

PSAP Grant Program Grant Ranker

View Application--149--Time Synchronization

Grant Period: 2010

Tier: Replacement of out of service wireless E-911 equipment to enable primary PSAP to maintain current service levels to the general public (**OUT OF SERVICE**)

Grant Program: Continuity and Consolidation **Grant Type:** Individual PSAP

Priority: Time Synchronization (**TIME SYNCH**)

Primary PSAP Applicants: Richmond County

Jurisdictions Served: Richmond, County of
Warsaw, Town of

Project Director:

Christopher H. Jett
Technology Director (E-911 Coordinator)
101 Court Circle, P.O. Box 1000, Warsaw, VA 22572
804-333-1100 (phone)
804-333-3408 (fax)
cjett@co.richmond.va.us

Project Description:

Total Project Cost \$16,000.00

Amount Requested: \$16,000.00

Statement of Need:

As part of the initial installation of CPE in the Richmond County PSAP in the summer of 1999, a Spectracom Netclock system (Model 8182) was installed that functioned properly for approximately 6 years. However, in 2005 this system ceased to function and, as a result, the PSAP has been without the benefit of time synchronization between its various computer systems for several years now. This current lack of time synchronization puts the PSAP in a difficult situation, where the attempt to keep the times of the various systems synchronized must be done manually and the potential differences in times between those systems lead to questions of liability and accuracy of the data being gathered and maintained by the PSAP. In the spring of 2007, the Richmond County PSAP moved into a newly constructed Sheriff's Office with a modernized network infrastructure. This has allowed for greater interfacing between the various systems within the PSAP, but has meant that the original Spectracom Netclock (Model 8182), even if it were functioning properly, is not capable of serving the additional complexities of the PSAP's new network, as well as its multiple isolated networks. The Richmond County PSAP currently has Vesta CPE, Dapro CAD and records management, Eagle Mapped ALI, VCIN, a Stancil voice logging recorder, and security and surveillance systems that would benefit from a time synchronization system such as the Spectracom NENA Compliant NetClock GPS Package for 911 Command Center. However, County funds are currently not available for the purchase of such a system, which is estimated to cost (including installation) \$12,255, with five years of pre-paid maintenance costing an additional \$3,745. The E-911 Wireless Services Board currently provides Richmond County approximately \$45,000 annually. However, this funding is already being utilized to offset the maintenance costs of the County's E-911 CPE, voice logging recorder, and Eagle

mapping software maintenance, as well as personnel costs for dispatchers and IT support staff. Time synchronization is listed as priority 9 under the FY10 PSAP Grant Continuity and Consolidation Program. Without the requested \$16,000 in grant funding, the Richmond County PSAP will be forced to look to the County's general fund budget for the necessary funds to purchase the Spectracom 911 Command Center package. However, due to the tough economic times, the chances for funding such a system through the County's local budget are limited. If the necessary funding is not obtained, the PSAP will be forced to continue operating as is - without time synchronization and with the liability and data accuracy concerns that result.

Comprehensive Project Description:

Richmond County wishes to replace the Spectracom NetClock time synchronization system within the PSAP, which ceased to function approximately three years ago. As part of the initial installation of CPE in the Richmond County PSAP in the summer of 1999, a Spectracom Netclock (Model 8182) system was installed that functioned properly for approximately 6 years. However, in 2005 this system ceased to function, putting the PSAP in a difficult situation where the attempt to keep the times of the various systems synchronized must be done manually and the potential differences in times between those systems lead to questions of liability and accuracy of the data being gathered and maintained by the PSAP. The Richmond County PSAP currently has Vesta CPE, Dapro CAD and records management, Eagle Mapped ALI, VCIN, a Stancil voice logging recorder, and security and surveillance systems that would benefit from a time synchronization system. Since the PSAP moved into a newly constructed Sheriff's Office in the spring of 2007, with a modernized network infrastructure and multiple isolated networks, the originally installed Spectracom (Model 8182) Netclock system would not be capable of serving the increased complexity of the PSAP's network infrastructure, even if it were able to be repaired. As a result, Richmond County proposes to replace its original (non-functional) time synchronization system with a new, fully NENA Compliant NetClock GPS Package for 911 Command Center, also provided by Spectracom. This proposed system comes with a 5-year warranty and all of the equipment necessary to serve the multiple, isolated network setup currently existing within the Richmond County PSAP. The cost estimate for the initial installation is \$12,255, which includes \$9,555 for the equipment and \$2,700 for installation labor. The cost estimate for pre-paid maintenance on the system through year five is an additional \$3,745, resulting in a total grant funding request of \$16,000.

