LastMile Connectivity Grant Application
Imbler School District
Imbler, Oregon

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

Imbler School District utilizes a shared Frame T-1 connection that is served by the Department of Administrative Services (DAS). Imbler has partnered with Umatilla-Morrow Education Service District (UMESD) interconnecting for data and video services and utilizing NERO (Network for Education and Research in Oregon) for Internet access.

This proposed project will build upon infrastructure already established and increase the Imbler School District capacity up to a 45MB connection. The challenge we need to address is the lack of capacity from our current connection that is inadequate to meet our demands in educating the students of Imbler School District. At the current level, day-to-day operation requirements such as Business Information and Student Information Systems, Oregon Department of Education Reporting, OAKS (fka TESA) and ELPA testing are compromising our hopes of successfully delivering digital curriculum, video streaming, and mobility.

In the past the only available solution was to add additional T-1 capacity. It would provide minimal resolve and double the current monthly recurring cost. The district now has an unprecedented opportunity to take advantage of a solution that will provide the

bandwidth necessary to meet the 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. In summary, Imbler School District is always alert to any opportunity that will help achieve their technology goals.

2. Description of how the proposal satisfied the criteria outlined in Section E:

This solution provides for the essential "last mile" to establish a high bandwidth connection to LaGrande (10 miles) where Umatilla-Morrow Education Service District (UMESD) 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.

This 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.

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

Imbler is a small rural farming community that serves 341 students in K-12 in three buildings. The District office is housed within the main school building. The student population has remained steady the past several years. The percent of students receiving free or reduced lunches is 30%.

[1]According to the latest Report Card from the Oregon Department of Education, Imbler School District has met Federal Adequate Yearly Progress (AYP). Imbler School District has one 1.75 FTE administrator serving as Superintendent and Principal, a 23 FTE teaching staff. The teaching staff has an average of 14.2 years of experience with 12 having a Master's Degree or higher.

Imbler School District is committed to technology resources and to maintaining the ratio of students and staff to functioning networked computing devices. The current student to computer ratio is 2.13 and each classroom district-wide has access to at least one computer. There are 3 labs of 57 Pentium IV workstations. One is located in the elementary wing, one in the high school and the other in the Vo Ag Building. In the library there is also a mini-lab consisting of 4 workstations. The high school also has a small lab of 6 computers for Yearbook, and two rooms with 5 computers each for student use. There are two resource rooms with 4 computers each for student use.

4. Key ESD and/or school staff involved in proposal:

Name	Title	E-Mail	Phone
Doug Hislop	Superintendent, Imbler SD	Dhislop@imbler.k12.or.us	541-534-5331
Cheri Rhinhart	IT Director, UMESD	Cheri.rhinhart@umesd.k12.or.us	541 966-3181
Cindy Naughton	Network Analyst, UMESD	Cindy.naughton@umesd.k12.or.us	541 966-3108
Casey Hampton	Desktop Support, UMESD	Casey.hampton@umesd.k12.or.us	541-663-3369
Cindy Criswell	Telecom, UMESD	Cindy.criswell@umesd.k12or.us	541-966-3211
Tom Hutchison	Network Analyst (WAN)	Tom.hutchison@umesd.k12.or.us	541 966-3187

[1] Oregon Department of Education 2006-2007 State Report Card

Allen Acevedo	Network Analyst (WAN)	Allen.acevedo@umesd.k12.or.us	541 966-3186

Technology needs of the district are provided by the Information Technology team through the UMESD.

Technology needs of the district are supported by a 1 FTE Technology coordinator in collaboration with UMESD staff. This includes, but not limited to Networking support-including, desktop support; and Instructional Technology Support.

The Imbler School District recognizes both the Oregon Technology Common Curriculum Goals and the National Educational Technology Standards (NETS) for Students as guidelines for planning technology-based activities in which students can achieve technology literacy and success in learning, communication and life skills.

5. Description and role of any contractors involved in Proposal:

Imbler School district would secure services from the selected vendor to deploy the proposed project.

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

This solution involves purchasing carrier-grade wireless equipment for the transport of 45Mbps full-duplex. Imbler School District will continue to participate in the Federal E-Rate program to leverage discounts on telecommunications costs to offset increased usage costs. Students and teachers will have access to digital curriculum and professional development resources that are dependent on adequate bandwidth.

7. 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 with an estimated 15 year minimum lifespan. It is a proven technology that will deliver 11GHz licensed full duplex. It will be over-engineered to allow for with the worst case scenario under extreme environmental conditions. We would be running 150 Mbps although the equipment is capable to 240 Mbps with an antenna upgrade.

8. Proposal budget Page:

NON-RECURRING COSTS

Item	Description	Quantity	Total
TrangoLink Giga	Includes power supplies	1	$10,800.00
AD23G-2	2-foot 23 Ghz Antennas	2	$1,800.00
Shipping			$600.00
Microwave Path License	23 Ghz Path Analysis and FCC Filing		$3,000.00
Non-Penetrating Roof Mount	Imbler Mounting Hardware/ Grain Elevator Mounting Hardware	2	$1,900.00
Cable Installation	Uni-tech Cable Installation	2	$1,700.00
Installation	Radio Installation		$2,000.00
Grounding Kit		2	$190.00
Outdoor Cat5e Blk 1000		1	$319.00
Outdoor Enclosure		1	$1,300.00
Total Non-Recurring			**$23,609.00**

RECURRING COST

Monthly Service Charge	**$825.00**