

**QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS**

**General Information**

<b>1. Federal Agency and Organizational Element to Which Report is Submitted</b>  Department of Commerce, National Telecommunications and Information Administration	<b>2. Award Identification Number</b>  NT10BIX5570097	<b>3. DUNS Number</b>  023716181
<b>4. Recipient Organization</b>  Department of Information Technology 715 Alta Vista, Santa Fe, NM 87505-4108		
<b>5. Current Reporting Period End Date (MM/DD/YYYY)</b>  09-30-2015	<b>6. Is this the last Report of the Award Period?</b>  <input type="radio"/> Yes <input checked="" type="radio"/> No	
<b>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.</b>		
<b>7a. Typed or Printed Name and Title of Certifying Official</b>  Peter Gonzales  Financial Coordinator	<b>7c. Telephone (area code, number and extension)</b>  5058270023	
	<b>7d. Email Address</b>  Peter.J.Gonzales@state.nm.us	
<b>7b. Signature of Certifying Official</b>  Submitted Electronically	<b>7e. Date Report Submitted (MM/DD/YYYY):</b>  12-03-2015	

**Project Indicators (This Quarter)**

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

**Broadband Technology Opportunities Program (BTOP) Grant Extension:**

The no-cost grant extension for the Department of Information Technology (DoIT) grant award has been approved by National Telecommunications and Information Administration (NTIA). The new end date for the grant is December 31, 2015. Therefore, the closeout for the grant will be March 30, 2016.

**Digital Microwave (DMW):**

DoIT had twenty-four (24) Broadband Technologies Opportunities Program (BTOP) construction sites. Construction for all twenty-four (24) sites is complete.

**Marketing and Outreach Initiatives:**

Historically, marketing and outreach efforts for radio telecommunications have not been required as use of the system is mandated by state statute. Information regarding the radio telecommunications network is available on the State of New Mexico, DoIT service catalog web page. The cost of the system is recovered via radio telecommunications services provisioned by DoIT.

**Long Term Evolution (LTE):**

Phase I deployment initiated with establishment of a Virtual Core Network (VCN) at the DoIT Simms facility. In addition, remote core connectivity between DoIT Simms building in Santa Fe and Adams County (ADCOM), Colorado facility established by June 30th. All LTE equipment has been installed with final turn up and testing of the LTE system located at the Regional Emergency Dispatch Authority (REDA) located on the Federal Law Enforcement Training Center (FLETC) scheduled for the last week of November. Inter-governmental agreement between DoIT and ADCOM is complete. DoIT has completed an agreement with Eddy County and continues to finalize an agreement with Dona Ana County for use of their tower and shelter.

**Marketing and Outreach Initiatives:**

DoIT continues discussions with Customs Border Protection (CBP) to establish demonstration scenarios in support of CBP missions. DoIT has continued interaction with Department of Interior (DOI) to identify early adopters in the Dona Ana County and Eddy County region. The Memorandum of Understanding (MOU) is pursuant to the FirstNet Key Learning Condition to establish a federal partnership. In addition, DoIT continues discussions with White Sands Missile Range. DoIT established a system demonstration at the New Mexico State Fair with great success; one day of the event was set aside for LTE vendors to provide education and outreach on various hardware and software solutions for first responders.

**Sustainable Cost:** The calculated fee basis required to account for the LTE sustainable costs is estimated at \$51 per month with a standard published rate of \$55 per month per device being offered.

**Request for Proposal (RFP) for 700 MHz LTE Equipment Status:**

General Dynamics was selected to perform build out of the Early Builder Public Safety LTE system with nearly all contract deliverables completed.

**Network Monitoring:**

DoIT noted a significant decrease in public safety network outages starting April 2015. This reduction is attributed to network protocols that have been put in place.

