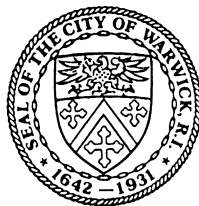


Patricia A. Peshka  
Purchasing Agent



Scott Avedisian  
Mayor

**City of Warwick**  
Purchasing Division  
3275 Post Road  
Warwick, Rhode Island 02886  
Tel (401) 738-2013  
Fax (401) 737-2364

The following notice is to appear on the City of Warwick's website Thursday, April 6, 2017.  
The website address is <http://www.warwickri.gov/bids>.

**CITY OF WARWICK  
RFPS REQUESTED FOR**

**RFP2017-298 SAN & HP DL380 Gen9 Server**

Specifications are available in the Purchasing Division, Warwick City Hall, Monday through Friday, 8:30 AM until 4:30 PM on or after Thursday, April 6, 2017. Please note that our offices will be closing at noon on Friday, April 14, 2017.

Sealed proposals will be received by the Purchasing Division, Warwick City Hall, 3275 Post Road, Warwick, Rhode Island 02886 up until 11:00 AM, Monday, April 17, 2017. The proposals will be opened publicly commencing at 11:00 AM on the same day in the Lower Level Conference Room, Warwick City Hall.

Awards shall be made on the basis of the lowest evaluated or responsive proposal price. Please note that no proposals can be accepted via email or fax.

Individuals requesting interpreter services for the hearing impaired must notify the Purchasing Division at 401-738-2013 at least 48 hours in advance of the proposal opening date.

**Original Signature on File**

Patricia A. Peshka  
Purchasing Agent

**PLEASE SUBMIT THIS PAGE WITH YOUR PROPOSAL**

**Acknowledgement of Addendum (if applicable)**

<b>Addendum Number</b>	<b>Signature of Bidder</b>
_____	_____
_____	_____

COMPANY NAME: \_\_\_\_\_

COMPANY ADDRESS: \_\_\_\_\_

COMPANY ADDRESS: \_\_\_\_\_

BIDDER'S SIGNATURE: \_\_\_\_\_

BIDDER'S NAME (PRINT): \_\_\_\_\_

TITLE: \_\_\_\_\_ TEL. NO.: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_\*

\*Please include your email address. Future proposals will be emailed, unless otherwise noted.  
=====

**II. AWARD AND CONTRACT:**

The CITY OF WARWICK, acting as duly authorized through its Purchasing Agent/Finance Director/Mayor (delete if inapplicable), accepts the above bid and hereby enters into a contract with the above party to pay the bid price upon completion of the project or receipt of the goods unless another payment schedule is contained in the specifications. All terms of the specifications, both substantive and procedural, are made terms of this contract.

DATE: \_\_\_\_\_  
RFP2017-298

\_\_\_\_\_  
Purchasing Agent

**CERTIFICATION & WARRANT FORM\***

**This form must be completed and submitted with sealed bid.  
Failure to do so will result in automatic rejection.**

Any and all bids shall contain a certification and warrant that they comply with all relevant and pertinent statutes, laws, ordinances and regulations, in particular, but not limited to Chapter 16- Conflicts of Interest, of the Code of Ordinances of the City of Warwick. Any proven violation of this warranty and representation by a bidder at the time of the bid or during the course of the contract, included, but not limited to negligent acts, either directly or indirectly through agents and/or sub-contractors, shall render the bidder's contract terminated and the bidder shall be required to reimburse the City for any and all costs incurred by the City, including reasonable attorney fees, to prosecute and/or enforce this provision.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Address

\_\_\_\_\_  
Address

**\*This form cannot be altered in any way**

**CITY OF WARWICK  
NOTICE TO BIDDERS**

**RFP2017-298 SAN & HP DL380 Gen9 Server**

Specifications are available in the Purchasing Division, Warwick City Hall, Monday through Friday, 8:30 AM until 4:30 PM on or after Thursday, April 6, 2017. Please note that our offices will be closing at noon on Friday, April 14, 2017.

Sealed proposals will be received by the Purchasing Division, Warwick City Hall, 3275 Post Road, Warwick, Rhode Island 02886 up until 11:00 AM, Monday, April 17, 2017. The proposals will be opened publicly commencing at 11:00 AM on the same day in the Lower Level Conference Room, Warwick City Hall.

