

RECIPIENT NAME:University of Utah, The

AWARD NUMBER: NT10BIX5570024

DATE: 08/07/2012

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

QUARTERLY 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 NT10BIX5570024	3. DUNS Number 009095365
4. Recipient Organization University of Utah, The 201 Presidents Cir., Rm 408, Salt Lake City, UT 84112-9023		
5. Current Reporting Period End Date (MM/DD/YYYY) 06-30-2012	6. Is this the last 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 Lisa Kuhn Dir. of Finance UIT	7c. Telephone (area code, number and extension) 8015853224	
	7d. Email Address Lkuhn@media.utah.edu	
7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 08-07-2012	

Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 For the second quarter of 2012, The University of Utah / Utah Education Network (U of U/UEN) is pleased to report significant progress in the continued build out of the network and connectivity of Community Anchor Institutions (CAIs).

The U of U/UEN has completed the installation of fiber for the Salt Lake and Logan Middle Mile Optical segments which completes all but one (1) percent of the total fiber installation for the U of U/UEN BTOP project. This work also included the installation of Optronics equipment for the Salt Lake segment. A Re-budget Request submitted by the U of U/UEN this past April was approved by the NTIA in May and included one additional Optical Amplifier the for Logan Middle Mile segment and one hundred (100) gigabit optics for connecting the Salt Lake Middle Mile segment to the Internet 2 National Backbone. These additional parts have been ordered and delivery is expected during the third (3rd) quarter.

The U of U/UEN has successfully completed connectivity to one hundred twenty-six (126) CAIs, which is ten (10) less than projected in our baseline. Obstacles encountered during fiber installations, such as crushed conduit have delayed the turn up of several CAIs, slipping our implementation schedule. As such, the U of U/UEN will miss this milestone for the 2nd quarter.

Other important activities include the continued development and distribution of information for community outreach purposes.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	48	This milestone is behind schedule. Although project implementation is on schedule the amount of funds spent to date is less than projected. The U of U/UEN billing process does not permit payment to sub-recipients until work is completed. For this reason the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
2b.	Environmental Assessment	100	The NTIA approved the U of U/UEN Environmental Assessment and issued a Finding of No Significant Impact (FONSI) in November of 2010.
2c.	Network Design	100	All network designs and contracts with Telecommunication Providers have been completed.
2d.	Rights of Way	100	All Rights of Way for this project have been approved and build out is underway.
2e.	Construction Permits and Other Approvals	100	All Construction Permits have been granted and build out is underway.
2f.	Site Preparation	48	This milestone is behind schedule. Although project implementation is on schedule the amount of funds spent to date is less than projected. The U of U/UEN billing process does not permit payment to sub-recipients until work is completed. For this reason the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
2g.	Equipment Procurement	90	This milestone is behind schedule. A Re-budget Request submitted by the U of U/UEN this past April was approved by the NTIA in May and included one additional Optical Amplifier the for Logan Middle Mile segment and one hundred (100) gigabit optics for connecting the Salt Lake Middle Mile segment to the Internet 2 National Backbone. The U of U/UEN is expecting to take delivery of this equipment in the third (3rd) quarter completing all equipment procurement.
2h.	Network Build (all components - owned, leased, IRU, etc)	48	This milestone is behind schedule. Although project implementation is on schedule the amount of funds spent to date is less than projected. The U of U/UEN billing process does not permit payment to sub-recipients until work is completed. For this reason the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
	2i. Equipment Deployment	48	This milestone is behind schedule. Although project implementation is on schedule the amount of funds spent to date is less than projected. The U of U/UEN billing process does not permit payment to sub-recipients until work is completed. For this reason the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
	2j. Network Testing	48	This milestone is behind schedule. Although project implementation is on schedule the amount of funds spent to date is less than projected. The U of U/UEN billing process does not permit payment to sub-recipients until work is completed. For this reason the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
	2k. Other (please specify):	0	N/A

3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

The U of U/UEN's major challenges during this quarter have been related to construction activities. Specifically, crushed conduit and blocked inner-duct during fiber installations. Non of these obstacles could be anticipated, but required substantial time and manpower to resolve. These delays created enough slippage in the project schedule to cause the U of U/UEN to miss the milestone for CAIs connected for the 2nd quarter.

