AWARD NUMBER: NT10BIX5570135

OMB CONTROL NUMBER: 0660-0037 EXPIRATION DATE: 6/30/2015 DATE: 01/20/2014

ANNUAL PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS				
General Information				
Federal Agency and Organizational Element to     Which Report is Submitted	2. Award Identifica	ation Number	3. DUNS Number	
Department of Commerce, National Telecommunications and Information Administration	NT10BIX557013	5	961890741	
4. Recipient Organization				
Information Technology, Maryland Department of 45 (	Calvert Street, And	napolis, MD 21401	1-1994	
5. Current Reporting Period End Date (MM/DD/YYYY)		6. Is this the last	Annual Report of the Award Period?	
12-31-2013			Yes	
7. Certification: I certify to the best of my knowledge and purposes set forth in the award documents.	l belief that this rep	oort is correct and o	complete for performance of activities for the	
7a. Typed or Printed Name and Title of Certifying Official		7c. Telephone (are	ea code, number and extension)	
Gregory Urban		4102607279		
		7d. Email Address		
Deputy State CIO		gregory.urban@doit.state.md.us		
7b. Signature of Certifying Official		7e. Date Report Si	ubmitted (MM/DD/YYYY):	
Submitted Electronically		01-20-2014		

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## **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) \$86,235		Final average cost per new mile
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)	40Gbps	40Gbps is the maximum advertised broadband speed.
Maximum broadband speed advertised (Last Mile)	0	N/A
Average broadband speed provided (Middle Mile)	1Gbps	1Gbps is the average broadband speed for middle mile. We offer the following speed tiers 10Mgps, 100Mgps, 1Gbps, 10Gbps and 40Gbps.
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
Wye Mills 125 Owens Road, Queen Anne, 21657	HUT	Queen Anne's	810500
Cambridge 833 Fieldcrest Road, Cambridge, 21613	HUT	Dorchester	970702
Salisbury 6280 Hobbs Road, Salisbury, 21804	HUT	Wicomico	010606
Berlin 10129 Old Ocean City Road, Berlin, 21811	HUT	Worcester	951000
Wallops Mill Dam Road, Wattsville, 23356	нит	Accomack	990200

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)

- 1) 12
- We currently are negotiating 56 agreement with broadband wholesalers.
- 3) No request for interconnection has been denied.

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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.

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Type of Community Anchor Institution	Total Number Within Service Area	Type of Community Anchor Institution	Total Number Within Service Area
Schools (K-12)	497	Public Housing	0
Libraries	58	Other Institutions of Higher Education	9
Medical and Healthcare Providers	7	Other Community Support Organizations	41
Public Safety Entities	250	Other Government Facilities	190
Community Colleges	16	Total Community Anchor Institutions	1,068

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 CAIs as a result of the OMBN project is approximately 1 Gbps, or 1,000 Mbps. Nearly all CAIs encompassed by this project had, or still have, very limited broadband connectivity; typical connections prior to upgrade through the OMBN project were T1 circuits providing dedicated 1.5 Mbps. All new and planned CAI connections range from dedicated, symmetrical speeds of 100Mbps to 1 Gbps. One CAI was increased from 1.5Mbps to 100 Mbps, or 98.5Mbps increase. All the other CAIs were increased from 1.5Mbps to 1Gbps, or a 998.5Mbps increase. The overall average increase in broadband speed for OMBN is calculated at 996.9Mbps.

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:

Not providing retail services.

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. In the context of open access interconnection and non-discriminatory network management, the OMBN project is comprised of two primary components.

DOIT / MdBC – The Maryland Broadband cooperative is providing the open access requirement for the DOIT portion of the project. The MdBc is being granted 96 fibers through an IRU with DOIT. These fibers will be available along all backbone route miles constructed as part of the DOIT portion of the grant Program. MdBC does not provide active "managed" network transport services to commercial providers, and as such will not be capable of imposing bandwidth limitations (beyond the leased amount), prioritizing traffic, or otherwise controlling network traffic carried over leased fiber strands."

ICBN – The subgrant award to ICBN is based on the provision of a minimum of 24-fiber strands for open access lease to qualified commercial providers on a non-discriminatory basis. These fibers will be available along all route miles constructed as part of the ICBN portion of the grant Program. Currently ICBN consortium members are not planning to provide active "managed" network transport services to commercial providers, and as such will not be capable of imposing bandwidth limitations, prioritizing traffic, or otherwise controlling network traffic carried over leased fiber strands."

7b.	No
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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).

0-percent

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

Total Number of	Total Number of Active Fiber	Total Number of Leased Fiber	Total Number of Dark Fiber	Total Number of Strand-miles Being Built  Active Leased Dark		eing Built
Strand-miles	Strand-miles Used by Recipient	Strand-miles	Strand-miles			Dark
203,650	88,696	53,824	61,130	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:

0

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
6,760	3,900	330	2,530

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).

Where One Maryland Broadband Network does not have collocation access, network providers and/or customer can access dark fiber infrastructure at outdoor fiber optic splice enclosures, which occur regularly throughout the outside fiber optic plant infrastructure.

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).

The Canton Group is an IT services company and is providing resources for grant financial administration, project management, and construction quality assurance. The Canton Group is an existing subcontractor for the Maryland Department of IT (DOIT), and has been subcontracted work by the prime contractor to DOIT to comply with State MBE goals.

IPX International system Inc. is the warehousing vendor for ICBN.

Baytek is an engineering subcontractor for DoIT

Mack Communication is an engineering subcontractor for both ICBN & DoIT

CTC is an engineering subcontractor for ICBN

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

For other BTOP projects, particularly those involving multiple government recipients and sub recipients over a large geographic area, we offer the following best practices:

As a state government agency with sub recipients of different types, there were a number of lessons that we learned along the way.

The first lesson and most important is that we cannot do this project alone. We needed the help and collaboration of many of the state and local government agencies to get this done. Some of the relationships were not developed ahead of time so we had to create them as needed.

The second, is that things will take longer to get done, than the forms or guidance says it will. Time must always be allotted for people and agencies to do their work and then get it back to you.

The third, make sure to pay attention to and attend the webinars and circulars that are put out by the respective agencies for your

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Lastly, make sure to build a strong relationship with your federal officers on the project. As we faced challenges and successes on this project, the relationship with our team helped us to navigate the changes and move forward.  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.	
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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.	Lastly, make sure to build a strong relationship with your federal officers on the project. As we faced challenges and successes on this project, the relationship with our team helped us to navigate the changes and move forward.
new or improved broadband service as a result of BTOP grant funds.	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.
17. Please provide up-to-date network route maps in a single file, in a Google Earth compatible format (e.g., KMZ file).	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).