

**ANNUAL PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS**

**General Information**

<b>1. Federal Agency and Organizational Element to Which Report is Submitted</b> Department of Commerce, National Telecommunications and Information Administration	<b>2. Award Identification Number</b> NT10BIX5570116	<b>3. DUNS Number</b> 866946353
<b>4. Recipient Organization</b> North Central New Mexico Economic Development District College of Santa Fe Building T40, Santa Fe, NM 87505-7615		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b> 12-31-2013	<b>6. Is this the last Annual Report of the Award Period?</b> <p style="text-align: center;"><input checked="" type="radio"/> Yes    <input type="radio"/> No</p>	
<b>7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.</b>		
<b>7a. Typed or Printed Name and Title of Certifying Official</b> Tim Armer	<b>7c. Telephone (area code, number and extension)</b> X	
	<b>7d. Email Address</b> tima@ncnmedd.com	
<b>7b. Signature of Certifying Official</b> Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b> 03-06-2014	

**OVERALL PROJECT PERFORMANCE INDICATORS**

1. Please provide the following average cost figures for your project. Please review the instructions to determine how to calculate these figures. Write "0" in the second column and "N/A" in the third column if your project does not yet have this information. Depending on whether your project contains Middle Mile and/or Last Mile components, some metrics may not apply. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Cost Indicator	Average Cost / Speed	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Average cost per new mile (Middle Mile)	\$56,393.67	136 new route miles built at a direct capital cost of \$7,669,539.66, for the installation of the passive elements of the middle-mile transmission infrastructure. The 136 new route miles are comprised of 108 new linear fiber route miles (not actual fiber miles) and 28 new route miles of microwave transmission.
Average cost per household passed (Last Mile)	0	N/A
Average cost per subscriber (Last Mile)	0	N/A
Maximum broadband speed advertised (Middle Mile)	100Mbps	100Mbps is the maximum advertised speed pursuant to a standardized rate schedule. However, speeds up to 10Gbps are quoted on a case-by-case basis, depending on available infrastructure resources.
Maximum broadband speed advertised (Last Mile)	0	N/A
Average broadband speed provided (Middle Mile)	37Mbps	37Mbps is the average speed provided, based on actual service subscriptions.
Average broadband speed provided (Last Mile)	0	N/A

2. Please provide each facility name and type, the county where the facility is located, and census tract information for any facilities funded by your project during this annual reporting period. Report only facilities for which construction has been completed.

Facility Identifier / Name	Facility Type	County	Census Tracts
REDI Net Espanola POP	POP	Rio Arriba County, NM	35039940700
REDI Net Los Alamos POP	POP	Los Alamos County, NM	35028000400

Add Facility

Remove Facility

3. Please identify (1) the total number of interconnection, peering, and/or transit agreements entered into during this annual reporting period; (2) the total number of agreements of each type that you are currently negotiating; and (3) whether you have denied any request for interconnection and if so, why. If you have not entered into any agreements, please write "N/A."

**Interconnection Agreements (600 words or less)**

REDI Net signed SLAs with 3 downstream last-mile providers, Plateau Telecommunications, Los Alamos Network, and Cyber Mesa, for providing them with wholesale Internet and point-to-point Ethernet transport. No interconnection requests were denied for interconnection.

**Peering and Transit Agreements (600 words or less)**

REDI Net has signed one IP transit agreement, with Plateau Telecommunications, for providing REDI Net with upstream Internet bandwidth. There were no peering and/or transit agreements entered into during this reporting period, no agreements were under negotiation, and no denials were made.

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**CAPACITY, UTILIZATION, AND CAPABILITY INDICATORS**

**4. Community Anchor Institutions:** In the chart below, please provide information on the types of community anchor institutions capable of receiving service (i.e., anchor institutions connected to your network plus those passed by your network) as a result of BTOP funds.

