



ADOA - ASET

Arizona Strategic Enterprise Technology

Project Investment Justification

Version 01.01

A Statewide Standard Document for Information Technology Projects

Project Title:

Computer Forensic Hardware Refresh

Agency Name:	Arizona Department of Public Safety
Date:	January 8, 2015
Agency Contact Name:	Tim Mason
Agency Contact Phone:	
Agency Contact Email:	

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I. Management Summary*

The purpose of this project is to replace hardware in the DPS Computer Forensic Unit (CFU) that is aging and realizing failures. Moreover, the new hardware needed allows expedited processing for ongoing criminal cases such as homicides and child pornography.

II. Project Investment Justification (PIJ) Type*

Yes No Is this document being provided for a Pre-PIJ / Assessment phase?

If Yes,

Identify any cost to be incurred during the Assessment phase.	\$
Based on research done to date, provide a high-level estimate or range of development costs anticipated for the full PIJ.	\$

Explain:

[Click here to enter text.](#)

Yes No Will a Request for Proposal (RFP) be issued as part of the Pre-PIJ or PIJ?

III. Business Case

A. **Business Problem***

With cyber-crime on the rise, and the increased crimes involving digital media, the need to quickly examine digital items of evidence is of utmost importance. The aging equipment, currently being used by the CFU, is hindering this effort. As digital media sizes increase, so does the need for greater processing power. The processors and memory in the CFUs aging equipment cannot keep up with the processing needs of today's cases. This is compounded by the threat of imminent equipment failures on these systems, which are out of warranty. The CFU has identified 15 of these aging devices that need to be replaced.

B. **Proposed Business Solution***

The CFU has identified the systems which contain the necessary processing power to support the needs of today's computer forensic investigations. In order to maintain or exceed the current processing requirements of today's cases, we need to replace the identified aging systems before they fail. The new systems will contain faster CPUs and RAM memory than the current systems being used. This will help support the processing needs of computer forensic cases for years to come.

C. **Quantified Benefits***

- Service enhancement
- Increased revenue
- Cost reduction
- Problem avoidance
- Risk avoidance

Explain:

The equipment being replaced is old and relatively slow. Most of these aging systems are not even 64-bit capable. Faster CPUs, more RAM memory, faster RAM memory, and 64-bit processor support will provide numerous benefits. These new systems will allow for faster processing time on cases, the ability to support larger data sets, and the ability to use newer and more advanced software.

IV. Technology Approach

A. *Proposed Technology Solution**

DPS plans to purchase the following hardware and accompanying software:

- 15 Custom Forensic Computers assembled by TPI with the following specifications - Intel Core i7 Extreme processors, 32 GB of Ram, five 512 GB solid state drives (one operating system drive and four RAID drives), Asus 2 GB video Card, and running Windows 7 Ultimate with 27" monitor.

Each Desktop computer will be installed with OEM Microsoft Windows 7 as the Operating system. Other standard software installations such as EnCase Forensic, FTK Toolkit, Internet Evidence Finder, Symantec Endpoint Protection, etc. will be installed and licenses transferred from the old computer to the new replacement.

B. *Technology Environment*

The computers to be replaced as a result of this project were purchased between June 2003 and April 2009. The hardware is old and slow. Numerous equipment failures have already been realized which has left like technology unusable. Future failures are imminent without replacement.

C. *Selection Process*

The manner in which forensic examinations are completed requires computers that have a large amount of memory, processing power, data read and write speeds, and data storage space. The processing power and data storage space required for examinations can be accomplished through the use of the requested computers. Other vendors have been used in the past to supply these types of specialized computers and we have seen numerous failures. TPI has supplied these computers with great success in the past. DPS is in the processes of completing a Contract Action Request with TPI and DPS has completed a "Not Practicable to Quote" based upon the reasons outlined in this PIJ. An off the shelf computer on state contract will not allow for multiple hard drives to be configured in a RAID. Moreover, the software required to complete forensic examinations lists minimum specifications that far exceed an off the shelf state contracted computer.

V. Project Approach

A. Project Schedule*

Project Start Date: 5/30/2014 Project End Date: 11/30/2016

B. Project Milestones

*** RICO funding has been established to pay for this project. It is anticipated that 30-45 days will be required to have the new computers purchased and operational. There is no configuration task needed between order and deployment.

Major Milestones	Start Date	Finish Date
1 st Equipment Order	01/1/15	
Deployment	02/1/11	2/1/15

VI. Roles and Responsibilities

A. Project Roles and Responsibilities

Project Manager – Tim Mason
Configuration, Testing, Deployment – AZ DPS CFU

B. Project Manager Certification

- Project Management Professional (PMP) Certified
- State of Arizona Certified
- Project Management Certification not required

C. Full-Time Employee (FTE) Project Hours

Total Full-Time Employee Hours	40 hours
Total Full-Time Employee Cost	\$1400.00

VII. Risk Matrix, Areas of Impact, Itemized List, PIJ Financials

VIII. Project Approvals

A. Agency CIO Review*

Key Management Information	Yes	No
1. Is this project for a mission-critical application system?	X	
2. Is this project referenced in your agency's Strategic IT Plan?	X	
3. Is this project in compliance with all agency and State standards and policies for network, security, platform, software/application, and/or data/information as defined in http://aset.azdoa.gov/security/policies-standards-and-procedures , and applicable to this project? If NO , explain in detail in the "XI. Additional Information" section below.	X	
4. Will this project transmit, store, or process sensitive, confidential or Personally Identifiable Information (PII) data? If YES , in the "XI. Additional Information" section below, describe what security controls are being put in place to protect the data.	X	
5. Is this project in compliance with the Arizona Revised Statutes (A.R.S.) and GRRC rules?	X	
6. Is this project in compliance with the statewide policy regarding the accessibility to equipment and information technology for citizens with disabilities?	X	

B. Project Values*

The following table should be populated with summary information from other sections of the PIJ.

Description	Section	Number or Cost
Assessment Cost (if applicable for Pre-PIJ)	II. PIJ Type - Pre-PIJ Assessment Cost	\$0.00
Total Development Cost	VII. PIJ Financials tab	\$73,836.10
Total Project Cost	VII. PIJ Financials tab	\$73,836.10
FTE Hours	VI. Roles and Responsibilities	40

C. Agency Approvals*

Contact	Printed Name	Signature	Email and Phone
Project Manager:	Tim Mason		
Agency Information Security Officer:	Roger Baune		
Agency CIO:	Gregg Hayes		
Project Sponsor:	Mike Orose		

IX. Optional Attachments

A. Vendor Quotes

X. Glossary

CFU Forensic Computers.

XI. Additional Information

Attached are quote for the following equipment:

15 CFU Computers

Security Controls:

Devices are members of an Active Directory Domain which requires a valid username and password to login to the system. Any system connecting remotely to the Arizona Department of Public Safety requires multiple factor authentication (certificate, RSA token, valid domain username/password). Furthermore each desktops will receive important/critical operating system patches and will be protected by Symantec Endpoint Protection for antivirus.

Links:

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