**Personnel Hires:**

Not Applicable (N/A)

**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)

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)																
2a.	Overall Project	95	<p>Middle Mile transition is complete. All LTE sites are constructed with activation of the final site, REDA/FLETC, scheduled for the last week of November 2015. Dona Ana County sub-recipient agreement nearly complete.</p> <p>Percentage Breakdowns:</p> <p>Middle Mile                      Percentage Completed is based on:                      Middle Mile \$31,984,498                      Cash Match \$5,399,999                      In-Kind Match \$11,600,004                      Total \$48,984,501                      Expended \$48,274,675                      Percentage 98.55%</p> <p>700MHz LTE                      Percentage Completed is based on:                      LTE \$4,006,500                      Cash Match \$0                      Total \$4,006,500                      Expended \$2,201,630                      Percentage 54.95%</p> <p>Administration &amp; Legal                      Percentage Completed is based on:                      Total \$2,708,999                      Expended \$2,673,173                      Percentage 99.19%</p> <p>Administration funds have been expended for general project support to include legal support for LTE Spectrum Lease Agreement negotiations.</p> <p>Overall                      Percentage Completed is based on:                      Overall \$38,699,997                      Cash Match \$5,399,999                      In-Kind Match \$11,600,004                      Total \$55,700,000                      Expended \$53,163,478                      Percentage 95.45%</p>																
2b.	Environmental Assessment	100	No Variance																
2c.	Network Design	100	No Variance																
2d.	Rights of Way	0	N/A																
2e.	Construction Permits and Other Approvals	98	There are no planned construction permits for LTE since the state will be utilizing existing infrastructure however the Dona Ana County sub-recipient language remains to be finalize..																
2f.	Site Preparation	100	LTE site preparation is complete.																
2g.	Equipment Procurement	98	<table border="1"> <thead> <tr> <th>Area</th> <th>Budget Amount</th> <th>Amount Spent</th> <th>Percent Spent</th> </tr> </thead> <tbody> <tr> <td>DMW</td> <td>\$17,293,716</td> <td>\$17,736,480</td> <td>102.56%</td> </tr> <tr> <td>LTE</td> <td>\$2,443,000</td> <td>\$1,650,233</td> <td>67.55%</td> </tr> <tr> <td>Overall</td> <td>\$19,736,716</td> <td>\$19,386,713</td> <td>98.23%</td> </tr> </tbody> </table>	Area	Budget Amount	Amount Spent	Percent Spent	DMW	\$17,293,716	\$17,736,480	102.56%	LTE	\$2,443,000	\$1,650,233	67.55%	Overall	\$19,736,716	\$19,386,713	98.23%
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2h.	Network Build (all components - owned, leased, IRU, etc)	100	DoIT provisioned 1082 existing network miles upgraded, 450 new network miles deployed, 306 new network miles leased and 350 existing network miles leased.																

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
	2i. Equipment Deployment	98	The following DMW equipment has been installed: Shelters - 24 of 24 Towers - 24 of 24 Batteries - 36 of 36 Radio & network equipment has been installed at all twenty four sites. LTE VCN installed. LTE equipment for all sites has been received and installed. A small number of User End (UE) devices will be purchased and deployed using any remaining grant funds.
	2j. Network Testing	95	Network equipment has been installed at all sites, has been turned up and final testing has been completed. The State of New Mexico has a self-healing network. The REDA/FLETC LTE site remains to be finished.
	2k. Other (please specify):	99	Based on actual administrative, financial and legal expenditures, the percentage is 99.19%.

**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 project continues to face challenges related to the establishment of State, and Local partnerships. In most cases, the issue resides with lack of available budget. The current approach is to deploy UE devices to users at low or no cost to demonstrate system capability so that State and Local entities can justify funding request for system deployment.

Another challenge is to ensure that sufficient funds are available to purchase UE devices. Work is currently underway to review all contracts to identify and reallocate any unused funds that can be made available for the purchase of additional UE devices prior to the grant end date.

