

FY13

Nottoway-
9-1-1 Map Display Replacement Project

PSAP GRANT PROGRAM APPLICATION



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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 FY13 PSAP Grant Application Cycle starts July 1, 2011 and concludes on October 31, 2011 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.



FY13 PSAP GRANT APPLICATION

PROJECT TITLE

Nottoway – 9-1-1 Map Display Replacement Project

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Nottoway Sheriff’s Office – 911 Communications Center

CONTACT TITLE: County Planner

CONTACT FIRST NAME: Steve

CONTACT LAST NAME: Ferguson

ADDRESS 1: 3951 Military Road

ADDRESS 2: Click here to enter text

CITY: Blackstone

ZIP CODE: 23824

CONTACT EMAIL: nottowayplanner@hotmail.com

CONTACT PHONE NUMBER: 434-292-3438

CONTACT MOBILE NUMBER: 434-294-1636

CONTACT FAX NUMBER: 434-292-3437

REGIONAL COORDINATOR: Sam Keys Jr.

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

County of Nottoway

Town of Burkeville

Town of Blackstone

Town of Crewe

GRANT TYPE

Individual PSAP

Regional Initiative

Consolidation

Secondary Consolidation



GRANT PROGRAM TYPE

- Wireless E-911 PSAP Education Program
- Continuity and Consolidation
- Enhancement

TIER

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- Technically Outdated*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

If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.

VERSION: GeoLynx MO 6.2 # YEARS of HARDWARE/SOFTWARE: (6) 11-21-2005

PROJECT FOCUS [Click to select a project focus from the drop down list](#)

If "Other" selected, please specify: Mapping

FINANCIAL DATA

Amount Requested: \$ 82,353.97

Total Project Cost: \$ 82,353.97

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 Nottoway – 9-1-1 Map Display Replacement Project directly relates to the funding priority for **Mapping** established by the PSAP Grant Program’s Grant Committee under the Continuity and Consolidation Program. The purpose of this project is to address **Technically Outdated** Mapping software and hardware located at the primary PSAP in Nottoway County.

Total project funding needed for the 4 new workstations is **\$82,353.97**

Funding Priorities

Funding for this project aligns with the grant Matrix at **High Priority** in the following categories:

Program	Rank	Category	Price
Continuity And Consolidation	High	Data (Format conversion to ESRI 9.x or Higher	\$2,242.50
Continuity And Consolidation	High	9-1-1 Map Display Software (Supports Geo Databases) and (Software interfaces between Dispatch Mapping System and CAD/CPE)	\$54,055.32
Continuity And Consolidation	High	Map Data Transfer to / from the PSAP	\$15,802.15
Continuity And Consolidation	High	9-1-1 Map Display Hardware	\$10,254.00

Financial Need

The Nottoway County PSAP is currently using GeoLynx MO 6.2. This MO product has been out of production since 2008 and GeoComm no longer provides enhancements or maintenance for this or any MO products. The only path for future enhancements and continued software maintenance is to migrate to the new ArcObjects (AO) platform GeoLynx AO 8.0.



Without financial support from the Virginia Wireless E-911 Services Board, it is unlikely that the Nottoway 9-1-1 Map Display Replacement Project will take place. Budget shortfalls along with local and State budget cuts to the Nottoway Sheriff's Office have made it impossible to fund the replacement of a Mapping System in the foreseeable future (please see attachment reductions in Sheriff's Budget FY 10-11). Also, Nottoway County does not have general funds that it can allocate to replace mapping software and hardware at the Primary PSAP.

Impact on Operational Services

The project will have a direct impact on the operation services of the PSAP. The project will allow for the latest in 9-1-1 Map Display software to be implemented in the PSAP. This in turn allows the PSAP to accept GeoDatabase and the increased functionality that is included. A tremendous amount of both effort and state and local funds have gone into building Nottoway County's Geo Database. This project will allow that effort to be realized in the PSAP. Dispatcher will have access to the latest tools for locating someone in an emergency. The new system will also allow address locator technology to be applied to the recently developed road centerline layers and address point layers. This will dramatically improve the accuracy and reliability of 9-1-1 call plotting, ultimately making the citizens who call 9-1-1 safer and help to reduce response times

Consequences of not receiving funding

Nottoway County appreciates the opportunity to apply for PSAP grant funding for the Nottoway-9-1-1 Map Display Replacement Project and will not be able to purchase the new mapping software and hardware if funding is not received for our project. If the mapping system equipment is not replaced, the Primary PSAP's abilities to provide lifesaving support to first responders, visitors to our region, and the citizens of Nottoway County will be greatly reduced.

