

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

Technically Outdated Mapping System Replacement – Move to GeoLynx Server

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Richmond County Sheriff’s Office

CONTACT TITLE: Technology Director / E-911 Coordinator

CONTACT FIRST NAME: Christopher H.

CONTACT LAST NAME: Jett

ADDRESS 1: P.O. Box 1000

ADDRESS 2: 1T

CITY: Warsaw, VA

ZIP CODE: 22572

CONTACT EMAIL: cjett@co.richmond.va.us

CONTACT PHONE NUMBER: 804-333-1100

CONTACT MOBILE NUMBER: 804-761-8489

CONTACT FAX NUMBER: 804-333-3408

REGIONAL COORDINATOR: Sam Keys

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Richmond County

Town of Warsaw

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Technically Outdated*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If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.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

Eagle Mapped ALI Version 6.5

8 years (software installed in fall of 2004)

PROJECT FOCUS PRIMARY MAPPING SUPPORT

If "Other" selected, please specify: 1T

FINANCIAL DATA

Amount Requested: \$ 150,000

Total Project Cost: \$ 189,799



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:

Richmond County received funding during FY04 to upgrade its single position of Eagle mapping to two (2) positions of Eagle Mapped ALI. The upgrade to Eagle Mapped ALI was completed during the fall of 2004 and, as of the date of this application, the Richmond County Sheriff's Office is continuing to utilize this eight (8) year old software (currently at version 6.5) as its only dispatch mapping. While the Eagle Mapped ALI software does allow the plotting of E-911 calls and the display of VBMP orthophotography, it is based on technically outdated architecture that is no longer supported by ESRI. In addition, the Eagle Mapped ALI software provides no ability for dispatchers to plot CAD incidents in addition to E-911 calls.

With this application, Richmond County proposes to replace its technically outdated mapping system with GeoComm's GeoLynx Server, including modules for dispatch and AVL, as well as an interface to the office's CAD system. GeoLynx Server is built on the latest ArcGIS architecture, is compatible with the most recent ArcGIS 10.x release, and is web-based, allowing for access to the system from any computer on the network without the need for multiple installations of expensive and support intensive workstation-based mapping software. In addition, moving to a web-based mapping system will provide the foundation necessary to allow emergency services personnel in the field to also be able to monitor the mapping system currently only able to be seen by dispatch, allowing for an enhanced means of graphical communication and improved emergency response. With this application, Richmond County also proposes to provide a third (3rd) mapping position within the PSAP, increasing the number of current positions by a full 50%.

The initial estimated cost for the proposed GeoLynx Server system is \$122,364, with an additional \$67,435 in extended maintenance costs over five (5) years. Richmond County's total E-911 Management budget is only \$72,000, which also must be used to pay costs associated with the landline 911 trunks, voice logging recorder, as well as maintenance of the County's radio system. With the current state of the economy, the prospect of receiving additional local funds to utilize toward a project of this type seems unlikely. Without the funding requested



through this PSAP grant application, Richmond County will be unable to take on this mapping system update.

This proposal falls under priority number two (2) – Primary Mapping System – established by the Grant Committee for the Continuity and Consolidation Program and under Tier three (3) – Technically Outdated.

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

As part of the proposed mapping system update, Richmond County plans to purchase three (3) years of manufacturer support for all hardware components, as well as pay up-front for five (5) years of extended maintenance on all software components. The total software extended maintenance costs for the project are estimated at \$67,435. Beyond three (3) years, all hardware maintenance will be covered through the County's annually budgeted E-911 Management funds. Any software extended maintenance costs not able to be covered by the requested grant funds will also be covered through the E-911 Management budget.

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.

Richmond County proposes to replace its technically outdated Eagle Mapped All dispatch mapping system with GeoComm's web-based GeoLynx Server, including modules for three (3) dispatch positions, AVL, as well as an interface to the office's existing DaProSystems CAD. Since the new web-based system will rely solely on the stability of the server to be located in a secure computer room, backup server hardware and additional passive (backup) software licenses will also be purchased, along with a Barracuda Load Balancer, which will allow for automatic failover to the backup server in the case of a failure of the primary server. Any non-PSAP related expenses for the project, such as interface costs for proposed AVL clients and costs for GeoLynx Mobile Server clients will be covered through locally budgeted funds.



Project Goals and Objectives:

1. Upgrade the dispatch mapping system from a workstation-based solution to a server / web-based solution.
2. Provide the PSAP with a mapping system that is compatible with the latest ESRI ArcGIS 10.x release.
3. Eliminate the need for expensive and support-intensive mapping software at each workstation.
4. Allow dispatchers and other Sheriff's Office staff to access the mapping system from any workstation on the network.
5. Provide an easier method of adding additional dispatch mapping positions in the future.
6. Provide an interface between the mapping system and the office's existing CAD, allowing for the mapping of CAD incidents in addition to E-911 calls.
7. Provide the foundation necessary to allow emergency services personnel to view the mapping system from within the field.
8. Provide administrative control over user allowances on the system based on user login and role.

