

**U.S. DEPARTMENT OF COMMERCE**

**Performance Progress Report**

2. Award Or Grant Number

47-50-M09041

4. Report Date (MM/DD/YYYY)

10-12-2011

1. Recipient Name

Connected Tennessee, LLC

6. Designated Entity On Behalf Of:

Tennessee

3. Street Address

618 Church Street, Suite 305,

8. Final Report?

Yes

No

9. Report Frequency

Quarterly

Semi Annual

Annual

Final

5. City, State, Zip Code

Nashville, TN 37219-2437

7. Project / Grant Period  
Start Date: (MM/DD/YYYY)

12-20-2009

7a. End Date: (MM/DD/YYYY)

12-19-2014

7b. Reporting Period End Date:

09-30-2011

9a. If Other, please describe:

N/A

**10. Broadband Mapping**

10a. Provider Table

Number of Providers Identified	Number of Providers Contacted	Number of Agreements Reached for Data Sharing	Number of Partial Data Sets Received	Number of Complete Data Sets	Number of Data Sets Verified
0	0	0	0	0	0

10b. Are you submitting the required PROVIDER DATA by using the Excel spreadsheet provided by the SBDD grants office?  Yes  No

10c. Have you encountered challenges with any providers that indicate they may refuse to participate in this project?  Yes  No

10d. If so, describe the discussions to date with each of these providers and the current status

Birch Communications, Inc.: A company representative sent an e-mail stating they are still not interested in participating.

Global Crossing Telecommunications, Inc.: In addition to contact attempts made between July 1, 2010 and February 17, 2011, 3 additional attempts were made this period.

PAETEC Communications, Inc.: Multiple outreach attempts were conducted but no response was received. PAETEC was bought out during the collection phase of this round by Windstream, and we intend to be able to include the PAETEC coverage as a part of the Windstream footprint during the next round.

Trinity Communications LLC: In addition to contact attempts made between July 1, 2010 and February 16, 2011, 5 additional attempts were made this period.

TNWEB, LLC: While provider has refused to participate, Connected Tennessee recently discovered that the provider's fixed wireless service is limited to Lewisburg, TN. Project staff anticipate scheduling a trip to Lewisburg in order to estimate service area for the next submission.

Utopian Wireless Corporation: In addition to contact attempts made between August 9, 2010 and January 4, 2011, 4 additional attempts were made this period.

10e. If you are collecting data through other means (e.g. data extraction, extrapolation, etc), please describe your progress to date and the relevant activities to be undertaken in the future

No data has been collected through extraction or extrapolation.

10f. Please describe the verification activities you plan to implement

ESRI has deployed and is hosting Connected Tennessee's BroadbandStat (BBStat) web application. ESRI will house the customized BBStat application in their highly available, monitored, and managed environment. The scope of services includes setting up a staging environment for data verification and compatibility as well as a production environment for client access.

Consumer feedback in the form of broadband inquiries is collected. These inquiries represent any type of communications received from the public regarding broadband service. Once broadband inquiries are received across the state, this information is overlaid with the broadband availability information which was collected through the State Broadband Initiative (SBI). This allows for a real-world comparison of the broadband landscape to the information received from broadband inquiries. Broadband inquiries are able to provide

three types of information: 1) residents who do not have broadband but want it; 2) residents who have broadband but want a different provider; and 3) residents who do not have broadband, but the broadband inventory maps indicate that they do. If residents within a region state that they are without broadband, but the broadband inventory maps show otherwise, this allows Connected Tennessee to approach the providers within that area in an effort to trim down their coverage to more accurately represent real-world availability on the ground.

Within the Q2 2011 Performance Progress Report (PPR) Connected Tennessee proposed to target 4 additional companies in order to achieve a total field validation rate equal to or exceeding 41.76% before December 31, 2011. As of this report, field validation on 50.57% of the provider universe has been completed.

10g. Have you initiated verification activities?  Yes  No

10h. If yes, please describe the status of your activities

BroadbandStat is publicly available on the Connected Tennessee website (<http://www.connectedtn.org>) and received a total of 464 visits between July 1, 2011 and September 30, 2011.

During this quarter, the project received a total of 40 broadband inquiries. Additional information received through e-mail from consumers that can also be used for verification purposes totaled 5 for this quarter.

