APSIN Redesign, Year 2 of 3-Year Plan   **FY2008 Request:**   **$1,000,000**
                                              Reference No: **41544**

AP/AL: Appropriation   **Project Type:** Information Systems
Category: Public Protection
Location: Statewide   **Contact:** Dan Spencer, Director, Administrative
                                              Services
House District: Statewide   **Contact Phone:** (907)465-5488
Estimated Project Dates: 07/01/2007 - 12/31/2008

Brief Summary and Statement of Need:
The Alaska Public Safety Information Network (APSIN) contains criminal history information used by law
enforcement agencies across Alaska. APSIN is a critical operational tool for all law enforcement
activities in Alaska, and is a major tool used in meeting the department's mission of protecting the public.
This is an ongoing, phased project to move the APSIN from the State of Alaska legacy mainframe to a
Microsoft and Intel server platform, and at the same time enhance APSIN's capability.

Funding:	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	Total
Fed Rcpts	$1,000,000	$2,000,000					$3,000,000
Gen Fund		$2,000,000					$2,000,000
Total:	$1,000,000	$4,000,000	$0	$0	$0	$0	$5,000,000

☐ State Match Required	☐ One-Time Project	☐ Phased - new	☑ Phased - underway	☐ On-Going
0% = Minimum State Match % Required		☐ Amendment	☐ Mental Health Bill	

Operating & Maintenance Costs:

	Amount	Staff
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:
Sec 131, Ch 139, SLA 1998, P 54, L 4, $300,000, APSIN Upgrade (Federal Receipts)
Sec 100, Ch 2, SLA 1999, P 51, L 19-20, $1,389,000 ($1,250,000 Fed, $139,000 GF Match)
Sec 1, Ch 61, SLA 2001, P 23, L 18-19, $2,725,500 (AHFC Dividends)
Sec 1, Ch 82, SLA 2003, $8,000,000 (Federal Receipt Authority)
Sec 1, Ch 82, SLA 2006 $3,000,000 ($1,000,000 Fed / $2,000,000 GF)

Project Description/Justification:
This is an ongoing, phased project to move the Alaska Public Safety Information Network (APSIN) from the State of Alaska
legacy mainframe to a Microsoft and Intel server platform, and at the same time enhance APSIN's capability.

The design phase of APSIN Redesign is complete. The migration of APSIN from the mainframe to SQL is in progress. The
transition required by this multi-year project calls for new capabilities, such as a complete data audit function within SQL
Server.

APSIN application migration builds on the Department of Public Safety's (DPS) significant investment in the technical design
and previously completed development. The funds requested will be used to contract specific tasks to accomplish this
migration under "Year 2" of the planned migration. The tasks targeted for FY2008 implementation include: CCH
(Computerized Criminal History); Court, Vehicle, and Image application server and user interface development; and the
Interface between the Alaska Automated Fingerprint Information System (AAFIS) module and the Transaction Router.

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APSIN is the critical operational tool for Alaska law enforcement activities. APSIN users need new and enhanced capabilities, such as online Strategic Results Format (SRF) reporting for the Alaska State Troopers digital photo support, and improved Sex Offender Registry. Modern technologies such as web services and Global Justice XML will only be available on the new APSIN platform.

Proposed Three Year APSIN Migration Schedule

Year 1 (In progress)
- Client Interface to legacy mainframe APSIN to support Production use of Windows Client.
- Application Server Development – potential application servers for this period include:

Arrest	Rap Sheet	Prosecution

- APSIN Transaction, Data Model, and Graphical User Interface (GUI) Development related to the application servers listed above.
- Web Service Interface Module – external systems used by other agencies that require this interface include:

Dept of Law	Laboratory Information Management System (Crime Lab)	Dept of Motor Vehicles
Dept of Health and Social Services	Alaska Court System	

- Transaction Log Database
- APSIN Reporting (implementation of Reporting Data Model 2.0)

Year 2
- Application Server Development – potential application servers for this period include:

Vehicle	Image	Court

- APSIN Transaction, Data Model, and Graphical User Interface (GUI) Development related to the application servers listed above
- Alaska Automated Fingerprint Information System (AAFIS) Subsystems (AAFIS Interface Module to Transaction Router)
- Message Switch, and Interface Module to Transaction Router – TCP/IP support for:

FBI and National Crime Information Center	National Law Enforcement Telecommunication System	Local Police Departments

- Ad Hoc Query Server
- APSIN Reporting (implementation of Reporting Data Model 3.0)

Year 3
- APSIN Reporting (implementation of Reporting Data Model 4.0) Local Agency Interface
- Database Interfaces to Department of Corrections Offender Tracking Information System (OTIS), Binary Data Server
- Terminal Services Client (if still needed)
- Full Phase in of SQL Platform

- De-commissioning of legacy mainframe APSIN platform

Cost Information

It is estimated it will cost $12,000,000 to complete the entire migration. Federal funds will be requested each year to assist with the completion of this project schedule.

No additional operating costs are anticipated based on projects of similar size and scope in other jurisdictions and the following assumptions:

Communications: Use of the APSIN system should level off and grow at a slower pace over the next five years. The department and contractor recognize that bandwidth will always be a limiting factor and recommends strategies such as messaging optimization to minimize network traffic.

Hardware/Software Maintenance: Although server and workstation maintenance will be 15 percent of purchase price and software maintenance will be about 20 percent of the original licensing fees, no net change in operating costs are expected due to offsetting savings from moving off the mainframe.

Transition Costs: Throughout the remainder of this project DPS will effectively run three APSIN platforms: the legacy production platform, the development platform, and the new production platform. Transition operating costs are high as APSIN security and audit requirements must be met on each platform. Also, legacy data migration tools will be licensed for the duration of the transition. Transition costs are expected to fully disappear following project completion.

Impact of Not Receiving this Request

If the project is not funded, DPS will continue to direct limited internal operational resources to meet the needs of APSIN Migration over an extended schedule, the length of which will depend on future funding amounts. At the same time, a critical knowledge base in our prime contractor (in which DPS has invested more than $10 million) will be lost to future phases of this project, severely impacting development efforts while amplifying risks to law enforcement services.

The current legacy system will consume excessive support and development costs if this project is not undertaken. Current FBI security standards are not being met by the legacy system, which may pose potential liabilities to the state if we cannot show that we are making progress towards meeting the standards. The worst-case scenario would include loss of connectivity to the FBI's criminal history files.

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