How will the equipment purchased will support future technologies for PSAP readiness?:

The ability of the proposed Spectracom NetClock GPS Package for 911 Command Center to serve multiple, isolated networks will allow the same system to provide synchronization for additional systems that may be added to the PSAP in the future, without the need to purchase additional time synchronization systems.

Budget and Budget Narrative:

Richmond County is requesting a total of \$16,000 in grant funds to cover the cost of purchasing the fully NENA Compliant NetClock GPS Package for 911 Command Center from Spectracom. The purchase of the necessary equipment is estimated at \$9,555, the cost for its proper installation is estimated at \$2,700, and the cost for its maintenance through year five is estimated at \$3,745.

Evaluation:

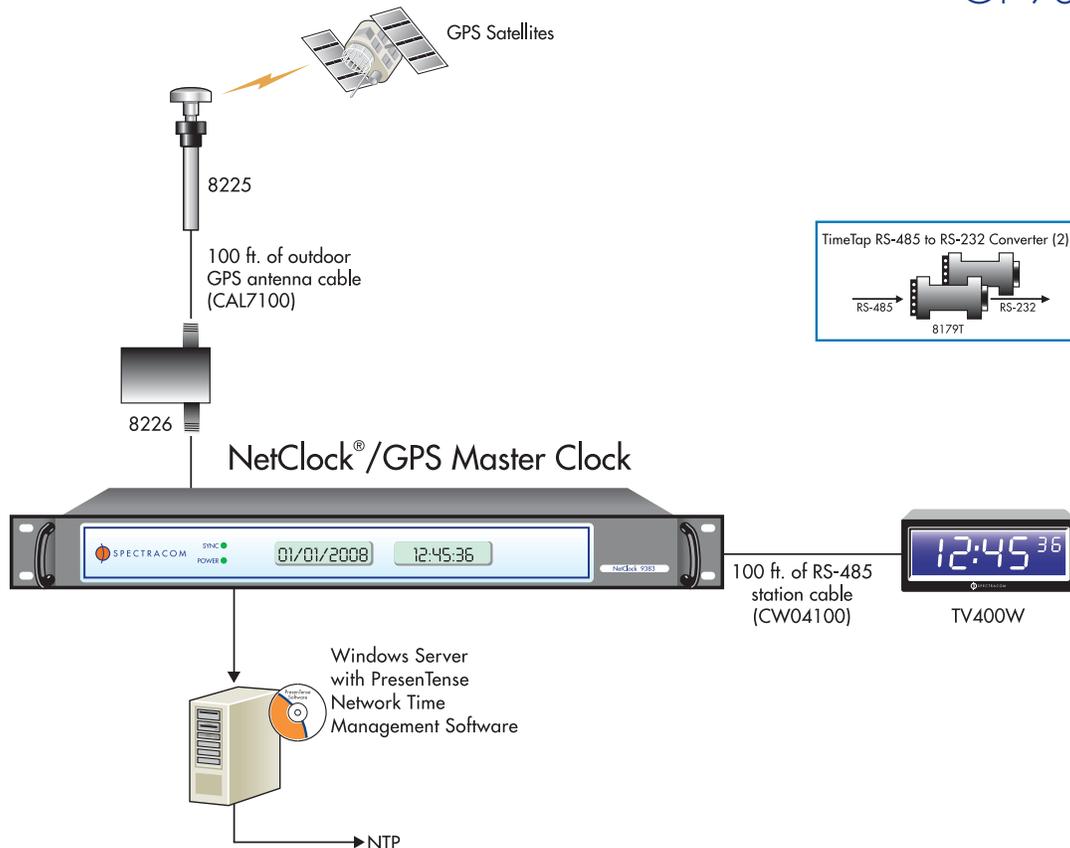
Evaluation of the success of Richmond County's Time Synchronization project will include demonstration that the proposed NetClock GPS Package for 911 Command Center has been purchased from Spectracom, that it has been installed within the Richmond County PSAP, and that it is operating properly.

