



ARPA-6

ARP Application - Jefferson County

Status: Active

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Applicant

Jeffrey Polczynski
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304-728-3317

Internal Section

Certification

Digital Signature

Jeffrey A. Polczynski
10/27/2021

Contact Information

Organization Name

Jefferson County Emergency Communications

Address

28 Industrial Blvd, Kearneysville, WV 25430

Website (if applicable)

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Phone Number

304-728-3317

Email Address

jpolczynski@jeffersoncountywv.org

Project Summary

1. Brief description of the proposal

Installation of a Next Generation 9-1-1 Public Safety ESInet Service connecting the Jefferson County PSAP to an ESInet solutions provider. The ESInet modernizes call handling and routing of 9-1-1 calls by transitioning

from legacy TDM circuits to IP based networks and equipment. Jefferson County proposes to contract with an ESInet solutions provider to migrate from the legacy solution provided in West Virginia to a modern, reliable, resilient and secure public safety network bringing forth the ability to receive mobile 9-1-1 calls via geographic based call routing, text-to-911, multimedia, telematics, and other solutions that wholly encompass a Next Generation 9-1-1 system. Jefferson County will work with an ESInet solutions provider to implement an IP-based NG9-1-1 network.

2. Purpose and key anticipated outcomes

The existing legacy system for 9-1-1 services fails to provide PSAP's with the ability to take advantage of modern communications solution for public safety agencies. Migrating to an ESInet will allow the agencies in Jefferson County to have a modern, robust, reliable and resilient IP-based network with the following core services: Border Control Function (BCF) ? Emergency Services Routing Proxy (ESRP) ? Policy Routing Function (PRF) ? Emergency Call Routing Function (ECRF) ? Location Validation Function (LVF) ? Spatial Interface (SI) ? Location Database (LDB) ? Discrepancy Reporting ? Logging and Recording

3. Individuals or communities served

All communities throughout Jefferson County WV will benefit by the County PSAP having access to NG9-1-1 components. Jefferson County also anticipates that the neighboring county of Berkeley will also be migrating to an ESInet solution and expects to continue providing emergency failover services with new advanced capabilities.

4. How the COVID-19 pandemic has necessitated this request

The Jefferson County Emergency Communications Center is a 24/7/365 public safety answering point. When the pandemic occurred, the concern to maintain healthy staffing was paramount in order to fulfill the mission. The JCECC implemented programs and changes to staffing protocols to ensure proper social distancing, non-sharing of commonly used items across multiple shifts, etc. The pandemic required changes in the protocols that affected communications with local first responders while restricting their access to the PSAP facility.

Currently, Jefferson County is served by an aged, decades old copper-based non-IP TDM selective router 9-1-1 system managed by Frontier Communications. Frontier Communications has given no indication that they will upgrade their systems. Since the pandemic started, Jefferson County has implemented solutions that allow remote workstation access for CAD and radio however, a 9-1-1 call still cannot be answered from anywhere but the established physical PSAP location.

Employees that were exposed and either proven positive or a close contact with a proven positive required the employee to quarantine even though they were asymptomatic. Implementing an ESInet solution in a full NG9-1-1 system, coupled with the current project of replacing CPE in CY2021-2022 would allow Jefferson County Communications staff with the ability to work remotely allowing for continued minimum staffing coverage at either an alternate location established specifically for exposed or asymptomatic vaccinated individuals or via alternate remote locations such as their residence.

Additionally, an IP-based NG9-1-1 solution would afford Jefferson County with a robust alternate PSAP should catastrophe strike the PSAP facility allowing seamless connectivity to various alternate PSAP's surrounding Jefferson County.

5. Amount of funding requested

750,000

6. Amount of any bids or cost estimates received to date, if applicable

7a. Amount of matching funds raised or committed by your organization

0

7b. Source of matching funds raised or committed by your organization

N/A

8. How ARP funds, if awarded, will be used

Jefferson County will contract with a vendor that specializes in Next Generation Core Services to implement an ESInet. There currently exists established core services contracts under federal procurement rules

9. How long it will take you to complete the project if awarded funding

If awarded funding, Jefferson County will initiate this project within 30 days. It is expected that procuring and migration of all components of a NG9-1-1 solution will take up to 24 months to complete.

