

FY13

PSAP GRANT PROGRAM APPLICATION



VIRGINIA INFORMATION
TECHNOLOGIES AGENCY
Integrated Services Division
FY13



FY13 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 FY13 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.



FY13 PSAP GRANT APPLICATION

PROJECT TITLE

Amelia County GIS / 9-1-1 Upgrade Project

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Amelia County
 CONTACT TITLE: E 9-1-1 Coordinator
 CONTACT FIRST NAME: Jason
 CONTACT LAST NAME: Malloy
 ADDRESS 1: PO Box 463
 ADDRESS 2: 16441 Court St.
 CITY: Amelia
 ZIP CODE: 23002
 CONTACT EMAIL: rjmalloy@ameliasheriff.org
 CONTACT PHONE NUMBER: 804-561-2118
 CONTACT MOBILE NUMBER: 804-314-2634
 CONTACT FAX NUMBER: 804-561-2269
 REGIONAL COORDINATOR: Sam Keys

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Amelia County

_____	_____
_____	_____
_____	_____
_____	_____

GRANT TYPE

- | | |
|---|--|
| <input checked="" type="checkbox"/> Individual PSAP | <input type="checkbox"/> Regional Initiative |
| <input type="checkbox"/> Consolidation | <input type="checkbox"/> Secondary Consolidation |



GRANT PROGRAM TYPE

- Wireless E-911 PSAP Education Program
- 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- Technically Outdated* Strengthen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If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.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 6.3 MO** # YEARS of HARDWARE/SOFTWARE: **2004**

PROJECT FOCUS MAPPING

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

FINANCIAL DATA

Amount Requested: \$ 87,963
Total Project Cost: \$ 87,963

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:

See Attached Document – Amelia Co. GIS / 911 Upgrade Project – FY2013 PSAP Grant Supporting Documentation (Section 1)



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

The grant, its associated paperwork, ordering of equipment, etc. shall be maintained and conducted by the E 9-1-1 Coordinator. Additional support shall be obtained through the administrative staff of the Amelia County Sheriff's Office.

COMPREHENSIVE PROJECT DESCRIPTION

**WIRELESS E-911 PSAP EDUCATION PROGRAM
GRANT REQUESTS ONLY:**

Describe how the education/training is 9-1-1/public safety communications specific and how this will benefit E-911 and the employee(s) and/or PSAP.

N/A



FOR CONTINUITY AND CONSOLIDATION OR ENHANCEMENT PROJECTS:

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

N/A

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)	08 / 31 / 2012
<input checked="" type="checkbox"/> DESIGN/PLANNING (Project, system, or solution requirements are developed)	11 / 30 / 2012
<input checked="" type="checkbox"/> ACQUISITION (Selected system or solution is procured)	12 / 15 / 2012
<input checked="" type="checkbox"/> IMPLEMENTATION (Selected system or solution is configured and installed)	03 / 31 / 2013
<input checked="" type="checkbox"/> TESTING/COMPLETION (Selected system or solution is tested and put in production)	06 / 30 / 2013



Identify the longevity or sustainability of the project.

See Attached Document – Amelia Co. GIS / 9-1-1 Upgrade Project – FY2013 Grant Supporting Documentation (Section 3)

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

See Attached Document – Amelia Co. GIS / 9-1-1 Upgrade Project – FY2013 PSAP Grant Supporting Documentation (Section 4)

REGIONAL INITIATIVE (if applicable)

The relationship of the initiative to the participating PSAPs:

N/A



<p>Intended collaborative efforts:</p> <p>N/A</p>
<p>Resource sharing:</p> <p>N/A</p>
<p>How does the initiative impacts the operational or strategic plans of the participating agencies:</p> <p>N/A</p>

CONSOLIDATION (Primary or Secondary) - (if applicable)

<p>How would a consolidation take place and provide improved service:</p> <p>N/A</p>
--



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:

See Attached Document – Amelia Co. GIS / 9-1-1 Upgrade Project – FY2013 PSAP Grant Supporting Documentation (Section 5)

For Vendor Quote, See Attached Document – Amelia Co. GIS / 9-1-1 Upgrade Project – FY2013 PSAP Grant Supporting Documentation (Section 7)

