



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. 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

Map Display Upgrade Project

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Powhatan County

CONTACT TITLE: Emergency Management/E-911 Coordinator

CONTACT FIRST NAME: Floyd

CONTACT LAST NAME: Greene

ADDRESS 1: 3864-B Old Buckingham RD

ADDRESS 2: 1T

CITY: Powhatan, VA.

ZIP CODE: 23139

CONTACT EMAIL: fgreene@powhatanva.gov

CONTACT PHONE NUMBER: 804-598-5677

CONTACT MOBILE NUMBER: 804-347-9016

CONTACT FAX NUMBER: 804-598-1739

REGIONAL COORDINATOR: Sam Keys

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Powhatan County

_____	_____
_____	_____
_____	_____
_____	_____

GRANT TYPE

XX Individual PSAP

Regional Initiative

Consolidation

Secondary Consolidation



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Technically Outdated*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If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.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: GeoLynx 7.0

YEARS of HARDWARE/SOFTWARE: 4 years

PROJECT FOCUS GIS: HIGH PRIORITY

If "Other" selected, please specify: 1T

FINANCIAL DATA

Amount Requested: \$ \$150,000.00

Total Project Cost: \$ \$156,840.00

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:

1T

The Dispatch **Map Display Upgrade Project** will address technically outdated software in the Powhatan PSAP. This project is within the funding priority established by the grant program's committee under the **Continuity and Consolidation Program**.

The Powhatan PSAP uses GeoComm's GeoLynx 7.0 desktop mapping system to assist dispatchers in locating addresses and call locations during an emergency call. The mapping system currently supports ESRI's 9.3 software and data models. However, the critical countywide GIS layers used by the GeoLynx software, including situs addresses and road centerlines, are maintained by the Powhatan GIS Services division which uses ESRI 10 software which is not supported by the current version of the mapping software. Therefore, the primary ESRI 9.3 database used by GeoLynx cannot be maintained correctly due to the inability of the existing GeoLynx mapping software to support ESRI 10.0. An upgrade to a server based solution utilizing the newest version of GeoLynx will facilitate interoperability between the PSAP GIS software and GIS Services software thereby allowing for the seamless transfer of data between the two systems. This will enable updates to occur more efficiently, accurately, and frequently. Additionally, the ability to correctly maintain the geo-locators used by the GeoLynx software has been severely limited as the locators are stored in the unsupported ESRI 9.3 file geodatabase. Accurate geo-locators are absolutely critical to the mapping function of the GeoLynx software as they are used to map the location of incoming emergency calls. Additionally, using ESRI 10 to maintain the locators has negatively affected the search function capabilities of the GeoLynx software when searching for intersections and streets which frequently results in the failure to return a location in the mapping display.

Impact to Operational Services:

The project will improve safety for county residents by enabling the critical updates to the E9-1-1 data used in the PSAP to occur more efficiently, more frequently, and without data errors thereby providing the most accurate data to the PSAP dispatchers. Additionally, this project will allow for the maintenance of both hardware and software to be accomplished more efficiently and more frequently as there will be fewer instances of software to maintain. This upgrade to a server based solution will ultimately result in the more expeditious allocation of emergency resources during an emergency.

Consequences of Not Receiving Funding:

The Powhatan PSAP does not currently have funding to complete this map upgrade project. If grant funding is not received then the upgrade will not occur and the PSAP will continue to only receive map data updates on an infrequent basis. There will also continue to be adverse effects with the location functionality of the mapping software which will continue to adversely affect the ability of dispatchers to efficiently allocate resources.



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

Funding from the grant project will allow Powhatan Dispatch to upgrade the technically outdated desktop platform to a server based solution for a fixed period. The server hardware and software will be covered by manufactures' warranty to include vendor support as well as maintenance. Five years of maintenance funding is therefore requested as part of this grant project.

