



**LOS ANGELES COUNTY
SHERIFF'S DEPARTMENT**

REQUEST FOR INFORMATION

RFI NUMBER 729-SH

**AUTOMATED BIOMETRIC IDENTIFICATION SYSTEM
(ABIS)**

August 2023

**Prepared by
County of Los Angeles**

These guidelines are intended to provide general information only and are subject to revision. The rights and obligations of any party contracting with the County will be determined in accordance with the terms of the applicable contract and applicable law.

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1.0 INTRODUCTION

- 1.1 The Los Angeles County (County) Sheriff's Department (Department) is seeking information from Vendors that can provide an operationally proven, commercial off-the-shelf (COTS) Automated Biometric Identification System (ABIS). ABIS will replace the Department's existing Automated Fingerprint Identification System (AFIS) known in the County as Multimodal Biometric Identification System (MBIS) in support of the multi-agency Los Angeles County Regional Identification System (LACRIS).
- 1.2 Vendors of interest are those who can deliver a turnkey system, and provide 24/7 operations and maintenance support (e.g., hardware and software) as part of a maintenance agreement.
- 1.3 Vendors who can identify potential solutions, and wish only to furnish information about a product or system that they have knowledge of, may do so formally in writing.
- 1.4 Vendors who wish to participate in this Request for Information (RFI) must submit relevant production information, as outlined in Paragraph 4.0 (Information Requested) below.
- 1.5 The intent of this RFI is to learn as much as possible about current and future ABIS technology trends. This knowledge will be used to facilitate the preparation of any potential future solicitation.

2.0 BACKGROUND

- 2.1 LACRIS's primary objectives are to provide County law enforcement (LE) agencies with access to criminal biometric identity solutions and facilitate the sharing of these records and identity information with federal, state, and local government partners. Additionally, LACRIS has the lead role and responsibility to support and oversee the maintenance of all digital criminal biometric services for the County's participating LE agencies.
- 2.2 The County encompasses an area of approximately 4,083 square miles, with a population of over ten million. LACRIS provides biometric identification services for over 65 LE agencies within the County, which includes both the Department (the largest Sheriff's Department in the nation, with approximately 19,000 employees) and the Los Angeles Police Department (LAPD) (the third largest municipal police department in the United States, with approximately 9,900 officers.)
- 2.3 LACRIS maintains approximately 160 criminal livescans, 100 AFIS workstations, and over 2000 mobile identification devices. The County executes more than 40% of California's criminal transactions. Tenprint

identifications average a response in less than one minute. The mobile identifications utilize two fingers, and responses are typically within 30 seconds. The County's AFIS has over 15.5 million tenprint records comprised of over 6.3 million unique subjects. Additionally, AFIS holds 8.3 million palm print records, 300,000 unsolved latent finger records, and 123,000 unsolved latent palm records. The Department's livescan systems send images to AFIS at a resolution of 1000 pixels per inch (PPI). Each criminal submission from livescan includes at least three Type-10 records but averages five to six Type-10 records due to the presence of SMT (Scars, Marks, Tattoos) images.

Current system search speeds from 06/21/2023 12:00:00 AM and 06/22/2023 11:59:59 PM															
Search Type	<=2 Min	%	2-4 Min	%	4-60 Min	%	1-2 Hrs	%	2-4 Hrs	%	4-8 Hrs	%	>8 Hrs	%	Total
Tenprint to Tenprint	220,789	98.11%	2,272	1.01%	1,615	0.72%	162	0.07%	110	0.05%	66	0.03%	37	0.02%	225,051
Mobile to Tenprint	17,287	98.36%	199	1.13%	78	0.44%	9	0.05%	0	0.00%	0	0.00%	2	0.01%	17,575
Iris to Iris	662	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	662
Latent to Tenprint	3	0.19%	3	0.19%	542	35.10%	70	4.53%	54	3.50%	5	0.32%	204	13.21%	1,544
Latent to Latent	0	0.00%	0	0.00%	1	100.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1
Palm Latent to Palm Print	0	0.00%	0	0.00%	169	51.21%	41	12.42%	21	6.36%	6	1.82%	93	28.18%	330
Total: 6	238,741	97.38%	2,474	1.01%	2,405	0.98%	282	0.12%	185	0.08%	77	0.03%	336	0.14%	245,163

