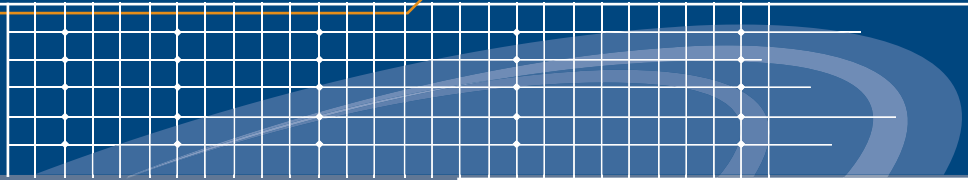


INDUSTRY PAPER



Cross Match L SCAN[®] Guardian[™]

May 2007



Securing the Nation's Borders

Since the tragic events of 9/11, the U.S. government has implemented new legislation, regulations, and programs to secure the nation's borders from terrorist threats. The U.S. Department of Homeland Security (DHS) is tasked with implementing a comprehensive plan to secure the nation's borders, and deploying new technology is critical to building next-generation border management systems.

One of the most visible and important aspects of securing the border is the biometric screening of foreign visitors entering and exiting the United States. The program known as US-VISIT is part of a continuum of security measures, often beginning with a visitor's visa application through departure from a foreign port, and continuing through arrival at a U.S. Port of Entry (POE). Facilitating legitimate travel and trade, US-VISIT helps to ensure the integrity of the United States border management system through the use of innovative and efficient biometric identification systems.

The biometric component of the US-VISIT program includes obtaining two index fingerprints and a digital photo of arriving foreign visitors. The fingerprints are checked against DHS databases to determine whether there is information indicating that the visitor poses a security risk to the U.S. The collected biometric information is then stored for future visits whereupon an individual can be verified against the information on file.

DHS is now transitioning from a two-fingerprint process to requiring all ten fingerprints. The additional biometric information will allow DHS to check fingerprints against important databases, such as the Federal Bureau of Investigation's (FBI) Integrated Automated Fingerprint Information System (IAFIS), which are based on ten-print records.

Deploying a Steadfast Guardian

To address US-VISIT security enhancements, Cross Match developed a next-generation ten-print enrollment system, specifically designed to handle the heavy volume and other operational characteristics at U.S. POEs. The Cross Match L SCAN® Guardian™ was the first livescan system to meet the government's state-of-the-art biometric standards, as defined in the "Ten-Print Capture Scanner and Software Requirements" prepared by the Homeland Security Ten-Print Capture User

Group in September 2005. The User Group, consisting of representatives from the DHS, FBI, Department of State, National Institute of Justice, Department of Defense's Biometrics Fusion Center and National Institute of Standards and Technology, issued a Challenge to Industry. Calling for smaller, faster mobile biometric identity solutions, the User Group tasked vendors to create systems to capture all ten fingerprints, as contrasted to traditional two-fingerprint capture devices.

In March 2006, the Cross Match Guardian was awarded the FBI's IAFIS Appendix F certification for Electronic Fingerprint Transmission Specification. Cross Match received an initial order for Guardian units from the Department of Defense immediately following the certification, and commenced Guardian production in April 2006—a full six months ahead of the target deadline specified by the User Group.

Today, Cross Match provides livescan fingerprint devices for a variety of programs, including US-VISIT, for enrollment and verification. More than 5,000 units are installed at border locations and U.S. consular offices abroad, and US-VISIT will commence with full Guardian deployment in late 2007. As such, Cross Match is an integral part of the effort to create a "border of the future" and will be involved in operational testing at several airports this year.

Livescan System Benefits

In addition to meeting requirements for livescan systems at our borders, Guardian addresses biometric enrollment and verification needs of state, local and private agencies that require high-quality biometrics to conduct background and identity checks. Fingerprints are the most trusted and commonly used biometric and Guardian delivers speed, accuracy and mobility for applications from civil background checks to large-scale access control solutions. Key features include:

- Auto capture capability. For increased accuracy, Guardian utilizes Cross Match patent-pending, auto capture technology to automatically evaluate the quality of each fingerprint image. The technology displays images on a computer screen and formats the captured biometric data—all in less than 15 seconds, which exceeds demanding User Group specifications. There's no need for user intervention, so the operator is freed from watching and evaluating each fingerprint, and able to eliminate the need for specialized training to ensure a usable fingerprint.
- FAST SDK package. This software development kit makes it simple to extend the fingerprint capture capabilities of Cross Match livescan systems. FAST SDK enables Guardian, and other Cross Match ten-fingerprint systems, to electronically produce a full set of slap fingerprints, including thumbs, in less than 15 seconds. With the ability to capture nail-to-nail rolled prints and support for "rock-and-roll" capture techniques, the software is a valuable addition to any high-volume implementation.

