

CJIS Applications conversion from Mainframe to Open System	
Agency Requesting The Project:	
Public Safety Department	
Business Unit Requesting The Project:	
Information Technology Bureau	
Sponsor Of the Project:	
Mr. Gregg Hayes	
Sponsor Title:	
Information Technology Manager	
Sponsor Phone Number:	Extension:
602-223-2852	
Sponsor Email Address:	
ghayes@azdps.gov	

Has a Project Request been completed for this PIJ?	N
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<p>What is the operational issue or business need that the Agency is trying to solve? (i.e. ...current process is manual, which increases resource time/costs to the State/Agency, and leads to errors...)</p>	
<p>The Arizona Department of Public Safety (AZDPS) is responsible for the effective operation of the central state repository in order to collect, store and disseminate complete and accurate Arizona Criminal History records and related criminal justice information as mandated by Arizona Revised Statute, A.R.S. 41-1750. Since the existing coding of the CJIS applications utilizes old programming languages and technologies, AZDPS is currently at risk for state-wide failure to the law enforcement and criminal justice agencies we support. In addition to the multiphased project to replace an old mainframe Message Switch (already approved and underway), the Arizona Department of Public Safety will need to move remaining Criminal Justice Applications (Hot Files, e.g., Wanted Persons & Stolen Vehicles, and Criminal History Files) from the existing mainframe to the new open system. Archaic applications, databases and languages will be transitioned to new, easily supported systems running on windows and AIX. This will allow for a more flexible environment for future support and future applications, and will allow for the hiring of developers with modern system skills.</p>	

<p>How will solving this issue or addressing this need benefit the State or the Agency?</p>	
<p>Moving the Hot File and Criminal History applications to an open system will allow AZDPS to utilize a COTS application and it's support staff to maintain the system; connecting other systems to this set of applications will utilize standard based interfaces and hiring on-site personnel will become easier due to the larger number of candidates with more modern programming skills. This project will also get DPS one step closer to be able to retire the existing mainframe--all CJIS components will have been migrated.</p>	

Describe the proposed solution to this business need:

The proposed solution, provided by the vendor, Computer Project of Illinois (CPI), will include software licensing, consulting, on-going maintenance and support. The purpose of this project is to move CJIS applications from the existing DPS mainframe to the new open system, in order to provide databases and applications for the Arizona Criminal Justice Information System (ACJIS) to all law enforcement and criminal justice agencies, in state and across the country.

Has the existing technology environment, into which the proposed solution will be implemented, been documented? Y

Indicate where that documentation can be found, or provide the information under separate cover before the meeting, otherwise describe below:

DPS has this on file and is managed and maintained by the DPS Information Technology Bureau.

Have the business requirements been gathered, along with any technology requirements that have been identified? Y

Please explain below why the requirements are not available:

A needs assessment must be conducted to develop a finalized scope of work for the project.

Are you submitting this as a Pre-PIJ in order to issue a Request for Proposal (RFP) to evaluate options and select a solution that meets the project requirements? N

Is the final Statement of Work (SOW) for the RFP available for review? N

Will you be completing an assessment/Pilot/RFP phase, i.e., an evaluation by a vendor, third party or your agency, of the current state, needs, and desired future state, in order to determine the cost, effort, approach (RFP or otherwise) and/or feasibility of a project before submitting the full PIJ? N

Describe the reason for completing the assessment/Pilot/RFP and the expected deliverable(s) below:

Define the requirements, develop finalized scope of work, receive quotes, project time lines, etc.

Provide the estimated cost, if any, to conduct the assessment phase and/or Pilot and/or RFP/solicitation process:

\$44,000.00

Provide the estimated start and finish date for conducting the assessment/Pilot/RFP solicitation:			
Estimated Start	08/23/16	Estimated Finish	12/30/16

Provide a projected start and finish date for implementing the final solution.			
Estimated Start	09/05/17	Estimated Finish	03/29/19

Based on research to date, provide a high-level cost estimate to implement the final solution below:	
\$7,500,000.00	

Does the project fall into one of the following categories: - hardware technology refresh/expansion, e.g., replacement/more laptops, radios, peripherals, etc.? - software version refresh/additional licenses, e.g., MS Office 2013 replacing 2010, extra software licenses needed for additional PCs?	<input type="checkbox"/> N
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Is the proposed procurement the result of an RFP solicitation process?	<input type="checkbox"/> N
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Is this project referenced in your agency's Strategic IT Plan?	<input type="checkbox"/> Y
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Does your agency have a formal project methodology in place?	<input type="checkbox"/> Y
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Describe the high level make-up and roles/responsibilities of the Agency, Vendor(s), and other third parties below: (i.e. ...agency will do...vendor will do...other third parties will do..)	
Project Management - AZDPS and CPI Configuration/customization - The bulk of the customization and configuration will be done by CPI with support by AZDPS personnel. Installation/testing - All installation will be handled by CPI. 1st level testing will be done by CPI. Acceptance testing will be handled by AZDPS personnel.	

