

Cornerstones for Keeping America Safe!

Scan with Ease and Accuracy

AltaScan™ LiveScan Fingerprint Processing

The AltaScan™ LiveScan is an easy-to-use solution for scanning fingerprints. Our cost effective LiveScan complies with ANSI NIST/EFTS 6.2/7.0 established standards for fingerprint and demographic information interchange.

LiveScan can be used to communicate with any standards-compliant system to share fingerprint

images and demographic data in criminal and civil applications. For those agencies with modest processing needs and limited budgets, LiveScan represents a robust and proven alternative to expensive capture units that use proprietary formats and unnecessary “bells and whistles.” LiveScan captures rolled fingerprint images and associated demographic data into electronic records. It transmits the FBI’s Electronic Fingerprint Transmission Specification (EFTS) record via e-mail for automated processing.

fingerprint cards in support of the ten-print transactions defined in the FBI’s EFTS.

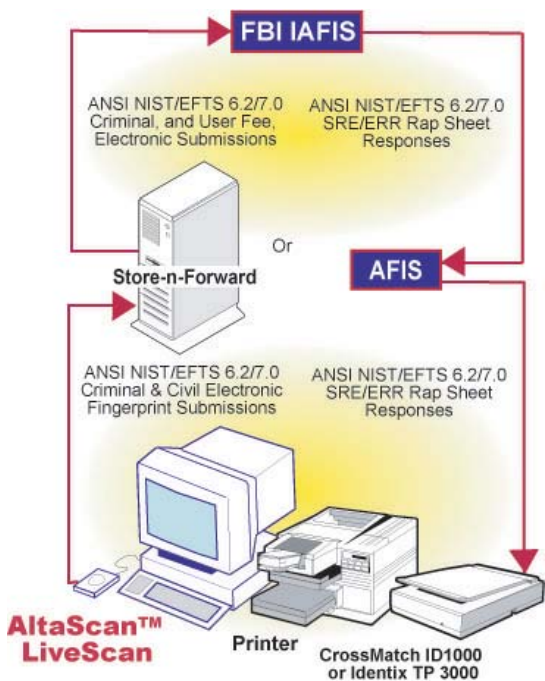
Built-in Quality Control

Utilizing a user-friendly GUI, the fingerprints are captured electronically on the LiveScan device. The operator selects the Type of Transaction (TOT)—there are 10 standard ten-print transactions—and starts the capture process. Fingerprints are captured using an Appendix F-certified scanner. After the fingerprint images are captured, an automatic quality control process can be run using the Quality Check software to determine the quality of each print image. Thresholds for acceptable quality measurements are user-defined. Using quality control standards for AltaScan™ ensure “minimal rejects” based on image quality.

Once all fingerprints are captured and checked for quality, the image data are compressed in accordance with the Wavelet Scalar Quantization (WSQ) standard to reduce image size, yet retain the mandatory image characteristics necessary for subsequent processing. Compression reduces transmission time, network traffic, and storage requirements.

Validate Data in Real-Time

LiveScan provides two methods of data entry for demographic data: manual and optional file import. For manual entry, the operator types all known information into discrete data fields using a data-entry screen. (Data field edits adhere to National Institute of Standards and Technology (NIST) Type 2 standards and can



Built On FBI Standards

LiveScan embodies the same standards established by the FBI and represents an ideal opportunity for agencies to participate in the fingerprint-based identification process for a low cost. LiveScan processes criminal and civil

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support user defined modifications.) For optional file import, the operator imports data from a data file containing all the known demographic data, thereby precluding the need to retype existing information. Regardless of the input method, prior to submission, all data elements are checked for accuracy and completeness in accordance with established EFTS Type 2 standards.

Transmit Data Electronically

LiveScan uses standard Simple Mail Transfer Protocol (SMTP) with Multipurpose Internet Mail Extension (MIME) e-mail to transmit the compressed fingerprint images and demographic data. This standards-based transmission method ensures the LiveScan output is compatible to any system capable of receiving standard e-mail.

Receive Electronic Results

Following the electronic submission of a fingerprint card, a response message (SRE or ERR) can be returned to LiveScan. The SRE contains the Ident/ Non-Ident results and can include an electronic RAP sheet (if requested by the user). An ERR response indicates that an error was encountered in processing a transaction and requires some error processing before a transaction may be resubmitted. Resubmissions can be sent electronically using the LiveScan workstation. LiveScan stores copies of each response in a POP3 mailbox, which is accessible by the operator for future processing.

Automated Administration

LiveScan provides common system administration functions

- Automated Application Maintenance
- Administration of User Accounts (Windows 2000-based user name and password logon)
- System Backup Capability

LiveScan is Affordable

AltaScan™ LiveScan offers major benefits to any agency that needs to process a modest number of fingerprint applicants at a low cost. AltaScan™ LiveScan is simply an inexpensive live capture solution and represents a tremendous cost advantage over similar LiveScan units.

Commercial Hardware and Software Components

The AltaScan™ LiveScan system is comprised of the following:

Hardware

- Compaq D530 series desktop PC, P4 2.6GHz (or faster), 256MB RAM, 40GB hard disk, CD-R/RW drive, 10/100/1000 Ethernet Adapter
- Compaq 17" LCD Color Panel display
- Crossmatch ID1000 or Identix TP3000 LiveScan Capture Device
- HP LaserJet Printer
- Optional Portable Laptop System

Software

- Microsoft Windows 2000 Professional
- Gordano GMS Mail Server
- Aware WSQ Compression
- Aware Quality Check
- AltaScan LiveScan Application includes: Developed GUI
- Optional Data Import from DataBase, File or Legacy System

Documentation

- Users Guide and System Administration Manual



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