Attachments

Spectracom Quote.doc
GP932-OCXO_NetClock_Command_Center_Package.pdf

NetClock® GPS Command Center Package

GP932-OCXO



PACKAGE INCLUDES

- (1) NetClock®/GPS Master Clock; Model 9383
- (1) OCXO Premium Oscillator for GPS Backup
- (1) GPS Outdoor Antenna; Model 8225
- (1) GPS Surge Protector; Model 8226
- (1) Outdoor GPS Antenna Cable; CAL7100, 100 ft.
- (1) PresenTense Network Time Management Software CD
- (1) TimeView™ 400 Display Clock; Model TV400W
- (2) TimeTap RS-485 to RS-232 Converter; Model 8179T
- (1) RS-485 Station Cable; CW04100, 100 ft.

Type N Connectors

Power Supplies

The NetClock® GPS Command Center Package provides a complete solution for time synchronization. It includes all the necessary interfaces found in most PSAP applications to provide legally traceable time throughout a center.

The NetClock 9383 includes an integrated OCXO Premium Oscillator for GPS Backup. If the signal acquisition from the GPS satellites is disrupted (such as loss of antenna due to a lightning strike, wind, or ice storm damage), if the antenna cable integrity is compromised, or if GPS itself is turned off for any reason, the OCXO will maintain seamless time synchronization for 30 days. (Note: additional interfaces may be necessary for a particular system. Contact your Sales Engineer for assistance.)

April 16, 2013

Quote

Christopher H. Jett
Richmond County, VA
P. O. Box 1000
Warsaw, VA

Dear Christopher:

Thank you for the opportunity to quote our NetClock time synchronization solutions. We are pleased to submit the following quotation for your consideration.

Qty	Model	Full NENA Compliant NetClock GPS Package For 911 Command Center	Price	Extended Price
1	GP934 2 Networks Command Center Package	(1) 9383 : NetClock/GPS Master Clock with NTP and 5- year warranty. (1) Opt 05 : OCXO Oscillator in 9383 (1) 8225 : GPS Outdoor Antenna (1) Weather Proofing Kit for Antenna (1) 8226-002-0600 : Grounding Kit (1) 8226 : GPS Surge Protector (1) 9388 : Ethernet Time Server (1) CAL7100 : 100' GPS Antenna Cable (LMR 400) (1) TV400W : TimeView 400; 4" Display Clock (1) CW04100 : 100' RS-485 Station Cable (1) s-ntp-UNLs-2LAN : PresenTense Software Package	\$9,555	\$9,555.00
5	PSP-9383	Premium Support Package (Details Attached) (5-years)	\$ 749.00	\$3,745
		Total		\$13,300.00

Spectracom has been designing and manufacturing NetClock GPS master clocks for over 30 years. We proudly synchronize over 4000 911 PSAP's across North America. We take pride in the quality of our products and offer an industry leading 5-year warranty and excellent tech support on all our products. I look forward to getting you set up with a Spectracom NetClock and having the opportunity to earn your business.

Our Pricing is based upon the following:

- 5-year Spectracom warranty
- Shipment stock to 4 weeks after acceptance of order
- All Shipping Charges paid by customer.
- FOB Rochester NY
- Credit Terms are Net/30 with credit approval
- All pricing above is firm for order placement within 30 days from date of this quotation.
- Spectracom's standard terms and conditions apply
- Installation is not included in this proposal.

If you have any questions about our equipment or its applications, please contact me.

Best Regards,

Michael Messina

Technical Sales
Direct: 585-321-5850

Cell: 585-704-8609