Will a PM be assigned to manage the project, regardless of whether internal or vendor provided?	<input type="checkbox"/> Y
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If the PM is credentialed, e.g., PMP, CPM, State certification etc., please provide certification information below:	
State Certification	

Is a project plan available that reflects the estimated start date and end date of the project, and the supporting milestones for the project?	<input type="checkbox"/> Y
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Provide an estimated start and finish date for implementing the proposed solution:			
Estimated Start	09/01/16	Estimated Finish	07/30/19

How were the start and end dates determined:
Provided

Have steps needed to roll-out to all impacted parties been incorporated, e.g. communications, planned outages, deployment plan?	<input type="checkbox"/> Y
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Will any physical infrastructure improvements be required prior to the implementation of the proposed solution. e.g., building reconstruction, cabling, etc.?	<input type="checkbox"/> N
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Are there any known resource availability conflicts that could impact the project?	<input type="checkbox"/> N
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Does your schedule have dependencies on any other projects or procurements?	<input type="checkbox"/> N
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Will the implementation involve major end user view or functionality changes?	<input type="checkbox"/> Y
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Will the proposed solution result in a change to a public-facing application or system?	<input type="checkbox"/> N
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Is a detailed project budget reflecting all of the up-front/startup costs to implement the project available, e.g., hardware, initial software licenses, training, taxes, P&OS, etc.?	<input type="checkbox"/> Y
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Have the ongoing support costs for sustaining the proposed solution over a 5-year lifecycle, once the project is complete, been determined, e.g., ongoing vendor hosting costs, annual maintenance and support not acquired upfront, etc.?	<input type="checkbox"/> Y
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Have all required funding sources for the project and ongoing support costs been identified?	<input type="checkbox"/> Y
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Will the funding for this project expire on a specific date, regardless of project timelines?	<input type="checkbox"/> N
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Will the funding allocated for this project include any contingency, in the event of cost over-runs or potential changes in scope?	<input type="checkbox"/> N
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Please indicate whether a statewide enterprise solution will be used or select the primary reason for not choosing an enterprise solution:
No Statewide Enterprise Solution Available

Will the technology and all required services be acquired off existing State contract(s)?	<input type="checkbox"/> Y
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Will any software be acquired through the current State value-added reseller contract? Y

Describe how the software was selected below:
After sending out requests for information, researching and speaking with other states that have the Computer Projects of Illinois (CPI) Message Switch, DPS purchased the Open Fox Message switch and decided to use the same vendor to house and maintain the CJIS hot file and criminal history applications in order to have a cohesive system maintained by one vendor. In addition, CPI has similar systems in 30+ other states.

Does the project involve any technology that is new and/or unfamiliar to your agency, e.g., software tool never used before, virtualized server environment? N

Does your agency have experience with the vendor (if known)? Y

Does the vendor (if known) have professional experience with similar projects? Y

Does the project involve any coordination across multiple vendors? Y

Does this project require multiple system interfaces, e.g., APIs, data exchange with other external application systems/agencies or other internal systems/divisions? Y

Have any compatibility issues been identified between the proposed solution and the existing environment, e.g., upgrade to server needed before new COTS solution can be installed? N

Will a migration/conversion step be required, i.e., data extract, transformation and load? Y

Is this replacing an existing solution? Y

Indicate below when the solution being replaced was originally acquired?
The existing hot file and criminal history systems have been in place for 30+ years.

Describe the planned disposition of the existing technology below, e.g., surplus, retired, used as backup, used for another purpose:
We will retire the existing technology. Any virtual machines will be repurposed.

Describe how the agency determined the quantities reflected in the PIJ, e.g., number of hours of P&OS, disk capacity required, number of licenses, etc. for the proposed solution?

As part of the pre-PIJ for this project, AZDPS conducted extensive discovery with the vendor. P&OS hours were determined by the vendor using the scope of work. Disk capacity was based on the number of records/size of records, licenses were determined by number of users etc.,

Does the proposed solution and associated costs reflect any assumptions regarding projected growth, e.g., more users over time, increases in the amount of data to be stored over 5 years?

