

Livescan Systems

General Scope of Work

The State of Alabama is soliciting bids to establish a State Contract that can be used by Local Law Enforcement as a purchasing vehicle to procure desktop modular and portable live scan systems. These systems must at a minimum meet the biometric capture requirements for registration of Sex Offenders within the State of Alabama in compliance with SORNA. These systems may also be used by local Law Enforcement to process Criminal Offenders as well as local Applicants. The data captured by the live scan will include demographic information, tenprints, palm prints, and mugshots. The data will be packaged and sent in a NIST format acceptable to the Department of Public Safety (DPS), Alabama Bureau of Investigation NEC AFIS system.

Desktop Livescan System

1. The desktop live scan systems must be a turnkey desk top modular system and include a single scanner that captures tenprint images, upper palm, lower palm, and writers edge. The turnkey unit must include a high-powered high-speed desktop computer, 17" flat panel monitor, mouse, keyboard and all associated cables to make the system fully functional.

Portable Livescan System

1. The portable live scan system must be a turnkey portable system and include a single scanner that captures tenprint images, upper palm, lower palm, and writers edge. The turnkey unit must include a portable laptop computer, mouse, numerical key pad and all associated cables to make the system fully functional.
2. The live scan systems must be lightweight and portable. The system is required to be available in a configuration capable of transport in a single case by one person. The system is required to have a case for transport that is made of hardened plastic and waterproof. The case must secure the live scan system to prevent damage during routine transport.

GENERAL LIVE SCAN REQUIREMENTS

1. Prices include equipment, delivery and installation including all software/cards/memory necessary, cables, training, and warranty. All hardware components and software must be installed and configured before delivery.
2. Bidders must certify that their offered price will remain in effect for the length of time that the equipment is available and certified on the Federal Bureau of Investigation (FBI) website. Bidders must certify that their offered price bid is good for the length of time the equipment is available. As the FBI updates their

list of FBI certified equipment according to the IAFIS Image Quality Specifications (IQS), Appendix F of the FBI's Electronic Fingerprint Transmission Specifications or the highest FBI specifications currently available. The state of Alabama reserves the right to update the contract award to reflect either new or obsolete equipment. However, the price offered must remain constant through the life of the contract.

3. Each livescan station delivered shall be accompanied by a full set of user, administrator, and technical documentation.
4. Bidders shall provide three references including name, address, phone number, title, when the equipment was purchased, and a brief description of the references' programs.
5. Bidders must describe the training programs included with equipment installation.

Standards Compliance

1. Compliant with Wavelet Scalar Quantization Grayscale Fingerprint Image Compression Specifications (IAFIS-1C-010 v3 December 19, 1997).
2. Compliance with ANSI Data Format for the Interchange of Fingerprint, Facial & SMT Information (ANSI/NIST-ITL 1-2000).
3. Certified as compliant to FBI Electronic Fingerprint Transmission Specification (CJIS-RS-0010 (revision 2004) including Appendix F Image quality specifications for 500 ppi resolution image capture with and without silicone membrane.
4. Compliant with FBI NCIC CJIS WAN Protocol Specification and IAFIS telecommunications standards that specify use of TCP/IP, availability of FTP, SFTP and X.25 capability. On demand VPN connectivity – single user ID entry.
5. Compliant with the International Association of Identification (IAI) input to the FBI's Advisory Policy Board (APB) Identification Services Committee regarding calibration of livescan systems.

TenPrint / Palm Print / Mugshot Specifications

1. The live scan systems must include a tenprint and palm scanner suitable for a law enforcement and/or jail environment. The system must be rugged enough to withstand use normally expected in this type environment.

2. The palmprint/fingerprint livescan device must capture rolled and flat single fingers, flat four fingers, flat two thumbs, upper/lower/writer's (side) palms in an ANSI/NIST compliant record.
3. The live scan system must ignore moisture in the skin enabling the capture of clear, high quality prints without having to dry the fingers.
4. The palmprint/fingerprint device must feature a single platen that will scan flats, rolls, upper and lower palms, and writer's palms. It must be a single prism, single imager, uniform capture area, and does not "stitch" palm images.
5. The live scan system must support roll capture that eliminates tearing, smearing and smudging of fingerprint images due to movement of the finger on the capture platen.
6. The live scan system must provide even illumination over the entire platen surface to ensure the highest quality fingerprints and palm capture at all edges. Image quality must remain constant regardless of position on the capture platen.
7. The palmprint/fingerprint livescan capture device must be capable of obtaining clear fingerprint images from fingerprint ridges that are stained by inks, dyes, or blood or have scars, marks or tattoos.
8. The live scan system must have a single platen to capture tenprints and palm prints.
9. The live scan system must contain an optics deck with no moving parts to ensure the highest reliability and the least amount of down-time.
10. The live scan system must come in a sealed, rugged encasement with a high tolerance for shock and vibration and be completely sealed and impervious to dust and moisture often encountered in criminal processing environments.
11. The live scan system must provide the operator with real time feedback on the quality of the fingerprint just captured.
12. The live scan system must incorporate real time sequence checking between the just rolled fingerprint and the previously rolled slap image thus ensuring the correct fingerprint was captured.
13. The live scan system must guarantee that the fingerprints and palm prints belong to the same subject and that the right palm print match the right fingerprints and left palm print match the left fingerprints.
14. The live scan system must allow the operator to roll fingerprints in either direction and at the speed the operator desires.

