



FY18

PSAP GRANT PROGRAM APPLICATION



VIRGINIA INFORMATION
TECHNOLOGIES AGENCY
Integrated Services Division



FY18 PSAP GRANT PROGRAM APPLICATION

HOW TO APPLY/DEADLINE

The grant application is available and accessible from VITA ISP's website (<http://www.vita.virginia.gov/isp/default.aspx?id=8578>). Upon completion of the application, it is to be submitted to the electronic mailbox for grant applications - psapgrants@vita.virginia.gov. Any supporting documentation must also be submitted along with the application when making your grant application submission.

After the close of the grant application cycle, a Grant ID and email receipt notification will be sent to the 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 FY18 PSAP Grant Application Cycle starts July 1, 2016 and concludes on September 30, 2016 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.



FY18 PSAP GRANT APPLICATION

PROJECT TITLE

Brunswick County Mapping Replacement

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Brunswick E-911 Communications Center

CONTACT TITLE: E-911 Coordinator

CONTACT FIRST NAME: Jimmy Lee

CONTACT LAST NAME: Pair

ADDRESS 1: PO Box 705

ADDRESS 2: 120 E. Hicks Street

CITY: Lawrenceville

ZIP CODE: 23868

CONTACT EMAIL: jpair@brunswickso.org

CONTACT PHONE NUMBER: 434-532-8239 x 303

CONTACT MOBILE NUMBER: 434-532-6347

CONTACT FAX NUMBER: 434-848-6014

REGIONAL COORDINATOR: Lyle Hornbaker

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Brunswick Co. Sheriff's Office - Host

Town of Alberta

Town of Brodnax

Town of Lawrenceville

GRANT TYPE

Individual PSAP

Shared Services



TIER

- | | |
|--|---|
| <input type="checkbox"/> Out of Service | <input checked="" type="checkbox"/> Non-Vendor Supported* |
| <input type="checkbox"/> Technically Outdated* | <input type="checkbox"/> Strengthen |
| <input type="checkbox"/> Not Applicable | |

If technically outdated or non-vendor supported, application MUST include age and/or version of hardware/software.

VERSION: 6.2.0.10

YEARS of HARDWARE/SOFTWARE: 10 years / Windows XP

PRIORITY/PROJECT FOCUS MAPPING SYSTEMS

FINANCIAL DATA

Amount Requested: \$ 117,334.00

Total Project Cost: \$ 117,334.00

PROJECT DESCRIPTION

Provide a detailed description of the project for which funding is being sought, including the impact on operational services and consequences of not receiving funding; the relationship to local strategic and capital improvement plans; and sustainability:

Brunswick County Sheriff's Office is in the process of upgrading our CAD system from Shield Technology to Zuercher Technologies to move forward with future technologies. This upgrade will allow our agency to continue to move forward to NG911 initiatives and also allow our agency to keep all of its software with one vendor. Our current CAD vendor will no longer provide any updates as it relates to the mapping product which is a Shield Product (SWMAP) integrated into our CAD program. The alternative is a third party mapping product that will interface with our current CAD. Currently the last mapping update that was pushed out by our vendor was on October 7, 2010. Also attached is an email from our current CAD vendor documenting their current version and the last mapping update. Also in the email stating that they will no longer provide any updates to the program moving forward. Currently any GIS files that we receive from our County GIS department are not able to be uploaded to our current mapping software due to the program being outdated. Our last update to our mapping was January of 2015. This hinders the 911 Centers ability to effectively plot Phase II calls on the map when new addresses are populated if our center isn't able to receive the updates.

Zuercher Mapping is a native application that is powered by Esri tools. Mapping is tightly integrated with CAD, and many dispatch functions are available on the mapping screen, including a movable CAD command line and other drag-and-drop elements. The Mapping screen includes an active incidents display and unit display with AVL functionality, routing, and unit status alerts. In Mapping if a Phase II call is received, it will plot on the map and an optional "uncertainty" radius can be displayed as well. Any layers that exist within that location will be shown on the CFS such as ESNs, beats, townships, etc. Local GIS personnel can maintain Zuercher Suite map data using native Esri files and software.

The inclusion of the GIS server means that much of the work of Mapping is performed on the server, rather than on the user's workstations, allowing map calculations to occur more quickly and efficiently. In addition, the GIS server provides advanced address verifications, ensuring that dispatchers who cover areas with multiple roads with the same names will be able to distinguish clearly between them for dispatch. Unit recommendations (CAD) and address verifications (throughout Zuercher Suite) may be performed without needing to have the actual map open on the client workstation.



PROJECT GOAL

Describe how this project addresses locally identified need(s) and supports the Virginia 9-1-1 Comprehensive Plan:

Next Generation 911 is coming. The communication technology used by the public is different than it was decades ago. It's time for a 911 system that's adapted to the faster, more flexible way that people communicate today.