3.0 SYSTEM OVERVIEW AND REQUIREMENTS

- 3.1 LACRIS is looking for an operationally proven ABIS (System), with successful installations utilizing the capabilities outlined below.
- 3.2 The System being considered must meet the requirements outlined in this RFI, and be capable of:
 - a. Supporting multiple biometric modalities (e.g., fingerprints, iris, facial recognition, and voice) for support of identification,
 - b. Supporting interface(s) with external systems (e.g., California Department of Justice's AFIS, Jail Management System, Record Management System (RMS), legacy Transmission Control Protocol/Internet Protocol (TCP/IP) systems, web services, File Transfer Protocol (FTP), Secure File Transfer Protocol (SFTP), Active Directory Federation Service (ADFS), Open Authorization (oAuth), and Simple Mail Transfer Protocol (SMTP)),
 - c. Providing user-friendly tenprint and latent tools with full auditing features,
 - d. Providing intuitive and easy to use reporting features,
 - e. Supporting regular updates to include the latest test algorithms,
 - f. Ability to receive transactions via FTP, SFTP, SMTP, and web services,

- g. Ability to have granular configurations based on location, Originating Agency Identifier (ORI), LiveScan Identifier (LSID), and user, and
- h. Ability for latent technicians to submit mobile searches from the field and automatically receive results.

3.3 The System provider will be required to:

- a. Partake in the National Institute of Standards and Technology (NIST) testing,
- b. Follow Electronic Biometric Transmission Specification (EBTS) standards and conform to all American National Standards Institute (ANSI)/NIST and the County's specific standards, and
- c. Provide to the County a perpetual, irrevocable, non-exclusive license to use the system software, which includes all software updates and major version releases.

4.0 INFORMATION REQUESTED

This RFI is a research document only. Vendors who may have an interest in providing a complete System are encouraged to complete Attachment A (Automated Biometric Identification System Functional Requirements Checklist) to this RFI and submit relevant information about their product and services. Responses should contain the following information, as appropriate:

4.1 Description of Service

Respondents must provide detailed user and technical documentation that is descriptive of the functions provided by the System with a focus on the specific functional areas identified in Paragraph 3.0 (System Overview and Requirements) above. A follow-up demonstration of the System may be requested by LACRIS, as further described in Paragraph 6.4 (Additional Respondent Information) below.

4.2 Description of Technical Architecture

Respondents must provide information about the software and the environment which will support the System, including but not limited to, the following:

- a. Hardware requirements (if any),
- b. Operating system/software environment,
- c. Network requirements and protocols,
- d. Database environment,
- e. Storage requirements,
- f. Description of access requirements,
- g. Description of security and auditing features,
- h. Anti-virus protection protocols, and
- i. Delivery modalities (e.g., on-premises, Vendor-hosted, cloud-hosted, SaaS, etc.)

4.3 Description of Estimated Implementation Project Timeline

Respondents must provide an estimated ABIS Implementation Project Timeline including, at minimum, timelines for:

- a. Project discovery phase,
- b. Hardware and software installation, and establishing System environments,
- c. Development,
- d. Unit integration system, user acceptance, and performance testing,
- e. Completion of legacy MBIS data migration to Vendor's database,
- f. Training,
- g. Production cutover, and
- h. Vendor and County responsibilities.

4.4 Description of Artificial Intelligence (AI) Product and Roadmap

Respondents are asked to provide information on the following:

- a. **AI Capabilities:** Describe any existing AI-related capabilities in your current System.
- b. **AI Roadmap:** Describe your company's roadmap for integrating AI technologies into your System, if any.
- c. **AI Benefits:** Explain how you envision AI benefiting the System, either immediately or in the foreseeable future.