Proposal Details

1. Please describe the problem or need which your project seeks to address

Installation of a Next Generation 9-1-1 Public Safety ESInet Service connecting the Jefferson County PSAP to an ESInet solutions provider modernizes call handling and routing of 9-1-1 calls by transitioning from legacy TDM circuits to IP based networks and equipment. Jefferson County proposes to contract with an ESInet solutions provider to migrate from the legacy solution provided in West Virginia to a modern, reliable, resilient and secure public safety network bringing forth the ability to receive mobile 9-1-1 calls via geographic based call routing, text-to-911, multimedia, telematics, and other solutions that wholly encompass a Next Generation 9-1-1 system.

2. Please describe goals and expected outcomes of your proposal.

Jefferson County seeks to complete the following goals:
Award Contract for Next Generation Core Services through Purchasing Solutions Alliance or other government contract vehicle.
Utilizing the "Software as a Service"(SaaS) concept, coordinate with the NGCS vendor to establish a viable ESInet implementing the following:

Border Control Function (BCF) ? Emergency Services Routing Proxy (ESRP) ? Policy Routing Function (PRF) ? Emergency Call Routing Function (ECRF) ? Location Validation Function (LVF) ? Spatial Interface (SI) ? Location Database (LDB) ? Discrepancy Reporting ? Logging and Recording

Establish interconnectivity and demarcation
Complete Geospatial work in coordination with Jefferson County GIS Department
Install and configure hardware and software at the PSAP as needed
Coordinate with LEC and wireless carriers to migrate services to ESInet
Coordinate with surrounding jurisdictions on call routing
Train public safety dispatch staff
Cutover to NG9-1-1 and ESInet services

3. Please provide your project timeline

Jefferson County expects that the project would be implemented within a 12 to 24 month timeperiod

4. Please provide your project's total proposed budget.

Jefferson County does not currently have an established budget for this project. Staff will work with the select NGCS vendor to determine the exact costs for the NG9-1-1 ESInet solution.

5. Please list any partners in this proposal, and the partner's role and your relationship with them.

Jefferson County will work with Tek-Advisors, the contracted IT consulting solution for Jefferson County government, to complete this project.

6. Please describe your plan for sustainability of the project or initiative after the grant award has been exhausted.

Jefferson County receives E9-1-1 fees from wired and wireless customers and will continue to operate the PSAP utilizing funds from these sources as well as general fund revenue that the ECC currently receives.

Organization Information

1. Please provide your organization's mission statement.

It is the mission of the Jefferson County Emergency Communications Center to enhance the quality of life of every person in Jefferson County, West Virginia by processing emergency 9-1-1 and non-emergency calls for service in a prompt, courteous, professional manner; striving for efficiency; to help save lives, protect property, and to assist the public and public safety response personnel; making Jefferson County a safer community in which to live, work and visit.

2. Describe the history of your organization, tell us about your current programs and activities

Jefferson County Emergency Communications was established as a public safety answering point more than six decades ago. Since its inception, the PSAP has seen drastic changes over the years establishing 9-1-1 as the emergency number in 1989. In the late 1990's, the ECC implemented enhanced 9-1-1 and in the early 2000's, phase II wireless 9-1-1 was being received. The ECC established an Emergency Medical Dispatch program in 2001 and became an Accredited Center of Excellence in 2003. In 2008, Jefferson County Emergency Communications completed construction on a new facility while cutting over to a new P25 digital trunked radio system and new VESTA 9-1-1 system. Since then, Jefferson County has implemented changes in its business and public safety networks utilizing virtual servers and hosts in a VMware environment. Jefferson County staff manage and maintain the public safety radio system of its response agencies and manages responsibility for a primary radio site. The County hosts all public safety software and manages hundreds of connections to the public safety computer-aided dispatch and mobile data systems.

3. Please describe three significant accomplishments of your organization.

Jefferson County is a leader in public safety in the State of West Virginia and many agencies seek assistance and guidance from Jefferson County Communications leadership. Highly trained staff working in a contemporary environment allows the County to provide excellent public safety services to the citizens of the County.

The implementation of the Spillman/Motorola Solutions Flex CAD system integrating all agencies in the system was a significant accomplishment for the County and its agencies. Law enforcement, fire and EMS, and other ancillary agencies have access to incident management, various databases, and report writing tools. Jefferson County continues to seek to reduce the use of paper and the CAD system implementation has shown significant progress in this accomplishment. Additionally, Jefferson County ECC staff are able to provide contemporary crime analysis and reports to the public safety agencies with the use of SAP Crystal Reports.