For this reporting period, 23 field verification tests were conducted. Thus far, project staff conducted multiple tests on the following providers: Ardmore Telephone Company Inc.; AT&T; Aurora Cable TV; Beasley Wireless; Ben Lomand Rural Telephone Cooperative Inc.; Big River; Cable ONE; Cellular South Inc.; Charter Communications; Clarksville Department of Electricity (d.b.a. CDE Lightband); Clearwire Corporation; Columbia Power & Water Systems; Comcast; CRU Enterprises; DotSpot Wireless; ECSIS.Net; Frontier Communications Corporation; High Country Online; Infostructure Cable; Jackson Energy Authority; Ken-Tenn Wireless LLC; Leap Wireless International Inc.; Loretto Telephone; Mediacom Southeast LLC. (d.b.a Mediacom Communications Corp.); Millington Telephone Company; NetEase; NewWave Communications; OrbWireless.net; Planet Connect Internet; QuickRelay Wireless Communications; Rural Tennessee Wireless Broadband; Sprint Nextel; Surfmore; TDS Telecom; TEC of Jackson Inc.; Tele-Page; Inc. T-Mobile USA Inc.; Trenton Cable TV Company; U.S. Cellular; UltraNet; United Telephone Company; Verizon Communications Inc.; West Kentucky Rural Telephone and Xpansion Networks.

To date, field validation testing has been completed against 44 companies (out of a universe of 87 viable providers) totaling 50.57% within the state.

10i. If verification activities have not been initiated please provide a projected time line for beginning and completing such activities

Verification activities have been initiated.

## Staffing

10j. How many jobs have been created or retained as a result of this project?

6.19

Connected Tennessee has numerous staff working on this project, some at only a small percentage of their time. This approach is beneficial to the project in various ways: some staff provide necessary project support, many staff work together utilizing a team approach, and others are subject matter experts in their respective areas, and by leveraging their expertise, the project benefits from their knowledge and skills without the necessity of supporting a more expensive full-time resource.

10k. Is the project currently fully staffed?  Yes  No

10l. If no, please explain how any lack of staffing may impact the project's time line and when the project will be fully staffed

The project is fully staffed.

10m. When fully staffed, how many full-time equivalent (FTE) jobs do you expect to create or retain as a result of this project?

6.19

10n. Staffing Table

Job Title	FTE %	Date of Hire
Associate Council	4	09/14/2009
Business Program Analyst	2	04/02/2007
CAI Coordinator	1	12/13/2004
CAI Data Analyst	5	03/24/2009

Community Technology Specialist	52	09/17/2007
Community Technology Specialist	60	01/18/2010
Community Technology Specialist	60	10/10/2007
ETS Analyst	1	02/08/2010
ETS Analyst	1	11/01/2007
ETS Analyst	9	08/03/2009
ETS Manager	8	07/01/2007
Executive Director, TN	54	12/01/2004
General Counsel	5	01/01/2007
GIS Analyst	1	09/17/2001
GIS Analyst	1	10/19/2009
GIS Analyst	2	11/16/2009
GIS Analyst	6	04/01/2010
GIS Services Manager	24	05/15/2007
Outreach & Awareness Manager	5	03/24/2009
Outreach & Awareness Specialist	4	10/01/2007
Outreach & Awareness Specialist	4	01/04/2010
Outreach & Awareness Specialist	5	09/04/2007
Outreach & Awareness Specialist	7	01/04/2010
Outreach & Awareness Specialist	8	02/02/2009
Program Director	5	08/04/2008
Project Coordinator	1	08/01/2008
Project Coordinator	3	04/01/2005
Project Coordinator	7	01/17/2011
Project Coordinator	23	08/01/2011
Project Management Director	3	12/16/2009
Project Manager	1	03/16/2010
Project Manager	2	01/14/2008
Provider Relations Manager	8	02/17/2005

Research & GIS Analyst	2	05/14/2007
Research Analyst	1	03/22/2010
Research Analyst	2	02/01/2010
Research Analyst	6	06/01/2009
Research Analyst	73	02/16/2010
Research Analyst	73	02/16/2010
Research Analyst	73	02/16/2010
Research Manager	4	05/14/2007
State Services Manager	2	07/01/2007
State Services Specialist	1	02/02/2009

Add Row

Remove Row

**Sub Contracts**

10o. Subcontracts Table

Name of Subcontractor	Purpose of Subcontract	RFP Issued (Y/N)	Contract Executed (Y/N)	Start Date	End Date	Federal Funds	In-Kind Funds
Throughbred Research Group	Research Surveys	Y	Y	02/09/2010	02/08/2012	45,506	38,950
Contract Labor	Contract Labor	N	Y	12/20/2009	01/19/2014	92,544	40,619

Add Row

Remove Row

**Funding**

10p. How much Federal funding has been expended as of the end of the last quarter? \$1,528,554      10q. How much Remains? \$2,951,066

