

FY12

PSAP GRANT PROGRAM APPLICATION



FY12



FY12 PSAP GRANT PROGRAM APPLICATION

HOW TO APPLY/DEADLINE

The grant application will be available and accessible from VITA's Integrated Services Program's website (<http://www.vita.virginia.gov/isp/>). 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.

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. In addition to the grant application reference manual, technical assistance is available from VITA's Public Safety Communications (PSC) staff throughout the grant process. The FY12 PSAP Grant Application Cycle deadline is December 22, 2010 at 11:59 pm.



FY12 PSAP GRANT APPLICATION

PROJECT TITLE

Click here to enter text

GRANT APPLICANT PROFILE/PROJECT CONTACT

PSAP/HOST PSAP NAME: Radford City Communications

CONTACT TITLE: Sergeant

CONTACT FIRST NAME: Angie

CONTACT LAST NAME: Simpkins

ADDRESS 1: 601 West Main Street

ADDRESS 2:

CITY: Radford

ZIP CODE: 24141

CONTACT EMAIL: arsimpkins@radford.va.us

CONTACT PHONE NUMBER: 540-731-3624(Main)/540-267-3205(Office/V. Mail)

CONTACT MOBILE NUMBER: 540-392-4353

CONTACT FAX NUMBER: 540-731-3620

REGIONAL COORDINATOR: Donna Brown

HOST PSAP AND PARTICIPATING PSAPS/LOCALITIES

Radford City 9-1-1	

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 Non-Vendor Supported
 Technically Outdated Strengthen
 Not Applicable

PROJECT FOCUS Other

If "Other" selected, please specify: **Time Sync**

FINANCIAL DATA

Amount Requested: \$11,916.00

Total Project Cost: \$11,916.00

STATEMENT OF NEED

Currently, the Radford City Police Department/E-911 Center does not have a system in place that will synchronize the time on all of our different sources (CAD, Radio, Recorder, etc). The grant being submitted is for a NetClock Time Server (PSAP Command Center package), which will allow every source of time in the PSAP to read the same at all times. The growing technology increases the demand for this type of hardware. With everything being computerized more and more, that increases the amount of time sources we have...and they all need to be the same. The reason that everything needs to have the same time is for accuracy. This not only aides Police Officers with their report writing, but it aides the E-911 Communications Center supervisor's to get an accurate depiction of call handling with their employees/subordinates. The main function will be to serve the citizens of the community better by having accurate and in-sync times for when something occurs or for when someone calls something in to the center. The first responders definitely need this time sync to occur for court testimony as well. If an attorney and/or citizen subpoena's any of our records at this present time, then they will all show something different. That jeopardizes our credibility as well as reliability in the eye of the public. Also, the NetClock would automatically time stamp everything so that would be one less duty for the Communications Officers to have to try to do and do accurately.



This statement should reference the relationship to the current funding priorities established by the Grant Committee and include evidence of any financial need. Additional items to discuss that referenced need should include: impact on operational services; consequences of not receiving funding; inclusion of project in a long-term or a strategic plan; and local sustainability:

The grant says that “Time Sync” is specifically related to Continuity and Consolidation. Our budget is very slim (as is everyone else’s in the state) due to budget cuts. This would greatly increase the accuracy of time for all incidents while also freeing the dispatcher from that duty to do something else. If we do not receive funding, we will have to wait until the next grant cycle to submit again...in the meantime, the documentation will suffer because it is currently inaccurate. The officers would risk losing cases as well. No installation costs and very low maintenance so we could maintain the system easily once the initial purchase is made.

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

This will be maintained by our IT personnel after the first year of service has expired from the manufacturer. This will be kept in a central location (server room most likely) so that it is easily accessible and can reach all sources of time. There is very little maintenance cost with this project (for the first year and after), so the locality can handle that cost for the 2nd year and beyond, if necessary. The addition of the NetClock will allow us to easily integrate new technological equipment with ease, and it will have the same time as all of the other equipment.

COMPREHENSIVE PROJECT DESCRIPTION

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

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.

