

Janice K. Brewer
Governor



Brian C. McNeil
Director

ARIZONA DEPARTMENT OF ADMINISTRATION

OFFICE OF THE DIRECTOR

100 NORTH FIFTEENTH AVENUE • SUITE 401
PHOENIX, ARIZONA 85007

(602) 542-1500

May 13, 2014

Colonel Robert C. Halliday, Director
Arizona Department of Public Safety
2102 West Encanto Blvd.
Phoenix, AZ 85005

Dear Robert:

In response to the Project Investment Justification (PIJ) for the “**AZAFIS Upgrade - MorphoBIS**” project, my staff has reviewed your proposal to upgrade the current Arizona Automated Fingerprint Identification System (AZAFIS).

The PIJ implies funding is available from the appropriated AZAFIS and Highway Patrol Funds in the amount of \$8,060.7 thousand and \$840.9 thousand respectively, and from the non-appropriated Fingerprint Clearance Card, Records Processing, and Department of Public Safety Licensing Funds in the amount of \$1,569.7 thousand, \$1,541.7 thousand, and \$252.3 thousand respectively, for the total five-year life cycle cost for the project of \$12,265.2 thousand.

This is notification of Arizona Strategic Enterprise Technology Office's recommendation to the Information Technology Authorization Committee (ITAC) for **Approval with Conditions** of the technology project as follows:

1. As a result of the final procurement, implementation or integration efforts, should there be significant differences in the scope of work, costs, implementation schedule or proposed technology, AZDPS must amend the PIJ to reflect the changes and submit it to ADOA-ASET, and to the Information Technology Authorization Committee (ITAC) if necessary, for review and approval prior to further expenditure of funds.

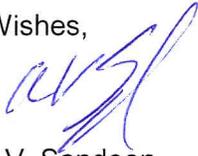
The ITAC is scheduled to meet on May 27, 2014 to review this project. Should the ITAC approve the project, you may then proceed to secure additional approvals as required from the Joint Legislative Budget Committee, the Office of Strategic Planning and Budgeting, and the State Procurement Office.

Colonel Robert C. Halliday

May 13, 2014

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Best Wishes,



Aaron V. Sandeen

State CIO and Deputy Director

Arizona Strategic Enterprise Technology (ASET) Office

jr

cc: Michele Johnson, AZDPS
Captain Raymond Butler, AZDPS
Gregg Hayes, AZDPS
Ben Henderson, JLBC
John Arnold, OSPB
Barbara Corella, SPO
Tim Guerriero, ADOA-ASET
Mike Lettman, ADOA-ASET
Phil Manfredi, ADOA-ASET
Susan Quinn, ADOA-ASET
Joyce Raschiatore, ADOA-ASET

ASET# PS14002

Analyst: Joyce Raschiatore

PIJ Summary - ASET

Project Number: PS14002

<i>Agency Name & Address</i>	<i>Contact Information</i>
Arizona Department of Public Safety 2102 W. Encanto Blvd. Phoenix, Arizona 85007	Captain Raymond Butler 602-228-2783 rbutler@azdps.gov
<i>Project and Investment Justification Name</i>	<i>Date Submitted</i>
AZAFIS Upgrade – MorphoBIS	May 2, 2014

Project Overview

Problem Description

In accordance with Arizona Revised Statute §41-1750A.11, the Arizona Department of Public Safety (AZDPS) Fingerprint Identification Bureau operates the Arizona Automated Fingerprint Identification System (AZAFIS) in support of AZDPS and other agencies throughout the State. Fingerprint records that are searched through this shared statewide computerized system come from a variety of sources, including arrestees booked into jails, criminal suspects, registered sex offenders, adjudicated juvenile offenders, deceased persons, civil offenders, employment and licensing applicants, the Arizona Department of Corrections and other sources.

The current MetaMorpho AZAFIS system was initially acquired by AZDPS and implemented in 1995, and was upgraded in 2001 and again in 2007. AZDPS has had a long standing sole source contract with Morpho, Inc., which provided all three prior versions. AZDPS has identified a number of issues associated with the current version of AZAFIS, which include:

- The system does not comply with the Federal Bureau of Investigation (FBI) Next Generation Identification (NGI) program, which is currently being phased in with an expected completion date in 2014.
- The system lacks the capability to produce reports of various transactions, including record consolidations, deletions, or modifications.
- The system lacks the ability to conduct third party record validations, which permits clerical errors that result in inaccurate identification information being forwarded to the Arizona Computerized Criminal History System (ACCH) and the FBI.
- The MetaMorpho reporting system (MorphoView), which is used to review fingerprint records with incomplete or questioned data, will only report detailed fingerprint processing information for up to three months, which is not sufficient to ensure accurate and complete fingerprint record processing.
- The system record consolidation process will not meet the new FBI National Fingerprint File timeline requirements.
- The system requires examiners to search multiple databases to obtain adequate prints for comparison.
- The system does not store Major Case fingerprints or Palm Prints.

To ensure AZAFIS continues to provide required and expected services to its criminal justice and non-criminal justice customers, the system must be regularly updated and expanded to include the most current technology available.