EVALUATION



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

See Attached Document – Amelia Co. GIS / 9-1-1 Upgrade Project – FY2013 PSAP Grant Supporting Documentation (Section 6)



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)

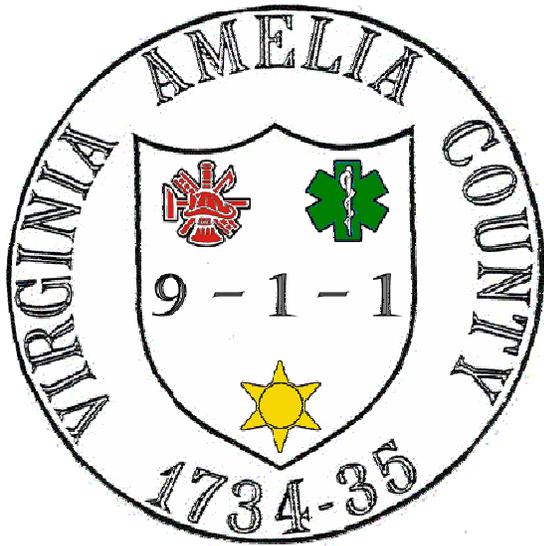
- Purchased components are delivered and installed
- Training is performed

TESTING/COMPLETION

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

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

Oct. 24

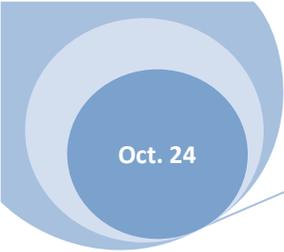


Amelia Co. GIS / 9-1-1 Upgrade Project

FY2013 PSAP Grant Supporting Documentation

The following document contains grant narratives, as well as budgetary quotes to support the FY2013 PSAP Grant Application being submitted by the Amelia County Sheriff's Office.

R. Jason Malloy, B.S., PEM
10/24/2012



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Document Definitions

ACSO – Amelia County Sheriff’s Office

CPE – Central Premise Equipment

GIS – Geographic Information System

NG 9-1-1 – Next Generation 9-1-1

Section 1 – Statement of Need

The Amelia County Sheriff’s Office operates the PSAP for Amelia County. As the primary PSAP for Amelia County, the ACSO receives roughly 50% of its 9-1-1 call volume in the form of Wireless 9-1-1 calls. To locate these callers effectively, an appropriate mapping system must be present and tied into the PSAP CPE to plot the Wireless Phase II coordinates of each caller. To facilitate this process, the PSAP currently utilizes the GeoComm GeoLynx MO mapping system.

The GeoLynx MO mapping system platform utilizes the ESRI MapObjects (MO) mapping engine, which ESRI “end-of-lifed” in July of 2010 (see Section 8 of this document for an official letter from GeoComm regarding this issue.) As a result, the system currently in use by the Amelia County PSAP is technologically outdated and severely in need of upgrading.

Additionally, the map data that Amelia County 9-1-1 personnel have access to is limited to strictly the aerial orthography (provided by VGIN), road center lines and address points. The addition of address/building polygons would be extremely beneficial for a multitude of reasons, including emergency planning, locating wireless 9-1-1 callers, and assisting public safety personnel during various emergencies (i.e. instances such as fires, rescues and searches), etc.

It is therefore the intention of the ACSO to utilize grant funding to purchase (1) an upgrade for the GeoComm mapping system (see quote, Section 7) and (2) purchase an address/building polygons layer from VGIN to upgrade the maps available to 9-1-1 personnel. Where possible, equipment and systems purchased shall be NG 9-1-1 capable.

Section 2 – Project Description

The ability for any emergency services organization to provide quality emergency response to the community is partially based on its ability to locate emergencies. In many instances, emergencies and callers are difficult to locate, and having a quality GIS in place can be the difference between life and death. Additionally, communications personnel are often the vital link for public safety personnel actively engaged in live-saving activities. Emergency planning and emergency response activities can be accomplished more efficiently and effectively when quality GIS information is available.

Despite the fact that Amelia County is a rural community, the same needs and issues are dealt with that are dealt with in larger jurisdictions (only without the same tax base.) Successful implementation of a public safety GIS system, with the right guidance and leadership, will allow the 9-1-1 Wireless Services Board to utilize the Amelia County PSAP as a model PSAP for other small jurisdictions.

