

FY14

# PSAP GRANT PROGRAM APPLICATION



VIRGINIA INFORMATION  
TECHNOLOGIES AGENCY  
Integrated Services Division



## FY14 PSAP GRANT PROGRAM APPLICATION

### HOW TO APPLY/DEADLINE

The grant application is available and accessible from VITA's Integrated Services Program's website

(<http://www.vita.virginia.gov/isp/default.aspx?id=8578>). Upon completion of the application, it is to be submitted to the PSAP Grant Manager, Lisa Nicholson, at [lisa.nicholson@vita.virginia.gov](mailto:lisa.nicholson@vita.virginia.gov). Any supporting documentation must also be submitted along with the application, including mandatory budgets for projects (if applicable).

After submission, the PSAP Grant Manager will assign a Grant ID and send an e-mail notification to the project contact e-mail address listed on the application received.

All funding requests must be submitted using the grant application. Technical assistance is available from VITA's Public Safety Communications (PSC) staff throughout the grant process. The FY14 PSAP Grant Application Cycle starts July 1, 2012 and concludes on October 31, 2012 at 5:00 pm.

**ALL APPLICABLE SECTIONS MUST BE COMPLETED IN ITS ENTIRETY OR THE APPLICATION WILL BE CONSIDERED INCOMPLETE AND NOT ACCEPTED FOR CONSIDERATION.**



## FY14 PSAP GRANT APPLICATION

### PROJECT TITLE

Fredericksburg GIS Data Development

### GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Fredericksburg Police Department

CONTACT TITLE: Chief of Police

CONTACT FIRST NAME: David

CONTACT LAST NAME: Nye

ADDRESS 1: 2200 Cowan Blvd

ADDRESS 2: 1T

CITY: Fredericksburg

ZIP CODE: 22401

CONTACT EMAIL: [dnye@pd.fredericksburgva.gov](mailto:dnye@pd.fredericksburgva.gov)

CONTACT PHONE NUMBER: (540)654-5730

CONTACT MOBILE NUMBER: 1T

CONTACT FAX NUMBER: (540)372-1108

REGIONAL COORDINATOR: Sam Keys

### HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

**Fredericksburg Police Department**

_____	_____
_____	_____
_____	_____
_____	_____

### GRANT TYPE

Individual PSAP

Regional Initiative

Consolidation

Secondary Consolidation



**GRANT PROGRAM TYPE**

Continuity and Consolidation

Enhancement

**TIER**

Out of Service

Non-Vendor Supported\*

Technically Outdated\*

Strengthen

Not Applicable

**If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.**

VERSION:

# YEARS of HARDWARE/SOFTWARE:

---

**PROJECT FOCUS** GIS: LOW PRIORITY

**If "Other" selected, please specify:** 1T

**FINANCIAL DATA**

Amount Requested: \$ 30,000

Total Project Cost: \$ 30,000



## STATEMENT OF NEED

This statement should reference the relationship to the current funding priorities established by the Grant Committee and include evidence of any financial need, along with additional information on the impact on operational services; consequences of not receiving funding; inclusion of project in a long-term or a strategic plan; and local sustainability:

The City of Fredericksburg is located equidistant between Washington, D.C. and Richmond, Virginia on Interstate 95, one of the most heavily traveled highway corridors in the nation. Although occupying only eleven square miles with a resident population of 24,000, Fredericksburg is surrounded by two of the fastest growing counties in the Commonwealth of Virginia, and is the hub of a region with a population of approximately 250,000. As a nationally known tourist destination, it is estimated that over one million visitors every year will be within the jurisdiction of the Fredericksburg 911 center and potentially in need of emergency services. Additionally, the region is largely comprised of bedroom communities, whose residents commute to their jobs north and south on Interstate 95. The large majority of individuals who are in their vehicles for the purpose of tourism, shopping, or commuting to work remain in touch through the use of wireless cell phone service.

To further emphasize the importance of the city's 911 operations, Fredericksburg also acts as the secondary PSAP to both Stafford and Spotsylvania Counties. In the event of a failure in 911 capability in either of those jurisdictions, calls for service are automatically routed to the Fredericksburg PSAP to ensure that emergency services continue uninterrupted. The Fredericksburg Police Department has the responsibility for receiving all of the 911 calls within the jurisdiction as well as dispatching units from Police, Fire, or Rescue services as appropriate.

With grant funding provided by the Wireless E-911 Services Board during the FY10 grant cycle, the City of Fredericksburg built the foundation of a functional GIS system that is now fully integrated with the Computer Aided Dispatch system in the PSAP. The available funding allowed for the purchase of a dedicated server and the creation of structure addressing and parcel mapping in the digital format, as well as for the assembly of completely updated map books. However, additional data layers that comprise emergency service zones are required to augment the project and develop a comprehensive GIS system. These data layers will include access points, emergency routes, impedance locations, and hazardous materials information.

