AWARD NUMBER: NT10BIX5570075 DATE: 08/14/2012

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS							
General Information							
1. Federal Agency and Organizational Element to Which Report is Submitted	2. Award Identific	ation Number	3. DUNS Number				
Department of Commerce, National Telecommunications and Information Administration	NT10BIX557007	75	969524214				
4. Recipient Organization	1						
University Corporation For Advanced Internet De	evelopment 1150	18th Street, NW, #102	20, Washington, DC 20036-3825				
5. Current Reporting Period End Date (MM/DD/YYY	YY)	6. Is this the last Rep	ort of the Award Period?				
06-30-2012		◯ Yes ● No					
7. Certification: I certify to the best of my knowledg purposes set forth in the award documents.	ge and belief that th	is report is correct and	I complete for performance of activities for the				
7a. Typed or Printed Name and Title of Certifying O	official	7c. Teleph	one (area code, number and extension)				
Nili Tannenbaum		x					
		7d. Email Address					
		ntannen@internet2.edu					
7b. Signature of Certifying Official		7e. Date Report Submitted (MM/DD/YYYY):					
Submitted Electronically		08-14-2012					

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Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less). Internet2 made considerable progress toward completion of the optical network. The following segments are commissioned:

Houston to El Paso El Paso to Los Angeles El Paso to Albuquerque Houston to Jackson Jackson to Nashville

The only section of the newly acquired dark fiber footprint to remain lit is the west coast fiber from Los Angeles to Seattle. Internet2 also placed orders for and received the majority of its Layer2/3 equipment and is in the process of staging it for install next quarter.

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	75	Internet2 has advanced the overall deployment schedule by roughly a year and completed a substantial amount of the Phase 3 Ciena optical build by the end of June. However the overall project, in terms of expenditures, is lagging behind the baseline. The Internet2 project is substantially complete. The entire project will complete ahead of schedule.
2b.	Environmental Assessment	0	NA
2c.	Network Design	100	Network design was completed Year 1, Quarter 1.
2d.	Rights of Way	0	NA
2e.	Construction Permits and Other Approvals	0	NA
2f.	Site Preparation	0	NA
2g.	Equipment Procurement	80	Internet2 met the baseline for this metric.
2h.	Network Build (all components - owned, leased, IRU, etc)	95	Internet2 has completed procurements and installation is ongoing. Once installation, test, turn up, and billing are complete, this metric will catch up with the baseline.
2i.	Equipment Deployment	80	Internet2 surpassed the baseline for this metric.
2j.	Network Testing	0	NA
2k.	Other (please specify):	0	NA

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).

We did not face any additional challenges or issues this past quarter in achieving planned progress against project milestones. We do not expect any problems or roadblocks that may delay achieving milestone projections in the next 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).

		Narrative (describe your reasons for any variance from the baseline
Indicator	Total	plan or any other relevant information)

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Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)				
New network miles deployed	0	NA				
New network miles leased	13,904	Internet2 has accelerated its implementation timeline and expects to remain ahead of the baseline for the remainder of the project.				
Existing network miles upgraded	0	Internet2's network project for July, 2011 through June, 2012 does not include any upgraded mileage. The build has been based on new activation of existing IRUs and no operating infrastructure has been upgraded. Between July, 2012 and June, 2013, 2527 miles of existing network in the Northern Tier are slated to be upgraded.				
Existing network miles leased	0	NA				
Number of miles of new fiber (aerial or underground)	0	NA				
Number of new wireless links	0	NA				
Number of new towers	0	NA				
Number of new and/or upgraded interconnection points	49	As part of the 13,904 miles of new IRU fiber, we have secured 49 interconnection points. To be consistent with our approach for fiber deployment, we accept these as we accept colocation space.				

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	21
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	0
Average term of signed agreements (in quarters)	4

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: 3ROX/Drexel; CENIC; CIC OmniPoP; FLR/SoX; GPN (Great Plains Network); Indiana GigaPoP; KyRON; LEARN (Lonestar Education and Research Network); LONI (Louisiana Optical Network Initiative); MAGPI; MAX (Mid-Atlantic Crossroads); MCNC/C-Light; OARnet; MREN (Metropolitan Research and Education Network); NOX (The Northern Crossroads); NYSERNet, Inc.; Oregon GigaPoP; Pacific Northwest GigaPoP; University of Memphis; Utah/Montana; Mississippi Institutions of Higher Learning

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:

Two 5 gigabit network connects \$32,500/mo

One 10 gigabit network connection \$41,600/mo

Two 10 gigabit network connections \$45,500/mo

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 this third party operates (600 words or less).