Y

Does the proposed solution and associated costs include failover and disaster recovery contingencies?

Y

Will the vendor need to configure the proposed solution for use by your agency?

Y

Are the costs associated with that configuration included in the PIJ financials?

Y

Will any application development or customization of the proposed solution be required for the agency to use the product in the current/planned technology environment, e.g., a COTS application that will require custom programming, an agency application that will be entirely custom developed?

Y

Will the customizations inhibit the ability to implement regular product updates, or to move to future versions?

N

Describe who will be customizing the solution below:

The vendor will be doing customizations using their own methodology.

Do the resources that will be customizing the application have experience with the technology platform being used, e.g., .NET, Java, Drupal?

Y

Please select the application development methodology that will be used:

Agile/Scrum

Provide an estimate of the amount of customized development required, e.g., 25% for a COTS application, 100% for pure custom development, and describe how that estimate was determined below:

The estimated amount of customized development for hot files is 20%. The estimated amount of customized development for criminal history files is 20%. Most of the customization is based on the Arizona Specific Laws which cover the entry and use of hot files and criminal history information.

Are any/all Professional & Outside Services costs associated with the customized development included in the PIJ financials? Y

Have you determined that this project is in compliance with all applicable statutes, regulations, policies, standards, and procedures, including those for network, security, platform, software/application, and/or data/information found at <https://aset.az.gov/resources/psp?> Y

Are there other high risk project issues that have not been identified as part of this PIJ? Y

Please explain all unidentified high risk project issues below:
Our current system is maintained by employees utilizing 30+ year old technologies, transfer of knowledge is required throughout the project. AZDPS must find ways to retain these employees throughout the life the of project.

Will the proposed solution be vendor-hosted? N

Please select from the following vendor-hosted options:
Vendor Hosted

Has the agency been able to confirm the long-term viability of the vendor-hosted environment? Y

Has a Conceptual Design / Network Diagram been provided and reviewed by ASET-SPR? N

Will the proposed solution be hosted on-premise in a state agency? Y

Where will the on-premise solution be located:
Agency's Data Center

Were vendor-hosted options available and reviewed? Y

Describe the rationale for selecting an on-premise option below:
The decision to making this an on-premis solution took into account the sensitivity of the CJIS data, the low latency requirements of law enforcement agencies state wide and the proximity of the AZDPS Message Switch.

Will any data be transmitted into or out of the agency's on-premise environment or the State Data Center? Y

Will any PII, PHI, or other Protected Information as defined in the 8110 Statewide Data Classification Policy be transmitted, stored, or processed with this project?

Y

Describe below what security infrastructure/controls are/will be put in place to safeguard this data:

This is CJIS data. All data is protected in accordance with the FBI CJIS Security Policy.

What help could ASET offer to increase the probability of project success?

N/A

Summary of PIJ Financials	
Total of Development Cost:	\$ 7,513,514
Total of Operational Cost:	\$ 1,089,715
Total Costs:	\$ 8,603,229

Project Cost - Itemized

Item	Description	Category	Development (Implementation) or Operational (Ongoing)	Fiscal Year Spend	Qty or Hours	Unit Cost	Extended Cost	Enter Tax Rate if Applicable (Generally 8.6% for PHX)	Tax	Total Cost
1	OpenFox Computerized Criminal History System COTS Software Licenses	License & Maint Fees	Development	1	2	\$512,500	\$1,025,000	8.60%	\$88,150	\$1,113,150
2	OpenFox Hotfiles COTS Software Licenses	License & Maint Fees	Development	1	1	\$512,500	\$512,500	8.60%	\$44,075	\$556,575
3	OpenFox Validations COTS Software Licenses	License & Maint Fees	Development	1	1	\$61,500	\$61,500	8.60%	\$5,289	\$66,789
4	Computerized Criminal History System Professional Delivery Services	Prof & Outside Services	Development	2	1	\$4,397,250	\$4,397,250		\$0	\$4,397,250
5	Hotfiles System Professional Delivery Services	Prof & Outside Services	Development	1	1	\$645,750	\$645,750		\$0	\$645,750
6	Mainframe CJIS Apps (Other) Professional Delivery Services	Prof & Outside Services	Development	2	1	\$410,000	\$410,000		\$0	\$410,000
7	Maintenance	License & Maint Fees	Operational	3	1	\$309,000	\$309,000	8.60%	\$26,574	\$335,574
8	Maintenance	License & Maint Fees	Operational	4	1	\$324,450	\$324,450	8.60%	\$27,903	\$352,353
9	Maintenance	License & Maint Fees	Operational	5	1	\$369,971	\$369,971	8.60%	\$31,817	\$401,788
10	Independent Verification and Validation (IV&V) (years 1-3) Sept 30, 2017 to June 30, 2020	Prof & Outside Services	Development	1	1	\$324,000	\$324,000		\$0	\$324,000
11		[-Select-]	[-Select-]	[-Select-]						
12		[-Select-]	[-Select-]	[-Select-]						
13		[-Select-]	[-Select-]	[-Select-]						
14		[-Select-]	[-Select-]	[-Select-]						
15		[-Select-]	[-Select-]	[-Select-]						
16		[-Select-]	[-Select-]	[-Select-]						
17		[-Select-]	[-Select-]	[-Select-]						
									Total Development Cost	\$7,513,514
									Total Operational Cost	\$1,089,715
									Total Itemization of Costs:	\$8,603,229

