

RECIPIENT NAME:Iowa Communications Network

AWARD NUMBER: NT10BIX5570069

DATE: 02/19/2014

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 6/30/2015

### 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> NT10BIX5570069	<b>3. DUNS Number</b> 943058925
<b>4. Recipient Organization</b>  Iowa Communications Network 400 E 14TH ST, Des Moines, IA 50319-9000		
<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>  <input checked="" type="radio"/> Yes <input type="radio"/> No	
<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>  Mike Cruise	<b>7c. Telephone (area code, number and extension)</b>  X	
	<b>7d. Email Address</b>  Mike.Cruise@iowa.gov	
<b>7b. Signature of Certifying Official</b> Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b> 02-19-2014	

**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)	69,538	Baseline says 89,358. Variance due to over-estimation in baseline. Costs calculated include only the fiber build from the ICN backbone to the Sac & Fox backbone and the fiber build costs from Decorah divided by the mileage from those builds.
Average cost per household passed (Last Mile)	4,564	Baseline says N/A. Includes 197 households passed. Variance due to over-estimation in the baseline.
Average cost per subscriber (Last Mile)	4,564	Baseline says 7,717. Includes 197 subscribers served. Variance due to over-estimation in the baseline.
Maximum broadband speed advertised (Middle Mile)	1Gbps	No variation from baseline.
Maximum broadband speed advertised (Last Mile)	1Gbps	No variation from baseline.
Average broadband speed provided (Middle Mile)	78Mbps	Baseline was calculated using only the new IRU customers and did not factor in the increases from existing customers. This figures represents the average speed of all middle mile circuits being provided.
Average broadband speed provided (Last Mile)	44Mbps	Baseline was calculated using only the new IRU customers and did not factor in the increases from existing customers. This figures represents the average speed of all last mile circuits being provided.

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
Attachment	Attachment	Attachment	Attachment

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 Project does not include interconnection agreements.

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

N/A No new peering and/or transit agreements have been entered in to.

**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)	596	Public Housing	0
Libraries	61	Other Institutions of Higher Education	204
Medical and Healthcare Providers	203	Other Community Support Organizations	117
Public Safety Entities	343	Other Government Facilities	1,185
Community Colleges	109	Total Community Anchor Institutions	2,818

**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).**

Customers turn up as part of the BTOP program now now have a minimum of 10 Mb each. This represents an average increase of 8.95 Mb per customer added. Based on total CAIs added, that represents an increase of 2.1 Gb of network to the community overall. Sites receiving new connectivity previously had in the 1.5 Mb-3Mb range prior to the BTOP program, now they can get up to 980 Mb per location. Sites receiving new edge routers were previously limited to 45 Mb, with an available segment for broadband of up to 25 Mb. Now, those sites can get slightly more than 980 Mb. Users at aggregation sites were previously limited to 25 Mb or 980 Mb connections and now have the capability of nearly 10 Gb of usable bandwidth.

**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:**

Ethernet Private Line Service - Symmetrical, 10Mbps \$360 per month  
 Ethernet Private Line Service - Symmetrical, 20Mbps: \$500 per month  
 Ethernet Private Line Service - Symmetrical, 50Mbps: \$750 per month  
 Ethernet Private Line Service - Symmetrical, 100Mbps: \$900 per month  
 Ethernet Private Line Service - Symmetrical, 1Gbps: \$2,100 per month  
 Premium Internet - Symmetrical, 10Mbps: \$920 per month  
 Premium Internet - Symmetrical, 20Mbps: \$1,480 per month  
 Premium Internet - Symmetrical, 500Mbps: \$3,385 per month  
 Premium Internet - Symmetrical, 100Mbps: \$5,661 per month

**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 has no non-capacity related bandwidth limitations. During normal operations, traffic is not prioritized. During declared emergencies and public safety events, traffic may be prioritized to public safety organizations as defined by law. The project includes no restrictions on any legal device.

**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).**

The original grant included 3,080 CAIs expected to receive new or improved service. The final count was 2,818 CAIs receiving new or improved service. This represents a total change of 262 fewer CAIs or a 8.5% decrease. A total of 103 CAIs dropped service because it was no longer needed. A total of 32 CAIs were dropped because the customer location was closed. A total of 74 CAIs were dropped from the list because they did not meet the definition of CAI. A total of 49 CAI were dropped from the project due to overlap with another BTOP recipient. A total of 10 CAIs were removed due to an inability of the carrier to deliver network connectivity. A total of 3 CAIs were removed because they were duplicative. This represents 262 CAIs removed from the project for various reasons. A total of 9 CAIs were added via approved AARs bringing the grand total to 2,818.

**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
19,009	17,497	0	1,512	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 ICN does not wholesale dark fiber.

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**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
0	0	0	0

**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).**

As a state agency, the ICN receives collocation space without charge from its authorized users.

**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).**

During 2011 and 2012, engineering services for the Sac and Fox Tribe portion of the BTOP grant were provided by TURTLE ISLAND COMMUNICATION, INC. 2513 94th Avenue North, Brooklyn Park, Minnesota 55444

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

CAI lists should be carefully managed and trued up with NTIA on a quarterly basis to avoid process complications. AARs for CAI changes should be submitted at least quarterly. Recipients should closely monitor sub-recipients and ensure funds are not released until sub-recipient reporting and other obligations are met.

**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).**

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