4. Please report the following information regarding network build progress. Write "0" in the Total column and "N/A" in the Narrative column if your project does not include this activity. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	54	This milestone is behind schedule. Obstacles encountered during fiber installations, such as crushed conduit, have delayed the installation at some locations, slipping our implementation schedule. Despite this delay, ninety-three (93) percent of the total number of new fibers miles has been completed. As such, the U of U/UEN will miss this milestone for the quarter.
New network miles leased	1,333	This milestone is on schedule and accounts for ninety-nine (99) percent of the total number of leased fiber miles for the project.
Existing network miles upgraded	0	No variance to Baseline Report.
Existing network miles leased	0	No variance to Baseline Report.
Number of miles of new fiber (aerial or underground)	54	This milestone is behind schedule. Obstacles encountered during fiber installations, such as crushed conduit, have delayed the installation at some locations, slipping our implementation schedule. Despite this delay, ninety-three (93) percent of the total number of new fibers miles has been completed. As such, the U of U/UEN will miss this milestone for the quarter.
Number of new wireless links	0	No variance to Baseline Report.
Number of new towers	0	No variance to Baseline Report.
Number of new and/or upgraded interconnection points	126	This milestone is behind schedule. Obstacles encountered during fiber installations, such as crushed conduit, have delayed the installation at some locations, slipping our implementation schedule. The U of U/UEN has successfully completed connectivity to one hundred twenty-six (126) CAIs, which is ten (10) less than projected in our baseline. As such, the U of U/ UEN will miss this milestone for the quarter.

For questions 5 and 6 please include information relating to agreements that you are negotiating or have entered into, or that your sub recipient, contractor or subcontractor is negotiating or entered into.

5a. If applicable, please provide the following information with regard to agreements with broadband wholesalers and/or last mile providers as a result of your project.

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	6
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	0
Average term of signed agreements (in quarters)	40

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers:

1. Qwest Communications Corporation / CenturyLink
2. UTOPIA (Utah Telecommunications Open Infrastructure Agency)
3. CentraCom Interactive
4. Wireless Beehive
5. Syringa Networks
6. Zayo

5c. What wholesale services are being provided by this project? Please describe below. As an attachment to this report, please provide pricing plans (in \$ per month) associated with each wholesale service provided by your product (100 words or less). Wholesale services description:

The U of U/UEN is not a wholesale provider. Our BTOP project will deliver broadband connections to specific CAIs working with incumbent Telecommunications Providers who will provision critical fiber infrastructure to the CAI end sites. These Telecommunications Providers intend to make sue of this infrastructure by offering telecommunication services to residential and business customers on a retail basis in these service areas.

5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this third party operates (600 words or less).

All of the following Telecommunications Partners are sub recipients and will operate a portion of the U of U/UEN network. They will be pproviding the U of U/UEN with an end to end service that includes responsibility for monitoring, managing and maintaining the fiber physical infrastructure as well as the optical transport equipment. In all cases this includes Customer Premise Equipment (CPE) that will require on site access by the Telecommunications Partners for troubleshooting and or maintenance of this equipment.

1. Qwest Communications Corporation / CenturyLink (sub recipient) - Salt Lake City, Utah, (800) 899-7780
2. UTOPIA (sub recipient) - West Valley City, Utah, (801) 613-3800
3. CentraCom Interactive (sub recipient) - Fairview, Utah, (800) 427-8449
4. Wireless Beehive (sub recipient) - Lakepoint, Utah, (435) 837-6000

6. Please provide the data according to the type of subscriber. Write "0" in the Total column and "N/A" in the Narrative column if your project does not pass or serve a particular subscriber type. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (300 words or less).