Solution

AZDPS is proposing to acquire a new version of AZAFIS software, called MorphoBIS, offered by the same vendor, now known as Safran MorphoTrak. MorphoBIS is considered to be the latest in biometric identification technology, with enhancements that include:

- Compliance with the FBI NGI program that further advances biometric identification services, including enhanced functionality to support multimodal biometrics, e.g. incorporating facial recognition in addition to fingerprints.
- Enhanced latent case management, with the ability to process latent fingerprints independently and to encode a latent fingerprint once for use by multiple agencies.
- The latest FBI algorithms with improved accuracy and throughput.
- Service oriented architecture, allowing feature upgrades to be “plugged in,” thereby avoiding additional programming costs when features are added to the system.
- Improved efficiency through web-based applications that allow operators to move between tasks.
- Ability to store Major Case fingerprints and Palm Prints in the system.
- Increased throughput and database capacity to support the 1.33 percent annual growth rate that AZDPS is projecting for the next six years.

The system will continue to be physically housed at AZDPS and managed by the Morpho Customer Service Engineers that reside on-site, and will utilize the existing AZDPS managed AZAFIS network. The proposed solution will support current AZDPS workflows, as well as internal and external interfaces with ACCH, the FBI Integrated Fingerprint Identification System (IAFIS), and multiple Records Management Systems (RMS) used by Arizona law enforcement agencies, thereby saving on additional/new programming costs. The ability to support existing external AZAFIS equipment interfaces will avoid additional hardware cost for AZAFIS users that have already invested considerable funds into Morpho LiveScan and two-finger identification mobile fingerprinting devices and associated equipment. The proposed solution will comply with current FBI Criminal Justice Information System (CJIS) Security Policy as well as Federal Information Processing Standards (FIPS) 140-2 standards designed to protect Personally Identifiable Information (PII) and criminal justice data.

Major Deliverables and Outcomes

The proposed upgrade to the current version of MorphoTrak will provide the latest in biometric technology enhancements, including the MorphoFace Investigate (MFI) and Morpho Lite Face Examiner (LFE) Facial Recognition components. The MorphoBIS product is comprised of front end workstations running 64-bit Microsoft Windows 7 software, with backend servers running Oracle/Linux 6.4 that are used for matching applications and data exchange. The proposed solution includes the MorphoBIS product components and required Oracle and server software, which will be acquired through SHI, with whom Morpho is partnering for software licensing and services. The upgrade also includes new server, Storage Area Network (SAN), and backup equipment, which will be acquired through the current Morpho contract. The proposed solution includes the purchase of 63 new AZAFIS workstations, with required scanners and software. Of those, 16 will be allocated to AZDPS, with the remaining 47 to be deployed to 12 other Arizona law enforcement AZAFIS user agencies. While a one-year warranty is included, AZDPS will incur annual License & Maintenance fees for the vendor to continue to provide ongoing operational support.

As with all previous version upgrades, significant customizations will be made to the system to meet Arizona specific needs. Professional & Outside Services to be acquired through the current Morpho contract include requirements gathering, systems engineering and integration for new components, as well as program management, installation, testing, user documentation and Train the Trainer sessions. To provide real-time access to the full range of AZAFIS image-based identification tools and functionalities, the existing 169 LiveScan workstations and 63 new

AZAFIS search/verification workstations will be integrated into the same AZDPS network and security environment, with AZAFIS user agencies connected via the statewide AZAFIS frame relay system. The network complies with the FBI and Arizona internet protocol security standards, with data transmitted on secure internet circuits or State of Arizona contracted leased lines, and meets all security specifications set forth in the FBI CJIS Security Policy.

Major milestones for the project include a system design review, factory and site acceptance testing, migration to the new system, and training. The new system will also replace the existing AZDPS Optical Print and Photo Image Subsystem (OPPIS) archival system, which was a separate component of the legacy MetaMorpho system. Once fingerprints stored in OPPIS are migrated to the new system, the OPPIS will be sunset. AZDPS is also planning to re-purpose or surplus the legacy infrastructure on which the current version of the Morpho system is running.

Benefits

The project will allow AZDPS to upgrade the existing seven-year old biometric fingerprint system with the most current biometric technology. This will enable AZDPS to continue providing mandated services to all of Arizona law enforcement and criminal justice agencies, as well as the citizens of Arizona, and will ensure that Arizona is able to comply with the FBI NGI program. The upgrade to MorphoBIS will provide the latest fingerprint matching algorithms, which will increase system accuracy. The upgrade is also expected to streamline the workflow for existing workstations statewide, and eliminate the current interface between the AZAFIS and the National Institute of Standards and Technology (NIST) Archive, which will resolve existing synchronization issues. The additional throughput and database capacity will allow AZDPS to avoid the need to purchase additional storage for latent fingerprints that the current system no longer has the capacity to house.

Project Management

The AZDPS IT Project Manager will work with the AZAFIS Operational Project Manager and the vendor’s assigned Project Manager to implement the version upgrade and migrate existing data and devices to the new system.

Enterprise Architecture

Compliant.

Summary of Proposed Costs

<i>All Figures in Thousands (\$000)</i>						
<i>Cost Description</i>	<i>2015</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>Total</i>
Development Costs	6,165.9	0.0	0.0	0.0	0.0	6,165.9
Operational Costs	0.0	1,415.1	1,485.9	1,560.2	1,638.2	6,099.3
Total Project Costs	6,165.9	1,415.1	1,485.9	1,560.2	1,638.2	12,265.2

Recommendation: Approval with Conditions

1. As a result of the final procurement, implementation or integration efforts, should there be significant differences in the scope of work, costs, implementation schedule or proposed technology, AZDPS must amend the PIJ to reflect the changes and submit it to ADOA-ASET, and to the Information Technology Authorization Committee (ITAC) if necessary, for review and approval prior to further expenditure of funds.