Even though the City of Fredericksburg's economic climate has improved, the City Manager's Budget memorandum from FY2012 states: "Over the past several years, as the City dealt with the economic downturn, the City decreased funding for capital items and deferred many maintenance items. The City's budget in FY2012 includes funding increases to address the issue of deferred maintenance." New projects are unlikely to be funded. Without monetary assistance from the E-911 Wireless Board to complete the Fredericksburg GIS project, the City will not be able to include the expenditure in the foreseeable future.

It is critical for the Fredericksburg Police Department to be able to meet the needs and expectations of its citizens for innovative technology that enhances public safety. The inclusion of essential emergency data layers in the GIS system will increase the capability of the PSAP to respond efficiently and appropriately to calls for service.



Describe how the grant will be maintained and supported in the future, if applicable.

During 2010, the original Fredericksburg GIS Project was completed with funding supplied in part by the E-911 Wireless Services Board. The vendor for the project, WorldView Solutions, built the data layers for structure addressing and parcel mapping, among other core applications. The proposed vendor for the additional day layers requested in this grant is again WorldView Solutions.

The Fredericksburg GIS project was given a year of system support as a part of the GIS Implementation contract with WorldView. In addition to this support, WorldView provided the City two weeks of on-site training on the new system to teach the City IT staff to maintain and edit the data. While the training was comprehensive and thorough and the IT staff is efficiently maintaining the data at this time, WorldView does continue to be available to provide assistance and answer questions as needed. The same training, support, and maintenance will be included in any subsequent contracts with WorldView for GIS data development.



## COMPREHENSIVE PROJECT DESCRIPTION

**Project Description:** One of the fundamental priorities in every community is the safety of its citizens. The recognition of this priority led to the development of the original 911 system and subsequent advancements with enhanced wireline and wireless technology. The core focus of Enhanced 911 (E-911) is the accurate pinpointing of a caller's location to allow emergency responders to arrive at the scene without delay. With concurrent advancements in Geographic Information Systems (GIS), the integration of E-911 with GIS data is the logical answer to continuing improvements in the provision of emergency services.

In addition to the address and parcel data development that is already in place, it is of critical importance to build MSAG valid data layers in the GIS that identify hazards and provide mapping details that will assist in emergency response. The funding provided by this grant will allow for the creation of the following data layers:

- Access Points
- Hazardous Materials Facility Development
- Hazardous Material Data Sheet Links
- Hazardous Material Storage Location Development
- Emergency Routes
- Impedance Locations
- Alley Data Development

Of particular concern, the City of Fredericksburg has a number of parcels and structures that are addressed to roads that are unrelated to their access points; in addition there are frequent instances of structures that do not face or front the road to which they are addressed. There are approximately 100 such address errors that currently exist in the jurisdiction serviced by the PSAP. These address anomalies were discovered when the current GIS system was created in 2010, using grant funds from the E-911 Services Board during a previous grant cycle. These address anomalies can cause significant delay in responding to an emergency.

The access point layer will highlight all points of access to the parcel in question so that the 911 dispatcher can direct the responding units to the fastest route of entry to the emergency.

**Goals and Objectives:** To provide the citizens of Fredericksburg with the most efficient and high quality level of emergency service that is available, with emphasis on technical advancements that support this goal. To augment the existing GIS system foundation with additional data layers that will increase the accuracy and efficiency of emergency response.

**Implementation Strategy:** Research available resources from WorldView Solutions for GIS data development (already complete), and arrange contracted purchase from vendor.

Install data layers.

Train E-911 supervisors and operators on use of data for application in the E-911 Center.

**Work Plan:** The GIS vendor WorldView Solutions will install the requested data layers on a schedule determined to be most beneficial to the overall project. The vendor will test quality and control performance measures, and train personnel.



**FOR CONTINUITY AND CONSOLIDATION OR ENHANCEMENT PROJECTS:**

PROJECT TIMELINE – Select each applicable phase of the project and indicate the estimated completion date. Sample activities for each phase can be found in the PSAP Grant Program Guidelines as well as on the addendum to this form.