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	0	All four sub-recipients that we have entered into agreements with, have existing service.
	Providers with signed agreements receiving improved access	6	Four sub-recipients that we have entered into agreements with, will see improvements to existing services as a result of this project. The two others are in support of fiber IRUs.
	Providers with signed agreements receiving access to dark fiber	0	There are no dark fiber segments included in this project which is consistent with the Baseline Report.
	Please identify the speed tiers that are available and the number of subscribers for each	6	100000 Mbps = 1, 10000 Mbps = 4, 1000 Mbps = 6, 100 Mbps = 6, 10 Mbps = 6, 2 Mbps = 6
Community Anchor Institutions (including Government institutions)	Total subscribers served	126	The U of U/UEN has successfully completed connectivity to one hundred twenty-six (126) CAIs, which is ten (10) less than projected in our baseline. Obstacles encountered during fiber installations, such as crushed conduit, have delayed the turn up of several CAIs, slipping our implementation schedule. As such, the U of U/UEN will miss this milestone for the quarter.

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	Subscribers receiving new access	0	None if the CAI installations completed is receiving new access This is consistent with the Baseline Report.
	Subscribers receiving improved access	126	All of the CAI installations completed are receiving improved access. This is consistent with the Baseline Report.
	Please identify the speed tiers that are available and the number or subscribers for each	6	100000 Mbps = 0, 10000 Mbps = 0, 1000 Mbps = 81, 100 Mbps = 36, 10 Mbps = 8, 2 Mbps = 1
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Businesses	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

7. Please describe any special offerings you may provide (600 words or less).

The U of U/UEN is not providing any special offerings.

8a. Have your network management practices changed over the last quarter? Yes No

8b. If so, please describe the changes (300 words or less).

The U of U/UEN has not changed its Network Management Practices during this past quarter.

9. Community Anchor Institutions:

Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions) connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
Lincoln Academy	Pleasant Grove, Utah	School (K-12)	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/UEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Cedar Ridge Elementary	Cedar Hills, Utah	School (K-12)	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/UEN backbone and access

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
				Wide Area Network (WAN) services, including Internet connectivity.
Legacy Elementary	American Fork, Utah	School (K-12)	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Mount Mahogany Elementary	Pleasant Grove, Utah	School (K-12)	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Murray Head Start	Murray, Utah	School (K-12)	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Soldier Hollow Elementary	Midway, Utah	School (K-12)	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Valley View Elementary	Pleasant Grove, Utah	School (K-12)	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
University of Utah	Salt Lake City, Utah	Salt Lake Middle Mile Optical Anchor	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Utah Education Network	Salt Lake City, Utah	Salt Lake Middle Mile Optical Anchor	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Utah State University	Logan, Utah	Logan Middle Mile Optical Anchor	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.
Utah Transit Authority Headquarters	Salt Lake City, Utah	Salt Lake Middle Mile Optical Anchor	Yes	BTOP funding is providing the network infrastructure necessary for the CAI to connect to the U of U/JEN backbone and access Wide Area Network (WAN) services, including Internet connectivity.

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).

The U of U/JEN is planning on continuing emphasis on the network build out activities and installation and turn up of CAIs. The U of U/JEN is projecting that the installation and turn up of all CAIs will be completed during the 3rd quarter. We also expect to receive shipment and install the remaining optical transport hardware for the Logan Middle Mile segment, completing the implementation phase of the U of U/JEN Utah Anchors Community Broadband Project.