15. The palmprint/fingerprint livescan device must offer variable speed capture, auto direction, real-time quality assurance checks including correct roll checks.
16. Image quality must comply with FBI specification EFTS Appendix F. Must operate at 500ppi resolution, have an operating temperature of 35°F to 105° (2°C to 40°C) and a relative humidity range of 10-90% non-condensing.
17. The palmprint/fingerprint livescan capture device must be factory calibrated and sealed, with a self test/diagnostics at start-up.
18. The system must provide pull-down menus to provide operator help for data fields where specific entries are required. Context-based help screens must also be provided for all major functions of the system.
19. The palmprint/fingerprint livescan system's capture display must provide true live display of finger and palm impressions on the connected monitor.
20. The system must provide immediate quality control feedback to the operator on each individual palmprint and fingerprint image captured.
21. The system shall provide a preview of the palmprint/fingerprint area of the card. The operator shall have the ability to view a zoomed image and to recapture prints of insufficient quality, as many times as required to capture a print that will be acceptable to the system.
22. The system must be capable displaying reject response messages in a format where a visual acknowledgement is required at the time of the next log in. The said acknowledgement must be made prior to the next submission. Reject response messages will be received via SMTP protocol.
23. The live scan system must include a digital photo system that utilizes NIST Best practice methods to ensure the highest quality photo's are captured. Photo systems that do not meet NIST Best practice methods will not be considered compliant and the vendor will be disqualified.
24. The live scan system must be certified by the State of Alabama to send tenprints, palm prints, and mugshots based on Alabama Bureau of Investigation NIST Standards including, but not limited to: CAR, MAP, NFUF and SOR. (attached)

System Administration

1. The system must have remote diagnostic capability.
2. The system must have a security system to prevent unauthorized operator access. The system shall not allow unauthorized operators to access the

equipment. An optional password protection scheme must be used and must not leave the system in a “logged on” state if the operator leaves the area.

3. The system must have the capability to direct separate images to predetermined locations (i.e.: images to DPS and images to printed form).
4. The system must include a full set of user, administrator, and technical documentation.

System Printing

1. The system shall be capable of producing a ten-print applicant card compatible with DPS and FBI submission requirements.
2. The palmprint/fingerprint images as well as demographic data must be printed in appropriate areas of the currently used FBI approved palmprint/fingerprint cards.
3. The printer bid must come from the FBI certified list which may be obtained at: <http://www.fbibiospecs.org/iafis/default.aspx>

AFIS Interface

1. The system must be certified to submit to DPS.
2. The capture station will display the transmission status of completed captures on the system display. Captured images that cannot be transmitted immediately must be stored for future transmission.
3. The system must be capable of transmitting the NIST records to AFIS via a secure internet connection.

Maintenance Requirements

1. The livescan bidder must provide Help Desk support 24 hrs a day 7 days a week for the live scan system.
2. The bidder shall provide a telephoned response within one hour of the submission of a reported problem.

3. The livescan bidder must provide 9/5 Monday through Friday On-Site Support by trained personnel employed by the vendor (not a third party.) It is a requirement of the bid that the bidder employ service personnel in the State of Alabama to minimize downtime and ensure proper service levels are met for the Law Enforcement Agencies. Bidders proposing service representatives outside the State of Alabama will be disqualified.
4. Each livescan workstation shall include a minimum of one year of hardware and software warranty and maintenance support services. The warranty shall provide for all repairs or replacement, including parts and labor for a period of 12 months from the date of installation and acceptance. Replacement parts will be shipped within 24 hours of reported problem.
5. Extended warranty on Line 00005 and 00006 of the ITB, to be purchased after the initial one year warranty, shall include all repairs or replacement, including parts and labor for a period of 12 months. Replacement parts will be shipped within 24 hours of reported problem.
6. The livescan bidder must provide at no cost to ABI a management service which will report the following information upon written request. The only information to be reported will be from those livescans which are electronically transmitting.
 - a. Number of transaction created per agency for a given time period.
 - b. Type of transaction (CAR, NFUF, MAP, SOR) for a given time period.
7. If requested the bidder must provide the name and telephone number of the service representative for a telephone interview by the State prior to award of the contract.
8. The Service representative must be proficient in written and spoken English.