



"Expecting Success"

ADRIAN PUBLIC SCHOOLS

School District # 61 ♦ Adrian, Oregon 97901 ♦ Phone (541) 372-2335 ♦ Fax (541) 372-5380

Superintendent

Gene Mills

(541) 372-3744

High School Principal

Kevin Purnell

(541) 372-2335

K-8 Principal

William Ellsworth

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November 19, 2009

To Whom It May Concern:

We would like to thank you in advance for considering the Adrian School District's application for the EESC's Last Mile Connectivity Grant. Adrian is a small town on the far eastern edge of Oregon. With a student population (249) greater than that of the town (162), our students travel great distances and come from very rural homes. For many of our students and members of the greater Adrian community, internet connectivity at our school is their only option. We appreciate you giving us the opportunity apply for the grant and we look forward to hearing from you in the future.

If you have any questions or concerns, please feel free to contact us.

Sincerely,

Kevin D. Purnell, Principal

Adrian High School

Adrian, Oregon 97901

541-372-2335

EESC's Last Mile Connectivity Grant Application Adrian School District

Contact: Kevin Purnell
kevin.purnell@malesd.k12.or.us

Project Description: *(describe the telecommunication challenge you seek to overcome, and how your proposal provides a viable, long-term solution)*

Adrian School District is a rural school district in Malheur County, traditionally served by Malheur Education service District. Currently they utilize a point to point T-1 (1.5 megabits per second) connection that is provided by Qwest/Malheur Bell. Adrian has partnered with Intermountain Technology (UMESD/Malheur ESD) in interconnecting for data and video services utilizing NERO (Network for Education and Research in Oregon) for Internet access. The challenge they are facing is the lack of capacity to sustain the digital traffic attributed to progressive curriculum, video streaming, and mandated on line reporting and State testing. The existing single T-1 solution is not technically capable to meet the district's needs associated with supporting 21st century learning environments. Adding additional T-1's would have a minimal impact at exponentially higher costs.

This project will build upon upstream wireless infrastructure already in place to service nearby Nyssa School District to increase the Adrian School District's capacity up to a 100mb connection. The district now has an incredible opportunity to take advantage of a solution that will provide the bandwidth necessary to meet

the district's education needs that is both affordable and sustainable. This project will enhance the delivery of K-12 instruction by supporting learning environments that engage students through educational technology activities. Under the current conditions, the ability to utilize video conferencing, distance education, or in-building wireless technologies is NOT an option in an efficient or effective manner. Adrian School District's commitment to sustain the maintenance, cost, and support of this improved infrastructure will insure the viability as a long term, sustainable solution to the current connectivity shortfalls. In summary, Adrian School District has made increased bandwidth a priority in support of achieving their educational technology goals.

Description of how the proposal satisfied the Criteria outlined in Section E:

Adrian School district will use LastMile funds to support the one-time expenditures necessary for providing a wireless connection to Ontario where Intermountain Techology (UMESD/MaIESD) interconnects with NERO (Network for Education and Research in Oregon) for Internet access. It is a long term solution that is both scalable and sustainable.

The proposed wireless connection falls in the OSI model physical link and will build upon infrastructure already established to deliver the capacity essential to support instructional technology and educational efforts.

Description of site(s) covered and projected numbers of students and educators served:

School	Students	Staff
Adrian School K-12	249	48

Adrian School District is a rural farming community covering 293 square miles with 76 percent of students receiving free or reduced lunches. Adrian School District is committed to technology resources and to maintaining the ratio of students and staff to functioning networked computing devices. Each classroom district-wide has access to 111 computers, 22 data projectors, 3 document cameras. There are computer labs available to both the elementary and the high school. An after school program at the school library is open to students and community members who do not have a public library in Adrian.

Key ESD and/or school staff involved in Proposal:

Name	Title	E-Mail	Phone
Kevin Purnell	Principal, Adrian SD	Kevin.purnell@malesd.k12.or.us	541-372-2335
Cheri Rhinhart	IT Director, UMESD	cheri.rhinhart@umesd.k12.or.us	541-966-3181
Tom Hutchison	IT Network Analyst	Tom.hutchison@umesd.k12.or.us	541-966-3187
Frank Goble	Network Specialist	Frank.goble@umesd.k12.or.us	541-473-4830

Technology needs of the district are supported collaboratively with Information Technology staff from Intermountain Technology. This includes, but is not limited to networking support, desktop support; and instructional technology support.

Description and role of any contractors involved in Proposal:

Adrian School district will secure services from the selected vendor, WTechLink to deploy the proposed wireless project. They are registered vendors in the Federal E-Rate program.

If applicable, a description of how the grant funds leverage other resources and their value:

This project involves the acquisition of carrier-grade wireless equipment capable of 526 Mbps aggregate (263 Mbps full-duplex) that leverages an existing upstream wireless network connection to the Internet at Nyssa School District. By purchasing the last mile equipment the district would will also leverage a reduction in the upstream recurring charges saving the district and Malheur ESD an additional \$2400 annually. Adrian school district has applied for the current year E-Rate Funding with plans to continue to participate in the Federal E-Rate program for discounts on telecommunications costs to offset the recurring costs. Their 2009-2010 discount is %76. The community, students, and teachers will have increased

access to digital curriculum and professional development resources that are dependent on adequate bandwidth.

If Equipment is part of the funding request, a description, manufacturer and make of equipment is required.

The project includes the purchase and installation of a TrangoLINK Giga high performance point to point wireless microwave system. This is carrier grade equipment that will deliver 11GHz licensed full duplex. It will be over-engineered to allow for worst case scenarios under extreme environmental conditions.

Proposal Budget Page

**Adrian School District
Wireless Service**

NON-RECURRING COSTS

Item	Description	Quantity	Total
TrangoLink Giga	Includes power supplies	1	11,200.00
AD23G-2	2-Foot 23Ghz antenna	2	1,800.00
Shipping			600.00
Microwave Path License	23 Ghz path analysis and FCC filing		3,000.00
Non-Penetrating Roof Mount	Ballast roof mount for Nyssa	1	950.00
Cable Installation	Sub-contracted	2	1,700.00
Installation	Radio installation		2,000.00
Grounding Kit		2	190.00
Outdoor Cat5e Blk1000		1	319.00
Outdoor Enclosure	Additional rack cabinet	1	1,300.00
AD11G-3			1,300.00
Pole Mount	Mountaing hardware for utility pole (Adrian side)		250.00
Total Non-Recurring			\$24,609.00

RECURRING COST

100 Megabit Transport Mont..Ontario 8C School District Office - City Water Tower	150.00
100 Megabit Transport Mont..City Water Tower - Nyssa School District	275.00
100 Megabit Transport Mont..Nyssa School District - Adrian School District	25.00
Monthly Service Charge	\$450.00