Work Plan:

1. Finalize the technical specifications of the project.
2. Receive a final vendor quote detailing the costs of the project as specified.
3. Consult with the vendor on a desired project implementation schedule.
4. Review mapping and MSAG data to ensure that it meets the vendor's specifications.
5. Secure contracts for the implementation of the project following funding approval.
6. Prepare the network infrastructure for installation of the new system hardware and software.
7. Coordinate with the vendor on installation of the new mapping system.
8. Establish software support and maintenance agreements with the vendor.
9. Complete the installation and testing of the new web-based mapping system.
10. Complete the roll-out of access to the new mapping system for remote emergency services personnel.

The project director will be the County's Technology Director / E-911 Coordinator. The vendor will be responsible for the installation and configuration of all of the server components, as well as the training of local staff on the use of the new system and the installation of any client components for remote users.



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"/> INITIATION (Project approved by appropriate stakeholders)	07/ 15 / 13
<input checked="" type="checkbox"/> DESIGN/PLANNING (Project, system, or solution requirements are developed)	07 / 31 / 13
<input checked="" type="checkbox"/> ACQUISITION (Selected system or solution is procured)	09 / 30 / 13
<input checked="" type="checkbox"/> IMPLEMENTATION (Selected system or solution is configured and installed)	10 / 31 / 13
<input checked="" type="checkbox"/> TESTING/COMPLETION (Selected system or solution is tested and put in production)	11 / 30 / 13

Identify the longevity or sustainability of the project.

Richmond County received funding through the PSAP grant program in fiscal years 2009 and 2010 to allow for the conversion of its planimetric and parcel GIS data to a geodatabase format and to allow for its maintenance in-house utilizing ESRI ArcGIS software. This converted data, as well as the funded in-house maintenance software, will continue to be utilized with the proposed web-based GeoLynx Server mapping system, showing a continued return on the investment that the E-911 Services Board has made in Richmond County. In addition, moving to a web-based mapping solution will allow for much easier addition of dispatch mapping positions in the future, as well as provide for remote access to the system by emergency services personnel in the field. By replacing the Richmond County



PSAP's technically outdated mapping system with one that is based on the latest in ESRI technology, the office will be much more prepared to accept additional changes in dispatch mapping technology that will be coming.

Maintenance of the proposed new mapping system will be handled through both hardware and software maintenance agreements with the associated vendors. Any costs not able to be covered through the requested grant funds will be covered through the local E-911 Management budget.

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

The strategic goals of the Virginia Statewide Comprehensive 9-1-1 Plan are to "provide a standard level of 9-1-1 emergency dispatch services to the public" and "position 9-1-1 centers to continuously meet the public's expectations." By moving Richmond County's mapping system to one that is based on the latest in ESRI technology and one that will also allow for remote access by emergency services personnel, this project will be meeting the plan's goals by furthering a standard of dispatch mapping services and emergency response provided to members of the public as they travel through this jurisdiction. In addition, this project will be positioning Richmond County in a much better place to meet the public's continuously changing expectations in regards to dispatch mapping systems' capabilities.

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:

Richmond County is requesting a total of \$150,000 in grant funds to cover the costs associated with moving to GeoComm's GeoLynx Server web-based mapping solution. The total cost of the project, which also includes add-on modules for dispatch and AVL, an interface to the office's current DaProSystems CAD, and GeoLynx Mobile Server client software is estimated at \$189,799, of which \$67,435 is associated with extended software maintenance. Any costs not allowable through the PSAP grant program will be paid using local funds.

A detailed vendor proposal from GeoComm is attached.

GIS services: Evaluation of the County's existing mapping data to ensure that it meets the specifications for use with GeoLynx Server.

GeoLynx Server software: Provides the core functional components of the system. There will be passive (backup) licenses of all server software for failover use.

GeoLynx Server hardware: Two servers – one for the primary software installation and a second for the passive (backup) installations.

GeoLynx Server Dispatch Add-on: Enables dispatch functionality for three (3) positions located within the Richmond County PSAP.

GeoLynx Server AVL Add-on: Provides the dispatch portion of AVL functionality.

Load Balancing hardware and software: Enables automatic failover to the passive (backup) server in the case of failure of the primary server.

Dispatch CAD Interface: Provides an interface between the GeoLynx Server mapping system and the office's existing DaProSystems CAD, allowing for the plotting of CAD incidents.

Extended Software Maintenance costs: Extended software maintenance costs through year five (5), to be paid in year one (1).



EVALUATION

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

Evaluation of the success of Richmond County's mapping system replacement and move to GeoComm's GeoLynx Server solution will include demonstration that the proposed mapping system hardware and software have been purchased, installed, and are operational within the PSAP. This will include demonstration that the PSAP has upgraded to three (3) functional dispatch mapping positions, has a functional interface between the mapping and CAD systems, has a functional AVL system, and is providing remote access to its mapping system for emergency services personnel in the field.

Final vendor payment will be withheld until acceptable system testing has been completed and the system is operating as proposed.



FINANCIAL AND PROGRAMMATIC REPORT

PROJECT PHASES

SAMPLE ACTIVITIES

PHASE

SAMPLE ACTIVITIES

INITIATION

(Project approved by appropriate stakeholders)

- Project concept is documented
- Local Board or governing authority approval or endorsement is received
- PSAP grant application is filed
- Local budgets are obtained
- Appropriated grant funds are approved
- Budgetary estimates are obtained

DESIGN/PLANNING

(Project, system, or solution requirements are developed)

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

ACQUISITION

(Selected system or solution is procured)

- 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

(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"