The consequences of not receiving this funding will be that Nottoway County must continue to utilize a system that is technically outdated in both software and hardware. The outdated system is more difficult to maintain as it does not accept GeoDatabase. Should the project not be funded, Geo Database functionality could not be extended to the PSAP. The older system does not utilize Address Locator technology. Address locator technology allows for customized address search capability making 911 call plotting more accurate and reliable. In an emergency situation the reliability and accuracy of locating the 911 caller is paramount. Should the project not be funded the county would not be able to extend address locator technology to the PSAP.



Long-term Strategic Plan

The project aligns with the County's long-term strategic plan for updating and maintaining essential components of the PSAP. As part of this plan the county has already secured funding for projects to upgrade the Telephony (CPE) equipment/software and a project to improve the accuracy of pertinent 9-1-1 GIS data layers. Both the CPE and GIS projects have been completed (CPE Project – December 2011). Updating the 9-1-1 Map Display Software is next in priority with the long-term plans of the PSAP

Local Sustainability

The project includes a 5 year support and maintenance plan for 9-1-1 Map Display software as well as a 3 year hardware warrantee. Once these maintenance agreements and hardware warrantees expire the PSAP will include in their local budget sufficient funds to continue support and maintenance of both hardware and software.

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

Funding from the PSAP grant project will allow the County of Nottoway to replace the technically outdated MO platform mapping software currently used by the 9-1-1 Communications Center with the new AO platform. Local sustainability will be achieved at the Primary PSAP by having equipment (hardware and software) that will be covered by a manufactures' warranty that includes both vendor support and maintenance. Once the manufactures' warranty expires, the County of Nottoway and the Nottoway County Sheriff's Office will ensure that funding is provided in the annual budget to maintain the equipment throughout its life-cycle. The County of Nottoway may also decide to purchase an extended warranty at discounted pricing at the time the new equipment is purchased.

The Nottoway 9-1-1 Map Display Replacement Project is a general and much needed replacement to technically outdated mapping hardware and software at the Nottoway Primary PSAP. The new equipment will ensure that the PSAP will be able to accommodate changing technology along with having continuous vendor maintenance support. If the Mapping Software and hardware are not replaced soon, current equipment down-time will continue to increase and this will have an immediate and direct affect on PSAP operational services and their ability to provide life-saving emergency response.



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

Nottoway County needs to replace the technically outdated GeoLynx MO 6.2 mapping system currently used at the primary PSAP since 11-21-2005 with a new, upgraded GeoLynx 8.0 mapping system. Current mapping equipment has not been produced since 2008 and is only eligible for future enhancements.

The main goal of the mapping system replacement project is to convert the current GeoLynx 9-1-1 Map Display from ESRI MapObjects (MO) platform to the latest release of ESRI ArcObjects (AO) platform. ESRI has discontinued the MapObjects runtime therefore it can no longer be enhanced and maintained.

Objectives:

The primary objective of the mapping system replacement is to bring the County of Nottoway onto an AO platform that will allow us to keep pace with the latest technology. The Primary PSAP located in Nottoway County was fortunate to receive partial grant funding from the Virginia E-911 Services Board for a GIS project that included both Address Point Layer Development and Parcel Map Development. With this requested mapping system upgrade, we will now be able to bring GIS technology advancements of ESRI ArcGIS to the dispatch center.

Goals:

Convert the existing Map Objects based 9-1-1 Map Display Software to an ArcObjects based System
Upgrade existing out of date hardware
Implement GeoDatabase in the PSAP
Utilize the corrected E9-1-1 data that was recently developed
Implement Address Locators as the primary GeoSpatial search tool
Automate Map Data Updates
Secure Software Support and Maintenance for future years.

