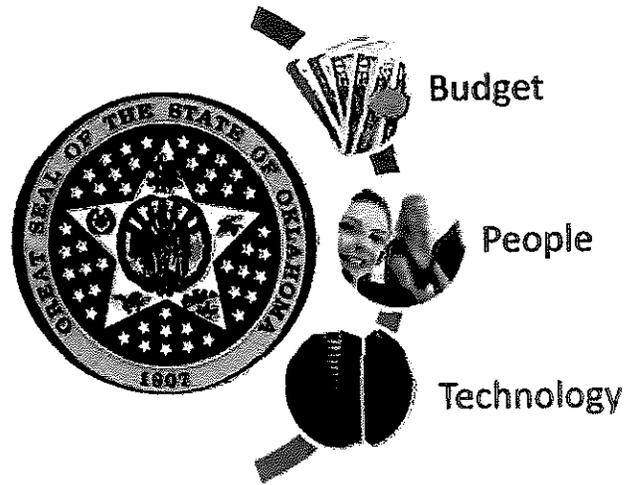


AFIS Project

High Level Plan



Oklahoma State Bureau of Investigation
AFIS Interface Control Document
Public Safety Business Segment

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Project Notes:

Plan to define interface between the State's Automated Fingerprint based Identification System (AFIS) and the City of Oklahoma City's AFIS for mutual access and biometric search capability.

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EXECUTIVE SUMMARY

The Oklahoma State Bureau of Investigation (OSBI) provides the repository of criminal history data for the state. The criminal history data is supported by a Finger print based Identification System (AFIS) to provide the positive identification of criminals for processing and storing criminal and civilian data on the state's repository. Furthermore, the AFIS system supports criminal cases by providing latent print search capability to solve crimes against a high quality finger and palm print data. At this time the State is looking to upgrade/replace this current 2nd generation AFIS with a robust and more accurate technology to provide the services outlined above.

It is the intent of the State Bureau of Investigation to provide services from the statewide database services that can assist Oklahoma City Police Department by providing distinct interface to the current AFIS that is maintained by the police department. This interface control document will define the scope and the distinct services that could be optionally implemented during the upgrade of the state's system.

The benefits that could be achieved after implementation of services are expected to enhance the missions of both entities and overall benefit the citizens of Oklahoma.

PROJECT SCOPE

The scope of this interface is limited to the following controlled services:

1. Ten Print forward Search of non-serious offenses for the purposes of identification only. These will be search and delete transactions which will be service at a controlled priority from both systems.
2. Latent Print Search with capability to retain on each database on controlled basis.
3. Palm latent Search with capability to retain on each database on controlled basis.
4. Reverse search hits from retained latent prints to be returned to the case owner's AFIS.

Service Implementation Specification:

The vendor shall implement a configurable interface to provide the services outlined above. The state and city will provision the network connection and security for the interface. The vendor's shall submit a detail transaction workflow for review and evaluation by the City's and State's technical teams. The detail functional requirements are listed in the functional requirements section below. The transaction types (TOT) are also listed in table 1.0.

The interface shall support NIST compliant 10 print transactions that are also compliant to the state's NIST Type-2 requirements. Both latent and ten print transactions will support image based searches, however the latent and palm print based searches shall support submission of image and minutia together. Both systems shall validate the transactions submitted for completeness and compliance to the NIST standard.

Selected Vendor must insure OCPD current functionality is maintained.

FUNCTIONAL REQUIREMENTS

This section defines the functional details for each transaction specified in the scope.

Table 1.0.

#	TOT	Description
1	TPN	Ten print identification search non keeper for non-serious offenses only
2	LPO	Latent print search submission with minutia and image
3	PPO	Palm latent print search submission with minutia and image
4	LPOK	Latent print search submission with minutia and image retainable
5	PPOK	Palm latent print search submission with minutia and image retainable
6	LPF	Latent print search submission to NGI with minutia and image retainable
7	PPF	Palm latent print search submission to NGI with minutia and image retainable
8	LTR	Reverse search hits

10 Print search workflow narrative:

1. The 10 print record that is NIST compliant is captured and registered in to the OCPD AFIS.
2. Identification need is confirmed, offense is verified that it is a non-serious offense by submitter of the search.
3. TPN transaction is selected, and the NIST compliant file is assembled with all of the record types enclosed for submission to the State AFIS.
4. TPN transaction is created with TCN from the OCPD AFIS.
5. The TPN search is submitted to the state AFIS for Identification via secure SMTP.
6. The State DES accepts transaction and assigns state TCN and stores the OCPD TCN in the type-1 record.
7. The State AFIS validates the transaction, if errors TCN is rejected and ERRT is sent to OCPD AFIS otherwise TPN transaction is launched.
8. Hit/No hit result is sent to OCPD AFIS with both TCN's included in the Type-1 record.
9. State AFIS bursts the TPN image and performs reverse search against the State latent print database.
10. Search result verification is conducted at the State AFIS and the TPN card is discarded.
11. Transaction is closed.