Section 2.1 – Goals and Objectives

Goal 1 – To provide the citizens of Amelia County and the Commonwealth of Virginia, as well as the first responders of Amelia County and the Commonwealth of Virginia, the best possible level of emergency services through the provision of accurate mapping/GIS service.

Goal 2 – To ultimately raise our level and quality of service to the point where Amelia County can provide the best possible service to Wireless 9-1-1 callers. This includes both citizens of Amelia County and citizens of the Commonwealth of Virginia passing through Amelia County.

Goal 3 – To improve public safety by ensuring that the PSAP has more accurate and up to date data on addresses and other essential data for responder use.

Goal 4 – To increase efficiency of PSAP operations by eliminating redundant data sets requiring maintenance and synchronization.

Goal 5 – To improve public safety by minimizing the possibility of data errors leading to response delays.

Section 2.2 – Implementation Strategy / Work Plan

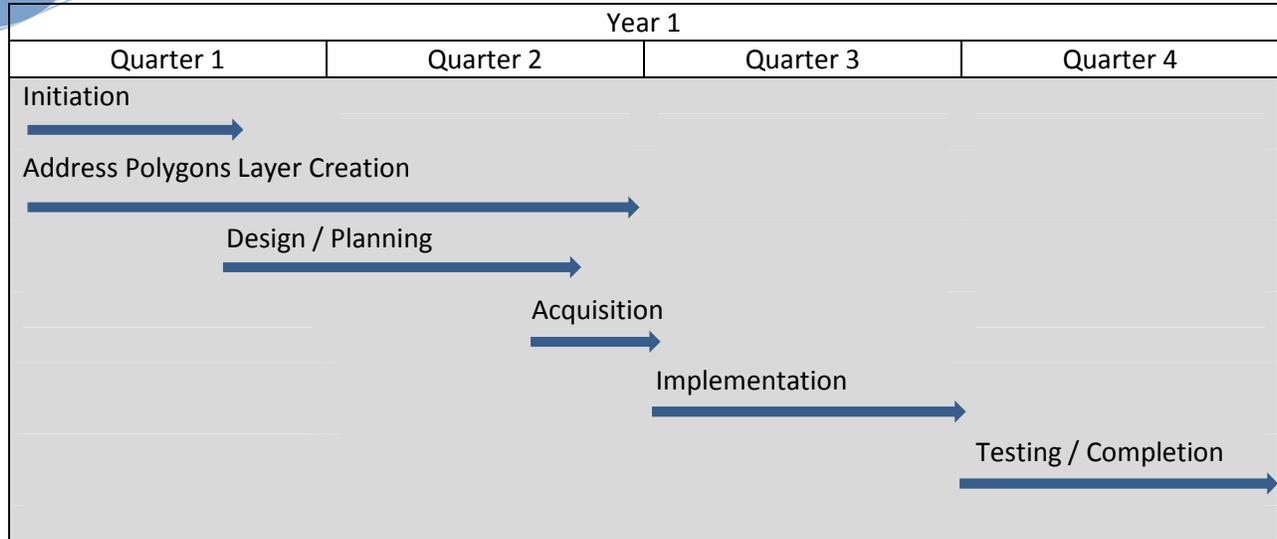
It is the intention of the Amelia County Sheriff's Office to implement the GIS over the 12-month period of the grant (despite the fact that the grant is good for 24-months.) The first quarter of the grant period will primarily be a logistical time frame. Materials and software will be scheduled, paperwork shall be completed, contracts signed, etc. During this time (and extending to the end of the second quarter), it is anticipated that all initial creation and quality assurance of the address/building polygons and subsequent delivery by VGIN will occur.

The second quarter will involve all activities to plan and design the system. This will happen between the primary stakeholder and GeoComm. Acquisition will occur at the end of the second quarter.

The third and fourth quarters will be the time when the purchased system/equipment is installed and physically tested. Any training necessary for dispatch personnel will be scheduled and conducted during the later phases of the process.