PROJECT PHASE	ESTIMATED COMPLETION DATE
<input checked="" type="checkbox"/> <b>INITIATION</b> (Project approved by appropriate stakeholders)	<b>07 / 31 / 13</b>
<input checked="" type="checkbox"/> <b>DESIGN/PLANNING</b> (Project, system, or solution requirements are developed)	<b>08 / 30 / 13</b>
<input checked="" type="checkbox"/> <b>ACQUISITION</b> (Selected system or solution is procured)	<b>10 / 31 / 13</b>
<input checked="" type="checkbox"/> <b>IMPLEMENTATION</b> (Selected system or solution is configured and installed)	<b>01 / 31 / 14</b>
<input checked="" type="checkbox"/> <b>TESTING/COMPLETION</b> (Selected system or solution is tested and put in production)	<b>03 / 31 / 14</b>

Identify the longevity or sustainability of the project.

The GIS data will continue to be maintained, updated, and edited with new information by IT staff with the City of Fredericksburg. The existing GIS hardware has a replacement lift of five years and the software, supported by maintenance contracts, will be continually enhanced as system upgrades become available. The replacement and enhancement costs of the systems will be included in the budget of the City's Department of Information Technology.



Describe how this project supports the Virginia Statewide Comprehensive 9-1-1 Plan.

The objectives contained in this grant proposal support the following goal stated in the Virginia Statewide E-911 Strategic Comprehensive Plan:

**Goal B: Position 911 Centers to continuously meet the public’s expectations.**

The creation of additional critical data layers in the GIS system will allow the Fredericksburg PSAP “to keep up with the rapid pace of technology innovation and therefore the constant changes in customers’ expectations.” The public expects rapid and accurate response from its emergency providers and it expects those providers to have access to the latest technological resources to augment that response. In order to meet this goal, the Fredericksburg PSAP must be equipped with the necessary tools that support the trained dispatchers in the performance of their duties.



**REGIONAL INITIATIVE (if applicable)**

The relationship of the initiative to the participating PSAPs:

1T

Intended collaborative efforts:

1T

Resource sharing:

1T



How does the initiative impacts the operational or strategic plans of the participating agencies:

1T

**CONSOLIDATION (Primary or Secondary) - (if applicable)**

How would a consolidation take place and provide improved service:

1T

How should it be organized and staffed:

1T



What services should it perform:

1T

How should policies be made and changed:

1T

How should it be funded:

1T

What communication changes or improvements should be made in order to better support operations:

1T



## BUDGET AND BUDGET NARRATIVE

List the planned expenditures to be made with grant funds. (NOTE: In lieu of a line item breakdown, an itemized cost schedule or detailed vendor prepared quote may be submitted as an attachment.) Briefly explain the reason for each requested budget item and provide the basis for its cost:

**Hazardous Materials Facility Development** – Development of point locations and attributes for each facility in the City, tied to a street address-----\$40/facility

**Hazardous Material Data Sheet Links** – Scan and link hard copy material data sheets for each facility to the site and storage location for each facility-\$40/facility

**Hazardous Material Storage Location Development** – Development of point locations and attributes for each hazardous material storage location for each site, using site plan maps available for each site-----\$6.00/storage location

Hazardous Materials sub-total-----**\$12,000**

**Access Point Development** – Development of a point database depicting driveway or alley access locations for each site address in the City from the addressed centerline-----**\$4500**

**Emergency Routes** – Development of attributes within the City road centerlines indicating emergency routes into and out of the City-----**\$1750**

**Impedance Locations** – Field verified City-wide impedance point data layer development depicting stop signs, stop lights, railroad crossings, and other impedances-----**\$9250**

**Alley Data Development** – Development of City alley centerlines and edges based on existing aerial photography-----**\$2500**

**Project Total**-----**\$30,000**



## EVALUATION

A performance plan for the successful completion of this project will measure and guarantee that the data layers are purchased, installed, evaluated for quality and control, and that appropriate training is conducted for all relevant personnel. The performance plan will include the phases of the project:

### INITIATION

- Project concept is documented
- City Council approval received
- PSAP grant application is filed
- Local budgets are obtained
- Appropriated grant funds are approved
- Budgetary estimates are obtained

### DESIGN/PLANNING

- Requirements are documented
- Components to be purchased are identified
- General design is documented

### ACQUISITION

- RFP (or other bid related processes) are drafted
- Proposals are evaluated
- Contract is signed
- Purchase orders are issued
- Quotes are obtained/grant funds draw down

### IMPLEMENTATION

- Purchased components are delivered and installed
- Training is performed

### TESTING/COMPLETION

- Performance of system/solution validated
- System goes live



## FINANCIAL AND PROGRAMMATIC REPORT

### PROJECT PHASES

### SAMPLE ACTIVITIES

#### PHASE

#### SAMPLE ACTIVITIES

##### INITIATION

(Project approved by appropriate stakeholders)

- Project concept is documented
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##### DESIGN/PLANNING

(Project, system, or solution requirements are developed)

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##### ACQUISITION

(Selected system or solution is procured)

