

WAN Infrastructure Upgrade**FY2006 Request:****\$185,000****Reference No:****40047****AP/AL:** Appropriation**Project Type:** Information Systems**Category:** Transportation**Location:** Statewide**Contact:** John MacKinnon**House District:** Statewide (HD 1-40)**Contact Phone:** (907)465-3900**Estimated Project Dates:** 07/01/2004 - 06/30/2010**Brief Summary and Statement of Need:**

To comply with the Department's FY05 IT(Information Technology) Strategy to improve the efficiency of information flow and to better utilize technologies, DOT is tasked up upgrading antiquated WAN (Wide Area Network) infrastructure. Most existing routers and switches within DOT are seven years old, no longer supported by Cisco (the original supplier company) and difficult to find replacement parts. Newer routers and switches are required to bring the Department WAN infrastructure up to current security and technology standards. This project contributes to the Department's Mission by providing the assets and facilities to enable delivery of state services.

Funding:	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	Total
Bond Funds	\$185,000						\$185,000
Total:	\$185,000	\$0	\$0	\$0	\$0	\$0	\$185,000

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

Additional Information / Prior Funding History:

None.

Project Description/Justification:

The DOT WAN Infrastructure Upgrade Project seeks to maintain, upgrade and provide for the current level of telecommunications with the Department and to address the telecommunication and technology requirements and needs as addressed in the Departmental IT Strategy Plan. Over the past seven years DOT has poorly invested in maintaining and upgrading its WAN infrastructure. While at the same time, telecommunications use and needs have steadily grown. Much like a new paved road benefits all who travel on it, this technology refresh will benefit all who work and interact on the WAN. This will be accomplished by replacing Cisco routers and switches no longer supported by Cisco.

Replacement equipment will be compliant with State of Alaska standards. Metropolitan sites will be upgraded first as the preponderance of DOT staff would benefit from these immediate upgrades and technology enhancements. Non-metropolitan sites would be upgraded on a defined schedule according to the age of their existing equipment. Oldest equipment would be replaced first. It will be capable of handling existing on site use as well as expanding needs for security and telecommunication needs.

Full Life Cycle Cost Information:

Project Initiation/Planning: \$2,000-FY2006, \$2,000-FY2007

Hardware / Infrastructure Acquisition \$150,000-FY2006, \$75,000-FY2007, \$75,000-FY2008

Hardware / Infrastructure Installation: \$5,000-FY2006, \$5,000-FY2007

Vendor Maintenance Contracts: \$25,000-FY2007

State of Alaska Capital Project Summary

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Released December 15, 2005

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Training: \$25,000-FY2006

It is not anticipated that new or expanded Bandwidth will be required as a result of this project. However, continued growth can be better satisfied with the newer more capable hardware/software.

If the project is not approved, the Department is at risk of loosing existing communications due to age of equipment. Not retaining a sufficient level of technology would also subject the Department to security holes as older equipment and the operating systems which run on them are more susceptible to electronic vandalism, viruses and stolen data. Without upgrading its WAN equipment, the Department also severely limits itself in telecommunication efficiencies.