



Advanced Biometric Identification for Identity Management in Port Security





Under the administration of TSA, The Transportation Workers Identification Card (TWIC) program is a national endeavor to provide common access employee ID cards to some one million or more transportation workers. TWIC cards are biometric-enabled “smart” ID credentials that provide port employees with unescorted access to secure areas of Ports, vessels, and other maritime related facilities. Motorola’s TWIC Identity Management and Security Solutions currently support this program with biometric solutions that enable enrollment, storage, match, and verification of biometrics against TWIC credentials.

Motorola Identity Management and Security Solutions provide officials with the tools to secure the controlled access of our ports through quick processing of TWIC data, accurate matching of biometric information, trusted identification of individuals against their TWIC credentials and secure transmission of this information to central security systems. For the TWIC program, Motorola’s biometric solution offers trusted hand held devices, intuitive self-operating kiosk stations, and central matching systems based on innovative technologies guided by proven strategies.

Motorola delivers the right information at the right time to the people who need it most. With over 30 years of biometric industry leadership and over 75 years of innovative government solutions, Motorola has the experience to deliver identity management solutions that solve your most mission-critical concerns.

Our solutions are configurable to provide the functionality needed in your various port environments. Solutions are ruggedized to function in harsh environments and/or mobile to meet full TWIC requirements even in remote areas. We develop easy-to-use technologies that not only integrate simply with existing standard security operating procedures, but also allow for quick operator training to ensure new hires are fully acclimated within a minimal timeframe. Our biometric solutions provide the flexibility to help guard against obsolescence and to expand and upgrade system components as program demands necessitate.

Only Motorola’s TWIC Identity Management and Security Solutions Offer You:

- Wireless and mobile solutions that when required function on global networks capable of addressing transaction requirements, climate concerns, and weight and size limitations
- Industry leading matching technology based on industry tested algorithms ranked number one for interoperability
- Industry leading hand held units that enable multi-modal biometric verification of face and fingerprint
- Intuitive solution designs that easily integrate into existing security procedures and require minimal security agent training
- Graphical user interface (GUI) designs that are user-friendly and enable quick self verification
- Innovative multi-modal biometric technologies that produce trusted results and help protect against failures to verify
- Versatile solutions based on proven strategies that provide accurate biometric identification in different port environments around the county
- 24/7 customer service guaranteeing system functionality around the clock
- End-to-end biometric-enabled solutions built on COTS hardware and SOA software that are compliant with all US and international standards; solutions capable of delivering fast and accurate



The Motorola Mobile AFIS:

Motorola's legacy of innovation in wireless technology and leadership in biometrics converge in Motorola's latest Mobile AFIS on the MC75 Enterprise Digital Assistant, which delivers all the features and functionality required to accurately identify individuals against their TWIC credential and leverage these hand held computers for other software applications...all at the right price. The Motorola Mobile AFIS re-defines the standard for mobile biometric identification with simultaneous FIPS 201 compliant fingerprint sensor, ISO compliant contact card reader/writer and contactless contact card reader/writer as well as voice, data and GPS services. Users enjoy a 3G world cell phone with push-to-talk (PTT), integrated GPS with superior sensitivity and tracking capabilities, 1D and 2D bar code scanning, a high resolution auto-focus color camera, high-bright full VGA touch screen, 3G wireless WAN (WWAN), wireless LAN (WLAN), wireless PAN (WPAN) and IrDA connectivity — all in a single device.

The 3G based Mobile AFIS on MC75 with biometric attachment allows port security personnel, government and other enterprise security officials to standardize biometric identification, asset management and other port related applications on one device for global deployments, reducing the complexity, support requirements and the cost of mobility solutions. By providing a single platform for worldwide voice and data services, the MC75 eliminates the need for multiple operating systems, multiple service providers and multiple devices. In addition, the multi-function MC75 eliminates the need to purchase and manage multiple devices per person — for example, a mobile biometric capture device, mobile computer and a cell phone. The reduction in capital and operational costs combines with increased workforce productivity to deliver maximum value on your investment.

