



Mobile Biometric Identification ***for Law Enforcement and Enterprise Security Officials***





On routine gang enforcement operations, Officers Smith and Johnson spot four male subjects suspiciously engaged in possible drug sales as they turn a corner near the city's central park. Working with authority provided by anti-gang legislation, Officers Smith and Johnson quickly detain three of the four suspects. Interviewing the three individuals, none had identification, and their purpose for being in the park varied slightly among each. Speaking with one of the younger males, it is revealed that the individual who left was a known gang member. Based on agencies standard operating procedures and with reasonable suspicion assessed, the officers decided to use the Motorola Mobile AFIS to determine if any of the individuals detained had previous arrest records. Within seconds of capturing the first individual's fingerprints, a "hit" response is received on the mobile AFIS. The handheld clearly displays the mug shot of the individual, along with name, demographics, criminal history and an outstanding arrest warrant. This individual was wanted for a felony drug charge. Officer Smith and Johnson were able to arrest this suspect with the help of Motorola's advance technology, removing a suspected criminal from a park used by the community. Without this technology, the officer would have needed to spend precious time and money transporting all three individuals to a sub-station to be identified, taking the officer off the street, and this wanted individual might have instead been let loose to the detriment of the community's safety.

Day to day, scenarios like this unfold all across the United States. The technology to connect officers, out on the streets, to the information that impacts the community's safety is being deployed with trusted results.

Mobile AFIS overview

Mobile AFIS (Automated Fingerprint Identification System) is a handheld biometric tool that can capture fingerprint and facial images, analyze the data, and match this information against databases stored locally on the device, in centralized biometric matching systems, or on smart cards. Results of a search are received back on the hand held unit; and if positive match, provide detailed information that includes mugshot, name, demographics, criminal history, and any outstanding warrants. Mobile AFIS delivers immediate access to criminal databases, helping officers to protect the community's safety. Common Mobile AFIS criminal applications include:

- Officer or soldier on patrol or at check points who need to perform a quick verification of a individual against an ID card or database
- Authorities investigating individuals during anti-criminal activities such as gang or drug enforcement
- Police who are required to include fingerprints as part of the citation process
- Bailiffs required to confirm the identity of individuals at a court appearance
- US Marshals involved in prisoner transport and release tracking
- First-on-scene officers who need to identify unconscious or possible amnesia victims

Motorola Mobile AFIS delivers results

Harris County Sheriffs (HCSO) were able to capture a wanted murder suspect. According to Pete Schroedter, AFIS Manager, "officers went to a home to serve an arrest warrant for a wanted suspect. Law enforcement officials did not find the suspect; however, they did encounter three males with no identification. Using Motorola's Mobile AFIS in conjunction with the Motorola Printrak BIS officers were able to positively match one of the individual's fingerprints against HCSO's list of wanted suspects. He was the subject of a murder felony warrant in an unrelated case." Although HCSO's officers were not in the home looking for this suspect, they were able to make an arrest resulting in increased safety in Harris County.

Mobile Identification on Patrol

(1:Many search against a remote or local database)

Out on patrol, officers use the Motorola mobile identification solution to immediately identify individuals and connect them to their records. Patrol units use the mobile AFIS during gang enforcement operations, traffic ticketing, cite and release procedures, narcotic investigations, missing person inquiries, and many other security activities. The solution enables agencies to capture fingerprints and facial images (MC75 only), and to transmit fingerprint minutiae templates or images to a remote biometric matching system for identification against databases. Utilizing the MC7x's wireless



capabilities, the information can be transmitted across most common wireless protocols including HSDPA, EVDO rev 0/A, GSM/EDGE, 802.11 a/b/g, or Bluetooth®. Local databases can be transferred to the handheld computer via the SDIO interface, ensuring access to important data even in the event of wireless communications interference.

Responses can include facial image, biographic data, criminal history, and wants and warrants information. Additionally, responses can be color coded to provide officers with immediate threat levels or security risks associated with the person in question.

Mobile Identification in Event Security

(1:Many searches against criminal databases and 1:1 biometric verification against ID badges)

During large events such as music festivals, political rallies or soccer matches, event security personnel and officers are often tasked with managing unruly attendees or safeguarding secure areas. The Motorola Mobile AFIS enables the capture, transmission and search of biometric information against remote databases. Additionally, with smart card enabled ID badges, the Mobile AFIS is capable of performing a 1:1 comparison of the fingerprint stored on an ID badge with that captured through the fingerprint sensor. Event security can verify the authenticity of an ID badge and confirm an individual's grant access privileges during a particular event. With the MC7x's wireless capabilities, the information can be vetted, in real time, against remote databases to ensure that access privileges have not changed.