10r. How much matching funds have been expended as of the end of last quarter? \$966,743      10s. How much Remains? \$164,439

10t. Budget Worksheet

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Personal Salaries	\$1,509,268	\$522,401	\$2,031,669	\$513,960	\$317,068	\$831,028
Personnel Fringe Benefits	\$323,735	\$112,054	\$435,789	\$111,766	\$68,012	\$179,778
Travel	\$128,223	\$5,198	\$133,421	\$38,934	\$22,874	\$61,808
Equipment	\$136,141	\$0	\$136,141	\$70,110	\$0	\$70,110
Materials / Supplies	\$18,612	\$500	\$19,112	\$8,027	\$5,274	\$13,301
Subcontracts Total	\$603,918	\$114,399	\$718,317	\$143,548	\$79,569	\$223,117
Subcontract #1	\$382,730	\$0	\$382,730	\$45,506	\$38,950	\$84,456
Subcontract #2	\$157,177	\$114,399	\$271,576	\$92,544	\$40,619	\$133,163
Subcontract #3	\$25,328	\$0	\$25,328	\$1,460	\$0	\$1,460

Mapping Budget Element	Federal Funds Granted	Proposed In-Kind	Total Budget	Federal Funds Expended	Matching Funds Expended	Total Funds Expended
Subcontract #4	\$38,683	\$0	\$38,683	\$4,038	\$0	\$4,038
Subcontract #5	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$434,921	\$290,961	\$725,882	\$8,910	\$38,152	\$47,062
Total Direct Costs	\$3,154,818	\$1,045,513	\$4,200,331	\$895,255	\$530,949	\$1,426,204
Total Indirect Costs	\$1,324,802	\$85,669	\$1,410,471	\$633,299	\$435,794	\$1,069,093
Total Costs	\$4,479,620	\$1,131,182	\$5,610,802	\$1,528,554	\$966,743	\$2,495,297
% Of Total	80	20	100	61	39	100

### Hardware / Software

10u. Has the project team purchased the software / hardware described in the application?  Yes  No

10v. If yes, please list

Hardware/Software purchases for the project to date include the following:

- BroadbandStat-\$60,000
- Computers & Software-\$3,476
- GIS Software Maintenance-\$3,242
- Speed Test Software-\$1,890
- Google Earth Pro-\$974

10w. Please note any software / hardware that has yet to be purchased and explain why it has not been purchased

Remaining purchases may include SQL server for mapping geodatabase, SQL server software, multiple dedicated storage server, security application, additional backup replication solution, computers, a spectrum analyzer, GPS units, interactive map upgrades/maintenance, ESRI ArchInfo/ArcGIS maintenance, and speed test updates as well as computers and software maintenance.

10x. Has the project team purchased or used any data sets?  Yes  No

10y. If yes, please list

No datasets have been purchased or used.

10z. Are there any additional project milestones or information that has not been included?  Yes  No

10aa. If yes, please list

- \*Continued tracking financial and accounting budgets for Connected Tennessee State Broadband Initiatives (SBI).
- \*Continued execution of SBI project plan and Work Breakdown Structure.
- \*Continued to update broadband provider list with new providers.
- \*Continued outreach to non-responsive and refusing providers.
- \*Updated broadband data collection activity log.
- \*Continued outreach to general resellers and satellite providers to further engage them in the program. This information will be analyzed and deployed for the data submission.
- \*Executed and securely stored non-disclosure agreements with new providers.
- \*Submitted the semi-annual mapping update to the National Telecommunications and Information Administration.
- \*Continued in-the-field validation processes. To date, 44 providers (out of a universe of 87 viable providers) totaling 50.57% within the state.
- \*Requested updated broadband coverage coordinate data sets from provider community.
- \*Distributed Community Anchor Institution data sets to staff to continue data collection for processing.
- \*Produced status reports, data collection activity log, and website statics as requested.
- \*Received and responded to broadband inquiries. This quarter 69 inquiries have been processed.

10bb. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

Connected Tennessee has been relying heavily on the State of Tennessee's recommendations to ensure that our work expectations. During Q3 2011 there were no significant obstacles to the program's progress.

10cc. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project During Q3 2011, Connected Tennessee continued gathering data on the location and broadband connectivity of Community Anchor Institutions (CAI), in accordance with the data requirements of the State Broadband Initiative (SBI) Notice of Funds Availability (NOFA) Technical Appendix. Efforts have been focused on conducting outreach and raising awareness of this important project through a statewide campaign.

