

RECIPIENT NAME:University of Arkansas System

AWARD NUMBER: NT10BIX5570102

DATE: 03/16/2012

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

ANNUAL PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570102	3. DUNS Number 122452563
4. Recipient Organization University of Arkansas System 4301 W. Markham St, ST63, Little Rock, AR 72205-7101		
5. Current Reporting Period End Date (MM/DD/YYYY) 12-31-2011	6. Is this the last Annual Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> No	
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.		
7a. Typed or Printed Name and Title of Certifying Official Suzanne Alstadt	7c. Telephone (area code, number and extension) X	
	7d. Email Address sealstadt@uams.edu	
7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 03-16-2012	

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)	0	The network is still being built-out. Per instructions, the information is N/A until deployment for the network is complete and in service.
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)	10Gpbs	The ARE-ON backbone can support connection speeds up to 10Gpbs. Current plans are for 1Gbps connections to all ARE-ON's CAIs.
Maximum broadband speed advertised (Last Mile)	0	N/A
Average broadband speed provided (Middle Mile)	1Gbps	The ARE-ON backbone can support connection speeds up to 10Gpbs. Current plans are for 1Gbps connection to all ARE-ON's CAIs.
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
N/A	N/A	N/A	N/A

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)

N/A

Peering and Transit Agreements (600 words or less)

N/A

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)	0	Public Housing	0
Libraries	8	Other Institutions of Higher Education	12
Medical and Healthcare Providers	415	Other Community Support Organizations	0
Public Safety Entities	1	Other Government Facilities	6
Community Colleges	22	Total Community Anchor Institutions	464

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).

The project's healthcare CAI were provided with new broadband, therefore their increase would be 100%. This consists of 307 sites with <10Mbps; 82 sites with >= 10Mbps and <50Mbps; seven sites with >= 100Mbps and <1000Mbps.

The average broadband speed for the two-year colleges (12 of 22 respondents) is 21.4Mbps (minimum is 6Mbps, maximum is 56Mbps). The project is providing 1000Mbps (1Gbps) connections to each of the schools, for an average increase of 978.6Mbps. The individual schools can opt for any commodity Internet bandwidth up to the full 1000Mbps per their campus needs and budget. The increase was calculated as the current average broadband speed subtracted from the new connection speed of 1000Mbps.

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:

N/A

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)?

The project currently does not have any portion of the expanded network completed or in service. However, the project's network management policies are to provide commodity Internet services up to the amount of bandwidth contracted for by the CAI and rate limit based on that contracted bandwidth. However, connections to other ARE-ON members and to research networks, such as Internet2 and National LambdaRail, are not rate limited. No traffic prioritization is planned or occurring unless specifically requested by the CAI (such as to give video conferencing traffic a higher priority over that CAI's other traffic). ARE-ON does not block or filter content of any type to its members. ARE-ON has no policies or practice that restricts the connection of any legal device to its network. However, ARE-ON's members, which are institutions of higher education, define their own policies about content filtering for their users or what devices they will permit to connect to their respective campus networks.

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

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
10,240	0	0	0	0	4,141	6,099

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

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
200	196	0	4

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).

Network providers will interconnect with our network at meet points outside our collocation facilities and transition via our fiber into the collocation facility. Network providers can also interconnect at one of our member institutions where we maintain a presence.

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).

N/A

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

Items to consider should include standardization of data, data management and face-to-face contact in the field with CAI. Structure a strong plan for inventory management and support. Block time for adequate reporting preparation and submission for both federal and internal needs.

For fiber construction, use only contractors experienced in installing, splicing, and testing the type of fiber plant you are building, such as long-haul, metro, residential, etc. Be as specific as possible about every aspect of the construction, including setting minimum standards for testing and acceptance. In selecting the contractors, consider an interview or selection process that identifies specific skill levels needed for the type of fiber and writing specifications for such in the contract. Pay for and perform independent inspection by your engineering firm to ensure that construction meets all engineering design standards. For hut construction, be as detailed as possible on every aspect of their construction. Consider having your hut manufacturer install as much internal infrastructure as possible, including generators, racks, power, security, etc. at the factory.

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.

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).