The knowledge, training, and usage of the NetClock is specific to Communications (and 9-1-1/Public Safety) because time is of the essence in the public safety spectrum. Normal day-to-day job functions do not require all times be the same in an office. However, inaccurate times can cause an officer to lose a case in a heartbeat. On top of that, it looks as though they may be lying about things...or that we are not competent enough to maintain our equipment and time on that equipment. The times change on their own in the different computers, so we have to use one clock on the wall to give times back...but that doesn't match the reports most of the time. The time being in-sync also matters for major crimes that occur (homicide, arson, rape, etc) because we need a time frame to aide the investigation. If the times are all over the place, then the investigation will be hindered. In totality, the NetClock aides everyone in the public safety spectrum (Police, Fire, Rescue). That, in turn, helps the community that we all work in as well. It is often overlooked, but it's very important!

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.

[Click here to enter text](#)



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)	12 / 01 / 2010
<input type="checkbox"/> DESIGN/PLANNING (Project, system, or solution requirements are developed)	12 / 16 / 2010
<input type="checkbox"/> ACQUISITION (Selected system or solution is procured)	04 / 01 / 2011
<input type="checkbox"/> IMPLEMENTATION (Selected system or solution is configured and installed)	05 / 01 / 2011
<input type="checkbox"/> TESTING/COMPLETION (Selected system or solution is tested and put in production)	06 / 02 / 2011

Identify the longevity or sustainability of the project.

This project should last us, at a minimum, ten (10) years or more. I have spoken with others who have used this product and they have been very satisfied with the results. The sustainability is very promising because the NetClock is made for NextGen 911 operations...especially the Command Center Package.



Describe how this project supports the Virginia Statewide E-911 Strategic Comprehensive Plan.

This project supports the statewide E-911 Strategic Comprehensive Plan because it is a NextGen technology-based product and is approved by NENA and others. It is a product that will take us into the next phase of technologically smart centers as well because we have only relied on individual computers or programs in the past. Plus, VITA has stated that they provide outstanding service and technology to support customers and meet business needs. This is an absolute technological need that we ask to be supported in our locality.

REGIONAL INITIATIVE (if applicable)

The relationship of the initiative to the participating PSAPs:

[Click here to enter text](#)

Intended collaborative efforts:

[Click here to enter text](#)



Resource sharing:

Click here to enter text

How does the initiative impacts the operational or strategic plans of the participating agencies:

Click here to enter text

CONSOLIDATION (Primary or Secondary) - (if applicable)

How would a consolidation take place and provide improved service:

Click here to enter text



How should it be organized and staffed:

Click here to enter text

What services should it perform:

Click here to enter text

How should policies be made and changed:

Click here to enter text

How should it be funded:

Click here to enter text



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

[Click here to enter text](#)

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:

Please see attached pages (two total).

You will see the first page shows one (1) 9388 Ethernet Time Server costing \$1,495. However, the second page shows the cost for two (2) of those, which totals \$2,990. The reason for this is that I did not get a new first page to show that we will be ordering two (2) Ethernet Time Servers if the grant is approved. These are required for anything not on the same network as the rest of the equipment. Currently, that is one of the radio system and one for the VIPER phone system.

EVALUATION



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

Upon installation of the NetClock, we will insure that all equipment is set to the same time. This will be checked daily during the first two weeks of activation. Then, it will be checked periodically for any deviation. A function of this NetClock system I am requesting funds for is that it will notify us when there is a malfunction or problem.

The ones who rely on it the most will be questioned to see if the system has benefited them and in what way, if so.



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"



QUOTE

QUOTE #: 10-005962/3
DATE: 12/16/2010

95 Methodist Hill Drive
Rochester, NY 14623
Phone 585.321.5800 Fax 585.321.5219

sales@spectracomcorp.com
www.spectracomcorp.com

TO: Angle Simpkins
Radford City Police Department

FROM: Will Hickey
Channel Manager
(585) 321-5832 (direct)
willh@spectracomcorp.com