PROJECT OBJECTIVES

Describe the objectives that will support the goals identified above:

The biggest (and probably most widely known) change related to NG911 is a substantial increase in the types of data which can be transmitted from callers to the 911 centers and their 911 call handling systems. Right now, the information is limited to the ANI/ALI data associated with the phone call itself. However, NG911 requires that dispatch centers be able to receive text messages, photos and videos through connected 911 systems. In addition, statewide GIS databases are being implemented to use GIS data and maps to route the calls to the appropriate public safety answering point.

Today, Zuercher Technologies imports data from agencies' 911 systems to Zuercher CAD, Zuercher Mapping, and Zuercher Insight Mapping ensuring that all critical data elements from a 911 call are present in a CAD call for service (CFS). After the 911 system receives 911 caller data elements (such as caller name, telephone number, carrier, and coordinates) Zuercher CAD automatically pre-populates this information into the CFS window. Zuercher CAD and Zuercher Insight Mapping provide similar functionality by providing the 911 call directly onto the map.

As more and more NG911 data elements are collected by the 911 systems, Zuercher Technologies will also map these to the appropriate fields in each CFS. Zuercher CAD already allows users to attach audio, video, and other media files to a CFS and the resulting case reports.

To be compliant with other changes that are coming as a result of NG911, CAD systems will need to run on a distributed network. In GIS map based distributed networks, the servers are at one location and other locations run off the servers across a wide area network (WAN). The underlying state GIS mapping system ensures that the call is routed to the appropriate PSAP.

Zuercher CAD is already running on a distributed network for a number of its clients. An excellent example of this would be how Zuercher CAD is deployed (along with Zuercher Mapping, Zuercher Mobile CAD, Zuercher Records and Zuercher Mobile Records) at the South Dakota Highway Patrol (SDHP). SDHP has three dispatch facilities – east, central, and west – covering an area of more than 64,000 square miles. All the Zuercher Suite servers are located in the central region's dispatch facility and the other facilities are connected back to those main servers.

However, since each dispatch region has different processes, SDHP has configured Zuercher CAD at each facility to function and operate according to regional needs and ways of doing business. In a similar way, we're prepared to configure Zuercher CAD as needed as our client agencies move toward NG911.

911 interfaces are becoming more and more sophisticated with the adoption of NG911, and Zuercher CAD, Zuercher Mapping, and Zuercher Insight Mapping offer a clear path forward for your agency. As in the past, the Zuercher products will continue to interface and be included in the comprehensive maintenance and support agreement offered by Zuercher Technologies. Upgrades and changes to Zuercher products, to enable further transitions from E-911 integration to NG911 integration, are also covered under this agreement. Zuercher GIS Services contracts will support the GIS data conversion required by a move to a new system.



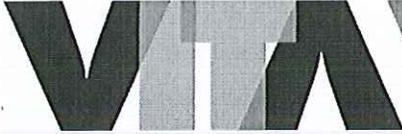
SHARED SERVICES (if applicable)

Describe the relationship of the project to the participating PSAPs:

N/A

Describe the intended collaborative efforts and resource sharing opportunities:

N/A



**IMPLEMENTATION PLAN
SHARED SERVICES & INDIVIDUAL PSAP APPLICATIONS:**

For each applicable phase of the project, indicate the planned completion date.

PROJECT PHASE	PLANNED COMPLETION DATE
INITIATION – 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, and budgetary estimates are obtained.	07 / 01 / 17
DESIGN/PLANNING - Requirements are documented, components to be purchased are identified, and general design is documented.	08 / 01 / 17
ACQUISITION - RFP (or other bid related processes) are drafted, proposals are evaluated, contract is signed, purchase orders are issued, and quotes are obtained.	10 / 01 / 17
IMPLEMENTATION - Purchased components are delivered and installed and training is performed	11 / 15 / 17
TESTING/COMPLETION - Performance of system/solution is validated and system/solution goes "live"	12 / 15 / 17



BUDGET AND BUDGET NARRATIVE

List the planned expenditures to be made with grant funds. Briefly explain the reason for each requested budget item and provide the basis for its cost. In addition, if contingency cost has been added, please identify the amount.

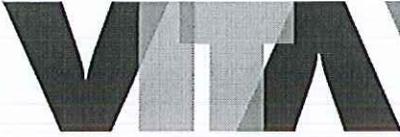
NOTE: In lieu of a line item breakdown, an itemized cost schedule or detailed vendor prepared quote may be submitted as an attachment, but a narrative is still required. However, budgetary quotes received from a particular vendor(s) during the application process do not commit the PSAP to use that vendor(s) once the grant is awarded.

Attached you will find an itemized quote on the equipment required in order to utilize Zuercher Mapping. This includes the hardware and software costs as well as software licenses for all five (5) workstations.

EVALUATION

How will the project as identified in the project description be evaluated and measured for achievement and success:

This project will be measured for success by its ability to meet and exceed our current programs capabilities as well as its ability to meet the requirements of NG-911.