The framework for national public safety network plan is under development led by FirstNet and the State plan is yet to be written.

**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	450	All of the new miles identified in this report have been installed and activated throughout the BTOP. These values are now being reported correctly.
New network miles leased	306	These miles constitute CenturyLink connectivity from the VCN located in Santa Fe, NM to the ADCOM core located in Boulder, Co.
Existing network miles upgraded	1,082	68 upgraded miles were added to connect Eureka to La Mosca.
Existing network miles leased	350	These miles constitute CenturyLink/Plateau fiber leased lines.
Number of miles of new fiber (aerial or underground)	0	N/A
Number of new wireless links	17	DoIT has provisioned 17 new wireless links throughout the duration of the BTOP.
Number of new towers	24	24 towers have been completed.
Number of new and/or upgraded interconnection points	1	DoIT implemented a new LTE VCN connection to ADCOM's VCN core.

**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	0
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	0

Indicators	
Average term of signed agreements (in quarters)	0

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

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:  
N/A

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).  
N/A

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	N/A
	Providers with signed agreements receiving improved access	0	N/A
	Providers with signed agreements receiving access to dark fiber	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Community Anchor Institutions (including Government institutions)	Total subscribers served	23	No new CAIs were added in the third quarter.
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	23	Upgraded systems enhance broadband service. Went from DS3 to Ethernet 300 MBPS
	Please identify the speed tiers that are available and the number or subscribers for each	1	Tier 1 = 300Mgb. Number of subscribers = 23 CAIs servicing approximately 1500 users.
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

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	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).**

N/A

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

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

With the introduction of the new network monitoring tools and protocols, our procedures and troubleshooting techniques have been streamlined. Changes include automated outage notification via email and/or text messaging, expedited resolution time leading to decreased impact of public safety outages.

**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
N/A	N/A	N/A	N/A	N/A

**Project Indicators (Next Quarter)**

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

MOU:

DoIT anticipates finalization of the Dona Ana County sub-recipient by December 31, 2015.

DMW:

Complete.

LTE:

LTE installation and drive testing for REDA/FLETC site will be complete. We project 213 additional leased fiber miles once this site is activated.

CAI:

CAIs will be added pending completion of Inter-Local Agreements with federal, state and local partners during Calendar Year (CY)2015. There will be five (5) additional CAIs added during CY2015, QTR4. DoIT will continue to validate service cost model established through our service architect with those users participating in and the sustainment of the LTE Early Builder project.

Per NTIA recommendation, the State is following internal procedures for disposal of unused equipment. Continuing efforts to submit Federal Interest Requirement (FIR).