Summary of Funding Sources			
Fund Type	% of Project	\$ of Project (Available)	\$ of Project (To Be Requested)
Base Budget	9.64%	\$829,029.00	
APF	90.36%	\$2,343,000.00	\$5,431,199.80
Other Appropriated			
Federal			
Other Non-Appropriated			

Total costs available to distribute between funding sources
\$0.03

PIJ Development & Operational Cost Summary

Description	Type	Year 1	Year 2	Year 3	Year 4	Year 5	Extended Cost
Professional & Outside Services	Development	\$969,750	\$4,807,250	\$0	\$0	\$0	\$5,777,000
	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Hardware	Development	\$0	\$0	\$0	\$0	\$0	\$0
	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Software	Development	\$0	\$0	\$0	\$0	\$0	\$0
	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Communications	Development	\$0	\$0	\$0	\$0	\$0	\$0
	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Facilities	Development	\$0	\$0	\$0	\$0	\$0	\$0
	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Licensing & Maintenance Fees	Development	\$1,736,514	\$0	\$0	\$0	\$0	\$1,736,514
	Operational	\$0	\$0	\$335,574	\$352,353	\$401,788	\$1,089,715
Other	Development	\$0	\$0	\$0	\$0	\$0	\$0
	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Development Cost:		\$2,706,264	\$4,807,250	\$0	\$0	\$0	\$7,513,514
Operational Cost:		\$0	\$0	\$335,574	\$352,353	\$401,788	\$1,089,715
Total Cost:							\$8,603,229

Areas of Impact

1 Application Systems

- Application Enhancements
- Internal Use Web Application
- Mobile Application Development
- Arizona Enterprise Solution Platform (AESP) based Application
- New Application Development
- az.gov Web Portal Application
- Other: (Please specify below)

2 Database Systems

- Data Warehouse/Mart
- Database Consolidation/Migration/Extract Transform and Load Data
- Database Products and Tools:
 - Oracle
 - MySQL
 - DB2
 - MS SQL Server
- Other: (Please specify below)

3 Software

- COTS Application Customization
- COTS Application Acquisition
- Mainframe Systems Software
- Open Source
- PC/LAN Systems Software
- Virtualization
- Other: (Please specify below)

4 Hardware

- LAN/WAN Infrastructure
- Mainframe Infrastructure
- Storage Area Network Devices
- Public Safety Radios, Systems
- PC Purchases, Peripherals
- Tape Libraries/Silos
- UPS Devices
- Other: (Please specify below)

5 Hosted Solution (Cloud Implementation)

- State Data Center
- Commercially Hosted:
 - Amazon (AWS) GovCloud
 - Century Link - I/O Data Center
 - AWS (non-government) cloud
 - Microsoft Azure
- Vendor Hosted
- Other: (Please explain below)

6 Security

- Encryption
- Security Appliances:
 - Firewall
 - Intrusion Detection System (IDS)
 - Intrusion Prevention System (IPS)
- SecurityControls/Systems - Other: (Please specify below)
- Physical Controls (Badging Systems, Iris Scanners, Other: (Please specify below))
- Other: (Please specify below)

7 Telecommunications

- Network Communications Infrastructure
- Telephone Upgrade-Business-Specific
- Cabling
- Wireless Access Points
- Telephony Upgrade-EIC Solution
- Trenching
- Videoconferencing
- Other: (Please specify below)