COMPREHENSIVE PROJECT DESCRIPTION

Provide a thorough, concise, and complete description of the project, including an outline of the goals and objectives, implementation strategy, and a work plan.

Project Goals and Objectives:

1. Improve public safety by ensuring that the PSAP has the most accurate and up to date data available.
2. Improve public safety by reducing data errors that lead to delayed response times.
3. Upgrade the Dispatch mapping software and hardware from a desktop solution to a server based solution.
4. Provide the PSAP with a dispatch mapping application that supports the latest version of ESRI software.
5. Eliminate the need for high-end GIS hardware at each workstation
6. Incorporate a role based system allowing administrative control over specific system functionality based on user login and user role
7. Provide Active/Passive Geo-diverse Server Redundancy
8. Further CAD/Map integration
9. Provide an easier method of adding additional dispatch workstations as needed.

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 type="checkbox"/> INITIATION (Project approved by appropriate stakeholders)	9 / 1 / 13
<input type="checkbox"/> DESIGN/PLANNING (Project, system, or solution requirements are developed)	9 / 1 / 13
<input type="checkbox"/> ACQUISITION (Selected system or solution is procured)	10 / 1 / 13
<input type="checkbox"/> IMPLEMENTATION (Selected system or solution is configured and installed)	12 / 1 / 13
<input type="checkbox"/> TESTING/COMPLETION (Selected system or solution is tested and put in production)	1 / 1 / 14

Identify the longevity or sustainability of the project.

After the initial warranty period, the project will be maintained as a part of the Powhatan County communications operations and maintenance budget.

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

This project to upgrade mapping hardware and software used in the Powhatan County PSAP directly supports the Virginia Statewide Comprehensive 911 plan goal of:

- **Virginia’s 9-1-1 Centers should be able to receive, process, and dispatch requests for emergency aid quickly & accurately inclusive of legacy, transitional, or NG9-1-1 technologies**

REGIONAL INITIATIVE (if applicable)



The relationship of the initiative to the participating PSAPs:

N/A

Intended collaborative efforts:

N/A

Resource sharing:

N/A

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

N/A

CONSOLIDATION (Primary or Secondary) - (if applicable)

How would a consolidation take place and provide improved service:

N/A

How should it be organized and staffed:

N/A

What services should it perform:

N/A

How should policies be made and changed:

N/A



How should it be funded:

N/A

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

N/A

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:

A three page vendor proposal accompanies this grant application.

EVALUATION

How will the project be evaluated and measured for achievement and success:

As a part of the implementation plan the vendor in conjunction with Powhatan County IT and GIS staff will be required to develop and implement an acceptance test plan. Final payment will be withheld until the project is fully operational, tested, and accepted.

October 16, 2012

Jason Overstreet
Powhatan County Sheriff's Office
3880 Old Buckingham Road
Powhatan, VA 23139

Dear Jason,

Subject: Budgetary Quote for GeoLynx Enterprise Server

Per your request, I am pleased to present you with this budgetary estimate for GeoLynx Enterprise Server.

GeoComm strives to meet our customer's needs in every way possible through continued technological advancements, on-going GIS training for our staff, superior customer service, and annual software support and maintenance contracts.

GeoLynx Enterprise Server provides dispatch mapping from a centralized repository. This allows the system to be shared across Powhatan County's internal network via a web browser interface. Any workstations equipped with a web browser can be granted access into the system.

The attached quote includes:

1. Dual Active Passive redundancy software and hardware
2. Load balancing software and hardware
3. Dispatch Mapping Modules
4. GeoComm Standard CAD Interface
5. Five year Software Warrantee

Please note that additional CAD interface components will need to be purchased through your CAD vendor.

The system includes server hardware. You may choose to purchase server hardware on your own. If you choose to do so, please reference the attached hardware specification. The hardware cost will be reduced at the time of contract signing should you choose to purchase the hardware outside of a contract with GeoComm. We also recommend you request updated hardware specs prior to purchase.