The MC75 with biometric attachment enables the capture of fingerprints (up to ten fingers) with uncompromising speed and accuracy. The unit's robust capabilities and cost-effective anytime, anywhere data connectivity makes this biometric acquisition tool ideal for perimeter security, in the field identity challenges, PACS enrollment or in port security applications.

Beyond advanced biometric identification and verification, the Motorola Mobile AFIS on the MC75

delivers return on investment second to none. The MC75 EDA's robust capabilities and cost-effective anytime, anywhere data connectivity makes this the ideal platform to launch additional applications such as automated documentation, asset management, GPS location, and advance streaming video software packages. In addition to phone and data capabilities, the solution (including biometric attachment) are built rugged receiving an IP54 rating for sealing, tested for 5 ft drop to concrete, and providing full operation in extreme weather conditions.

The Motorola Mobile AFIS on the MC75 with biometric attachment places the ability to rapidly establish the identity of individuals in the hands of those who have the immediate need for information; it provides the right intelligence to the right people at the right time.

The Motorola Bio-Verify Kiosk:

The Motorola Bio-Verify kiosk is designed to assist port security agencies worldwide by enabling multi-modal biometric enrollment and verification that is based on industry leading algorithms. Intuitive graphical user interfaces enable quick self verification or operator-led verification with minimal footprint, enabling easy deployment in even the most rugged locations. Pictogram base instructions ensure easy to follow processes in any language. With the Motorola Bio-Verify Kiosks, port security officials can easily and efficiently collect alphanumeric information and biometric data, ideal for applications TWIC active authentication, CHUID verification, CHUID with biometric verification, or in areas such as registration into a PACS systems, new employment, or change unescorted access privileges. The Motorola Bio-Verify Kiosk is an integrated yet modular solution that incorporates COTS hardware and the advanced Motorola biometric application. The deployment of COTS hardware helps to protect against system obsolescence and allows for flexible upgrades as new technologies become available.

Whether the situation demands photographs be taken from behind bulletproof glass to protect operators, unattended self enrollment/verification workflows, or portable and wireless to allow enrolment officials to drive out in the field, Motorola's Bio-Verify Solution delivers trusted and reliable identification in various configurations and form factors.



Motorola Printrak Biometric Identification Solution:

The Motorola Printrak Biometric Identification Solution (BIS) is Motorola's core storage, analysis and matching system that delivers industry leading interoperability, accuracy, and speed. The Motorola Printrak BIS is built upon a service oriented architecture (SOA) with commercial-off-the-shelf (COTS) components, resulting in the flexibility to expand as system demands require, and to upgrade to safeguard against system obsolescence. Motorola Printrak BIS gives you full biometric integration with the inclusion of fingerprints, palmprints, facial images, descriptive data, iris images, signatures, and documents to deliver a comprehensive solution for centralized TWIC port security. The Motorola Printrak BIS is also capable of managing edge devices and biometric data from products such as the Motorola Mobile AFIS and the Bio-Verify Kiosk.

Forward Looking Solution:

At the core of the Motorola technology strategy is the ability to provide solutions that enable expansion as TWIC program demands require. Also, the commercial off-the-shelf (COTS) approach delivers flexibility to upgrade system components which helps to protect against technology obsolescence.

As an example, the Motorola Mobile AFIS on the MC75 is already equipped with the ability to capture other biometric data. Motorola offers the option of

facial recognition. When this biometric identifier is required, the Motorola MC75 unit can capture a facial image and leverage a 3G wireless network to transmit this data to a facial recognition system for identity verification. The MC75 is equipped with a 2 mega-pixel auto focus color camera. The user controlled illumination enables a port security officer to capture quality facial images even in no light conditions. Furthermore, the attachment design enables upgrade of the fingerprint capture sensor as new technologies become available without the need to replace the entire hand held device.

When it comes to selecting a provider for your TWIC solutions, choose the industry leader with a long history of proven, innovative technology — Motorola.

With Motorola you enjoy technology that is second nature, so your workers can stay focused on the mission — not the technology — providing the productivity increase and instant information access needed to better protect and improve the delivery of services to your customers.

Discover the power of Motorola's trusted biometric solutions at www.motorola.com/biometrics

Biometrics Account Manager
Frank Sangiorgi
frank.sangiorgi@motorola.com
phone: 410-712-6509



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

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