Mobile Identification in Enterprise Security Operations

(1:1 biometric verification against an RFID enabled employee ID badge)

Large company or enterprise security personnel have the responsibility of protecting their company's most sensitive information and securing areas such as a R&D lab, warehouse, central IT infrastructure (IDF) rooms, or hazardous materials storage. The Motorola Mobile AFIS enables security officials to verify the identity and access privileges of employees who are issued RFID-enabled cards/badges. Security

officers on patrol, who encounter suspicious persons, can use the handheld device to scan the RFID badge, capture a fingerprint and perform a verification of that person against the ID badge. Access privileges can be viewed to confirm the individual's granted permissions to be within or enter a secure area. If connected wirelessly to remote servers, security personnel can, in real time, pull information about employment or privilege status.

The Solution Details

The Motorola Mobile AFIS solution consists of industry proven software on industry leading hardware. Mobile AFIS is intuitive, enabling government and company personnel to easily capture biometric and biographic information with minimal training. Images are analyzed for quality prior to capture and encoding, ensuring the best possible inputs for biometric matching. One to ten fingerprints can be captured and the interface enables easy alternative functionality in the case of an amputee or bandaged finger. Workflows are configurable to the specific requirements of individual agencies or companies. The Mobile AFIS can be configured to submit standards compliant templates (ANSI INCITS 378 or ISO SC37) or images (ANSI INCITS 381 or ISO SC37), enabling search on a variety of AFIS systems. Biographic information can be auto-populated through the 1D or 2D barcode scanner, contact card reader, or contactless reader. The Motorola Mobile AFIS supports FIPS140-2 VPN or encrypted email transmissions.

The Motorola Mobile AFIS is enabled with our integrated hardware solution that includes a MC7x Series Enterprise Digital Assistant (EDA) rugged handheld mobile computer coupled with our biometric attachment.



The MC7x is a family of rugged handheld mobile devices that put the power of a cell phone, PDA, computer, scanner and imager in the hands of your mobile workers with the first rugged enterprise digital assistant. Designed to withstand all-day everyday use in nearly any environment, this rugged compact device delivers true anywhere anytime wireless WAN/LAN/PAN voice and data communications, including superior voice functionality, data capture and the power to run nearly any application.

Key features of the MC70

- Windows Mobile® 5.0 Premium or Phone Edition
- GSM/EDGE, CDMA EVDO Rev.0, GPS, WLAN 802.11 a|b|g, Bluetooth® v1.2 communication options
- Integrated data capture options – 1D or 2D scanning
- Up to 128/128 MB of RAM / ROM on board memory
- Color 3.5" QVGA touchscreen

Key Features of the MC75

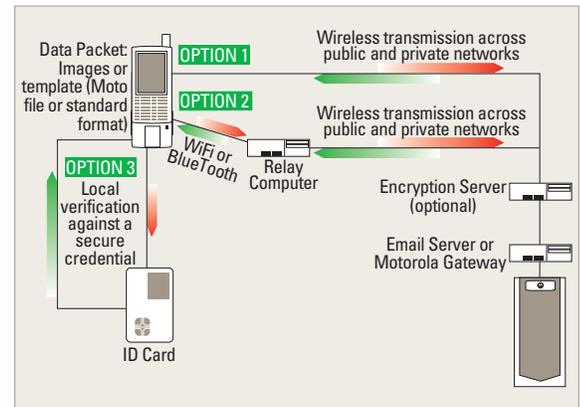
- Windows Mobile® 6.0
- 3G HSDPA or CDMA-EVDO Rev A, GPS, WLAN 802.11 a|b|g, Bluetooth® v2.0 communication options
- 2MP color auto focus camera
- Integrated data capture options – 1D or 2D scanning
- 128/256 MB of RAM / ROM on board memory
- Color 3.5" full VGA touchscreen

The foundation of the Mobile AFIS solution is our top selling MC7X series of handheld computers.



The biometric attachment provides rugged, IP54 rated, functionality equivalent to all environment specs of the MC7x handheld unit. GSA certified fingerprint capture supplies highest quality images within a variety of lighting conditions. ISO 7816 compliant contact card reader provides read/write capabilities with all ISO 14443 compliant cards. LED light indicators provide users with a clear queue to card-reading status. Contactless card readers provide data access on RFID enabled identification cards or badges.

Mobile Identification Workflows.



The Motorola Mobile AFIS solution can be connected to other Motorola products including its flagship Biometric Identification System (BIS) and Metro ID. The Motorola BIS is a premiere offering incorporating industry-leading biometric matching algorithms, powerful storage and records management technology providing agencies superior accuracy and speed. The Motorola Metro ID is an entry level biometric matching and storage subsystem delivering advance data management and security tools.



MOTOROLA

Motorola, Inc.
 1250 N. Tustin Ave.
 Anaheim, CA 92807, USA
www.motorola.com/biometrics
 Americas: +1 714 238 2000
 Europe, Middle East and Africa: +43 1 79709 2222

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. Microsoft, Windows and Windows Mobile are registered trademarks of Microsoft Corporation in the United States and other countries. The Bluetooth trademarks are owned by their proprietor and used by Motorola, Inc. under license. All other product or service names are the property of their respective owners. © Motorola, Inc. 2008