8 Enterprise Solutions

- | | |
|--------------------------|---|
| <input type="checkbox"/> | Business Intelligence System |
| <input type="checkbox"/> | E-Signatures |
| <input type="checkbox"/> | Geographic Information Systems |
| <input type="checkbox"/> | Other Imaging - Photos, Fingerprints, etc. |
| <input type="checkbox"/> | Document Management/Imaging |
| <input type="checkbox"/> | eLicensing |
| <input type="checkbox"/> | Management Systems - Financial, Grants, Asset |
| <input type="checkbox"/> | Disaster Recovery/Business Continuity |
| <input type="checkbox"/> | Other: (Please specify below) |

9 Contract Services/Procurement

- | | |
|--------------------------|---|
| X | Contracted Project Management |
| <input type="checkbox"/> | Contractor Support Services |
| <input type="checkbox"/> | Install/Configuration Contract Services |
| X | State Contract |
| <input type="checkbox"/> | Vendor provided |
| <input type="checkbox"/> | Procurement (RFP, IFB, DPR, etc.) |
| <input type="checkbox"/> | Other: (Please specify below) |

PIJ Review Checklist

Role	Name	Email Address	Date Reviewed
Agency Project Sponsor*	Gregg Hayes	ghayes@azdps.gov	08/21/17
Agency Chief Information Officer (CIO) (or designee)*	Gregg Hayes	ghayes@azdps.gov	08/21/17
Agency Information Security Officer (ISO) (or designee)*	Roger Baune	rbaune@azdps.gov	08/17/17
ADOA-ASET Engagement Manager *	Jeffrey Crane	jeffrey.crane@azdoa.gov	08/23/17
ADOA-ASET Security, Privacy & Risk (ASET-SPR) representative			
Agency CPO or State Procurement Office (SPO) representative			
Agency CFO or Finance representative (if different from CPO)			
Others to Review (if applicable):			
Project Manager	Michele Johnson	mjohnson@azdps.gov	08/21/17

* Required Attendee

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x	Has the value of the IT project to the public and the State been identified?
x	Does the proposed solution address the stated problem or situation?
x	Has the budget unit demonstrated competency to carry out the project successfully?
x	Have all applicable questions in the PIJ been addressed?
x	Have the Areas of Impact associated with the project been identified?
x	Is sufficient sponsorship and support by budget unit leadership evidenced in the meeting?
x	Has the compatibility of the proposed solution with other budget unit solutions been addressed?
x	Has a reasonable Project Plan been provided?
x	Has the compliance of the proposed solution with all applicable statewide standards been confirmed?
x	Have any potential risks or issues associated with the project or the proposed solution been identified and appropriately addressed to minimize unintended consequences?
x	Have the cost estimates for the project been vetted for accuracy?
x	Have the PIJ Financials been completed?
x	Have any/all of the following startup costs to implement the project been included under Development in the financial tables, if applicable - tax; shipping; upfront maintenance and support; professional services (P&OS); ancillary software to run on equipment; ancillary hardware to install equipment, e.g., cables; other associated costs, e.g., training, travel, documentation, etc.?
x	Have any/all of the following ongoing/5-year support costs, once the project is implemented, been included under Operational in the financial tables, if applicable - ongoing vendor hosting costs, including any projected increase over time; annual maintenance and support not acquired upfront; extended costs after warranty expiration; P&OS commitments beyond implementation?
x	Have you confirmed that no Full Time Employee (FTE) related costs have been included in the project costs?
x	Have quotes been provided for all itemized costs in the PIJ, e.g., professional services, hardware, software, licensing, etc.?
x	Do the quotes match the itemized list and only reflect those items and costs (within 5%) associated with this project?
	If not, describe below how the costs in the PIJ differ from the quotes, e.g., if quantities are different, costs are comprised of portions of multiple quotes provided, etc.:

If any of the above are not complete, the PIJ cannot be approved at this time.....

PIJ Disposition

<input type="checkbox"/>	Approved
<input checked="" type="checkbox"/>	Recommended with conditions
<input type="checkbox"/>	Not Approved

Strategic Program Manager Analysis

Project Background:

The Arizona Department of Public Safety (DPS) will implement a new Criminal Justice Information System (CJIS) platform including Wanted Persons, Stolen Vehicles, and Criminal History applications. This will include the relocation of the previously mentioned applications' file databases from the existing DPS mainframe to a new open system developed and maintained by a single vendor.

Business Justification:

Existing CJIS application coding uses old programming languages and technologies which place the DPS CJIS platform at risk of statewide failure to supported law enforcement agencies. Old applications, databases, and languages will be upgraded to the new and more flexible COTS open systems platform environment. The new open system will run on well-known and understood OS platforms including Windows and AIX. AIX consists of various proprietary Unix operating systems developed by IBM. This project will move DPS one step closer to retiring the existing mainframe as all CJIS components will have been migrated to the new system.