A specific focus during Q3 2011 was placed on coordinating with key education contact in the state and identifying broadband connectivity for K-12 schools across Tennessee. Throughout the quarter data was collected at more than 700 schools and processed by Connected Tennessee.

Connected Tennessee continues to identify key CAI contacts, utilize our online survey available on the website ([http://www.connectedtn.org/broadband\\_landscape/community\\_anchor\\_institution\\_survey.php](http://www.connectedtn.org/broadband_landscape/community_anchor_institution_survey.php)), and raise awareness of the importance of CAI broadband connectivity. Connected Tennessee has an ongoing mission to educate CAI throughout the state on the importance of participating in the project. Participation by these institutions will raise awareness about the importance of broadband connectivity and the need to report the requested data for inclusion on the National Broadband Map.

Updated Connected Tennessee maps were used to further identify unserved and underserved areas and to expand service to unserved households. [http://www.connectedtn.org/broadband\\_landscape/](http://www.connectedtn.org/broadband_landscape/)

### 11. Broadband Planning

11a. Please describe progress made against all goals, objectives, and milestones detailed in the approved Project Plan. Be sure to include a description of each major activity / milestone that you plan to complete and your current status

State Broadband Capacity Building Milestone Year 2 Quarter 3 per approved Project Plan:

\*Initiate collection and confirmation of industrial park addresses and GPS data - This milestone was met as Connected Tennessee (CTN), in coordination with the Tennessee Department of Economic and Community Development (TN ECD) and Tennessee Valley Authority (TVA), began collecting industrial park information including Global Positioning System (GPS) and addressing information.

For more details, please refer to the Q3 Supplemental Answers Document.

11b. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the project team is employing

No obstacles have been encountered.

11c. Does the Project Team anticipate any changes to the project plan for Broadband Planning?  Yes  No

11d. If yes, please describe these anticipated changes. Please note that NTIA will need to approve changes to the Project Plan before they can be implemented

No changes anticipated.

### Funding

11e. How much Federal funding has been expended as of the end of the last quarter? \$0

11f. How much Remains? \$0

11g. How much matching funds have been expended as of the end of last quarter? \$0

11h. How much Remains? \$0

#### 11i. Planning Worksheet

Personal Salaries	\$0	\$0	\$0	\$0	\$0	\$0
Personnel Fringe Benefits	\$0	\$0	\$0	\$0	\$0	\$0
Travel	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Materials / Supplies	\$0	\$0	\$0	\$0	\$0	\$0
Subcontracts Total	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #1	\$0	\$0	\$0	\$0	\$0	\$0

11i. Planning Worksheet						
Subcontract #2	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #3	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #4	\$0	\$0	\$0	\$0	\$0	\$0
Subcontract #5	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Other	\$0	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Indirect Costs	\$0	\$0	\$0	\$0	\$0	\$0
Total Costs	\$0	\$0	\$0	\$0	\$0	\$0
% Of Total	0	0	0	0	0	0

### Additional Planning Information

11j. Are there any additional project milestones or information that has not been included?

Connected Tennessee will provide a Small Business Toolkit to the businesses in Tennessee. The toolkit will stress the importance of how the adoption of broadband can directly improve the success of the business. This toolkit will include step-by-step recommendations in the areas of website and e-commerce development, social media and search engine optimization, cyber security, and teleworking.

11k. Please describe any challenge or obstacle that you have encountered and detail the mitigation strategies the Project Team is employing

No challenges have been encountered.

11l. Please provide any other information that you think would be useful to NTIA as it assesses your Broadband Mapping Project

- Connected Tennessee released residential survey data and launched an interactive webpage providing easy-to-use information about survey highlights. The data shows that 64% of all Tennessee adults have broadband service at home, with broadband adoption among Connected Tennessee's target groups experiencing an impressive increase since Connected Tennessee's inception in 2007. Today, 50% of low-income families with children (those with incomes below \$25,000) subscribe to broadband, up from just 17% in 2007 - an astonishing growth of 194%. Meanwhile, 55% of rural residents now have broadband at home, compared to just 30% in 2007, growth of 83%. Over the past three years, Connected Tennessee has specifically targeted both groups through its Computers 4 Kids program and e-Community Leadership teams.

For more details, please refer to the Q3 Supplemental Answers Document.

12. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purpose set forth in the award documents.

12a. Typed or Printed Name and Title of Authorized Certifying Official

Bernie Bogle

12c. Telephone  
(area code, number, and extension)

12d. Email Address

bbogle@connectednation.org

12b. Signature of Authorized Certifying Official

Submitted Electronically

12e. Date Report Submitted  
(Month, Day, Year)

10-28-2011