CAFIS™/CAPFIS™

CAFIS - Cogent Automated Fingerprint Identification System

A multifactor, scalable and customizable software package that allows you to perform a wide range of tasks for processing, editing, searching, retrieving and storing fingerprint images and subject records. CAFIS™ provides automated identification solutions – from a desktop AFIS (CAFIS Prime™) to distributed networked solutions for local, regional and national systems. As one of the most accurate systems in the world, CAFIS™ ensures service resiliency while providing information safety through the use of built-in safeguards such as fault tolerant architecture, disk mirroring, automated database backups and disaster recovery options.

Features

- **Superior searching capability**: 100% penetration for tenprint, latent and palmprint searches. Performs searches in a variety of ways: tenprint to tenprint, tenprint to unsolved latent, latent to tenprint, latent to unsolved latent, palm to palm, palm latent to palm, palm to palm latent to unsolved palm latent.

- **Ease of integration / versatility**: CAFIS™ can be integrated with external AFIS systems, computerized criminal history systems, live scans, hand-held wireless devices, secure web-based internet solutions and other information systems.

- **Scalability**: Modular and expandable architectural elements that can be scaled to meet any agency’s database size, throughput and integration requirements.

- **Handles a wide range of database sizes**: Meets the needs of agencies with record collections of a few thousand to several million.

- **Fast**: Using the power of Cogent’s Programmable Matching Accelerator (PMA) servers, CAFIS™ provides rapid response time; CAFIS™ supports search speeds from 15,000 to 500,000 matches per second. Multiple PMA servers can be rack-mounted to linearly increase matching throughput to up to 1,500,000 matches per second.

- **Easy to Use**: Provides you with a wide assortment of special image processing tools to enhance the viewing quality of an image before saving it in the database, to mark minutiae and to initiate database searches.
CAPFIS Cogent Automated Palmprint and Fingerprint Identification System

For law enforcement agencies with finger and palm print record collections ranging from a few thousand to millions, Cogent provides automated identification solutions from a full function desktop AFIS (CAPFIS Prime) to distributed networked solutions for local, regional and national systems (CAPFIS). The system can be integrated with external AFIS systems, computerized criminal history systems, live scan, hand held wireless devices, secure web based Internet solutions and with other information systems. Featuring 100% penetration for tenprint, latent and palmprint searches, CAPFIS has been proven to be one of the most accurate systems in the world. CAPFIS can be configured with a number of built in safeguards that ensure service resiliency while providing safety of information (via fault tolerant architecture, disk mirroring, automated data base backups and disaster recovery options). CAPFIS features modular and expandable architectural elements that can be scaled to meet any agency's database size, throughput and integration requirements.

CAPFIS provides the solution for agencies that:

• Require fingerprint/palmprint matching systems with databases of up to tens of millions of records
• Need rapid response times
• Must support from a few to thousands of users
• Want to include livescan and wireless biometric input devices
• Require integration of existing information systems
• Need to provide secure web based identification services

For agencies with modest throughput requirements, systems can be configured using an NT or Unix based transaction server hosting the Image Flow, Data Flow and Information Fusion software. Any number of modular elements can be configured including workstations for tenprint, latent and palmprint processing live scan for tenprint and palmprint capture, and wireless hand held computers.

For agencies with databases containing tens of thousands to millions of records and requiring real time identification results, Cogent's Programmable Matching Accelerator (PMA) servers can be used. PMA servers support search speeds from 15,000 to 500,000 matches per second. Multiple PMA servers can be rack mounted to linearly increase matching throughput and to support system growth and expansion. As shown in the accompanying picture, three rack mounted PMA servers can deliver up to 1,500,000 matches per second. This proven technology is widely used by cities, counties, states and national governments as a cost effective AFIS solution. Only Cogent can provide the cost effective and modular data flow computing technology to meet customers' needs today- and well into the future.

For Cities, Counties, States or Countries needing an AFIS solution requiring integration with existing information systems and that must be able to interface with external AFIS systems, Cogent provides turn key customized solutions to meet customer requirements. Cogent also works with major system integrators in providing tailored solutions.