If you received this document from our homepage or from a source other than the City of Warwick Purchasing Division, please check with our office prior to submitting your proposal to ensure that you have a complete package. The Purchasing Division cannot be responsible to provide addenda if we do not have you on record as a plan holder.

Proposals received prior to the time of the opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a proposal not properly addressed and identified. No proposals shall be accepted via facsimile or email.

The opening of proposals shall be in the order established by the posted agenda and the agenda shall continue uninterrupted until completion.

Once an item has been reached and any proposals on that item has been opened, no other proposals on that item will be accepted and any such proposal shall be deemed late.

The contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap for any position for which the employee or applicant is qualified and that in the event of non-compliance the City may declare the contractor in breach and take any necessary legal recourse including termination or cancellation of the contract.

A bidder filing a proposal thereby certifies that no officer, agent, or employee of the City has a pecuniary interest in the proposal or has participated in contract negotiations on the part of the City, that the proposal is made in good faith without fraud, collusion, or connection of any kind with any other bidder for the same call for proposals, and that the bidder is competing solely in his own behalf without connection with, or obligation to, any undisclosed person or firm.

All proposals should be submitted with one (1) original and one (1) copy in a sealed envelope, which should read: *YOUR COMPANY NAME* plainly marked on the exterior of the envelope as well as "RFP2017-298 SAN & HP DL380 Gen9 Server."

Should you have any questions, please contact Carlos Zambrano, MIS Administrator, 3275 Post Rd. Annex, Warwick, RI, at 401-738-2017.

All proposals should be written in ink or typed. If there is a correction with whiteout, the bidder must initial the change.

Negligence on the part of the bidder in preparing the proposal confers no rights for the withdrawal of the proposal after it is open.

Any deviation from the specifications must be noted in writing and attached as part of the bid proposal. The bidder shall indicate the item or part with the deviation and indicate how the proposal will deviate from specifications.

The IRS Form W-9 available on [www.warwickri.gov](http://www.warwickri.gov) should be completed and submitted with the proposal if the bidder falls under IRS requirements to file this form.

Prices to be held firm five years from date of award. Term contracts may be extended for one additional term upon mutual agreement unless otherwise stated.

The successful bidder must provide the City of Warwick with an original certificate of insurance for general liability and professional liability in a minimum amount of \$1 million. The certificate of insurance must name the **City of Warwick as the additional insured** and so stated on the certificate with the bid name and bid number. It is the vendor's responsibility to provide the City of Warwick with an updated certificate of insurance upon expiration of the original certificate.

When a bid is awarded to a corporation, limited liability company or other legal entity, prior to commencing work under the awarded bid, that corporation, company or legal entity may be required to provide to the Purchasing Agent a Certificate of Good Standing dated no more than thirty (30) days prior to the date upon which the bid award was made.

The successful bidder will provide said Certificate of Insurance and Certificate of Good Standing (if required) within ten (10) calendar days after notification of award or the City reserves the right to rescind said award.

The successful bidder must carry sufficient liability insurance and agree to indemnify the city against all claims of any nature, which might arise as a result of his operations or conduct of work.

The City is exempt from the payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph I, as amended.

The Purchasing Agent reserves the right to reject any and all proposals, to waive any minor deviations or informalities in the proposals received, and to accept the proposal deemed most favorable to the interest of the City.

The successful bidder must comply with all Rhode Island Laws applicable the public works projects, including, but not limited to provisions of Chapter 13 of Title 37 of the Rhode Island General Laws, pertaining to prevailing wage rates, and all other applicable local, state and federal laws.

The City reserves the right to terminate the contract or any part of the contract in the best interests of the City, upon 30-day notice to the contractor. The City shall incur no liability for materials or services not yet ordered if it terminates in the best interests of the City. If the City terminates in the interests of the City after an order for materials or services have been placed, the contractor shall be entitled to compensation upon submission of invoices and proper proof of claim, in that proportion which its services and products were satisfactorily rendered or provided, as well as expenses necessarily incurred in the performance of work up to time of termination.

No extra charges for delivery, handling or other services will be honored. All claims for damage in transit shall be the responsibility of the successful bidder. Deliveries must be made during normal working hours unless otherwise agreed upon.