QTY	MODEL #	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	GP952	PSAP Command Center package (compliant to NENA Master Clock specification 04-002): (1) NetClock/GPS Time Server/Master Clock Model 9383 with Opt 05 OCXO Oscillator for GPS Back-up, (1) GPS Outdoor Antenna Model 8225, (1) GPS Antenna Surge Protector Model 8226, (1) Outdoor GPS Antenna Cable - 100 ft. CAL7100, (2) TimeView® 400 Display Clock Model TV400W; (1) RS-485 Station Cable - 100 ft. CW04100, and (1) s-ntp-20s-1LAN PresenTense Package. One license copy is needed per LAN in the same postal address. CD. Total Price: \$8,402 Package Discounted Price: \$7,982	\$ 7,982	\$ 7,982
1	9388	Ethernet Time Server with RJ-45 network connection Provides time synchronization with 10/100Base-T interface for separate, independent networks. Requires time code output from a NetClock Time Server/master clock.	\$ 1,495	\$ 1,495
Option	PSP9383	24/7 Premium Support Package (1 yr - renewable) <ul style="list-style-type: none"> • 24/7 Emergency technical support for down mission critical systems • Express 24 hour loaner service (loaners sent out within 24 hours of a call) • Free loaners (normally a \$250 Dollar/mo. Min charge) • Priority repair service, first class rank for repair service (standard 10-14 days) • Free domestic ground shipping of repairs (normally a one way charge) • Can be renewed within 30 days of expiration period 	\$ 749/yr	
	Shipping	UPS-Gnd shipping charges: GP951 GP952 + 1 @ 9388 GP952 + 2 @ 9388	\$ 55 \$ 65 \$ 75	
TOTAL				11,916.⁰⁰

TERMS AND CONDITIONS INCLUDE

Availability:	Stock to 3 weeks ARO	FOB:	Shipping Point
Payment:	30 days net (with approved credit)	Shipping Charges:	Prepaid and added to the invoice
Warranty:	5-year limited warranty	Quote Validity:	30 Days after quote is issued
Pricing:	All pricing is in US Dollars (\$)	Installation:	Not included in proposal

***Spectracom's standard terms and conditions of sale will apply.



QUOTE

QUOTE #: 10-005962/2
DATE: 12/16/2010

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Rochester, NY 14623
Phone 585.321.5800 Fax 585.321.5219

sales@spectracomcorp.com
www.spectracomcorp.com

TO: Angie Simpkins
Radford City Police Department

FROM: Will Hickey
Channel Manager
(585) 321-5832 (direct)
willh@spectracomcorp.com

QTY	MODEL #	DESCRIPTION	UNIT PRICE	LINE TOTAL
2	9388	Ethernet Time Server with RJ-45 network connection Provides time synchronization with 10/100Base-T interface for separate, independent networks. Requires time code output from a NetClock Time Server/master clock.	\$ 1,495	\$ 2,990
TOTAL				\$ 2,990

TERMS AND CONDITIONS INCLUDE

Availability:	Stock to 3 weeks ARO	FOB:	Shipping Point
Payment:	30 days net (with approved credit)	Shipping Charges:	Prepaid and added to the invoice
Warranty:	5-year limited warranty	Quote Validity:	30 Days after quote is issued
Pricing:	All pricing is in US Dollars (\$)	Installation:	Not included in proposal