In 2008, Jefferson County became the fifth County in the State of West Virginia to migrate to the Statewide Interoperable Radio Network (SIRN) and immediately began utilizing the system for mission critical purposes. Jefferson County has deployed over 1100 subscribers on the system and maintains programming and

coordination efforts for its public safety agencies as well as the educational and other ancillary government organizations. Jefferson County continually seeks to implement interoperability in its programs.

4. Please list your Owner(s), Board of Directors, senior staff members, or other key members of your organization:

The Jefferson County Emergency Communications Center is a department within Jefferson County government. The County Commission of Jefferson County oversees the operation of the department with the Director of Communications reporting to the County Administrator.

5. Please list the staff involved with this project and describe their roles and responsibilities:

Jeffrey Polczynski, Director of Communications will be the project manager. Russell Burgess, IT Director will provide information technology support. Thomas Reilly, principal, Tek-Advisors, Inc will also provide IT support and technical expertise. Todd Fagan, GIS Coordinator will provide geospatial support.

Cash flow statement for applicant's most recent fiscal year

Uploaded by ... on

Two years of audited financial statements

Uploaded by ... on

Current operating budget

Uploaded by ... on

If the applicant has not been audited, please include an unaudited balance sheet and income statement as prepared by the applicant

Uploaded by ... on

7. List any federal, state, local or private grant awards or funding received in the last three years and the current status of those funds. If your organization has previously received funds from Jefferson County, please list the amount, nature of the project(s) and current status of the funding and project(s).

N/A

8. If you have made an application for funding for this project from other sources (city, state, private or non-profit organizations) please list the same here.

N/A

Impact of the COVID-19 Pandemic

1. Please explain the impact of the COVID-19 pandemic and how it relates to your request.

The Jefferson County Emergency Communications Center is a 24/7/365 public safety answering point. When the pandemic occurred, the concern to maintain healthy staffing was paramount in order to fulfill the mission. The JCECC implemented programs and changes to staffing protocols to ensure proper social distancing, non-sharing of commonly used items across multiple shifts, etc. The pandemic required changes in the protocols that affected communications with local first responders.

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Additionally, an IP-based NG9-1-1 solution would afford Jefferson County with a robust alternate PSAP should catastrophe strike the PSAP facility allowing seamless connectivity to various alternate PSAP's surrounding Jefferson County.

2. How will ARP funding, if awarded, aid in the recovery from the COVID-19 pandemic?

The Emergency Communications Center continues its 24/7/365 operation in spite of the challenges that this pandemic has afforded. Establishing an NG9-1-1 solution will allow the PSAP to be better equipped to handle the potential impacts of staffing a physical location where staffing may not be available. Conversely, providing a backup 9-1-1 center solution for neighboring jurisdictions will afford redundancy and continuity of operations in their mission critical environment.

3. Are you requesting lost revenue due to COVID-19

No

Supplementary Information

1. Please enter contact information (name, email, and phone) for at least one third-party reference.

Thomas Reilly; treilly@tek-advisors.com; 304-261-1438

2. Please include any supplementary information or documentation (such as letters of support, newspaper articles, etc) which you feel will be essential to the County's review.

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Attachments

- pdf

ARPA-6- 911 Email 2021-06-28 -Next Gen 911 ESINET.pdf

Uploaded by Michelle Gordon on Nov 2, 2021 at 12:34 pm
- pdf

ARPA-6 Email 2021-06-27 -Next Gen 911 ESINET.pdf

Uploaded by Michelle Gordon on Nov 2, 2021 at 12:34 pm

History

Date	Activity
Oct 27, 2021 at 3:51 pm	Jeffrey Polczynski started a draft of Record ARPA-6
Oct 28, 2021 at 5:59 pm	Jeffrey Polczynski submitted Record ARPA-6
Oct 28, 2021 at 5:59 pm	approval step Application Review was assigned to Michelle Gordon on Record ARPA-6
Oct 28, 2021 at 5:59 pm	changed the deadline to Oct 29, 2021 on approval step Application Review on Record ARPA-6

Date	Activity
Nov 2, 2021 at 12:34 pm	Michelle Gordon added attachment ARPA-6- 911 Email 2021-06-28 -Next Gen 911 ESINET.pdf to Record ARPA-6
Nov 2, 2021 at 12:34 pm	Michelle Gordon added attachment ARPA-6 Email 2021-06-27 -Next Gen 911 ESINET.pdf to Record ARPA-6