All costs directly or indirectly related to the preparation of a response to this solicitation, or any presentation or communication to supplement and/or clarify any response to this solicitation which may be required or requested by the City of Warwick shall be the sole responsibility of and shall be borne by the respondent.

If the respondent is awarded a contract in accordance with this solicitation and the respondents proposal or response and if the respondent fails or refuses to satisfy fully all of the respondents obligations thereunder, the City of Warwick shall be entitled to recover from the respondent any losses, damages or costs incurred by the City as a result of such failure or refusal.

The City reserves the right to award in part or full and to increase or decrease quantities in the best interest of the City.

Any quantity reference in the proposal specifications are estimates only, and do not represent a commitment on the part of the City of Warwick to any level of billing activity. It is understood and agreed that the agreement shall cover the actual quantities ordered during the contract period.

The City reserves the right to rescind award for non-compliance to proposal specifications.

The successful bidder must adhere to all City, State and Federal Laws, where applicable.

## SCOPE OF SERVICES

The City of Warwick, also known as “The City”, is looking for a vendor or manufacturer to provide the City with a complete and operational Storage Area Network (SAN). The City is also looking for a HP DL 380 Gen 9 server within this proposal, the specs of the server are listed after the SAN portion of the SAN Scope of Services. The vendor or manufacturer shall certify that they are certified in the equipment they are proposing as of the date of the submission of their response to this RFP. The vendor shall have the certification/specialization level required by Manufacturer to support both the product sale and product pricing. The vendor shall source products directly from the Manufacturer or through authorized distribution channels only to assure full Manufacturer Warranty/Service support for the product in question.

The proposed solution shall include all hardware, software, licenses and other ancillary equipment and devices as required for a complete and operational SAN as indicated in this RFP.

### 1. Design

- a. Standard rack mount solution.
- b. System is not a backup solution and is intended to be the primary storage system used by host servers.
- c. A minimum of 30TB of usable storage per device.
  - i. Define the total disk space of your proposed solution.
  - ii. Define the disk size, rotational speed, access times, and quantity of each type of drives used, their capacity, and MTBF.
    1. Explain your proposed solution’s use of Flash and SSDs.
  - iii. Describe your solution’s use of controllers.
  - iv. Define the total number of IOPS for the proposed solution.
  - v. Describe the number of spare drives included in your solution and how they can be brought online in the event of a drive failure.
  - vi. Detail the RAID levels or other technology that your proposed solution uses.
- d. Describe anything that pertains to the physical characteristics of your solution not included above that differentiates it from that of others.

### 2. Operation

- a. Manager can set limitations of number of hosts that can utilize the storage system, number LUNs that can be assigned to a single host, or number of hosts that can connect to a single LUN much be disclosed.
- b. Mirrored copies of LUNs, or replicated copies of LUNs can be added to the system dynamically without interruption of service to the LUN's host, allowing a non-mirrored LUN to be mirrored transparently to the host.
- c. Ability to extend the size of an existing assigned LUN while the connected host is running without affecting the availability of the LUN.
- d. Supports storage optimization technologies, such as block-level or file-level.
- e. System must allow for duplication of existing LUNs to separate copies that can then be allocated to another host, commonly called snapshots.
  - i. Describe your solution’s ability to take snapshots.

