APSIN Redesign, Migration Phase Year 1	**FY2007 Request:**	**$3,000,000**
	Reference No:	**41544**

AP/AL: Appropriation **Project Type:** Information Systems
Category: Public Protection
Location: Statewide **Contact:** Dan Spencer, Director, Administrative Services
House District: Statewide (HD 1-40) **Contact Phone:** (907)465-5488
Estimated Project Dates: 07/01/2006 - 12/31/2007

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 the 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. APSIN Redesign planning is complete. The Department of Public Safety will begin the task of migrating existing APSIN functionality from the mainframe to a Microsoft SQL server. These funds will be used to contract specific tasks to accomplish this migration.

Funding:	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	Total
Fed Rcpts	$1,000,000	$3,000,000	$2,000,000				$6,000,000
Gen Fund	$2,000,000	$2,000,000	$2,000,000				$6,000,000
Total:	$3,000,000	$5,000,000	$4,000,000	$0	$0	$0	$12,000,000

☐ 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, $300.0, APSIN Upgrade (Federal Receipts)
Sec 100, Ch 2, SLA 1999, P 51, L 19-20, $1,389.0 ($1,250.0 Fed, $139.0 GF Match)
Sec 1, Ch 61, SLA 2001, P 23, L 18-19, $2,725.5 (AHFC Dividends)
Sec 1, Ch 82, SLA 2003, $8,000.0 (Federal Receipt Authority)

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 platform to an Intel server platform, and at the same time, enhance APSIN's capability.

By enhancing the capabilities of APSIN with images, mugshots, and more information, the task of identifying suspected criminals will be easier and more reliable, thus enhancing public safety. The redesign project will also enhance operations of other departments such as Corrections, Law, the Court System, and statewide criminal justice agencies by making it easier to create electronic interfaces for the sharing of information.

APSIN Redesign planning is complete. The Department of Public Safety (DPS) will begin the task of migrating existing APSIN functionality from the mainframe to a Microsoft (MS) SQL server, an enterprise relational database. The transition

required by this multi-year project requires new capabilities, such as data synchronization between the two platforms, and complete data audit capability within SQL server.

This project builds on DPS' major investment in the technical design, as implemented in the functional system prototype delivered by the APSIN Redesign contractor in August 2005.

APSIN is a critical operational tool for all law enforcement activities in Alaska. DPS is making excellent progress on APSIN Migration in numerous technical areas. APSIN users need the enhanced capabilities on the new platform, such as Strategic Results Format (SRF) reporting for the Alaska State Troopers (AST) and integration of the state's Sex Offender Registry with the National Sex Offender Public Registry (NSOPR). All new DPS application development targets web services interfaces and Global Justice XML for data interchange; these tools will only be available on the new platform.

Proposed Three Year APSIN Migration Schedule

Year 1
- 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 Telecommunications System	Local Police Departments

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

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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 over three years 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 offseting savings from moving off the mainframe.

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.

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.