Implementation Plan:

DPS will manage the overall project, oversee and manage the IV&V vendor relationship with PCG. DPS will also provide required network connectivity, computing infrastructure. DPS will also manage agency specific configuration tasks.

The vendor, Computer Projects of Illinois (CPI) will provide the solution software licensing, installation and configuration including training and consulting. CPI will also provide ongoing maintenance of the system and solution.

PCG will provide third-party Independent Verification and Validation (IV&V) services including initial project report analysis for ITAC as well as quarterly reporting throughout the project.

A detailed requirements document compiled by DPS and CPI was provided to ADOA-ASET with the PIJ submission and will be kept Confidential.

Vendor Selection:

Requests for information were sent out along with independent research conducted by DPS and discussions with other states which currently operate CPI solutions. DPS had previously purchased CPI's Open Fox Message Switch. By utilizing the same vendor to house the CJIS hot file and criminal history applications, DPS will have a cohesive system maintained by a single provider. CPI has similar systems implemented in 30+ other states.

Budget or Funding Considerations:

Funding will come from Automation Projects Fund as well as DPS general funds. Project funding has been allocated by the legislature over a three-year time period. Additional funding will be requested at a future date.













Disposition:




















This project is Recommended to ITAC for review and Approval with Conditions via delegated authority.

























Authorized Approver:	Jeffrey Crane	Recommended Date:	8/23/2017
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Condition (If Applicable)

Should the final costs exceed the estimated costs by 10% or more, or should there be significant changes to the proposed technology, scope of work or implementation schedule, the Agency must amend the PIJ to reflect the changes and submit it to ADOA-ASET for review and approval prior to further expenditure of funds.

ID		Task Mode	Task Name	Duration	Work	Start	Finish	Predecessors	Resource Names
1			AZDPS - Hotfiles & Online Validations Implementation	544 days	4,446 hrs	Mon 10/2/17	Wed 5/15/19		
2			PROJECT START	1 day	6 hrs	Mon 10/2/17	Mon 10/2/17		Lisa Mazur[50%]
3			Project Kick off	1 day	3 hrs	Mon 10/2/17	Mon 10/2/17		Lisa Mazur[50%]
4			Hotfiles Design Verification	10 days	156 hrs	Mon 10/2/17	Thu 10/12/17	3	Bing Tong[30%],Cathy Wantrob
5			Hotfiles Implementation	451 days	3,439.2 hrs	Mon 10/2/17	Thu 2/7/19		
6			Hotfiles Hardware Set-up/Configuration-DEV	4 days	12.6 hrs	Mon 10/2/17	Thu 10/5/17		
7			DEV-Set up/Config VM	1 day	1.8 hrs	Mon 10/2/17	Tue 10/3/17	3	Carl Cochran[30%]
8			DEV-Install Config SQL Server & DB Template	3 days	10.8 hrs	Tue 10/3/17	Thu 10/5/17	7	Marina Rangel[30%],Mark McQ
9			Hotfiles Configuration-DEV	350 days	2,493 hrs	Thu 10/5/17	Mon 10/22/18		
10			DEV-Database model & table set-up/config	10 days	36 hrs	Thu 10/5/17	Tue 10/17/17	8	Bing Tong[30%],David Donaldso
11			DEV-Data Mapping	40 days	144 hrs	Tue 10/17/17	Thu 11/30/17	10	David Donaldson[30%],Bing Ton
12			DEV-Data Conversion	60 days	216 hrs	Thu 11/30/17	Wed 2/7/18	11	Bing Tong[30%],David Donaldso
13			Data Mapping & Data Conversion Plan	40 days	288 hrs	Wed 2/7/18	Wed 3/21/18	10,11,12	Bing Tong[30%],David Donaldso
14			DEV-Create DB Procedures	300 days	1,080 hrs	Thu 11/30/17	Mon 10/22/18	10,11,12FF	David Donaldson[30%],Bing Ton
15			DEV-Create Reports	100 days	180 hrs	Fri 7/6/18	Mon 10/22/18	14FF	GUI[30%]
16			DEV-DB Interface	5 days	9 hrs	Tue 10/16/18	Mon 10/22/18	15FF	Comm[30%]
17			DEV-Switch	300 days	540 hrs	Thu 10/5/17	Tue 8/28/18	10SS	Switch[30%]