- ii. Detail your solution's ability to point to and recover a snapshot.
    - iii. Describe anything that pertains to snapshots not included above that differentiates your solution from that of others.
  - f. System must stay on-line and fully functional while storage system updates are performed, as well as when storage capacity is scaled.
  - g. Ability to add additional disks to the system to increase storage capacity while the system is in operation without affecting the availability of the system, and the new disks can be incorporated with the existing storage pools seamlessly.
    - i. Explain how non-disruptive maintenance is achieved.
    - ii. Explain how your solution addresses the addition of disks, shelves, and controllers.
  - h. Describe anything that pertains to the operation of the device not included above that differentiates your solution from that of others.
- 3. Redundancy
  - a. Redundant hardware, such as power supplies, fans, disks, and cache batteries, hard drives etc. can fail and be individually replaced without causing an interruption in service or downtime to the system as a whole.
    - i. Describe all redundant features of your proposed solution. Include a description of the elimination of all single points of failure.
    - ii. Describe the solution's ability to recover from hardware failures of various components in your solution.
- 4. Replication and Failover
  - a. Active/Active configuration
    - i. System operates in an "active/active" configuration in that failed units, whether LUNs or hardware components are up-to-date and failover to the redundant unit is instantaneous enough to not affect the connected hosts under most foreseeable circumstances. Indicate any limitations of the proposed system.
    - ii. Replication and mirror happens at the storage system level, meaning the data on a given redundant LUN is replicated or mirrored without any host interaction.
  - b. Agentless operation for the replication and failover of LUNs and hardware devices.
  - c. Support for graceful "failback" after an error event, meaning, after the failed unit or LUN comes back online, it is automatically brought current again and is incorporated back into the redundant system.
  - d. Describe the manner of replication used in your proposed solution.
  - e. Describe the process of failing over to the Secondary Site in the event of an outage at the Primary Site.
  - f. Describe the process of failing back to the Primary Site after the Primary Site is again available.
  - g. Describe anything that pertains to replication not included above that differentiates your solution from that of others.
- 5. Management and Monitoring
  - a. Management interface is web-based. If not web-based, and software required for monitoring or management of the system, must be able to run on HP ProLiant G8 and new generation models and on a vSphere virtual machine, either of which would be running Windows Server 2008 R2, Windows Servers 2012 R2.
  - b. Support for email and SNMP notifications of key system events.



- c. Mobile Device Support for notifications, alarms, alerts, configuration, monitoring of systems.
  - d. Functionality to monitor the logical and physical storage units, replication of data, and I/O utilization.
    - i. Reporting includes trending reports as well as real-time statistics. Interfaces provided must include an intuitive, "user friendly" GUI displaying statistics in either graph or tabular form.
    - ii. Exporting of statistics to CSV, PDF or other common format, and monitoring of performance counters using SNMP version 2c or version 3.
  - e. Explain the reporting features of your proposed solution. Include sample reports about usage, capacity, errors, and logs.
  - f. Describe anything that pertains to management or any other key features not included above that differentiates your solution from that of others.
6. Connectivity and Compatibility
- a. Support VMware vSphere 5.x and newer or higher, VMware vSphere Enterprise and newer versions, Windows Server 2008, and Windows Server 2008 R2, Windows Server 2012 R2 as well as future releases from both VMware and Microsoft.
  - b. Hardware, Firmware, Software support: Host hardware, OS version, HBA, driver versions, and firmware version provided must be supported. If hardware or software in current environment is not supported, manufacture must indicate as such and provide a solution.
  - c. Support SAN protocols such as Fiber Channel, iSCSI, CIFS, NFS etc.
  - d. Detail all connectivity options including 10Gb Ethernet redundancy and aggregation methods. The SAN will be connected to a Cisco 4510R+E, which it has at least 2 10Gb SFP outlets. The solution must include the fiber to connect the SAN to the Cisco 4510R+E, which is 25 Feet away.
  - e. Describe anything that pertains to connectivity not included above that differentiates your solution from that of others.
  - f. The SAN recommendation has to be able to connect to two APC SRT8KRMXLT, your recommendation must include the power cables to connect to the APC SRT8KRMXLT.
7. Minimum Requirements
- a. The SAN has to have at least 2-port 10GB SCSI/FCOE adaptors.
  - b. All SAS drive has to be at least 10K rpm.
  - c. At least 120,000 IOPS.
  - d. Have a secondary field integrated SAS drive enclosure for future storage expansion with all connectors.
  - e. Ability to add more SSD for future performance.
  - f. Has to have Defective Media Retention Service as part of their warranty services for all hard drives. If you do not currently provide this service, we need a guarantee from the manufacturer that the city could keep the defective drives and we will not incur extra cost for spare replacement for failed hard drives.
  - g. All network connections has to be 10 GB iSCSI/FCoE and all connections must be included in your response to include the proper power connections listed under the "Connectivity and Compatibility" section.
  - h. Please provide list price, discounted price and the discounted percent that city will receive.
  - i. Able to provide the same discount percent for the life of the lease, for future purchase of hard drives and any extra hardware if the city needs to expand its storage capabilities.