Implementation Strategy:

Our strategy for implementing the latest GeoLynx 9-1-1 Map Display System is to:

1. Assess the overall cost of the project
2. Collect vendor quotes for hardware and software
3. Consult with vendors on desired implementation schedule
4. Secure funding for the project
5. Ensure Map Data meets vendor specification
 - a. Have vendor perform detailed GIS/MSAG/ALI analysis
6. Secure contracts for software and hardware upon approval of funding
7. Work with local IT staff on installation and networking of new hardware
8. Coordinate with software vendor on installation of new software
9. Coordinate with software vendor on implementation of new GIS data
10. Establish Software Support and Maintenance agreements with software vendor
11. Initiate and complete acceptance test plan for software



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)	10 / 31 / 11
<input type="checkbox"/> DESIGN/PLANNING (Project, system, or solution requirements are developed)	10 / 31 / 11
<input type="checkbox"/> ACQUISITION (Selected system or solution is procured)	07 / 31 / 12
<input type="checkbox"/> IMPLEMENTATION (Selected system or solution is configured and installed)	10 / 31 / 12
<input type="checkbox"/> TESTING/COMPLETION (Selected system or solution is tested and put in production)	12 / 31 / 12



Identify the longevity or sustainability of the project.

The Nottoway 9-1-1 Map Display Replacement Project will ensure that the PSAP will have the most up-to-date technology available for mapping software and hardware equipment that will support longevity of our project. Vendor maintenance support will ensure the sustainability of our project.

The new mapping equipment will support future technologies by allowing the PSAP to not only maintain current levels of wireless 911 services but also allow the PSAP to keep up with rapidly changing technology and the demands placed on these services by the residents of Nottoway County and visitors to our region. The new equipment will also make it much easier for new GIS technology to be incorporated into the day to day operation of the PSAP and allow for a smoother transition when changes are needed to allow the PSAP to stay on the cutting edge of technology.

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

The Nottoway 9-1-1 Map Display Replacement Project mirrors the vision of the Virginia Statewide E-911 Comprehensive Plan to allow 9-1-1 emergency response to operate at an optimal level of service and capability. Our project also follows the Strategic Goals established in the Plan to provide consistent emergency response services to anyone residing in or passing through Nottoway County or the Commonwealth, at any time of day, and during any event. This project also allows the PSAP to keep up with the rapid pace of technology, innovation, and the constant changes in customer's expectations.

Nottoway County has worked very hard to develop both comprehensive and strategic plans that follow DHS, Virginia Statewide E-911 Comprehensive Plan, and the Commonwealth's Strategic Plan to address public safety issues. In the Nottoway County Comprehensive Plan (revised 2006) it states that the County will continue to work to provide proper resources for the safety and well-being of the ever-changing needs of its citizens.

The County of Nottoway and the PSAP have also developed a strategic plan to deal with current and future wireless communication needs in the County. One of the primary goals of the Plan was to ensure that mapping system upgrades are completed on a regular schedule to ensure that PSAP mission critical equipment is always kept operational and has maintenance support.



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:

Nottoway County has received 2 vendor prepared quotes for the Nottoway 9-1-1 Map Display Replacement Project. (See attachments: 1 for Software, 1 for hardware)

Total project costs estimates include materials, installation, and training. The equipment listed in the price quote represents direct cost associated with the proposed upgrade of the 4 position workstations.

Budget Items:

Comprehensive GeoLynx 911 Software Upgrade	\$72,099.97
Hardware Upgrade	\$10,254.00
Total project cost	\$82,353.97

Reason for Requested Budget Items:

The comprehensive 911 Upgrade is required to bring the PSAP in compliance with the latest dispatch mapping technology. It is also required to re-establish a means for future enhancements to the software

The Hardware upgrade is required in order to the software to operate sufficiently. The new software requires a more robust hardware specification. The existing hardware in the PSAP is also dated and is due for upgrade simply because of its age and continued usage.



EVALUATION

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

The Nottoway 9-1-1 Map Display System Replacement Project will be evaluated and measured for achievement and success once the mapping software and hardware has been replaced with new mapping equipment at the Primary PSAP. The project management team will ensure that all aspects of the project have been completed in their entirety by closely following established Project Phases and estimated completion dates as outlined in the project timeline. The project management team will also ensure during the evaluation phase of the project that the new equipment will be operating at its most efficient and reliable level of service to the entire E-911 Community. Compatibility and maintenance issues that were present with the non-vendor supported equipment will be measured against the new equipment to ensure that equipment down-time has been eliminated and that compatibility issues have been resolved. All of these activities will follow the time-line set forth for the project and completed in a timely manner.

Nottoway County will also require an acceptance test plan to be completed before final signoff of the project. The acceptance test plan will ensure that the new system is functioning at optimal level and both the vendor and the PSAP have meet all requirements outlined in the project.





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"