Section 2.3 – Activities Timeline

Following confirmation of grant approval, the following activities shall take place beginning July 1, 2013:



- July, 2012 thru August, 2012 – Meet with stakeholders, complete all necessary paperwork, contracts, etc. to begin implementation process
- August, 2012 – Finalize all paperwork and begin purchase process of VGIN address/building polygons
- August, 2012 thru November, 2012 – Systems design, implementation scheduling, etc.
- November, 2012 thru mid-December 2012 – Acquisition of system components
- Mid-December, 2012 thru March, 2013 – System implementation
- March, 2013 thru June, 2013 – System testing, punch list items, training & system completion

Section 3 – Project Sustainability

It is the intention of the Amelia County Sheriff’s Office to purchase both the GeoComm upgrade and the address/building polygons as soon as confirmation of the grant approval is received and the grant period begins. Once the purchases have been made, training shall be scheduled with the vendor and personnel shall become familiar with the new system. Following the training process, the upgraded 9-1-1 mapping system shall go live.

This system will be sustainable internally indefinitely through several methods:

- Amelia County currently maintains an annual maintenance contract with GeoComm, Inc. This contract includes services such as address point maintenance, road center line additions, layer creation, etc. This service will be continued, and funded through the 9-1-1 Department Annual Budget, so that there are no life-threatening delays regarding the GIS information available to all dispatch and public safety personnel.
- Amelia County is currently in the process of creating an IT Committee. This committee is going to form the basis for the County IT Department. Any maintenance needing completed

“in-house” will be accomplished by this committee until such time as an individual is hired and dedicated to just such duties.

- The annual and/or extended maintenance/warranty fees will be included in all future budgets. Additional fees and any potential ESRI course/training registration fees shall also be included in these budgets as well.

Section 4 – Statewide E-9-1-1 Comprehensive Plan

The Virginia Statewide E-9-1-1 Comprehensive Plan outlines several goals for providing 9-1-1 services to the citizens of the Commonwealth today and beyond. The implementation of an upgraded 9-1-1 mapping/GIS, with the inclusion of newly created address/building polygons, will support the following Commonwealth goals in Amelia County:

- **Goal A: Provide a standard level of emergency response service to the public**
The use of a state of the art GIS is essential to the provision of emergency services in the Commonwealth. Utilizing state of the art GIS, current maps and orthography, addition of new address points, etc. are all small pieces of a public safety GIS “pie.” The general public may not specifically know what each piece of the pie actually do or accomplish, but the public does deserve the highest level of service possible. This will be made possible through the upgrades described herein.
- **Goal B: Position 9-1-1 centers to continuously meet the public’s expectations**
The public is expecting more and more from local government, and 9-1-1 service is no exception. By providing an upgraded 9-1-1 mapping/GIS system, the public is receiving a higher standard of service which will meet or exceed their increasingly high expectations.

Section 5 – Budget Narrative

The Amelia County PSAP is solely funded by the county budget. Amelia County is a small, rural county with an approximate population of 13,500. This small population gives Amelia County a very small tax base to work with each year. Current funding levels for all county departments, due to the poor economy, are at a bare minimum. All county budgets have been cut by up to 30% during the last few budget cycles. This includes all branches of emergency services, including the Sheriff’s Office, volunteer fire department, rescue squad and Communication Center.

Without Wireless 9-1-1 Board grant assistance, Amelia County will not be able to upgrade the 9-1-1 mapping/GIS. At this point in time, we have investigated available grant monies from State and Federal sources and this grant program is our only method of implementing these programs. Given the current system in place, it is but a matter of time before someone needs the information that can be provided through by the upgraded system and does not receive it, placing the county in a very precarious legal predicament. Not receiving this information could have very dire consequences.

This grant request is broken down into the following categories and amounts (quotes are included at the end of this document):

- GeoComm Upgrade:
 - Mapping System – \$83,897
This includes the mapping software, DaPro Cad interface, training, licenses, servers, etc.
- Address/Building Polygons:
 - The address/building polygons will be purchased from VGIN based off of 2009 flyover data.
 - VGIN Total - \$4,066
- **Grant Request Grand Total – \$87,963**

Section 6 – Evaluation

This project shall be evaluated using three separate methods:

- Method 1 – Customer Satisfaction Survey
Near the end of the second year of the grant period, specific Wireline and Wireless 9-1-1 callers who have been identified as specifically being assisted directly by the use of this new technology shall be asked to complete a Customer Satisfaction Survey. Additionally, a similar survey will be sent to all branches of public safety in Amelia County to determine their satisfaction with the new system.
- Method 2 – Criteria Measurement
During the initial planning stages, specific criteria for the expected performance of the system shall be established. Near the end of the second year of the grant period, the system shall be evaluated against these system measures established during the planning stages.
- Method 3 – Virginia Statewide Comprehensive 9-1-1 Plan
Near the end of year two of the grant period, the system shall be measured against any future version of the Commonwealth’s 9-1-1 Plan. This will ensure that the system is being utilized in a manner that supports the Commonwealth’s vision for public safety.

Section 7 - Quote #1 - GeoComm, Inc.

Jason Malloy

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September 9, 2011

Price Estimate						
Description	Quantity	One Time Fee	License Transfer Discount	Annual Support	Installation & Training	Total Price
GeoLynx 911 Server	1	\$53,197		\$9,696	\$6,269	\$69,161
GeoLynx 911 Server Dispatch Modules	3	\$13,500	(\$13,500)	\$2,624	\$1,050	\$3,674
GeoComm CAD Interface	1	\$3,000		\$700	Included	\$3,700
DalPro CAD Interface	1	\$7,500		\$1,575	Included	\$9,075
Hardware Installation	1	\$1,000				\$1,000
Total:						\$86,610

Includes first year Support and Maintenance

Extended Maintenance						
Description	Year 2	Year 3	Year 4	Year 5	Total Price	
GeoLynx 911 Server	\$9,696	\$10,180	\$10,689	\$11,224	\$41,789	
GeoLynx 911 Server Dispatch Modules	\$2,624	\$2,755	\$2,893	\$3,038	\$11,310	
GeoComm CAD Interface	\$700	\$000	\$000	\$012	\$3,394	
DalPro CAD Interface	\$1,575	\$1,654	\$1,736	\$1,823	\$6,788	
Total:						\$63,281

Estimated Project Total **\$149,978**

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.

The prices include two dedicated web servers and local indexing hardware. If Webster County purchases and provides the dedicated web servers, the overall price will be reduced by \$68,940

If Amelia County provides the dedicated web server and it has more than one quad core processor (four cores of processing) or if more than two servers are utilized in a load balanced system, the software license for GeoLynx Server will increase.

ArcGIS Online World Routing Service Subscription is provided with GeoLynx Server if it is 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
- Multilingual routing directions

Existing software license transfer credit is good through December 2012.

Pricing Good for 90 Days

Section 8 – GeoComm, Inc. Justification Letter

December 13, 2010

Jason Malloy
E911 Coordinator
PO box 463
Amelia Court, House 23002

Subject: GeoLynx 911 Map Objects – Technically Outdated

Dear Mr. Malloy:

I am contacting you in regards to your GeoLynx Dispatch Mapping System. The system that you currently have utilizes ESRI's MapObjects (MO) Mapping Engine. In July 2010 ESRI officially end-of-lifed the MO platform and it is no longer available. ESRI also no longer provides updates nor do they support the MO platform.

In turn this means that the GeoLynx solution you currently use is technically outdated and the PSAP will need to purchase the newer ArcObjects mapping engine. GeoComm, keeping in step with ESRI has shifted all technical resources for GeoLynx 9-1-1 to ESRI's ArcObjects (AO) engine.

GeoComm is now offering a dispatch mapping system which utilizes ESRI's AO mapping engine. This new dispatch mapping system is called GeoLynx 9-1-1 Version 7 (G7). In order to bring the dispatch mapping system up-to-date Amelia County will need to purchase GeoLynx 9-1-1 Version 7.

The latest version of GeoComm's dispatch mapping system will provide the Amelia County with the latest in ESRI technology for public safety. This version enables the use of all ESRI data formats including, Personal GeoDatabase, File based GeoDatabase, ArcSDE GeoDatabase, ArcInfo Coverage and Shapefile.

GeoComm is happy to provide this new solution to our current customers at a discounted rate. I will be happy to assist in any way to help Amelia County attain this new solution. Please let me know if I can be of assistance.

Sincerely Yours,



Jon Greene
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GeoComm
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