## 8. Support

- a. Support during business hours
  - i. Proposer must be able to provide telephone and or onsite support during normal business hours, 6am to 6pm EST, Monday through Friday.
  - ii. Ability to open trouble tickets or make service requests online.
- b. After hours support
  - i. Proposer must be able to provide support outside the normal business hours for planned and unplanned system events.
- c. Ideally the City would like to contract for a 5-year support agreement.
- d. Detail the SLA (Service Level Agreement) included in your proposed solution. Include the time for replacement parts to arrive and be installed.
- e. Define your level of support detailing items covered and the process for contacting support.
- f. Describe anything that pertains to support not included above that differentiates your solution from that of others.

## 9. Warranty

- a. Explain the levels of the warranty proposed. Include software and hardware that is covered.
- b. Explain which updates and upgrades are included, how notifications about updates are made, and the process of applying updates to your proposed solution.
- c. Detail your proposed solution's hardware warranty.
- d. Describe anything that pertains to Warranty/Maintenance not included above that differentiates your solution from that of others.

## 10. Deployment

- a. Proposer will provide technical and functional support during the implementation cycle through Final Acceptance and productive use of all system modules. This will include an on-site technician certified by the manufacturer to assist during Acceptance Testing and/or on-call technical support.
- b. Vendor will provide on-site services necessary to gather information related to setting up the new SAN system.
- c. Vendor will finalize the project timeline and implementation schedule.
- d. Proposer installs all the new hardware into the City's existing rack system including all power connections, network connections and Ethernet configuration assistance from City staff.
- e. Vendor will provide support and technicians for the migration of data from current local data store to the new SAN system as well as assist with repointing host to the new SAN migrated data.
- f. Diagrams, in Microsoft Visio version 2010 or 2013 format, of the proposed solution including connectivity diagrams must be included, as well as "as built" showing the final connection layout of the system including connection points and any addressing that was done provided in digital format.
- g. All "other" related documentation pertaining to hardware, software, licensing and configurations etc. will be turned over to the City.

## 11. Training

- a. On Site technician training on the use of the system, including maintenance procedures, storage provisioning, host configuration requirements, health monitoring, performance monitoring and or industry "best practices".

- i. Include the training required for a minimum three persons to manage, maintain, and upgrade the proposed storage system.

**HP DL380 Gen 9 Server Specs**

Product Number	Description	Quantity	List Price	Discounted Price
	HPE DL380 Gen9 8SFF CTO Server	1		
	HP DL380 Gen9 E5-2620v3 FIO Kit	1		
	HP DL380 Gen9 E5-2620v3 Kit	1		
	HP 16GB 2Rx4 PC4-2133P-R Kit	16		
	HP 146GB 6G SAS 15K 2.5in SC ENT HDD	2		
	HP DL380 Gen9 Secondary Riser	1		
	HP Smart Array P440ar/2G FIO Controller	1		
	HPE Ethernet 1Gb 4-port 331T Adapter	2		
	HP Ethernet 10Gb 2P 530SFP+ Adptr	2		
	HP 2U SFF Easy Install Rail Kit	1		
	HPE 500W FS Plat Ht Plg Pwr Supply Kit	2		
	HPE OV for DL 3y 24x7 FIO Phys 1 Svr Lic	1		
	HPE 5Y Proactive Care 24x7 w\defective media retention services	1		
	HPE One View w/Ilo Support	1		
	HPE ProLiant DL380 Gen9 Support	1		

**Please list any additional fees (if applicable)**

	\$ _____
	\$ _____
	\$ _____
	\$ _____

**CITY OF WARWICK**

**PROPOSAL AND CONTRACT FORM**

**TITLE OF SPECIFICATION:** RFP2017-298 SAN & HP DL380 Gen9 Server

**I. PROPOSAL:**

WHEREAS, the CITY OF WARWICK has duly asked for proposals for performance of services and/or supply of goods in accordance with the above-indicated specifications.

The person or entity below does irrevocably offer to perform the services and/or furnish the goods in accordance with the specifications, which are hereby incorporated by reference in exchange for the proposal price below;

This offer shall remain open and irrevocable until the CITY OF WARWICK has accepted this proposal or another proposal on the specifications or abandoned the project.

The bidder agrees that acceptance below by the CITY OF WARWICK shall transform the proposal into a contract. This proposal and contract shall be secured by Bonds, if required by the specifications.

**Pricing as Submitted**