If I can help to answer any questions or help in any way then please do not hesitate to contact me at (423) 753-7240 or jgreene@geo-comm.com.

Sincerely,



Jon Greene
Account Manager

Enclosure: Price Estimate
Hardware Specifications



Data (Format Conversion to ESRI 9.x or Higher)					
Description	Quantity	One Time Fee	Annual Fee	Installation & Training	Total Price
GIS Set Up Services	1	\$1,000			\$1,000
GIS Data, MSAG, and 9-1-1 Database Analysis	1	\$1,775			\$1,775
Estimated Data Conversion Total					\$2,775.00

9-1-1 Mapping Display					
Description	Quantity	One Time Fee	Annual Fee	Installation & Training	Total Price
GeoLynx Server (Active/Passive)	1	\$29,072	\$9,234	\$6,970	\$45,276
Server Hardware	2	\$11,200			\$11,200
Barracuda Load Balancer W/3 year Eneqizer Update	1	\$3,000			\$3,000
Barracuda Load Balancer 3 year Instant Replacement	1	\$1,150			\$1,150
Dispatch Add-on Module	4	\$18,000	\$4,998	\$1,000	\$23,998
Dispatch CAD Interface	4	\$3,320	\$900	Included	\$4,220
Network Analyst for local routing functionality	0	\$0	FALSE	Included	\$0
Estimated 9-1-1 Mapping Display Total					\$88,844

9-1-1 Mapping Display Extended Maintenance					
Description	Year 2	Year 3	Year 4	Year 5	Total
GeoLynx Server (Active/Passive)	\$9,234	\$9,696	\$10,180	\$10,690	\$39,800
Web DMS Add-on Module	\$4,998	\$5,248	\$5,510	\$5,786	\$21,542
Dispatch CAD Interface	\$900	\$945	\$992	\$1,042	\$3,879
Network Analyst for local routing functionality	FALSE	\$0	\$0	\$0	\$0
Estimated 9-1-1 Mapping Display Extended Maintenance Total					\$65,221

Estimated Software and First Year Maintenance Total	\$91,619
Estimated Extended Maintenance Total	\$65,221
Estimated Project Grand Total	\$156,840

Notes: Server hardware specification capacity is recommended for <100 concurrent users. Performance is impacted based on a number of things including network performance, map data configuration, and the number of users.

ArcGIS Online World Routing Service Subscription is provided with GeoLynx Server if used for non-commercial use. The standard World Routing service includes:

- 5,000 routes per year
- 10 route steps per route
- 25 barriers per route
- Multilanguage routing directions

Pricing for GeoLynx Server installation is valid if it occurs during the same on-site trip as GeoLynx Server training. Price will increase if an additional on-site visit is needed.

GeoComm appreciates Powhatan County's need to be prepared in an emergency and we are committed to assisting you should an emergency arise. To that end, the proposed active/passive deployment architecture will include one primary GeoLynx Server license and one primary license of each add-on module, plus an additional backup of each license to be used only in the event the primary licenses are inoperable. Only one license of GeoLynx Server and one license of each add-on module will be active at any given time.

The level of synchronization between the GIS Data, MSAG, and ALI Database directly affects call plotting ability within GeoLynx Server. Prior to implementing the software, GeoComm will perform an analysis to determine how well these elements function together for plotting 9-1-1 calls. The analysis costs proposed are based on receiving GIS data that includes minimum fields and files required to complete a comprehensive analysis.

Pricing for the Dispatch CAD Interface assumes DaPro will interface to GeoComm's API for GeoLynx Server. Interface fees from DaPro or other third party vendors are not included. If additional customizations to the CAD interface are desired, they can be completed for an additional fee. Scope and price for custom CAD functionality will be provided upon request.

Installation and configuration for the Standard Dispatch CAD Interface is valid if it is implemented during the same on-site trip as GeoLynx Server implementation.