ID	 Task Mode	Task Name	Duration	Work	Start	Finish	Predecessors	Resource Names
18		Hotfiles - Integration Testing	12 days	61.2 hrs	Mon 10/22/18	Fri 11/2/18		
19		Refresh Procedure Code & Data	2 days	7.2 hrs	Mon 10/22/18	Tue 10/23/18	9	Bing Tong[30%],David Donaldso
20		Test - Switch	5 days	9 hrs	Tue 10/23/18	Mon 10/29/18	19	Switch[30%]
21		Test - Interfaces	5 days	9 hrs	Tue 10/23/18	Mon 10/29/18	19	Comm[30%]
22		Test - full process	5 days	36 hrs	Mon 10/29/18	Fri 11/2/18	19,20,21	Bing Tong[30%],Comm[30%],Da
23		Hotfiles - Migrate Code to TEST for UAT	47 days	505.2 hrs	Fri 11/2/18	Thu 12/27/18		
24		Copy Data Model & Procedure Code	2 days	7.2 hrs	Fri 11/2/18	Mon 11/5/18	22	Bing Tong[30%],David Donaldso
25		Run Data Conversion	5 days	18 hrs	Mon 11/5/18	Fri 11/9/18	24	Bing Tong[30%],David Donaldso
26		Migrate Reports	10 days	36 hrs	Fri 11/9/18	Tue 11/20/18	25	Bing Tong[30%],David Donaldso
27		Support UAT	30 days	414 hrs	Wed 11/21/18	Thu 12/27/18	26	Bing Tong[30%],Comm[30%],Da
28		Create Production Cutover plan	10 days	30 hrs	Fri 11/9/18	Tue 11/20/18	26FF	Lisa Mazur[50%]
29		Hotfiles - Production Cutover	12 days	43.2 hrs	Thu 12/27/18	Fri 1/11/19		
30		Copy Data Model & Procedure Code	2 days	10.8 hrs	Thu 12/27/18	Fri 12/28/18	27,28	Bing Tong[30%],David Donaldso
31		Run Data Conversion	5 days	27 hrs	Wed 1/2/19	Mon 1/7/19	30	Bing Tong[30%],David Donaldso
32		Migrate Reports	5 days	0 hrs	Mon 1/7/19	Fri 1/11/19	31	
33		Cutover DB	1 day	5.4 hrs	Mon 1/7/19	Tue 1/8/19	31	Bing Tong[30%],David Donaldso
34	 	Hotfiles - Warranty Support	30 days	324 hrs	Tue 1/8/19	Thu 2/7/19	33	Bing Tong[30%],Comm[30%],Da

ID		Task Mode	Task Name	Duration	Work	Start	Finish	Predecessors	Resource Names
35			Online Validations Implementation	122 days	841.8 hrs	Tue 1/8/19	Wed 5/15/19		
36			Online Validations Design Verification	10 days	66 hrs	Tue 1/8/19	Thu 1/17/19	34SS	DB-Validations[30%],GUI[30%],L
37			Validations Configuration-DEV	70 days	241.2 hrs	Fri 1/18/19	Tue 4/2/19		
38			DEV-Database model & table set-up/config	30 days	54 hrs	Fri 1/18/19	Tue 2/19/19	36	DB-Validations[30%]
39			DEV-Create DB Load Process	14 days	25.2 hrs	Tue 2/19/19	Tue 3/5/19	38	DB-Validations[30%]
40			DEV-Reports	40 days	144 hrs	Tue 2/19/19	Tue 4/2/19	39SS	DB-Validations[30%],GUI[30%]
41			DEV-DB Interfaces	5 days	9 hrs	Tue 2/19/19	Mon 2/25/19	39SS	Comm[30%]
42			DEV-GUI Configurations & Routing Rules	5 days	9 hrs	Tue 2/19/19	Mon 2/25/19	39SS	GUI[30%]
43			Validations Integration Testing	12 days	57.6 hrs	Mon 2/25/19	Fri 3/8/19		
44			Refresh Procedure Code & Data	2 days	3.6 hrs	Mon 2/25/19	Tue 2/26/19	42	DB-Validations[30%]
45			Test - Messenger	5 days	9 hrs	Tue 2/26/19	Mon 3/4/19	44	GUI[30%]
46			Test-DB Load Process	5 days	9 hrs	Tue 2/26/19	Mon 3/4/19	44	DB-Validations[30%]
47			Test - Interfaces	5 days	9 hrs	Tue 2/26/19	Mon 3/4/19	44	Comm[30%]
48			Test - full process	5 days	27 hrs	Mon 3/4/19	Fri 3/8/19	45,47	Comm[30%],DB-Validations[30%
49			Validations - Migrate Code to TEST for UAT	42 days	237.6 hrs	Fri 3/8/19	Mon 4/22/19		
50			Copy Data Model & Procedure Code	2 days	3.6 hrs	Fri 3/8/19	Mon 3/11/19	48	DB-Validations[30%]
51			Migrate Reports	5 days	9 hrs	Mon 3/11/19	Fri 3/15/19	50	GUI[30%]

