification. Coupled with great accuracy, iris matching operates at high speed making it ideal for duplicate detection in very large populations. The Daugman technology has continually demonstrated top tier performance

in government tests. Daugman '08, the most recent algorithm, is capable of performing optimally in any environmental condition providing unparalleled power and flexibility to iris applications such as iris on the move, iris at a distance and iris recognition from mobile devices.

Multimodal Operation

Multimodal solutions deliver unparalleled accuracy and assurance of 100% population coverage through multi-biometric operations. Available options include parallel searches of face, fingerprint and/or iris galleries, with automatic fusion of face, fingerprint and iris searches into a single result. Multimodal searches offer several potential benefits including higher accuracy, improved "lights out" automation and more economical hardware configurations.

Hybrid Biometrics

Serial 'face-before-fingerprint' hybrid biometric operations search faces and then fingerprints in a single search operation in a single matcher server, producing a single search result. Completely unique to L-1, hybrid biometric searches offer the security of fingerprint biometric identification in a more economical hardware configuration.

Quality Control

The ABIS® System has built-in image quality controls for fingerprint, face and iris biometrics to reduce failure-to-enroll rates, ensure better biometric performance and meet ISO standards for biometric image dimensions and quality.

Proven Biometric Performance

According to the test results reported in the recent, 2006 Face Recognition Vendor Test (FRVT) and Iris Challenge Evaluation (ICE) conducted by the National Institute of Standards and Technology (NIST), L-1 Identity Solutions was the best all-around performer. L-1 face recognition algorithms performed best in most of the tests. L-1 iris algorithm submissions were two of the top three performers and demonstrated unprecedented and unparalleled matching speed by completing tests in 6 hours – comparable to 300 hours by other participants' algorithms! In fingerprint SDK testing conducted by NIST, L-1's current fingerprint technology placed among the top tier of competing algorithms.

Increase Your Options

Easy Implementation

The ABIS® System provides all the necessary components to process biometric identities, from identity business workflow management to historical identity record-keeping to biometric identity identification and verification. The ABIS® System components are based on a modern standards-based Web Services architecture that provides fast and flexible integration with existing applications and services in your IT Service Oriented Architecture.

Manageable Workflows

The ABIS® Workflow Manager provides automation of the workflow of identity applications or cases, based on the ANSI/NIST-ITL 1-2007 biometric identity data format standard. Workflow definitions are defined in customer-accessible XML documents that allow your IT staff to adjust workflow rules as your business needs change with minimal effort or time. Custom identity business processing tasks are implemented as work units that can be plugged into workflows to create a comprehensively tailored identity business process.

Identity Record Management

The ABIS® Identity Manager provides identity record-keeping services. All known individuals and their history of identity applications are recorded in this registry. Each such "encounter" record contains the permanent record of that application, including the biometric samples taken at that time, demographic data, and images of any identity documents submitted with the application as proof of identity. The ABIS® Identity Manager services

include adding new persons, adding new encounters to existing persons, archiving older encounter records and supplying records selected by policy for inclusion in the ABIS Search Engine's biometric galleries.

Commodity Hardware

The ABIS® System uses only commodity hardware for the best possible price-performance. Select an established commercial database in accordance with database preferences and administration skills.

Protect Your Investment

Scalability

The ABIS® System has been designed to handle high volumes of biometric data throughput over large identity databases. Biometric engines can be added incrementally to increase record capacity and search throughput, and to reduce response time.

Built-in Fault Tolerance

The ABIS® System can be deployed in redundant configurations. This allows operation to continue without interruption while failed search servers are replaced. Combined with a clustered database and workflow servers, the ABIS System can be configured for near-continuous operation.

Simplified Expansions

The ABIS® System architecture allows expansion packages (called assemblies) to be prefabricated offline and attached to the operational system with no downtime. Adding more search core components allows you to expand the database size, increase search volume and reduce search response time as business needs evolve.

Real-World Experience

Worldwide ID Programs
Using Identix Biometrics

- Costa Rica Voter Registration
- Dominican Republic Voter Registration
- El Salvador Driver License
- Jordan National Biometric System
- Mexico National Voter Registration
- Mexico States of Nueva Leon and Sinaloa
- Panama Voter Registration
- Philippines Alien Registration Card
- Serbia National ID Card
- United Arab Emirates E-Gate Immigration System
- USA States of Colorado and Kansas DMV
- USA State of Connecticut Welfare
- USA Department of State Visa Issuance



Commitment to Customer Success

Our first-class Professional Services organization can provide experienced implementation services:

- Training in software installation, integration development and troubleshooting
- On-site installation and acceptance testing
- Integration of the ABIS® System into existing business applications
- Design and/or implementation of business-specific identity applications

Consider relying upon the experience of our professionals in large-scale biometric projects as a solid risk management strategy.

System Integrator Support

We provide Systems Integrators with timely and professional proposals for optimum use of the ABIS® System infrastructure and biometric technologies. Our specialists consider customer requirements for search throughput, search response time, level of redundancy required, size and growth of database and size and types of images to be stored.

Our proposals include detailed hardware requirements for System Integrator fulfillment. Systems Integrators can leverage the unmatched biometric performance and flexibility of the ABIS® System within their business applications.

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