



**COUNTY OF LOS ANGELES**

**REQUEST FOR INFORMATION**

**RFI No. 414-SH**

**MULTI-BIOMETRIC IDENTIFICATION SYSTEM**

**COUNTY OF LOS ANGELES  
SHERIFF'S DEPARTMENT**

**Request for Information (RFI) – Project No. 414-SH  
Multi-Biometric Identification System**

The Los Angeles County Sheriff's Department (LASD), Records and Identification Bureau, Los Angeles County Regional Identification System (LACRIS) is seeking input from the Biometric Identification community. Our goal is to improve upon our current identification capabilities by utilizing the latest technology.

Responses to this RFI will assist LACRIS in determining the feasibility of obtaining a new Multi-Biometric Identification System (MBIS) or upgrading our existing systems.

State and Federal agencies are allowing information sharing and our current system is positioned for sharing fingerprint images. With new modalities being used for identification, it is in Los Angeles County's (County) best interest to stay up to date with current technology while investigating future technology for potential application. This will allow us to continue providing our law enforcement community with the best information possible.

**BACKGROUND**

LACRIS maintains 173 Criminal livescans, 15 DNA livescans, 50 AFIS workstations, and over 2500 mobile fingerprint identification devices. Los Angeles County comprises more than 40% of California's criminal transactions. Tenprint identifications utilize 4 fingerprints for an identification averaging a response in less than 4 minutes. Our mobile identifications utilize 2 fingers and responses are typically within 1 minute of image capture in the field. Our AFIS has 6 (10 image) records per subject with two of the records containing composite images. For a total of 3 flat ten finger records and 3 rolled finger records per subject. Our palm system contains the three most recent transactions per subject. Our livescan systems send 1000 PPI images to our current AFIS. Due to the limitations of some downstream systems, the need to transcode down to 500 PPI images is necessary. We anticipate all downstream systems to be capable of receiving the higher resolution images within a few years.

**Current system search speeds from 7/1/2009 12:00:00 AM and 7/31/2009 11:59:59 PM**

| SearchType                          | <= 2  |         | 3-4  |         | 5-60 |         | Total |
|-------------------------------------|-------|---------|------|---------|------|---------|-------|
|                                     | Min   | Percent | Mins | Percent | Mins | Percent |       |
| Tenprint to Tenprint                | 38636 | 99.59%  | 69   | 0.18%   | 90   | 0.23%   | 38795 |
| Tenprint to Unsolved Latent         | 33219 | 96.67%  | 1121 | 3.26%   | 22   | 0.06%   | 34362 |
| Latent to Tenprint                  | 2594  | 96.25%  | 85   | 3.15%   | 16   | 0.59%   | 2695  |
| Latent to Unsolved Latent           | 2266  | 98.05%  | 41   | 1.77%   | 4    | 0.17%   | 2311  |
| Palm Latent to Palm Print           | 1123  | 82.63%  | 187  | 13.76%  | 49   | 3.61%   | 1359  |
| Palm Latent to Unsolved Palm Latent | 1158  | 96.10%  | 41   | 3.40%   | 6    | 0.50%   | 1205  |
| Total: 6                            | 78996 | 97.86%  | 1544 | 1.91%   | 187  | 0.23%   | 80727 |

**REQUEST FOR INFORMATION**

LACRIS wishes to maintain (or improve) our sub minute positive returns for mobile users. LACRIS desires easy and familiar tools for technicians and/or investigators, along with easy-to-expand storage capability, a robust administration module, and multi-modal biometric capability.