Finger Latent Print search workflow narrative:

Latent print searches can be conducted from either side of the interface, State can start a latent search for both finger and palm latents and the OCPD AFIS can start finger or palm latent search as well. Both submissions will be controlled by administrator configured workflow priority and quota system.

1. Finger or palm latent print searches are entered in to a latent workstation and are prepared for submission by latent examiner.
2. Finger or palm latent print searches are selected for submission and submission sequence is selected by latent print examiner. Choices will be State only, State and OCPD AFIS or State, OCPD-AFIS and FBI.
3. AFIS system shall prepare search package with both image and minutia when submitting to State, OCPD AFIS and NGI and select the appropriate TOT for the selection.
4. Based on TOT selected the initiating AFIS shall assign TCN and create a NIST file with all the necessary types included and submit it to the receiving destination AFIS via SMTP.
5. Destination (State or OCPD) AFIS data exchange service shall validate the transaction and assign TCN and shall store the TCN from the submitting AFIS as well.
6. Based on TOT submitted the destination AFIS shall process the transaction and conduct the search.
7. Based on the TOT return the search results with up to top 10 respondents to the submitting AFIS for verification.
8. If no hits were selected then a retain latent print message (RLT) is sent from the submitting AFIS and the latent print is added to the destination latent print database and the case number is returned to the submitting AFIS.
9. Reverse search hits from the retained latent print shall be queued up and sent to the submitting AFIS for verification.
10. The submitting AFIS shall present the results to the submitting latent examiner queue for processing.
11. For reverse search results the TCN is closed after submitting the results to the submitting agency.

Infrastructure and Network Control:

1. Network connection sufficient to support the AFIS transactions shall be provisioned by the State and the city of Oklahoma City. The network connection shall be secured to meet and exceed CJIS security standard and enforced by the State and the city of Oklahoma City.
2. The size and availability of the network provisioning shall be determined after the design of the interface is completed.
3. The network once implemented, it shall be used to process AFIS transactions including 2- finger, Facial and the outlined ten print and latent print transactions.
4. The network access control shall be governed and monitored by the state and Oklahoma City's technical personnel following the CJIS security policy.
5. Infrastructure and Network Control will have to be addressed through the City and OCPD Information and Technology departments.

PEOPLE

While majority of the functional specification will be developed and implemented by vendors, this will involve State and Oklahoma City technical support personnel for implementation and sustained maintenance of the services over the life of the AFIS systems.

GAP ANALYSIS

This section documents/Identifies any known logistical or otherwise gaps that need to be considered that may have impact on current services or future capabilities.

Issue	Resolution

CONTACT INFORMATION (OMES, OSBI, OCPD)

OMES/OSBI/ IT CONTACTS		
Name	Title	Contact Information
	Biometric Systems Manager	
	IT Services Manager	
	IT Director for State Public Safety	

OCPD IT Contacts		
Name	Title	Contact Information
	OCPD Identification Unit Supervisor	

EXECUTION SIGNOFF

SIGNATURES OF REVIEWERS OCPD/OSBI			
Name	Title	Signature	Date
	Director, OSBI		1-7-16
	IT Director for State Public Safety		1/8/16
	OSBI Information Services Division Director		1-7-16
	OCPD AFIS Services Manager		1-6-16
	Oklahoma City Police Department Deputy Chief		1-6-16

O.C.P.D. AGREES w/ THE TECHNICAL SPECS OF THE DOCUMENT & THE SCOPE OF THE PROJECT w/ UNDERSTANDING NO FUNDS ARE BEING COMMITTED TOWARDS THIS PROJECT AT THIS TIME.

APPENDIX A – GLOSSARY

Item	Description
AFIS	Automated Fingerprint based Identification System
OCPD	Oklahoma City Police Department
OCSO	Oklahoma County Sheriff's Office
TOT	Type of Transaction
TCN	Transaction Control Number
NIST	National Institute of Standards and Technology
Type-1	NIST record type that defines transactional characteristics in the NIST standard for exchange of fingerprint data
Type-2	NIST record type that specifies State defined descriptor data as part of the NIST standard for exchange of fingerprint data
CJIS	Criminal Justice Information Systems