The Indiana University Global Research Network Operations Center, a contractor, operates the network on behalf of Internet2. Their contact information is:

Dave Jent Associate Vice President for Networks Global Research Network Operations Center 535 W. Michigan Street Indianapolis, IN 46202, USA Phone: (317) 274-7788 Email: globalnoc@iu.edu

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

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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 th baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	1	Internet2 expects to report 2 additional connections for Y3Q4.
	Providers with signed agreements receiving improved access	20	Internet2 does not expect this number to change. Services hav been upgraded to existing customers with agreements.
	Providers with signed agreements receiving access to dark fiber	0	NA
	Please identify the speed tiers that are available and the number of subscribers for each	3	6 subscribers of two 5 gigabit network connections 5 subscribers of one 10 gigabit network connections 10 subscribers of two 10 gigabit network connections
Community Anchor nstitutions (including Government institutions)	Total subscribers served	0	NA
	Subscribers receiving new access	0	NA
	Subscribers receiving improved access	0	NA
	Please identify the speed tiers that are available and the number or subscribers for each	0	NA
Residential / Households	Entities passed	0	NA
	Total subscribers served	0	NA
	Subscribers receiving new access	0	NA
	Subscribers receiving improved access	0	NA
	Please identify the speed tiers that are available and the number of subscribers for each	0	NA
Businesses	Entities passed	0	NA
	Total subscribers served	0	NA
	Subscribers receiving new access	0	NA
	Subscribers receiving improved access	0	NA
	Please identify the speed tiers that are available and the number of subscribers for each	0	NA

The project offers native IPv6 and IP multicast in addition to the normal IPv4 connectivity. In addition the project is adding support for Software Defined Networking (SDN) and OpenFlow.

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

8b. If so, please describe the changes (300 words or less). NA RECIPIENT NAME: University Corporation For Advanced Internet Development

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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)		Are you also the broadband service provider for this institution? (Yes / No)	funded infrastructure				
NA	NA	NA	NA	NA				

Project Indicators (Next Quarter)

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

Internet2 expects to complete the entire new dark fiber optronics installation with the completion of the west coast fiber in late August. This will bring the Ciena network installation to a close and allow Internet2 to focus on the Layer 2/3 equipment deployment. Internet2 expects to have installed between 10 and 15 Layer2/3 nodes around the country by the end of Q2 2012.

Internet2 will be be submitting initial documents to the NTIA to allow a new approach to completing the Northern Tier Network Consortium (NTCT) to begin installation. Following NTIA approval of the approach, Internet2 expects to complete the NTNC portion of the project within the scheduled phase of the project and within budget.

a. New Network Miles Leased: 15,307

b. Number of Signed Agreements with Middle Mile Carriers: 23

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)
2a.	Overall Project	90	Internet2 expects to catch up to the baseline next quarter in terms of expenditures.
2b.	Environmental Assessment	0	NA
2c.	Network Design	100	Network design was completed Year 1, Quarter 1.
2d.	Rights of Way	0	NA
2e.	Construction Permits and Other Approvals	0	NA
2f.	Site Preparation	0	NA
2g.	Equipment Procurement	96	Internet2 expects to exceed the baseline for this metric in Year 3, Quarter 1.
	Network Build (all components - owned, leased, IRU, etc.)	100	Internet2 expects to exceed the baseline for this metric in Year 3, Quarter 1.
2i.	Equipment Deployment	96	Internet2 expects to exceed the baseline for this metric in Year 3, Quarter 1.
2j.	Network Testing	0	NA
2k.	Other (please specify):	0	NA

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).

We do not anticipate any challenges or issues next quarter that may impact planned progress against the milestones listed above.

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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	\$1,024,497	\$1,024,497	\$0	\$699,428	\$699,428	\$0	\$699,428	\$699,428	\$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	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
e. Other architectural and engineering fees	\$9,113,965	\$5,170,096	\$3,943,869	\$2,815,320	\$2,815,320	\$0	\$3,165,320	\$3,165,320	\$0
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
j. Equipment	\$86,655,145	\$28,058,852	\$58,596,293	\$69,305,524	\$18,566,707	\$50,738,818	\$83,305,525	\$23,566,707	\$59,738,818
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
I. SUBTOTAL (add a through k)	\$96,793,607	\$34,253,445	\$62,540,162	\$72,820,272	\$22,081,455	\$50,738,818	\$87,170,273	\$27,431,455	\$59,738,818
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n. TOTALS (sum of I and m)	\$96,793,607	\$34,253,445	\$62,540,162	\$72,820,272	\$22,081,455	\$50,738,818	\$87,170,273	\$27,431,455	\$59,738,818
2. Program Incom reporting period.	e: Please prov	vide the progr	am income yo	ou listed in yo	ur application	budget and a	ctuals to date	through the e	nd of the
a. Application Bud	get Program I	Income: \$0		b. Pro	gram Income	o Date: \$0			