CONSOLIDATION (Primary or Secondary) - (complete only 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



CONSOLIDATION (Primary or Secondary) - (complete only if applicable) – con't

How should it be funded:

N/A

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

N/A

Breakout of Mapping Costs

Software and Servers	Comments	Unit	Qty	Price	Total
Zuercher Suite Production Server (Dell Server, OS, Zuercher Suite Base Software, DB, Installation & Testing)			1	\$ 14,500	\$ 14,500
Zuercher Suite Training/Testing Server (Dell Server, OS, Zuercher Suite Base Software, DB, Installation & Testing)			1	\$ 9,500	\$ 9,500
Zuercher Suite Production GIS Server (Virtualized Server, OS, Software, Analytics, Installation & Testing)			1	\$ 7,500	\$ 7,500
Esri Server License (Esri ArcGIS for Server Workgroup Standard)			1	\$ 5,000	\$ 5,000
Mapping CAD Client License (for all full-time CAD workstations)		Per Agency	1	\$ 15,000	\$ 15,000
Mapping CAD Part-Time/Backup License		Per Seat	2	\$ 750	\$ 1,500
Mapping AVL Server License		Per Agency	1	\$ 10,000	\$ 10,000
Mapping AVL Playback Server License			1	\$ 3,300	\$ 3,300
Mobile AVL Client License		Per Unit	25	\$ 200	\$ 5,000
Mobile Mapping Client License		Per Unit	25	\$ 550	\$ 13,750
Software and Servers Pre-Discount Subtotal					\$ 85,050
Software and Servers Discount					\$ (31,104)
Software and Servers Total					\$ 53,946
Services	Comments	Unit	Qty	Price	Total
Project Manager (includes travel time & expenses)		Per Project	1	\$ 6,804	\$ 6,804
System Admin Training and Configuration (on-site, includes travel time & expenses)		Per Day	3	\$ 1,295	\$ 3,885
System Admin Training and Configuration (remote)		Per Day	2	\$ 795	\$ 1,590
Go-live Support (on-site, includes travel time & expenses)		Per Day	3	\$ 1,295	\$ 3,885
Mapping – One-time GIS Data Set Up			1	\$ 4,500	\$ 4,500
Services Total					\$ 20,664

TOTALS					Total
Software and Servers Pre-Discount Subtotal					\$ 85,050
Software and Servers Discount					\$ (31,104)
Software and Servers Total					\$ 53,946
Services Total					\$ 20,664
Prepaid Maintenance Total (Years 2 through 5)					\$ 42,724
TOTAL					\$ 117,334
Maintenance & Support Pre-Discount Subtotal					\$ 20,540
Maintenance & Support Discount					\$ (9,859)
Maintenance & Support (Year 1)			1		\$0.00
Maintenance & Support (Year 2)			1		Prepaid
Maintenance & Support (Year 3)			1		Prepaid
Maintenance & Support (Year 4)			1		Prepaid
Maintenance & Support (Year 5)			1		Prepaid
Taxes are not included in the pricing. On-site services provided on a 'per day' basis may include both actual time spent on site as well as travel time to and from the site.					

Non-Disclosure

This confidential document has been prepared by the sales division of Zuercher Technologies and contains ideas, concepts, methods and other proprietary information. Readers are to treat the information contained herein as confidential and may not copy or reproduce any of these materials for distribution outside of their organization without the written permission of Zuercher Technologies.

Jimmy Pair, 911 Coordinator

From: Daryl Douglass <daryl.douglass@shieldware.com>
Sent: Friday, July 29, 2016 2:39 PM
To: Jimmy Pair, 911 Coordinator; support@shieldware.com
Subject: RE: Shield Technology Corporation and GeoComm partnership SWMAPtransition

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Jimmy,

The SWMAP program version is 6.2.0.10 it is our program wrapped around an ESRI Map Objects core. The software has not undergone any changes since 10/17/2010.

As of March 2016 we have notified all clients working with this software that it will not undergo any further devolvement. Shield has partnered with GEOCOMM to provide their mapping solution and will integrate with SWCAD via an API that Shield is writing through a partner agreement. Geocomm has a transition discount for Shield Customers currently using SWMAP.

Shield will continue to provide support on the product while it remains in service at current customer locations.

Daryl Douglass
Shield Technology Corporation
Support@shieldware.com

From: Jimmy Pair, 911 Coordinator [mailto:JPair@brunswickso.org]
Sent: Monday, July 25, 2016 8:36 AM
To: Daryl Douglass <ddouglass@shieldware.com>
Subject: RE: Shield Technology Corporation and GeoComm partnership SWMAPtransition

Good Morning Daryl,

Brunswick County is seeking grant funding to upgrade our mapping program for CAD. In order to complete this grant I need the following information as a grand stipulation that is required for Non-Vendor Supported:

- Version of hardware/software
- Age of the hardware/software

Thanks,

Jimmy Lee Pair
E-911 Coordinator
Brunswick County Sheriff's Office
120 E. Hicks Street ~ PO Box 705
Lawrenceville, VA 23868
(434) 532-8239 Ext: 303 – Desk