



ExpressID AFIS



The fastest AFIS-matcher on the market, leveraging Innovatrics powerful computer hardware-independent, server-side matching system and client SDK.

FROST & SULLIVAN
Global Technology Innovation Award
Winner of the Year, January 2009

ERNST & YOUNG
Entrepreneur of the Year, February 2009

FVC 2004, FVC 2006

MINEX - NIST

BLAZING-FAST PERFORMANCE FOR LARGE-SCALE FINGERPRINT RECOGNITION SYSTEMS

ExpressID AFIS is a matching server software designed to power Automated Fingerprint Identification Systems (AFIS) for large-scale identification of people. ExpressID AFIS searches for fingerprints in the database and identifies individuals based on their fingerprints. ExpressID AFIS is used by system integrators to build fingerprint identification applications for their customers (government, enterprises, banks, hospitals, retail stores, etc.).



LINUX compatible



ExpressID AFIS Enterprise

Single server architecture
Up to 3 million fingerprints



ExpressID AFIS Government

Scalable cluster server architecture
More than 3 million fingerprints

CORE FEATURES

- **Rapid implementation** — matching server can be run as Windows/Linux Service and client SDK can be quickly integrated into existing solution
- **Matching speed** — Innovatrics IEngine can match up to 1,500,000 fingerprints per second
- **Exhaustive search** — every database search is performed exhaustively comparing every fingerprint. The exhaustive search does not create data loss and ensures significantly better accuracy than standard classification and indexing algorithms
- **Sensor independence** — can work with any scanner capable of providing a raw fingerprint image
- **Scalability** — multiple node installation for increased processing (government version)
- **Tags/Database pre-filtering** — The new user categorization feature helps you to create and attach tags to user records, effectively categorizing users. This categorization structure significantly enhances the performance of ExpressID AFIS by decreasing the overall size of the database when searching for a fingerprint match. Pre-filtering for more quicker search smaller portions of the database.
- **Database connection** — pre-packaged with SQLite db or capable of connecting to any ODBC datasource
- **SSL/TLS connectivity** for secure communication
- **Data encryption** — AES-256
- **Mobile or PC client capability**

ExpressID AFIS is the fastest solution on the market, providing 1,500,000 matches per second and can be installed on “off-the-shelf” computers making it a cost-effective and powerful fingerprint recognition system for large-scale identification.

APPLICATIONS

Civil ID

- **Government** » Prevent duplicate registrations at document issuance
- **Border control** » Identify against watch-list

Customer ID

- **Banks** » Prevent duplicate registrations at credit issuance
- **Hospitals, Banks, Retail** » Prevent identity fraud
- **Sport events, Banks** » Identify against watch-list





ExpressID AFIS is designed for developers and system integrators that need to provide large-scale fingerprint identification that is standards-compliant, high-performance, and cost-effective.

Key Components

The ExpressID AFIS solution has two core components: the matching server and client SDK.

MATCHING SERVER

Stand-alone server software which can be run manually or as a Windows/Linux Service. The server listens to requests via web services from clients. It takes the fingerprint image and compares against the entire database before returning the "best matching candidates" (scored). OS—Win32, Win64, Linux.

CLIENT SDK

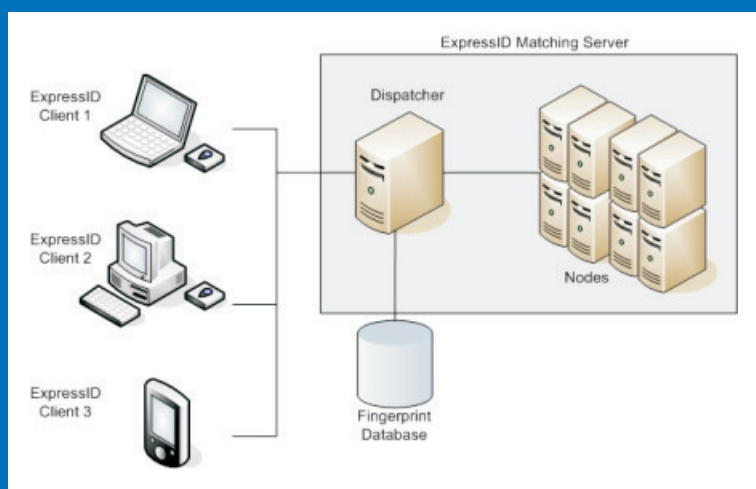
The SDK allows the developer to program the application with GUI. The SDK contains a variety of functions such as connecting to pre-selected fingerprint scanners, extracting template from the fingerprint image, and calling the matching functions on the server. OS—WinCE, Linux, Win32, Win64, Embedded.

EXPRESSID AFIS INCLUDES:

- ExpressID Matching Server,
- IDKit PRO SDK for client
- IScanners SDK for connection with directly supported fingerprint scanners,
- Documentation
- Samples in C, C++, C# and Java
- ODBC connector
- SQL scripts to create tables in Oracle, MySQL and MS SQL Server databases
- Innovatrics License Manager



An example client application using the ExpressID AFIS client SDK.



The ExpressID Matching Server receives the template from the client and compares it to all stored fingerprints in the database.

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