

RECIPIENT NAME: Department of Information Technology

AWARD NUMBER: NT10BIX5570097

DATE: 07/14/2016

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2015

## 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> NT10BIX5570097	<b>3. DUNS Number</b> 023716181
<b>4. Recipient Organization</b>  Department of Information Technology 715 Alta Vista, Santa Fe, NM 87505-4108		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  12-31-2015	<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>  Peter Gonzales  Financial Coordinator	<b>7c. Telephone (area code, number and extension)</b>  5058270023	
	<b>7d. Email Address</b>  PeterJ.Gonzales@state.nm.us	
<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  07-14-2016	

**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)	\$10,080.81	This is the first year that the calculation was made.
Average cost per household passed (Last Mile)	N/A	Public-safety project.
Average cost per subscriber (Last Mile)	N/A	Public-safety project.
Maximum broadband speed advertised (Middle Mile)	300 Mb/s	Maximum broadband speed has been established at 300 Mb/s, which has not yet been advertised.
Maximum broadband speed advertised (Last Mile)	Variable	Due to the significant variation in transmission speeds due to terrain and distance from the nearest tower, the Department of Information of Technology (DoIT) does not advertise last mile broadband speed.
Average broadband speed provided (Middle Mile)	150 Mb/s	Following generally accepted network practices, 150 Mb/s is the average capacity.
Average broadband speed provided (Last Mile)	50 Mb/s	LTE Broadband speed is currently throttled to 50 Mb/s at all six Radio Antenna Network (RAN) sites to avoid over saturation of Middle Mile infrastructure.

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)**

DoIT has established the following interconnection agreements:

- Adams County, Colorado (ADCOM) which gives DoIT permission to utilize ADCOM's LTE Core.
- CenturyLink (CL)
  - o CL physical link between the DoIT's sub-core located in Santa Fe, NM with ADCOM's LTE Core located in Adams County, CO.
  - o CL Metropolitan Optical Ethernet (MOE) leased circuits are used throughout NM for redundancy and alternative back haul applications.
- Plateau
  - o Metropolitan Optical Ethernet (MOE) leased circuits are used throughout NM for redundancy and alternative back haul applications.
- Baca Valley Telecom
  - o Metropolitan Optical Ethernet (MOE) leased circuits are used throughout NM for redundancy and alternative back haul applications.

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

DoIT has established a peering agreement with Adams County, Colorado (ADCOM) which gives DoIT permission to utilize ADCOM's LTE Core.

DoIT has established a transit agreement with CenturyLink which provides the physical link between the DoIT's sub-core located in Santa Fe, NM with ADCOM's LTE Core located in Adams County, CO.

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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)	0	Public Housing	0
Libraries	0	Other Institutions of Higher Education	0
Medical and Healthcare Providers	0	Other Community Support Organizations	0
Public Safety Entities	23	Other Government Facilities	0
Community Colleges	0	<b>Total Community Anchor Institutions</b>	<b>23</b>

**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 average increase in broadband speed to community anchor institutions is 298 Mb/s (20,026% increase). This is the difference between the legacy T1 (1.488 Mb/s) and the upgraded ethernet capable broadband system running up to 300 Mb/s.

**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 - Public-safety project.

**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)?**

7a. DoIT has placed a 50 Mb/s bandwidth limitation for last mile LTE users in order to manage bandwidth demand on the middle mile infrastructure. This limitation may be lifted on a case by case basis as warranted. In addition, public safety voice protocol is given priority over other data traffic.

7b. DoIT only installs LTE SIM cards into UE devices for valid first responders. At present, DoIT does not limit or block users from accessing lawful content, service, service providers, or applications.

**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
656	656	656	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 – Public-safety project

**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
5,760	4,608	0	1,152

**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).**

N/A – Public-safety project.

**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 – Public-safety project.

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

Best Practices: Early grant preparation with regards to Environmental Assessments (EAs). Early establishment of Lease and Right-of-Way agreements. Early modifications to vendor price agreements as applicable.

Lessons Learned: Ensure efforts are made early in the program with respect to Davis Bacon Act wage determination, procedures and reporting. Need for early establishment of accurate financial tracking.

**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).**