ID	 Task Mode	Task Name	Duration	Work	Start	Finish	Predecessors	Resource Names
52		Set up FTP with NCIC	5 days	9 hrs	Mon 3/11/19	Fri 3/15/19	51SS	David Nunes[30%]
53		Training & QA	5 days	24 hrs	Fri 3/15/19	Thu 3/21/19	52	GUI[30%],Lisa Mazur[50%]
54		Support UAT	30 days	162 hrs	Thu 3/21/19	Mon 4/22/19	53	David Nunes[30%],DB-Validatio
55		Create Production Cutover plan	10 days	30 hrs	Thu 3/21/19	Mon 4/1/19	54SS	Lisa Mazur[50%]
56		Validations - Production Cutover	13 days	23.4 hrs	Mon 4/1/19	Mon 4/15/19		
57		Copy Data Model & Procedure Code	2 days	3.6 hrs	Mon 4/1/19	Wed 4/3/19	55	DB-Validations[30%]
58		Migrate Reports	5 days	9 hrs	Wed 4/3/19	Mon 4/8/19	57	GUI[30%]
59		Set up FTP with NCIC	5 days	9 hrs	Tue 4/9/19	Fri 4/12/19	58	David Nunes[30%]
60		Cutover DB	1 day	1.8 hrs	Fri 4/12/19	Mon 4/15/19	59	DB-Validations[30%]
61		Validations - Warranty Support	30 days	216 hrs	Mon 4/15/19	Wed 5/15/19	60	Comm[30%],David Nunes[30%],
62		PROJECT CLOSE	1 day	3 hrs	Wed 5/15/19	Wed 5/15/19	61FF	Lisa Mazur[50%]



Sales Quotation

Openfox CJIS Applications to Open Systems

Customer:
 State of Arizona
 Public Safety

Account Manager: Chris Anderson
Phone: (847)371-7149

Part Description	Qty	MFG#	Unit Price	Total Price
OpenFox® Computerized Criminal History System COTS Software Licenses	2	16516	\$512,500.00	\$1,025,000.00
OpenFox® Hotfiles COTS Software Licenses	1	5151	\$512,500.00	\$512,500.00
OpenFox® Validations COTS Software Licenses	1	51651	\$61,500.00	\$61,500.00
Computerized Criminal History System Professional Delivery Services	1	32415	\$4,397,250.00	\$4,397,250.00
Hotfiles System Professional Delivery Services	1	54654	\$645,750.00	\$645,750.00
Mainframe CJIS Apps Professional Delivery Services	1	51651	\$410,000.00	\$410,000.00
1 year warranty – beginning upon System Acceptanc	1	1 Year	\$0.00	\$0.00
Arizona NVP Software (ADSP017-149774)				

CDW Government
 230 North Milwaukee Ave.
 Vernon Hills, IL 60061
 Phone: (847) 371-5000

Sub Total	\$7,052,000.00
Freight	\$ -
Tax	\$ 134,160.00
Total	\$ 7,186,160.00
Tax is estimate- Final Tax will be on Invoice	



Sales Quotation

Openfox Maintenance Years 3-5

Customer:
 State of Arizona
 Public Safety

Account Manager: Chris Anderson
Phone: (847)371-7149

Part Description	Qty	MFG#	Unit Price	Total Price
OpenFox Maintenance & Support Year 3	1	Support 3	\$329,316.00	\$329,316.00
OpenFox Maintenance & Support Year 4	1	Support 4	\$345,782.00	\$345,782.00
OpenFox Maintenance & Support Year 5	1	Support 5	\$363,071.00	\$363,071.00
Arizona NVP Software (ADSP017-149774)				

CDW Government
 230 North Milwaukee Ave.
 Vernon Hills, IL 60061
 Phone: (847) 371-5000

Sub Total	\$1,038,169.00
Freight	N/A
Tax	\$ 85,129.86
Total	\$ 1,123,298.86
Tax is estimate- Final Tax will be on Invoice	