State Automated Biometric/Fingerprint Identification Systems

Request for Information

Statement of Need

This request for information will outline several areas of technology and business needs that have emerged or are emerging at State Identification Bureau (SIB) agencies, and seeks responses from AFIS/ABIS system providers on how these needs can be addressed. Generally, providers of Automated Biometric Identification Systems (ABIS) or Automated Fingerprint Identification Systems (AFIS) have provided “black box” turnkey solutions, and the industry has driven design, architecture, and implementation decisions related to these systems. Since these systems are integral to core processes within the criminal justice community, and demands on SIBs for service related to ABIS/AFIS have and will continue to increase, there is a growing need for SIBs to address several areas of concern. These include:

- A growing need for interoperability and information sharing, directly between states and within states between different domains of governance (such as health and human services), utilizing recognized standards such as ANSI NIST-ITL and Electronic Biometric Transmission Specification (EBTS);
- Demands for compliance with security standards, including governance, policy and best practices; and
- A growing need for flexibility with and direct control of business process management by the SIB without reliance on industry.

Background

In discussion and consultation with industry groups, state representatives, local agency representatives, and other stakeholders, those states and organizations supporting this request for information wish to gain clarity on the capabilities within the ABIS/AFIS industry to support these collective needs. The following list of States and Organizations will receive copies of responses to this RFI as supporting and interested parties.

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<thead>
<tr>
<th>Arizona Department of Public Safety</th>
<th>Lt. Col. Timothy Chung</th>
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<tr>
<td>Florida Department of Law Enforcement</td>
<td>Charles Schaeffer</td>
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<td>IJIS Institute</td>
<td>Ashwini Jarral, Maria Cardiellos</td>
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<td>Kansas Bureau of Investigation</td>
<td>Leslie Moore, Joe Mandala</td>
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<td>Nlets</td>
<td>Frank Minice</td>
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<td>Texas Department of Public Safety</td>
<td>Mike Lesko</td>
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Respondent Qualifications

Respondents should be capable of providing national-level, state-level or major metropolitan criminal justice ABIS/AFIS solutions. It is preferable that respondents have current or recent experience in providing such solutions for State Identification Bureaus. Respondents should have a current and continuing business plan which includes providing ABIS/AFIS solutions to State Identification Bureaus or major metropolitan criminal justice agencies.
Information Requested

The following information is requested from each respondent. For each response, please provide the following information:

- Whether the capability or compliance with standards in each section below for each numbered item is provided in current offerings (provide specific detail);
- If provided in current offerings, whether it is standard or requires additional investment/charge (provide detail);
- If provided in current offerings, a description of how the capability is provided;
- If not provided in current offerings, whether it could be with additional custom work (provide order of magnitude level of effort, such as “low,” “moderate,” or “significant” effort);
- If not provided in current offerings, whether it is currently within your company’s strategic plan to include it as a capability and by when.

A. Interoperability & Information Sharing
1. Capability to send, receive, and respond to latent fingerprint queries to other AFIS provider systems in a non-proprietary standard format (such as the Electronic Biometric Transmission Specifications developed by the FBI).
2. Capability to send, receive, and respond to identification queries (rapid ID/2-finger, palm, 10-print/full) to other AFIS provider systems in a non-proprietary format (such as the Electronic Biometric Transmission Specifications developed by the FBI).
3. Capability to send, receive, and respond to photo image and iris queries to other ABIS provider systems in a non-proprietary format.
4. Capability to manage/control the numbers of queries and/or responses to any/all queries from other ABIS/AFIS systems (including those of other providers).
5. Compliance with NIST 500-290e3 (2015) for the exchange of biometric data; please include both a listing of all record Types supported under this standard, as well as which NIEM version is supported under this standard.
6. Capability to specifically support the following under the ANSI NIST-ITL (500-290e3) standard for the interchange of biometric information:
   a. Capability of sending and receiving Type-9 minutiae data in standard format such as the INCITS 378 feature set (8.9.5)
   b. Support for NFIQ (NIST Fingerprint Image Quality) metric standards within the interoperability exchange
   c. Extended Feature Set (EFS) – 8.9.7, Annex F

B. Security
1. Capability to receive federated identity tokens (such as SAML or OpenID/OAuth) for the purposes of authentication and authorization from all connected systems (Livescans, Mobile Ident, Iris Scan, Latent/Ident Workstations, partner AFIS systems, etc.)
2. Capability to consume attributes from federated identity tokens to assign role-based authorization to system and information access.
3. Capability to integrate with existing standard multifactor authentication (MFA) methods and providers (such as RADIUS) for directly connected systems (Livescans, Mobile Ident, Iris Scan, Latent/Ident Workstations, etc.)
4. What recognized security and data privacy standards your ABIS/AFIS system complies with, and to what degree (for example, able to comply with >~60% of NIST 800-53 security and privacy controls at the moderate baseline)

C. Business Process Management
1. Capability to provide role-based customer-controlled configuration and modification of workflows.
2. Capability to provide role-based customer-driven modifications to state (or customer) extensions of the ANSI NIST-ITL map for all types of transactions (particularly those involving type-2 records) without requiring provider intervention.
3. Capability to allow role-based customer definition and addition of new types of transactions (ToT) and related workflows.

D. Open Comments
Please feel free to respond, in this section, with open comments regarding your ability to conform overall to the business and technical needs expressed in this RFI.

Responses
Responses to this RFI should be delivered no later than 29 May, 2020.

Responses should be delivered in standard PDF format.

Responses should be delivered to: Toni.Roberts@kbi.ks.gov

Response receipt can be confirmed by calling (785) 296-8258. Please note that due to the current Coronavirus pandemic, phone response may be delayed and email to the above address may be more expedient.