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##### IMPLEMENTATION

(Selected system or solution is configured and installed)

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(Selected system or solution is tested and put in production)

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CONTACT FIRST NAME: David

CONTACT LAST NAME: Nye

ADDRESS 1: 2200 Cowan Blvd

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ZIP CODE: 22401

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REGIONAL COORDINATOR: Sam Keys

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_____	_____
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### GRANT TYPE

Individual PSAP

Regional Initiative

Consolidation

Secondary Consolidation



**GRANT PROGRAM TYPE**

- Continuity and Consolidation
- Enhancement

**TIER**

- Out of Service
- Non-Vendor Supported\*
- Technically Outdated\*
- Strengthen
- Not Applicable

**If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.**

VERSION: \_\_\_\_\_ # YEARS of HARDWARE/SOFTWARE: \_\_\_\_\_

**PROJECT FOCUS** GIS: LOW PRIORITY

**If "Other" selected, please specify:** [Click here to enter text](#)

**FINANCIAL DATA**

Amount Requested: \$ 30,000

Total Project Cost: \$ 30,000



## STATEMENT OF NEED

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The access point layer will highlight all points of access to the parcel in question so that the 911 dispatcher can direct the responding units to the fastest route of entry to the emergency.

**Goals and Objectives:** To provide the citizens of Fredericksburg with the most efficient and high quality level of emergency service that is available, with emphasis on technical advancements that support this goal. To augment the existing GIS system foundation with additional data layers that will increase the accuracy and efficiency of emergency response.

**Implementation Strategy:** Research available resources from WorldView Solutions for GIS data development (already complete), and arrange contracted purchase from vendor.

Install data layers.

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**Work Plan:** The GIS vendor WorldView Solutions will install the requested data layers on a schedule determined to be most beneficial to the overall project. The vendor will test quality and control performance measures, and train personnel.



### FOR CONTINUITY AND CONSOLIDATION OR ENHANCEMENT PROJECTS:

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Describe how this project supports the Virginia Statewide Comprehensive 9-1-1 Plan.

The objectives contained in this grant proposal support the following goal stated in the Virginia Statewide E-911 Strategic Comprehensive Plan:

**Goal B: Position 911 Centers to continuously meet the public’s expectations.**

The creation of additional critical data layers in the GIS system will allow the Fredericksburg PSAP “to keep up with the rapid pace of technology innovation and therefore the constant changes in customers’ expectations.” The public expects rapid and accurate response from its emergency providers and it expects those providers to have access to the latest technological resources to augment that response. In order to meet this goal, the Fredericksburg PSAP must be equipped with the necessary tools that support the trained dispatchers in the performance of their duties.



## REGIONAL INITIATIVE (if applicable)

The relationship of the initiative to the participating PSAPs:

[Click here to enter text](#)

Intended collaborative efforts:

[Click here to enter text](#)

Resource sharing:

[Click here to enter text](#)



How does the initiative impacts the operational or strategic plans of the participating agencies:

[Click here to enter text](#)

**CONSOLIDATION (Primary or Secondary) - (if applicable)**

How would a consolidation take place and provide improved service:

[Click here to enter text](#)

How should it be organized and staffed:

[Click here to enter text](#)



**What services should it perform:**

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**How should policies be made and changed:**

Click here to enter text

**How should it be funded:**

Click here to enter text

**What communication changes or improvements should be made in order to better support operations:**

Click here to enter text



## BUDGET AND BUDGET NARRATIVE

List the planned expenditures to be made with grant funds. (NOTE: In lieu of a line item breakdown, an itemized cost schedule or detailed vendor prepared quote may be submitted as an attachment.) Briefly explain the reason for each requested budget item and provide the basis for its cost:

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Hazardous Materials sub-total-----**\$12,000**

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**Alley Data Development** – Development of City alley centerlines and edges based on existing aerial photography-----**\$2500**

**Project Total**-----**\$30,000**



## EVALUATION

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- Requirements are documented
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- General design is documented

### ACQUISITION

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### IMPLEMENTATION

- Purchased components are delivered and installed
- Training is performed

### TESTING/COMPLETION

- Performance of system/solution validated
- System goes live



## FINANCIAL AND PROGRAMMATIC REPORT

### PROJECT PHASES

### SAMPLE ACTIVITIES

#### PHASE

#### SAMPLE ACTIVITIES

##### INITIATION

(Project approved by appropriate stakeholders)

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##### IMPLEMENTATION

(Selected system or solution is configured and installed)

- Purchased components are delivered and installed
- Training is performed

##### TESTING/COMPLETION

(Selected system or solution is tested and put in production)

- Performance of system/solution is validated
- System/solution goes "live"