

Agency Name: Gainesville Police Department

Grant/App: 4318901 **Start Date:** 10/1/2021 **End Date:** 9/30/2022

Project Title: In Vehicle Router - AT&T FirstNet

Status: Pending OOG Review

Profile Information

Applicant Agency Name: Gainesville Police Department

Project Title: In Vehicle Router - AT&T FirstNet

Division or Unit to Administer the Project: Police Department

Address Line 1: 201 Santa Fe

Address Line 2:

City/State/Zip: Gainesville Texas 76240-4866

Start Date: 10/1/2021

End Date: 9/30/2022

Regional Council of Governments(COG) within the Project's Impact Area: Texoma Council of Governments

Headquarter County: Cooke

Counties within Project's Impact Area:

Cooke

Grant Officials:

Project Director

Name: Chris Garner

Email: cgarner@gvps.org

Address 1: 201 Santa Fe

Address 1:

City: Gainesville, Texas 76240

Phone: 940-668-4781 Other Phone:

Fax: 940-668-4597

Title: Mr.

Salutation: Captain

Position: Patrol Captain

Narrative Information

Project Abstract :

The City of Gainesville Texas Police Department currently utilizes in-car routers. The purpose of this grant is to replace ten in-vehicle routers that utilize Verizon data services with in-vehicle routers that utilize AT&T FirstNet data services. These routers, provided by Utility, utilize a combination of WIFI and cellular data services to maintain connectivity to the internet and our CAD (Computer Aided Dispatch) Center. This connection is not only used for day to day operations necessary for keeping the citizens of Gainesville safe, but it gives each officer considerably more than what traditional over the air radio can do and it acts as an initial repository for vehicle and body camera footage. It also is utilized for vehicle and officer location and status of vital systems within the ecology of the car including the status of lights, gun rack, and physical orientation of the officer.

Problem Statement :

Gainesville Police Department currently utilizes Verizon data services to maintain connectivity from our police cars to the internet and our CAD Center. We have identified dead spots, specific locations where we lose complete internet connectivity, within the vicinity of Gainesville, Texas using Verizon data services. There are other locations that have less than adequate coverage. Due to these deficiencies of our current setup, the Gainesville Police Department plans to move away from Verizon to AT&T FirstNet.

Supporting Data :

Utility has recently provided the Gainesville Police Department with a AT&T First Net in-vehicle router to test in a police car. We tested the AT&T in-vehicle router performance with another police car that utilizes the Verizon in-vehicle router at 40 different locations, at the same time, within the city limits of Gainesville, Texas. The information gathered provided definitive proof of lower latency, better speeds, and better coverage of AT&T internet service over Verizon internet service. Other benefits that we would gain from utilizing AT&T FirstNet in-vehicle routers are not only priority and preemption, which is also offered by Verizon, but its ability to utilize an entirely separate LTE (Long Term Evolution) band, Band 14, a physically separate core network dedicated to first responders. AT&T FirstNet in-vehicle routers will provide the officers with more reliable connectivity, a more efficient work performance and with the best technology to perform their job; therefore, assisting our officers with helping keep the citizens and community they serve safe.

Project Approach & Activities:

The Gainesville Police Department wants to provide the best service to our citizens and community, and to keep them safe. The AT&T FirstNet in-vehicle router will do this by ensuring a more reliable internet connectivity and a priority separate core network, a unique value for public safety users. While our officers are in their vehicles, they will have more reliable access to our CAD, other officer locations, and other pertinent information that can be shared to each vehicle. Not only will officer locations be more accurate, but in a time of crisis, supervisors will have the reliable capability to observe real-time footage of cameras associated with each vehicle. This tremendously assists with the efficiency of obtaining and directing appropriate resources to the scene, rather than relying on a supervisor to arrive to the scene first before those same decisions are made. This saves valuable time that will again benefit the safety of the officers and citizens during a time of crisis.