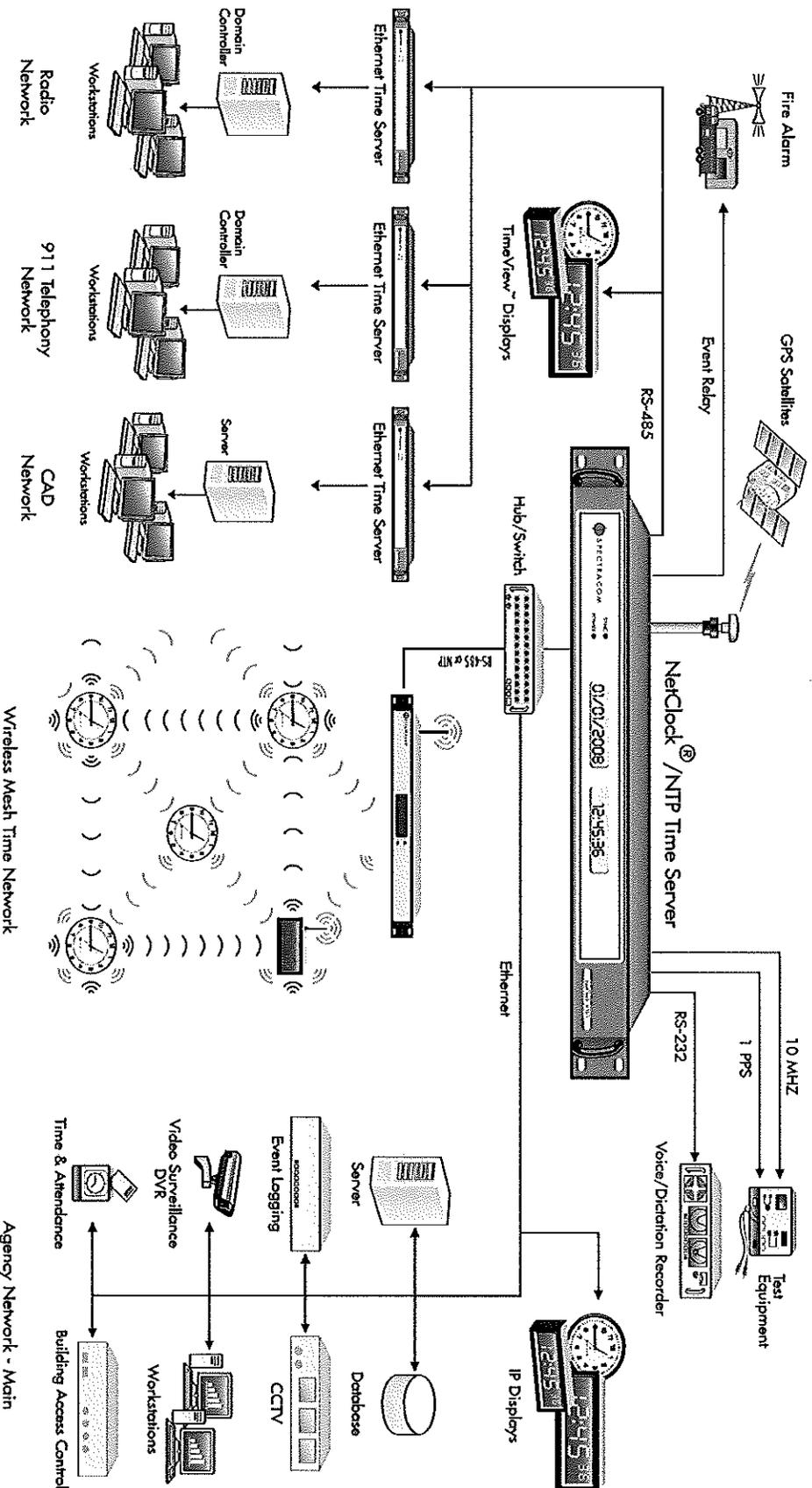
***Spectracom's standard terms and conditions of sale will apply.



SPECTRACOM

Synchronizing Critical Operations®

Synchronized Communication Center



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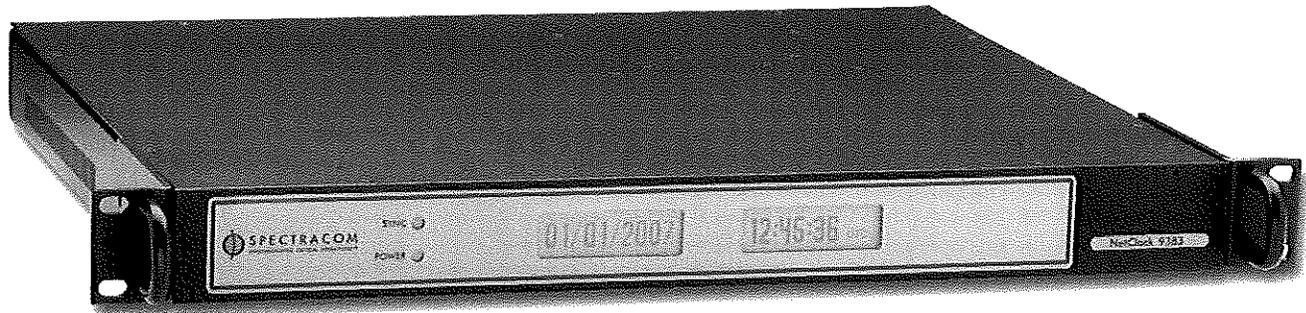