- Workflow management. Guardian's workflow management features allow the implementation of a structured process to capture fingerprints. New software applications require customized graphical user interfaces, and Guardian software enables the creation of GUI screens and controls through the concept of skinning. Skins created using the Guardian software tools can make the fingerprint capture process conform to the desired look and feel of an application for seamless operation.
 - Perfect Roll™ technology. Cross Match's Perfect Roll technology allows for rolled fingerprint acquisition from either direction (right-to-left or left-to-right) and at any speed. Guardian scans and segments an individual's ten-print images directly into a digital format, which is much quicker, more accurate and effective than traditional ink and paper methods.
- A sophisticated system, Guardian can be provided with in-field auto-test functionality and standards-based software, which integrates with multiple databases — allowing images to be transmitted to either a central location or AFIS for processing.
- A small footprint. Measuring 6 inches wide, 6 inches deep and 4.7 inches high, Guardian weighs just 4 pounds and exceeds government mandated physical and performance requirements. With its small footprint, Guardian excels in tight locations, fitting on most counter tops. A single cable connects Guardian to a power source with no need for a bulky power cord or wall transformer.
 - A single camera. Guardian utilizes a single camera configuration, which allows fingerprint capture even when fingers are presented at up to a 45 degree rotation from vertical. By using one camera, the blind spots that occur in two-camera systems are eliminated.
 - In-field calibration. Guardian's single-camera optical system supports easy in-field calibration. Monitoring several critical elements, the system requires only one calibration function, eliminating the need to balance the multiple independent optical systems found in two-camera configurations.



Guardian Technical Features

System durability. Raytheon Corporation, under contract to Accenture, the lead integrator for the US-VISIT program, conducted a number of rigorous tests on Guardian. Successfully passing the temperature tolerance and shock-resistance (four-foot drop to concrete tile) tests, Guardian is ideal for demanding operational environments.

Deployment options. Guardian is available for both Firewire and USB 2.0 interfaces. Particularly important in secure environments, USB compatibility was one of the reasons why Guardian was chosen by the Swedish Migration Board for its visa enrollment program. Additionally, the USB version of Guardian allows flexibility for mobile applications.

Console flexibility. A variety of mounting brackets are available to facilitate ease of use in any operating environment. Cross Match consulted with U.S. consular officials in determining the types of environments in which Guardian would be used. The acquired data helped define Guardian.

Livescan on the go. To facilitate system movement, Cross Match offers a detachable handle for Guardian. In addition, a transparent sunscreen to shield the unit from direct sunlight is also available. And for the most demanding installations, Cross Match offers a "rugged" version, Guardian R, which was developed specifically for military applications.

Manufacturing capacity and ISO certification. Guardian livescan systems are manufactured in both the Palm Beach Gardens, Florida facility—dedicated to U.S.-based customers and the ISO 9001:2000-certified Jena, Germany facility—dedicated to international customers. Cross Match has significant surge capacity to meet large and urgent customer demands. All products meet international quality standards—providing a high level of reliability and performance. Technical support and customer service personnel are available around the clock to provide assistance.

Worldwide Livescan Acceptance

Cross Match fingerprint systems are used worldwide, with more than 22,000 Cross Match livescan systems and over 60,000 single-finger capture devices in operation. Many of the world's most important security projects rely on Cross Match livescan technologies.



Guardian with USB interface (left) and Guardian with Firewire connection (right).



Customers include: U.S. Department of Defense, U.S. Department of State, Federal Bureau of Investigation, Customs and Border Protection Bureau, U.S. Department of Veterans Affairs, U.S. Department of Education, Federal Deposit Insurance Corporation, Washington Airports Authority (Reagan National Airport) and Los Angeles International Airport. Internationally, Cross Match livescan systems are being deployed in several countries including Australia, Germany, Japan, Norway, Portugal, South Korea, Sweden and the United Kingdom.

Cross Match continues to be the first and preferred choice for many organizations when it comes to livescan biometric identity capture systems. With attention to technical and operating conditions, Guardian is one of the most cost-effective, efficient and durable ten-print capture device on the market.

For more information: Please contact your Cross Match sales representative.

Visit our web site at www.crossmatch.com.

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About Cross Match Technologies

Cross Match Technologies, Inc. is a leading global provider of high-quality interoperable biometric identity management applications and solutions. The company's offerings consist of a wide range of biometric products and solutions which are used to capture and process the unique physiological characteristics of individuals to establish and verify their identity, such as fingerprint, palm scan and facial recognition systems and solutions, enterprise and application software (including enterprise matching software), document readers, access control systems, and related services. Cross Match products are used around the world to conduct criminal bookings; perform background checks for job applicants; verify identities at borders and other checkpoints; register citizens for driver's license and national identification programs; prevent identity fraud in large-scale government and civilian programs; and control access to office buildings, government facilities and other secure areas. Cross Match serves a broad range of vertical markets including national, state and local governments, national and local law enforcement, transportation and other critical infrastructure, financial services, education, healthcare and other commercial enterprises. For more information, visit us at www.crossmatch.com.

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