4.5 Description of Product Support and Maintenance

Respondents are asked to provide information on the following:

- a. Manuals,
- b. On-line resource for frequently asked questions (FAQs)
- c. Training (on-site/virtual),
- d. Help desk operations including staffing and hours of availability,
- e. Frequency of System upgrades, firmware patching, and
- f. User feedback procedures.

4.6 Estimated Costs

Respondents are asked to provide cost estimates for the COTS system. Any cost estimates for the purpose of this RFI are considered for research purposes only and are non-binding to either Respondent or the County.

Specific Department environment information cannot be made available to Vendor. Costs can be estimated, but only in general terms, as it applies to a typical standard COTS solution. Respondent's complete cost estimate will need to be general in nature and take into consideration the following:

- a. COTS cost,
- b. Recommended hardware specifications, as applicable,
- c. Recurring hardware and software licensing, as applicable,

- d. Non-recurring hardware and software licensing, as applicable,
- e. Implementation (e.g., configuration, customization, interfaces, as applicable),
- f. Training,
- g. Ongoing maintenance support, and
- h. Other costs not considered above.

4.7 Corporate information and references

Respondents are asked to provide the following information regarding Vendor experience, solution documentation, and LE references:

- a. Corporate or company name and headquarters' address,
- b. Address/other contact information of nearest corporate or company office to downtown Los Angeles, California,
- c. Number of years in business,
- d. Number of current public safety/LE installations,
- e. Number of years Vendor's COTS product has been in production,
- f. Total number of employees,
- g. Number of staff based in Southern California, and
- h. High level solution documentation identifying and describing Vendor's System, its modules, functionality, and training requirements.

5.0 RESPONSE METHOD AND TIME FRAME

5.1 All questions regarding this RFI must be emailed to:

Attention: Sergeant Stephen Bevan

Email: ssbevan@lasd.org

5.2 Responses to this RFI must be labeled:

“Response to RFI No. 729-SH AUTOMATED BIOMETRIC IDENTIFICATION SYSTEM (ABIS)”

and be addressed to:

Los Angeles County Sheriff's Department
Data Systems Bureau
12440 E. Imperial Hwy Suite, 400-W
Norwalk, California 90650
Attention: Sergeant Stephen Bevan

5.3 Responses to this RFI will be accepted in person, by private messenger, delivery service, or the United States Postal Service (USPS), no later than **September 29, 2023 by 3:00 p.m. (Pacific Time)** at the address listed above. **(Email responses will not be accepted).**

5.4 Respondents must provide three identical hard copies, and two separate identical copies in searchable PDF format on flash drives of their response.

- 5.5 Respondents are requested to respond to each item in this RFI including Attachment A (Automated Biometric Identification System Functional Requirements Checklist).
- 5.6 The Department encourages all potential Vendors to submit a response consistent with the content and the instructions provided herein.
- 5.7 Responses to this RFI after the submission deadline may be accepted at the sole convenience and discretion of the County.
- 5.8 Not responding to this RFI will not impact your ability in the future to respond to any subsequent solicitation issued by the County on behalf of the Department.

6.0 ADDITIONAL RESPONDENT INFORMATION

- 6.1 Responses to this RFI will 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 requests, with the exception of those parts of each submission which meet the definition of “Trade Secret” and are plainly marked as “Trade Secret” or “Proprietary”.
- 6.2 The County will 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 will 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.
- 6.3 The Department will review the responses to this RFI which may subsequently lead to further research and analysis. **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 other County method for solicitation of services. Respondents to this RFI will be notified by the County of a future solicitation.
- 6.4 Respondents to this RFI may be invited by the Department to a Respondents’ conference for the purpose of familiarizing Respondents with Department processes and workflows. Respondents may also be invited to provide a non-competitive presentation/demonstration of their products. The product presentation/demonstration is intended for information gathering purposes only. **Presentations/demonstrations may be conducted on-site or via video conferencing platform. Such presentation/demonstration should generally not exceed eight hours**

in length. The date(s), length, and times will be coordinated between the Respondent and the contact person identified in Paragraph 5.1 of this RFI.