SPECTRACOM

Synchronizing Critical Operations®

NetClock® Time Server Model 9383



- Meets NENA PSAP Master Clock Standard #04-002
- Stratum 1 NTP v2, v3, v4 Time Server
- Precision GPS time reference (optional IRIG or modem)
- Security features: IPSec, SSL, SNMP v3, SSH, SCP, SFTP
- Ideal for synchronizing 9-1-1 systems, computer networks, CAD, radio consoles, voice and video recorders, ANI/ALI, display clocks
- GPS back-up oscillators (OCXO and Rubidium)
- Peering and stratum 2 (up to 15) via NTP servers
- Supports internal audits including: audit trails, time-stamped records, log files, data archiving
- Web-based user interface
- IPv4/IPv6 dual stack
- Supports centralized user authentication (LDAP, RADIUS) and logging (Syslog)
- Remote diagnostics, flash upgrades, configuration, and control over secure communication link
- Hardened case design for vehicular applications
- RoHS compliant/UL approved
- 5-year limited warranty

Applications such as emergency communications centers require reliable timing to accurately synchronize networks, systems, and devices and to log events with legally traceable time. Spectracom's NetClock Model 9383 is ideally suited for delivering worldwide, split-second timing to mission critical systems. The 9383 is the latest generation NetClock that has set the standard for the highest reliability systems.

Enhanced security features ensure operational integrity and can be enabled or disabled based on your needs. These features include remote login and file transfer capabilities, providing the utmost security using industry standard interfaces.

The simplicity of installation, ease of management, and reliable operation of the 9383 reduces the cost of network administration. It includes full SNMP capability, support for enterprise directory servers to authenticate users, internal and external logging and monitoring of error messages through Syslog, DHCP for installation convenience, and IPv4/IPv6 dual stack for future network modernization.

Enhanced reliability features include optional oven-stabilized crystal oscillators (OCXO) and Rubidium oscillators to maintain timing if the GPS reference is lost. They also provide stable 10 MHz and 1PPS outputs for communications systems. An optional dial-out modem provides back-up to GPS or functions as the primary reference for disaster recovery. NTP Peering allows for redundancy when multiple NetClock systems are deployed.

Model 9383 can track up to twelve GPS satellites simultaneously, providing highly accurate timing by synchronizing to the satellites' atomic clocks. A variety of time codes are available to meet the requirements of numerous systems. Alarm outputs and programmable timer relays are also provided.

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PERFORMANCE**TYPICAL ACCURACY¹:**

- 1PPS output ± 50 nanoseconds of UTC
- RS-232/RS-485: Time code ± 100 microseconds to ± 1 millisecond of UTC, format dependent
- IRIG B/E ± 20 microseconds to ± 200 microseconds of UTC, format dependent
- Ethernet NTP: Output jitter within ± 50 microseconds relative to UTC typical
- Internal Oscillator/10 MHz
 - TCXO: 1×10^{-11} typical 24-hour average locked to GPS/24-hour holdover (output dependent) unlocked
 - OCXO: 1×10^{-11} typical 24-hour average locked to GPS, 2×10^{-11} per week typical aging/30-day holdover (output dependent) unlocked
 - Rubidium: 1×10^{-11} typical 24-hour average locked to GPS, 1×10^{-11} per month typical aging/2-year holdover (output dependent) unlocked

¹ All output specifications are relative to GPS reference, unless noted otherwise.

OUTPUTS AVAILABLE:

Type	Connector
Ethernet 10/100 Base-T	RJ45 (auto sensing)
RS-232 Serial Connector ²	DB9 female
RS-485 Once-per-Second ²	3.81mm Terminal Block
IRIG B/E AM/TTL	BNC
1 Pulse Per Second	BNC
10 MHz Frequency Output	BNC
Alarm Outputs (up to 3)	3.81mm Terminal Block
Programmable Timer Output (up to 3)	3.81mm Terminal Block

² Serial time code formats: 0, 1, 2 (BIM Splex), 3, 4, 7, 8, 90 (GPS)

NETWORK PROTOCOLS:

- NTP v2, v3, v4: Conforms with or exceeds RFC 1305 and 4330. Supports Unicast, Broadcast, MDS encryption, Peering, Stratum 2, Autokey
- HTTP: Browser-based configuration and monitoring
- Telnet: Remote configuration
- FTP Server: Access to logs
- SNMP: Supports v1, v2, v2c, and v3 (no auth/auth/priv) with Enterprise MIB
- IPSec: IPv4/IPv6 Transport Mode
- IPv4/IPv6: Dual stack
- DHCP/DHCP6: Automatic IP address assignment
- LDAP: Authentication
- RADIUS: Authentication
- Syslog: Logging
- Time (RFC868)
- Daytime (RFC867)

SECURITY FEATURES:

- Enable/block protocols
- Set SNMP community names and network access
- Password protected
- Encryption: DES, 3DES, AES
- Authentication: SHA1, MD5
- SSL Web Based Interface: Web UI uses SSL to allow the use of the secure HTTPS protocol to access configuration and status web pages.
- SSH: utilizes SSL and data compression technologies to provide a secure and efficient means to control, communicate with, and transfer data to or from the master clock remotely.
- SCP: is used to securely transfer files to and from the time server over an SSH session.
- SFTP: is an FTP replacement that operates over an encrypted SSH transport.
- SHMPv3 (no auth/auth/priv): allows remote configuration and management over an encrypted connection.