**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	100	<p>During CY2015 QTR4 we anticipate completion of middle mile and LTE tasks.</p> <p>Percentage breakdowns:                      Middle Mile                      Percentage Completed is based on:                      Middle Mile \$31,984,498                      Cash Match \$5,399,999                      In-Kind Match \$11,600,004                      Total \$48,984,501                      Expended \$50,006,226                      Percentage 102.09%</p> <p>700MHz LTE                      Percentage Completed is based on:                      LTE \$4,006,500                      Cash Match \$0                      Total \$4,006,500                      Expended \$2,829,507                      Percentage 70.62%</p> <p>Administration &amp; Legal                      Percentage Completed is based on:                      Total \$2,708,999                      Expended \$2,864,267                      Percentage 105.73%</p> <p>Administration funds have been expended for general project support to include legal support for LTE Spectrum Lease Agreement negotiations.</p> <p>Overall                      Percentage Completed is based on:                      Overall \$38,699,997                      Cash Match \$5,399,999                      In-Kind Match \$11,600,004                      Total \$55,700,000                      Expended \$55,700,000                      Percentage 100.00%</p>																
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2c.	Network Design	100	No Variance																
2d.	Rights of Way	0	N/A																
2e.	Construction Permits and Other Approvals	100	There are no planned construction permits for LTE since the state will be utilizing existing infrastructure, however approvals for non-state owned sites are pending agreement of the appropriate LTE site owners.																
2f.	Site Preparation	100	LTE site preparation will be complete.																
2g.	Equipment Procurement	100	<table border="1" data-bbox="756 1562 1531 1669"> <thead> <tr> <th>Area</th> <th>Budget Amount</th> <th>Amount Spent</th> <th>Percent Spent</th> </tr> </thead> <tbody> <tr> <td>DMW</td> <td>\$17,293,716</td> <td>\$17,978,685</td> <td>103.96%</td> </tr> <tr> <td>LTE</td> <td>\$2,443,000</td> <td>\$2,317,020</td> <td>94.84%</td> </tr> <tr> <td>Overall</td> <td>\$19,736,716</td> <td>\$20,295,705</td> <td>102.83%</td> </tr> </tbody> </table> <p>The DMW equipment will exceed the original budget by 3.96%; which is an increase of less than ten percent. The LTE equipment is within the original budget.</p>	Area	Budget Amount	Amount Spent	Percent Spent	DMW	\$17,293,716	\$17,978,685	103.96%	LTE	\$2,443,000	\$2,317,020	94.84%	Overall	\$19,736,716	\$20,295,705	102.83%
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2h.	Network Build (all components - owned, leased, IRU, etc.)	100	The team will have transitioned service to the new DMW network.																
2i.	Equipment Deployment	100	All DMW and LTE equipment will be operational.																
2j.	Network Testing	100	Final testing will be completed.																

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2k.	Other (please specify):	100	With the extension of the grant award the expenses for administrative, financial and legal efforts are also extended; therefore the percent complete to the overall grant time line has been adjusted accordingly.

**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 project may continue to face challenges related to the establishment of state and local partnerships. The state does not anticipate any issues with implementation of the final LTE site, REDA/FLETC, using remaining budget. Small risk that select UE devices from multiple vendors may not be available by end of Grant period.



**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	\$2,708,999	\$0	\$2,708,999	\$2,687,173	\$0	\$2,687,173	\$2,864,267	\$0	\$2,864,267
b. Land, structures, right-of-ways, appraisals, etc.	\$2,384,958	\$2,245,188	\$139,770	\$2,376,245	\$2,245,188	\$131,057	\$2,376,245	\$2,245,188	\$131,057
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$9,050,224	\$65,693	\$8,984,531	\$7,853,767	\$65,693	\$7,788,074	\$9,042,736	\$65,693	\$8,977,043
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	\$2,157,993	\$0	\$2,157,993	\$1,732,190	\$0	\$1,732,190	\$1,733,758	\$0	\$1,733,758
h. Demolition and removal	\$1,500,000	\$0	\$1,500,000	\$1,120,191	\$0	\$1,120,191	\$1,380,090	\$0	\$1,380,090
i. Construction	\$6,501,107	\$0	\$6,501,107	\$6,347,195	\$0	\$6,347,195	\$6,347,195	\$0	\$6,347,195
j. Equipment	\$19,736,715	\$3,089,118	\$16,647,597	\$19,386,713	\$3,089,118	\$16,297,595	\$20,295,705	\$3,089,118	\$17,206,587
k. Miscellaneous	\$11,660,004	\$11,600,004	\$60,000	\$11,660,004	\$11,600,004	\$60,000	\$11,660,004	\$11,600,004	\$60,000
<b>l. SUBTOTAL (add a through k)</b>	\$55,700,000	\$17,000,003	\$38,699,997	\$53,163,478	\$17,000,003	\$36,163,475	\$55,700,000	\$17,000,003	\$38,699,997
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>n. TOTALS (sum of l and m)</b>	\$55,700,000	\$17,000,003	\$38,699,997	\$53,163,478	\$17,000,003	\$36,163,475	\$55,700,000	\$17,000,003	\$38,699,997

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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