AWARD NUMBER: NT10BIX5570075 DATE: 05/15/2012

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	5	969524214				
4. Recipient Organization			1				
University Corporation For Advanced Internet De	evelopment 1150 1	8th Street, NW, #1020), Washington, DC 20036-3825				
5. Current Reporting Period End Date (MM/DD/YYY	Y)	6. Is this the last Repo	rt of the Award Period?				
03-31-2012			◯ Yes				
7. Certification: I certify to the best of my knowledg purposes set forth in the award documents.	e and belief that thi	s report is correct and	complete for performance of activities for the				
7a. Typed or Printed Name and Title of Certifying O	fficial	7c. Telepho	ne (area code, number and extension)				
Nili Tannenbaum	x	x					
		7d. Email A	7d. Email Address				
		ntannen@internet2.edu					
7b. Signature of Certifying Official		7e. Date Report Submitted (MM/DD/YYYY):					
Submitted Electronically	05-15-2012	05-15-2012					
		-					

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Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).

Internet2 placed an order for all remaining Ciena Phase 3 optical equipment in late January. Approximately 50% of that equipment had been received at Internet2's staging facility by the end of the quarter. 80% of the Phase 3 colocation site orders were placed and were in the process of being provisioned by Internet2's colocation provider at the end of the quarter. Internet2 successfully commissioned the entire Phase 2 path on the following segments:

Kansas City - Houston Atlanta - Houston Salt Lake City - Los Angeles

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	67	Internet2 has exceeded the projection made last quarter, however the overall project, in terms of expenditures, is lagging behind the baseline. Internet2 still expects the overall project to be substantially complete ahead of schedule. We expect to be at 87% at Year 2, Quarter 4; and 91% at Year 3,
			Quarter 1. We expect to be at 100% before Year 3, Quarter 4.
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	71	Internet2 surpassed the baseline for this metric.
. /n	Network Build (all components - owned, leased, IRU, etc)	89	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	71	Internet2 met 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	10,384	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	37	As part of the 10,384 miles of new IRU fiber, we have secured 37 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 the baseline plan or any other relevant information)				
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	1	Internet2 met the baseline for this metric.				
	Providers with signed agreements receiving improved access	20	Internet2 has 2 Letters of Intent that may result in 2 additional connections by Year 3, Quarter 1.				
	Providers with signed agreements receiving access to dark fiber	0	ΝΑ				
	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	ΝΑ				
	Subscribers receiving improved access	0	ΝΑ				
	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	ΝΑ				
	Subscribers receiving new access	0	NA				
	Subscribers receiving improved access	0	ΝΑ				
	Please identify the speed tiers that are available and the number of subscribers for each	0	ΝΑ				
Businesses	Entities passed	0	ΝΑ				
	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)	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
NA	NA	NA	NA	ΝΑ

Project Indicators (Next Quarter)

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

Internet2 expects to receive the remaining Phase 3 Ciena equipment order and place an order for the equipment to light the Northern Tier Network segment. Internet2 expects the majority of Phase 3 optical sites to be completed, including:

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

Internet2 also expects to have placed an order for the majority of remaining Layer2/Layer3 equipment and begun planning to install that equipment in the following quarter.

New Network Miles Leased: 13,904 Number of signed agreements with middle mile carriers: 21

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	81	Internet2 expects to deploy the remaining Phase 3 equipment in Year 2, Quarter 4, nearly a year ahead of project schedule projections with the exception of the Northern Tier route and the remaining router and switch equipment.
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	85	Internet2 expects to exceed the baseline for this metric in Year 2, Quarter 4.
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	85	Internet2 expects to exceed the baseline for this metric in Year 2, Quarter 4.
2j.	Network Testing	0	NA
2k.	Other (please specify):	0	NA

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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	\$3,264,186	\$3,264,186	\$0	\$3,740,000	\$3,740,000	\$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	\$61,212,579	\$13,668,116	\$47,544,463	\$73,760,572	\$19,800,000	\$53,960,572
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	\$65,176,193	\$17,631,730	\$47,544,463	\$78,200,000	\$24,239,428	\$53,960,572
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	\$65,176,193	\$17,631,730	\$47,544,463	\$78,200,000	\$24,239,428	\$53,960,572
2. Program Incom reporting period.	e: Please pro	vide the progr	am income yo	ou listed in yo	our application	budget and a	ctuals to date	through the e	nd of the
a. Application Bud	b. Pro	b. Program Income to Date: \$0							