INPUTS AVAILABLE:

Type	Connector
1PPS Input	BNC female
RS-232 Serial Set-up Interface ³	DB9 female
GPS Antenna ⁴	Coaxial N type
AM IRIG Input	BNC
DCLS IRIG Input	DB9
Key Fill Device	DS-102
Power	3 pin screw terminal

³ Serial set-up interface configures network settings. The port works at 9600 baud, 8N1, and can be accessed with a PC terminal emulator.

⁴ Option 06 replaces antenna input with IRIG on BNC connector.

MODEM OPTION (PRIMARY OR BACK-UP DIAL-OUT REFERENCE):

Serial set-up interface connects to an external modem that provides primary or back-up (in the event of a loss of GPS signal) connection to Legally Traceable Time® from NIST's ACTS or ITU-R services.

POWER:

90–240 VAC, 47–63 Hz from supplied external CE/UL/CSA approved power supply with IEC 320 universal power cord connector. North American power cord included. Alternate type line cords or adapters may be obtained locally. Unit operates from 12 VDC nominal (+9.5 – +30 VDC) @ 18 watts. Rubidium, option 04 uses 24 VDC nominal (+18 – +32 VDC) @ 2.5 amps.

FRONT PANEL:

- Status Indicators: "Power" and "Sync" multi-color LED
- Selectable 12 or 24 hour display, Hours, Minutes, Seconds, Day of Year

PHYSICAL & ENVIRONMENTAL**SIZE/WEIGHT:**

Designed for EIA 19" rack mount, 16.75" W x 1.72" H (IU) x 14.00" D actual (425 mm W x 44 mm H x 356 mm D actual)
 Weight: 6.5 lbs. (2.95 kg) with Rubidium option; 6.0 lbs (2.72 kg) without
 Rack mount hardware included (assembly required)

ENVIRONMENTAL:

	Operating	Storage	MIL-STD-810F Method
Temperature:	0° to 50°C	-40° to +85°C	501.4, 502.4
Humidity:	10%–95% R.H., non-condensing	10%–95% R.H., non-condensing	507.4
Altitude:	15,000 ft	40,000 ft	500.4
Shock:	15g/0.53 oz, 11 ms, half sine wave	40g/1.76 oz, 11 ms, half sine wave	516.5
Vibration:	10–55Hz/0.075g, 55–500Hz/1.0g	10–55Hz/0.15g, 55–500Hz/2.0g	514.5

AGENCY APPROVALS:**GPS RECEIVER SPECIFICATIONS****STANDARD:**

Receiver Input: L1 (antenna sold separately)
 Tracking: 1 to 12, GPS L-RAM satellite error management
 Acquisition Time: cold start, 250 seconds (typical)

WARRANTY**5-YEAR LIMITED WARRANTY:**

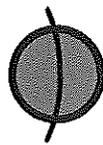
- Rubidium oscillator (Option 04) is warranted for two years from date of shipment.
- Extended warranty is available.

ORDERING INFORMATION

Specify NetClock Time Server, Model 9383, plus:

- Option 03: Modem
- Option 04: Rubidium Oscillator
- Option 05: OCXO Oscillator
- Option 06: IRIG-B Input

For additional Spectracom accessories, contact the Sales Department for more information.



SPECTRACOM
SYNCHRONIZING CRITICAL OPERATIONS®

NetClock® Model 9383 Fully Complies with the NENA PSAP Master Clock Standard (NENA-04-002)

The National Emergency Number Association (NENA) PSAP/CPE Technical Committee spent several years developing comprehensive equipment specifications for Public Safety Answering Points (PSAPs), i.e., 911, Police, Fire, and Emergency Medical Service communications centers throughout the country. A key component of the Customer Premises Equipment (CPE) is the Master Clock (spec. #04-002) for providing time synchronization throughout a center. The complete specification can be viewed at the following website:

www.nena.org/9-1-1TechStandards/Standards_PDF/NENA%2004-002%20May%2000.pdf

Spectracom has addressed this requirement with the introduction of the NetClock Model 9283 as the master timing system in a PSAP. It fully complies with this specification by providing all the necessary system and device outputs, including an integrated Ethernet Time Server, for total system interoperability.