Type of Community Anchor Institution	Total Number Within Service Area	Type of Community Anchor Institution	Total Number Within Service Area
Schools (K-12)	30	Public Housing	0
Libraries	4	Other Institutions of Higher Education	4
Medical and Healthcare Providers	12	Other Community Support Organizations	19
Public Safety Entities	17	Other Government Facilities	24
Community Colleges	0	Total Community Anchor Institutions	110

**5. Please indicate the average increase in broadband speed provided to the community anchor institution customers as a result of your project, including a description of how this increase was calculated (600 words or less).**

On average, we find that CAIs that are currently utilizing a DSL or cable modem style service are moving to a fiber service on REDI Net below 10 Mbps. However, the performance of REDI Net fiber-based services is typically far superior to that of older DSL/cable modem services, even though the "advertised" speeds might be similar numbers. So, there may not be an increase when comparing the numbers of the advertised speeds, but there are significant performance improvements on REDI Net. CAI's that are on private line T-1 type services from the incumbent telephone companies are typically moving to 10 Mbps and 20 Mbps services from REDI Net. We also find that CAIs on higher tiers of service, such as 50 Mbps and 100 Mbps, are doubling to quadrupling their capacity over the current incumbent services, indicating a market gap that REDI Net has been able to address. Based on the before/after speeds for the CAIs connected under the trial/provisional service, the average increase was ~25 Mbps.

**6. What retail services are being provided by this project? Please describe below. (600 words or less). As an attachment to this report, please provide pricing plans (in \$ per month) associated with each retail service. Retail services description:**

REDI Net provides wholesale services to Last-Mile Providers and to qualifying CAIs. REDI Net does not provide retail consumer services. REDI Net's CAI and Last-Mile Provider pricing plan is as follows:  
 1 Mbps, Ethernet & Internet Bundle, \$80.00 MRC; 1 Mbps, Ethernet Only, \$60.00 MRC  
 3 Mbps, Ethernet & Internet Bundle, \$210.00 MRC; 3 Mbps, Ethernet Only, \$157.50 MRC  
 5 Mbps, Ethernet & Internet Bundle, \$300.00 MRC; 5 Mbps, Ethernet Only, \$225.00 MRC  
 10 Mbps, Ethernet & Internet Bundle, \$500.00 MRC; 5 Mbps, Ethernet Only, \$375.00 MRC  
 15 Mbps, Ethernet & Internet Bundle, \$675.00 MRC; 15 Mbps, Ethernet Only, \$506.25 MRC  
 20 Mbps, Ethernet & Internet Bundle, \$800.00 MRC; 20 Mbps, Ethernet Only, \$600.00 MRC  
 35 Mbps, Ethernet & Internet Bundle, \$1,050.00 MRC; 35 Mbps, Ethernet Only, \$787.50 MRC  
 50 Mbps, Ethernet & Internet Bundle, \$1,200.00 MRC; 50 Mbps, Ethernet Only, \$900.00 MRC  
 75 Mbps, Ethernet & Internet Bundle, \$1,575.00 MRC; 75 Mbps, Ethernet Only, \$1,181.25 MRC  
 100 Mbps, Ethernet & Internet Bundle, \$1,800.00 MRC; 100 Mbps, Ethernet Only, \$1,350.00 MRC  
 1 Gbps, Ethernet & Internet Bundle, custom quote; 1 Gbps, Ethernet Only, custom quote  
 Services above 100 Mbps are quoted on a case-by-case basis, pending engineering analysis, network resource availability, and subcommittee review. For last-mile service providers, REDI Net also offers co-location services, on a similar custom quote process.

**7a. What network management policies (e.g., bandwidth limitations, traffic prioritization) are in place for the services provided by your project? 7b. Have you ever limited or blocked consumers from accessing any lawful content, service, service provider, or application, or prevented any consumers from attaching any legal device to the network? If so, please explain why (300 words or less)?**

REDI Net's Board of Directors has enacted a comprehensive Network Policy manual, addressing both CAI network services and wholesale services to last-mile providers. The service policies contain provisions for establishing the bandwidth rate pursuant to the tier of service being subscribed to. REDI Net does not prioritize traffic based on source/destination addressing nor application type. REDI Net forwards data packets at the speed provisioned under the service tier. REDI Net has not limited or blocked consumers from accessing any lawful content, service, service provider, or application, or prevented any consumers from attaching any legal device to the network. REDI Net's network management policies have also adopted Open Access, Nondiscrimination and Interconnection provisions, consistent the the terms provided NTIA BTOP.