RFI respondents must conform to and/or exceed all of the following:

- An Eco-friendly “green” solution.
- Be a participant in the National Institute of Standards and Technology testing.
- Include regular updates to include the latest test algorithms within six months of test results at no additional charge.
- Able to convert all data from our existing AFIS (tenprint and latents).
- Have intuitive and user friendly image enhancement tools with full auditing features.
- Follow EBTS standards and conform to all ANSI/NIST standards.
- Minimum of 6 records per subject (each record to include 20 images, rolls and flats) – 5 most recent sets and 1 composite set.
- Have a Palm database with 3 full sets per subject (2 most recent and 1 composite) to be kept in synch with the tenprint database.
- Have sufficient storage to retain all of our current records plus enough for up to five (5) additional years at a rate of 2500 criminal records per day (includes criminal bookings, registrants, and field interviews all containing fingerprints, iris, and photos).
- Have the following accuracy rating:
  - 98.95% on 2 fingers
  - 99.95% on 4 fingers
  - 99.98% on 10 fingers
  - 100% on fingerprint combined with other biometric.

- MBIS including, but not limited to fingerprints and iris. Facial recognition is provided by our current Dataworks PhotoManager using Cognitec's facial algorithm. The MBIS must be able to fuse results from this system. If the presenter has their own facial algorithm, then it must be included into the Dataworks PhotoManager.
- Be at least a 1000 PPI system
- Be able to handle all State and Federal transactions
- MBIS search time limits are to be as follows:
  - No 10-print search to exceed 5 minutes
  - No 4-finger flat to exceed 2 minutes
  - No 2-finger flat to exceed 1 minute
  - No finger latent to exceed 10 minutes
  - No palm latent to exceed 15 minutes
  - No IRIS search to exceed 30 seconds
- Be able to handle all system interfaces implemented currently
  - CLETS via local message switch, CAL-DOJ, Dataworks PhotoManager system, Countywide Jail Management System, and other downstream systems
- An intuitive and easy to use web based reporting feature is also required.
  - These web based reports should be ad-hoc type with the ability to drill up or down in granularity for different levels of management reporting (example being able to view a summary report for all actions for an ORI, or the ability to view a report for a single user and/or device in any given time period).
  - Sample screen shots and report formats are requested to be a part of the response.
- New interfaces include web services.
- Easy workflow modifications include Field Booking, Warrant and FI databases

## RESPONSES

Responses and questions regarding this Request for Information (RFI) should be labeled as **“Response to RFI No. 414-SH For Multi-Biometric Identification System”** and addressed to:

Leo Norton, Lieutenant  
Los Angeles County Sheriff's Department  
LACRIS Unit  
12440 E. Imperial Hwy #400-W  
Norwalk, CA 90650

Responses to this RFI will be accepted in person, by private messenger, delivery service and US Postal Service through close of business day **Monday, February 1, 2010**, at the address listed above. Two (2) hard copies of response are requested.

Responses should contain the following respondent information:

- Name of company, address, phone number and fax number.
- Name of contact person, address, phone number, cell number, fax number and e-mail address.

LASD invites interested parties to submit their product and/or views of current and futuristic MBIS.

Responses should also include:

- Description of your participation in ANSI/NIST test results as it pertains to latent searches.
- Description of any enhancements you have applied to your system based on those test results.
- Description of IRIS search capability (i.e. capture, searching, accuracy, etc).
- Pricing for budgetary purposes.

## OTHER INFORMATION

Responses to this RFI shall become the exclusive property of the County. Respondents should be aware that the information provided will be analyzed and may appear in various reports and/or request, with the exception of those parts of each submission which meet the definition of "Trade Secret" in California, Evidence Code section 1061 and which are plainly marked as "Trade Secret" or "Proprietary."

The County shall not, in any way, be liable or responsible for the disclosure of any such record or any parts thereof, if disclosure is required or permitted under California Public Records Act or otherwise by law. A blanket statement of confidentiality or the marking of each page of the submission as confidential shall not be deemed sufficient notice of exception. Respondents must specifically label only those provisions of the submission which are "Trade Secrets" or "Proprietary" in nature.

LASD will review the response to this RFI which may subsequently lead to further investigation. **This is a request for information ONLY; this is not a solicitation.** Information received in response to this RFI may be used in the preparation of a Request For Proposals (RFP), an Invitation For Bids (IFB), or another County method for solicitation of services. Respondents to this RFI may be notified by the County of a future Request for Proposal (RFP).