Capacity & Capabilities:

The City of Gainesville, Texas covers 19.33 square miles within the boundary of its city limits. Gainesville has multiple high and low areas, and through testing, we have found that the current internet data service for our police patrol vehicles provided by Verizon data services are not adequate or reliable enough to ensure we are providing the best service for our citizens and community. A transition to AT&T FirstNet in-vehicle router would allow for faster, more accurate, and more reliable information sharing. Both Verizon and AT&T FirstNet in-vehicle routers are provided by Utility which is the company the Gainesville Police Department uses for our police patrol vehicle camera systems, including our officers' body camera systems. Therefore, no major alterations need to be made to implement the AT&T FirstNet in-vehicle routers into our police patrol vehicles. All labor involved can be completed by City of Gainesville employees.

Performance Management :

The departmental goal with this project is to improve internet connectivity throughout the city limits of Gainesville, Texas as well as increase the overall performance, the speed of internet connectivity in each police patrol vehicle. Based on testing, the department believes the AT&T FirstNet in-vehicle routers will increase both the upload and download speed by 50% of what the upload and download speeds in comparison to the current Verizon data services provide. Once the AT&T FirstNet in-vehicle routers are implemented, the department will again test the connectivity, upload speeds, and download speeds at the same 40 locations within the city limits previously used to test our current Verizon in-vehicle router performance.

Target Group :

The proposed upgrade to AT&T FirstNet in-vehicle routers will allow for faster, more accurate and more reliable police patrol vehicle data sharing. This will immediately benefit the performance and work efficiency of our officers, supervisors, and dispatch center. In turn, The City of Gainesville's 16,010 residents (2010 census), school campuses, college campus and businesses will benefit because of the increased service dependability of the Gainesville Police Department.

Evidence-Based Practices:

FirstNet.gov provides the purpose of AT&T FirstNet is to establish, operate, and maintain an interoperable public safety broadband network. In the article The Challenges of In-Vehicle Networking for First Responders on usatcorp.com, it states some of the biggest challenges facing first responder fleets are related to network performance and management. It also states agencies often struggle to ensure reliable connectivity and high availability in their vehicles. The Gainesville Police Department pursued the AT&T FirstNet in-vehicle router in order to test the reliability and performance compared to our current data service with Verizon. As stated above, we used 40 locations to test both in-vehicle routers and observed a significant increase in reliability and performance with the AT&T FirstNet in-vehicle router; therefore, the implementation of AT&T FirstNet will provide the best service for our officers, citizens, and community.

Project Activities Information

Selected Project Activities:

ACTIVITY	PERCENTAGE:	DESCRIPTION
Law Enforcement	100.00	Acquisition and deployment of 10 AT&T FirstNet RioT-XLE in-vehicle routers. The routers will be deployed by City of Gainesville employees.

Measures Information

Objective Output Measures

OUTPUT MEASURE	TARGET LEVEL
Equipment or technology: Individuals/ operators equipped	28
General Law Enforcement or Public Safety: Arrests resulting from grant.	0
Targeted Investigation: Criminal cases resulting in arrest.	0
Targeted Investigation: Grant-funded investigations carried out by the unit/division	0

Training or professional development: Individuals provided	0
Training or professional development: Individuals received	0
Training, professional development, or technical assistance: Hours provided	0
Training, professional development, or technical assistance: Hours received	0

Budget Details Information

Budget Information by Budget Line Item:

CATEGORY	SUB CATEGORY	DESCRIPTION	OOG	CASH MATCH	IN-KIND MATCH	TOTAL	UNIT/%
Equipment	Receiver / Transmitter Unit	Utility RIoT-XLE In-Vehicle Router - AT&T FirstNet	\$12,050.00	\$0.00	\$0.00	\$12,050.00	10

Budget Summary Information

Budget Summary Information by Budget Category:

CATEGORY	OOG	CASH MATCH	IN-KIND MATCH	TOTAL
Equipment	\$12,050.00	\$0.00	\$0.00	\$12,050.00

Budget Grand Total Information:

OOG	CASH MATCH	IN-KIND MATCH	TOTAL
\$12,050.00	\$0.00	\$0.00	\$12,050.00