

**Statewide Network Connectivity Upgrades**

**FY2012 Request: \$3,000,000**

**Reference No: 51581**

**AP/AL:** Appropriation

**Project Type:** Information Technology / Systems / Communication

**Category:** General Government

**Location:** Statewide

**House District:** Statewide (HD 1-40)

**Impact House District:** Statewide (HD 1-40)

**Contact:** Cheryl Lowenstein

**Estimated Project Dates:** 07/01/2011 - 06/30/2016 **Contact Phone:** (907)465-5655

**Brief Summary and Statement of Need:**

The average shared bandwidth capacity for 35 cities outside of the core communities of Anchorage, Fairbanks and Juneau is below 1.5 megabits per second (mbps) or a T1. Public and agency expectation for near or real time service has risen to a level that requires increased capacity to these rural locations. Bandwidth services in rural areas are expensive, often unreliable and sometimes non-existent. This funding will be used to address some bandwidth issues through various means.

<b>Funding:</b>	<b>FY2012</b>	<b>FY2013</b>	<b>FY2014</b>	<b>FY2015</b>	<b>FY2016</b>	<b>FY2017</b>	<b>Total</b>
Gen Fund	\$3,000,000						\$3,000,000
<b>Total:</b>	<b>\$3,000,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$3,000,000</b>

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

**Additional Information / Prior Funding History:**

No previous funding requested.

**Project Description/Justification:**

In Alaska, 80% of State employees are housed in 183 facilities in three cities. Twenty percent of employees are found in more than 250 remaining locations outside of these core communities. Four percent of employees are in 31 locations in the fast growing Palmer/Wasilla area and 5% are in 52 locations on the Kenai Peninsula area, including Kodiak. There is a fair sized nomadic population of seasonal, regional or management employees who roam between cities and across regions.

The average shared bandwidth capacity for 35 cities outside of the core communities of Anchorage, Fairbanks and Juneau is below 1.5 megabits per second (mbps) or a T1. A typical T1 cost is approximately \$4,000 per month. Public and agency expectation for near or real time service has risen to a level that requires increased capacity to these rural locations. Bandwidth services in rural areas are expensive, often unreliable and sometimes non-existent. Enterprise Technology Services (ETS) is able to address areas where commercial services are not available along the road system with continued build-out of the State of Alaska Telecommunications System (SATS) microwave system. ETS will continue to build out that system with modern technologies to expand flexibility where commercial services do not exist or are prohibitively expensive.

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Where commercial services are available, the strategy for upgrade of service shall be four fold. First, a re-bid of existing long haul circuits, a deployment of wide area network (WAN) acceleration technology, implementation of monitoring tools to reduce maintenance costs and, the purchase of additional capacity to meet public safety requirements and improve executive branch agency service to the public.

The risk to the state of not upgrading the network connectivity is the service provided to rural communities. It could result in a significant operational cost increase if the services are purchased from telecommunication providers rather than added to the existing SOA infrastructure.