Design Criteria Checklist:

- Traceable to Coordinated Universal Time (UTC) with continuous accuracy of 0.1 seconds relative to UTC
Exceeds NENA Spec.: Within 100microsec of UTC (format dependent)
- If Master Clock becomes UNLOCKED from its external UTC time source, its "free-run" error accumulation will not exceed 1-second per day
Exceeds NENA Spec.: Less than 400millisec per day
- Adjustable front-panel display to indicate time with selectable 12- or 24-hour display in HH:MM:SS
Exceeds NENA Spec.: Two front-panel displays individually programmable for simultaneous time and date information

NetClock can provide multiple time code outputs, including:

- RS-232 Serial with the following features:
 - Time zone offset
 - Available on both bi-directional (when a "request-to-send" character is received) AND broadcast ports
 - Minimum of 6 data formats*Exceeds NENA Spec.: Total of 4 Ports for RS-232 Output Data independently configurable for CPE requirements*
- IRIG B/E offering:
 - Amplitude modulated and pulse-width coded outputs
 - Adjustable time code signal level outputs
 - BNC output connector
- 10/100Base-T interface for NTP/SNTP (Network Time Protocol/Simple Network Time Protocol)
- Automatically adjusts for Daylight Savings Time
- Status Indicators for LOCKED/UNLOCKED and TIME SYNCHRONIZED/UNSYNCHRONIZED to the external UTC source
- Alarm Dry Contact Closures activated upon loss of power or when clock has lost time synchronization

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 Phone 585.321.5800 Fax 585.321.5219

QUOTE #: 10-005962/1
 DATE: 12/16/2010

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 www.spectracomcorp.com

TO: Angie Simpkins
 Radford City Police Department

FROM: Will Hickey
 Channel Manager
 (585) 321-5832 (direct)
 willh@spectracomcorp.com

QTY	MODEL #	DESCRIPTION	UNIT PRICE	LINE TOTAL
1	GP952	PSAP Command Center package (compliant to NENA Master Clock specification 04-002): (1) NetClock/GPS Time Server/Master Clock Model 9383 with Opt 05 OCXO Oscillator for GPS Back-up, (1) GPS Outdoor Antenna Model 8225, (1) GPS Antenna Surge Protector Model 8226, (1) Outdoor GPS Antenna Cable - 100 ft. CAL7100, (2) TimeView® 400 Display Clock Model TV400W; (1) RS-485 Station Cable - 100 ft. CW04100, and (1) s-ntp-20s-1LAN PresenTense Package. One license copy is needed per LAN in the same postal address. CD. Total Price: \$8,402 Package Discounted Price: \$7,982	\$ 7,982	\$ 7,982
1	9388	Ethernet Time Server with RJ-45 network connection Provides time synchronization with 10/100Base-T interface for separate, independent networks. Requires time code output from a NetClock Time Server/master clock.	\$ 1,495	\$ 1,495
Option	PSP9383	24/7 Premium Support Package (1 yr - renewable) <ul style="list-style-type: none"> • 24/7 Emergency technical support for down mission critical systems • Express 24 hour loaner service (loaners sent out within 24 hours of a call) • Free loaners (normally a \$250 Dollar/mo. Min charge) • Priority repair service, first class rank for repair service (standard 10-14 days) • Free domestic ground shipping of repairs (normally a one way charge) • Can be renewed within 30 days of expiration period 	\$ 749/yr	
TOTAL				

TERMS AND CONDITIONS INCLUDE

Availability:	Stock to 3 weeks ARO	FOB:	Shipping Point
Payment:	30 days net (with approved credit)	Shipping Charges:	Prepaid and added to the invoice
Warranty:	5-year limited warranty	Quote Validity:	30 Days after quote is issued
Pricing:	All pricing is in US Dollars (\$)	Installation:	Not included in proposal

***Spectracom's standard terms and conditions of sale will apply.