

DMV Information Technology Projects and Equipment**FY2007 Request:****\$850,000****Reference No:****41574****AP/AL:** Appropriation**Project Type:** Information Systems**Category:** General Government**Location:** Statewide**Contact:** Eric Swanson**House District:** Statewide (HD 1-40)**Contact Phone:** (907)456-5655**Estimated Project Dates:** 07/01/2006 - 06/30/2011**Brief Summary and Statement of Need:**

This request includes funding for 5 projects that would employ contract programmers and provide software, and equipment to assist DMV with updating computer programming, replacing the existing messaging systems, updating computer presentation layers, consultant analysis and design of DMV mainframe, and to purchase high speed desktop scanners.

Funding:	<u>FY2007</u>	<u>FY2008</u>	<u>FY2009</u>	<u>FY2010</u>	<u>FY2011</u>	<u>FY2012</u>	<u>Total</u>
Rcpt Svcs	\$850,000						\$850,000
Total:	\$850,000	\$0	\$0	\$0	\$0	\$0	\$850,000

<input type="checkbox"/> State Match Required	<input checked="" type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

Operating & Maintenance Costs:

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
Totals:	0	0

Additional Information / Prior Funding History:

No prior year funding exists.

Project Description/Justification:

This request includes funding for 5 projects that would employ contract programmers, and provide software, and equipment to assist DMV with updating computer programming, replacing the existing messaging systems, updating computer presentation layers, consultant analysis and design of DMV mainframe, and to purchase high speed desktop scanners.

**DMV Contract Computer Database Programming
\$300,000**

Problem to be solved: Funds would be used to employ contract programmers to assist in updating old code formats and removing old unused Department of Public Safety (DPS) codes. A number of application fixes are necessary to repair the numerous data/database structure problems, which occurred when DMV separated from DPS.

Solution: Contract programmers to provide programmers familiar with Natural and ADABAS to assist DMV staff programmers in repairing some of the most problematic coding/database issues.

Benefits: Improvement in data integrity and security.

What we propose to buy: Contract programming.

Prior Funding History: None, the division has requested and received funding from the federal government for specific programming requirements, but this is the first time a request has been made for general programming needs that are beyond the scope of normal maintenance issues.

Timeline: The amount requested is expected to provide 2 contract programmers for approximately 8 months.

**DMV Replace Database Messaging System
\$150,000**

Problem to be solved: Funds would be used to employ contract programmers to assist in developing a messaging system to replace the existing system provided by Department of Public Safety (DPS). The current process relies on DPS's region of the mainframe to operational. We seek to eliminate this dependency.

Alaska DMV's messaging system is a mainframe email operation and is used by all U.S. DMV offices nationwide and in Canada. The messaging system is used to correspond between agencies and contains the bundling of information such as inquiries and/or confirmation of an individual's licensing history in another state or vice versa. The messaging system is also used by law enforcement agencies so they can communicate back and forth with a DMV office. The average response time is seven seconds, which allows a DMV office to assist customers while they are at the DMV counter.

Solution: The new messaging system would provide a stable and secure system for the exchange of motor vehicle information to other U.S. jurisdictions.

Benefits: The messaging system facilitates the routing of data transmissions from an operator to a jurisdiction and provides for a return path to the operator with the response codes.

What we propose to buy: Contract programmers.

Prior Funding History: None.

Timeline: 1,220 hours or 8 months of contract programming time.

**DMV Replacement Computer Presentation Layer
\$125,000**

Problem to be solved: With or without a plan to replace existing systems there will be an interim period where modifications due to legislative changes will be necessary. The APPLINK product has been shown to be a very useful tool in making changes in the presentation of data input and output processes, provide necessary field editing capabilities while avoiding more complex changes in the underlying code. Many existing database update processes with ALVIN allow unedited changes to information, which results in serious data integrity issues. The changes to the underlying code that are necessary to make improvements are complex and would take considerable time to implement. The APPLINK product would be used to act as a screen to the data input in order to stop the bleeding while the underlying code can be repaired or replaced.

Solution: Use the presentation layer tool to overlay existing menu driven processes to assist in providing a more edited process and, at the same time, assist in providing a more user friendly platform for data entry and maintenance.

Benefits: Provide an easily implemented and maintained product to establish edits to the system in order to improve data integrity.

What we propose to buy: APPLINK is a product that is compatible with the existing database within the mainframe environment.

Prior Funding History: None.

Timeline: The product can be installed, configured, and be implemented with basic access and improvements within 60 days of receipt of product/licenses.

DMV Database IT Consultant Analysis and Design Project
\$150,000

Problem to be solved: The Motor Vehicle Database resides on a mainframe computer. Although an excellent multi-user, stable, secure, platform for transaction processing it is becoming more difficult to recruit and retain experienced programming staff to maintain a 30 year old system. The funds will be used to contract with a consulting firm to analyze the existing system, provide details concerning current data structure, identify problem areas, identify problem areas, and assist the division staff in developing a plan to, possibly, migrate to another platform.

The current database was an imperfect subset of the Department of Public Safety database. It has many code routines that are interspersed with codes no longer used for strictly motor vehicle activities. This causes problems when coding changes are made due to legislation or other changing conditions.

Solution: Examine source code and data structure; identify unused codes, and prepare a plan to streamline business processes; examine possibilities for converting data systems into a platform independent data structure.

Benefits: The project will provide a plan to guide development and make decisions based on the best available information regarding programming technology.

What we propose to buy: A contract for consulting services.

Prior Funding History: None.

Timeline: The work will be performed over a 60 to 90 day time period.

DMV High Speed Desktop Scanners
\$125,000

Problem to be solved: Documents, such as, birth certificates, passports, etc. are presented for verification of identity when applying for a driver's license or ID card. A new federal requirement has DMV maintaining a copy of the document(s) as a permanent part of the record.

Solution: Since the documents used to establish identity are originals or certified copies they are expected to be returned to the customer. It is believed that the most efficient means to capture and store the document for future retrieval is to scan an image of the document at the public service counter, then return the document to the customer.

Benefits: With the transaction completed and all of the necessary information obtained with a single customer visit, the DMV can continue to provide over the counter ID Card and Driver's License issuance. It will reduce the chance of accepting identity documents and then possibly losing them before they can be returned to the individual, as well as requiring the individual to wait a period of time until the actual ID Card or Driver's License could be mailed to the customer.

What we propose to buy: A very small foot print high speed scanner for each public service workstation and a number of flatbed scanners located in each office to accommodate the digital capture of document images for storage and retrieval.

Prior Funding History: None.

Timeline: Once funds are made available, a bid will be prepared and completed with a 60 to 90 day period. Based on the hardware specifications/requirements we would prepare the software used in the central image capture process currently being developed to accept images presented from multiple locations.

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DMV's mission is to create, record, and renew registration of vehicle ownership and provide testing, issuance, and reporting of driver's licensing. The IT improvements that will result from this funding will provide DMV staff the tools to achieve their mission.