- a. New network miles deployed = 58
- b. New network miles leased = 1,344
- c. Existing network miles upgraded = 0
- d. Existing network miles leased = 0
- e. Total CAI subscribers served (CAIs connected) = 140
- f. Number of signed agreements with broadband wholesalers or last mile providers = 4

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	56	The U of U/UEN expects this milestone will not meet the projected percentage of completion for the upcoming quarter. Although the project build out and implementation is on schedule the federal funds expended is less than projected. The U of U/UEN billing process does not allow payment to sub-recipients until work is completed. As such, the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
2b.	Environmental Assessment	100	No variance to Baseline Report
2c.	Network Design	100	No variance to Baseline Report
2d.	Rights of Way	100	No variance to Baseline Report
2e.	Construction Permits and Other Approvals	100	No variance to Baseline Report
2f.	Site Preparation	56	The U of U/UEN expects this milestone will not meet the projected percentage of completion for the upcoming quarter. Although the project build out and implementation is on schedule the federal funds expended is less than projected. The U of U/UEN billing process does not allow payment to sub-recipients until work is completed. As such, the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
2g.	Equipment Procurement	100	No variance to Baseline Report
2h.	Network Build (all components - owned, leased, IRU, etc.)	56	The U of U/UEN expects this milestone will not meet the projected percentage of completion for the upcoming quarter. Although the project build out and implementation is on schedule the federal funds expended is less than projected. The U of U/UEN billing process does not allow payment to sub-recipients until work is completed. As such, the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
2i.	Equipment Deployment	56	The U of U/UEN expects this milestone will not meet the projected percentage of completion for the upcoming quarter. Although the project build out and implementation is on schedule the federal funds expended is less than projected. The U of U/UEN billing process does not allow payment to sub-recipients until work is completed. As such, the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
2j.	Network Testing	56	The U of U/UEN expects this milestone will not meet the projected percentage of completion for the upcoming quarter. Although the project build out and implementation is on schedule the federal funds expended is less than projected. The U of U/UEN billing process does not allow payment to sub-recipients until work is completed. As such, the draw down of federal funds is delayed and will follow the completion of construction and network build out activities.
2k.	Other (please specify):	0	N/A

3. Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

The major challenges facing the U of U/UEN for this upcoming quarter once again involves implementation activities and the network build out against the schedule. The careful monitoring of this work is important and the ability to quickly address unforeseen obstacles faced by the Telecommunications Providers so that they do not impact the projected milestones.

Infrastructure Budget Execution Details

Activity Based Expenditures (Infrastructure)

1. Please provide details below on your total budget, cumulative actual expenditures (for the period ending the current quarter), and cumulative anticipated expenditures (for the period ending next quarter) for each line item, including detailed disbursements of both matching funds and federal funds from project inception through end of this quarter (actual) or next quarter (anticipated). Actual and anticipated figures should be reported cumulatively from award inception to the end of the applicable reporting quarter.

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$3,500	\$3,500	\$0	\$3,490	\$3,490	\$0	\$3,490	\$3,490	\$0
b. Land, structures, right-of-ways, appraisals, etc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$1,273,375	\$14,375	\$1,259,000	\$834,280	\$14,375	\$819,905	\$867,816	\$14,375	\$853,441
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$4,193,670	\$931,302	\$3,262,368	\$368,015	\$91,344	\$276,671	\$444,267	\$106,594	\$337,673
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$7,742,930	\$1,908,078	\$5,834,852	\$4,785,785	\$1,196,442	\$3,589,343	\$5,514,424	\$1,378,602	\$4,135,822
j. Equipment	\$3,708,900	\$741,780	\$2,967,120	\$1,857,613	\$371,522	\$1,486,091	\$2,451,512	\$490,302	\$1,961,210
k. Miscellaneous	\$573,316	\$495,560	\$77,756	\$603,503	\$518,209	\$85,294	\$603,503	\$518,209	\$85,294
l. SUBTOTAL (add a through k)	\$17,495,691	\$4,094,595	\$13,401,096	\$8,452,686	\$2,195,382	\$6,257,304	\$9,885,012	\$2,511,572	\$7,373,440
m. Contingencies									
n. TOTALS (sum of l and m)	\$17,495,691	\$4,094,595	\$13,401,096	\$8,452,686	\$2,195,382	\$6,257,304	\$9,885,012	\$2,511,572	\$7,373,440

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$0	b. Program Income to Date: \$0
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