**8. If applicable, please provide the total number and the percentage of subscribers who have dropped the broadband service provided through this project (total number of households and/or businesses and the "churn rate") and the subscribers' reasons for discontinuing their service (600 words or less).**

N/A. REDI Net has not experienced any churn.

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**9. Please provide the following information regarding the number of fiber strand-miles:**

Total Number of Strand-miles	Total Number of Active Fiber Strand-miles Used by Recipient	Total Number of Leased Fiber Strand-miles	Total Number of Dark Fiber Strand-miles	Total Number of Strand-miles Being Built		
				Active	Leased	Dark
16,620	16,620	0	0	0	0	0

**10. If you wholesale dark fiber, please list your wholesale customers and the number of fiber miles you currently are leasing to those customers:**

N/A. REDI Net does not currently offer wholesale access to dark fiber.

**11. Please provide the following information regarding the facility collocation capacity:**

Total Facility (total square feet for all facilities)	Number of Square Feet Used by Recipient	Number of Square Feet Leased	Number of Square Feet Available
242	242	0	18

**12. If you do not own collocation space, please describe how and where other network providers and/or customers interconnect with your network (600 words or less).**

REDI Net installed two new Point-of-Presence (POP) facilities that contain collocation space. The Espanola POP is a 242 sq. ft. facility, with 224 sq. ft. being used by REDI Net and 18 sq. ft. of collocation space available (qty. 3 2'x3' cabinets). The Espanola POP serves as a POI, by establishing physical connection through either collocation at the POP, or at a midspan meet point, depending on service provider preferences. While the Santa Fe POP facility construction is complete, it is not currently capable of establishing interconnects with REDI Net until a 3rd party fiber build is finished to the POP, post-BTOP. Therefore, the square footage of the SF POP and available collocation space is not reported above in question 11. However, once the 3rd party fiber build is completed post-BTOP, the 242 sq. ft. facility will have 230 sq. ft. used by REDI Net and 12 sq. ft. of collocation space available (qty. 2 2'x3' cabinets). The third REDI Net POP is in Los Alamos, NM. This is a shared facility which is not REDI Net property, nor was it funded through the REDI Net grant. The facility is owned by Los Alamos County government. REDI Net's space in the shared communications room is limited and does not enable collocation. However, interconnections could be established with REDI Net if the 3rd party were able to create their own presence in the shared communications room, by gaining approval from the facility owner. Midspan meet points would be another interconnect option for the Los Alamos POP. The Espanola POP and Los Alamos POP are a completed REDI Net community pair, as reported in the final APR Addendum (spreadsheet).

**13. To the extent that you have made any subcontracts or sub grants, please provide the number of subcontracts or sub grants that have been made to socially and economically disadvantaged small business (SDB) concerns as defined by section 8(a) of the Small Business Act, 15 U.S.C. 647, as modified by NTIA's adoption of an alternative small business size standard for use in BTOP. Please also provide the names of these SDB entities (150 words or less).**

not applicable

**14. Please describe any best practices/lessons learned that can be shared with other similar BTOP projects (900 words or less).**

REDI Net as a joint public network requires continuing collaboration amongst the local and tribal governments. Towards this end, much of the design, build and development of the infrastructure require consensus on achieving mutual and common benefits and impact for a large geographic region with diverse cultural and environmental fabric. Active and ongoing engagement with public and private stakeholders were critical and key to completing the middle mile open access network to the extent that it functions and operates in a robust high performance manner. This parallels the innovations for better asset management practices that attempts to align with the changing needs of the respective communities in Northern New Mexico. As a result, opportunities to expand beyond the built coverage area in collaboration with other public and private entities have actualized.

**15. Using the Excel spreadsheet template titled "Annual PPR CCI Addendum", please provide an updated list of Community Anchor Institutions (CAIs) that you have connected and plan to connect to your network.**

DATE: 03/06/2014

**16. Using the Excel spreadsheet template titled "Annual PPR CCI Addendum", please provide a list of community pairs that are receiving new or improved broadband service as a result of BTOP grant funds.**

**17. Please provide up-to-date network route maps in a single file, in a Google Earth compatible format (e.g., KMZ file).**