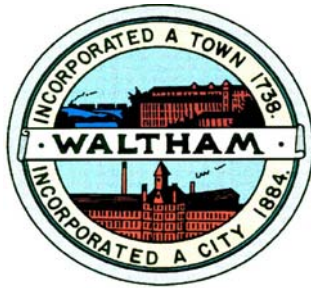


The City of Waltham



*Invites
Interested Parties
To propose the best offer and or bid
For the service or product herewith described:*

Storage Attached Network (SAN)

The bid opening will be held: Thursday August 30, 2012 at 1:00 pm

Phone: 781-314-3244, Fax: 781-314-3245

Invitation to Bid

The City of Waltham

Purchasing Department

REQUEST FOR BID (RFB)

Under the rules of M.G.L. Chapter 30B, the Chief Procurement Officer of the City of Waltham Purchasing Department hereby requests sealed bids for:

Storage Attached Network (SAN)

Price Proposals will be received at the office of the Purchasing Agent, City Hall, 610 Main Street, Waltham MA 02452, until,

Thursday August 30, 2012 at 1:00 pm

At which time and place the bids will be publicly opened and read.

Specifications and information available on line by visiting the Waltham Purchasing Department web site at www.city.waltham.ma.us/open-bids

BIDS MUST BE SIGNED AND ENCLOSED IN A SEALED ENVELOPE AND MARKED:

BID FOR: SAN

A 5% Bid Bond or Certified Check must accompany each bid submitted and made payable to, and become the property of the City of Waltham, if the successful bidder refuses or neglects to comply with the terms of the Contract.

If the Bidder is a corporation, state your correct corporate name and State of incorporation. If Bidder is a partnership, state names and addresses of partners. If Bidder is a trust or other legal entity, state correct names and addresses of trustees or names and address of those legally authorized to bid and enter into contracts.

EXCEPTION OR ALTERNATES TO SPECIFICATIONS, TERMS OF SALE, AND DISCOUNTS AVAILABLE, MUST BE INCLUDED IN THE BID PRIOR TO OPENING DATE.

Intent of Project

The Purchasing Department of the City of Waltham wishes to purchase, on behalf of the School Department a Unified Storage System to support 30 Physical Hard Drive, 21 populated expandable to 150 with SSD support WITH NO INSTALLATION

AGREEMENT

CITY OF WALTHAM

ARTICLE 1. This agreement, made this _____ day of _____, 2012 by and between the CITY OF WALTHAM, party of the first part, hereinafter called the CITY, by its MAYOR, and

hereinafter called the CONTRACTOR.

ARTICLE 2. Witnesseth, that the parties to this agreement, each in consideration of the agreement on the part of the others herein contained, do hereby agree, the CITY OF WALTHAM for itself, and said contractor for his heirs, executors, administrators and assigns as follows:

To furnish all equipment, machinery, tools and labor, to furnish and deliver all materials required to be furnished (except as otherwise specified) and deliver in and about the project and to do and perform all work in strict conformity with the provisions of this Contract and of the Notice to Bidders, bid, Project Manual, and Drawings hereto annexed. The said Notice to Bidders, bid, Project Manual, and Drawings are hereby made a part of this contract as fully and to the same effect as if the same had been set forth at length and incorporated in the contracts.

ARTICLE 3. In consideration of the foregoing premises the CITY agrees to pay and the CONTRACTOR agrees to receive as full compensation for everything furnished and done by the CONTRACTOR under this contract, including all work required by not included in the items herein mentioned, and also for all loss or damage arising out of the nature of the work aforesaid, or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work specified, and for well and faithfully completing the work, and the whole thereof, as herein provided, such prices as are set forth in the accompanying bid.

This Agreement entered into as of the day and year first written above.

CITY OF WALTHAM, MASSACHUSETTS

FOR THE CITY

Jeannette A. McCarthy, MAYOR,
City of Waltham
Date: _____

John B. Cervone, City Solicitor
Date: _____

APPROVED AS TO FORM ONLY

Susan Nicholson, School Superintendent
Date: _____

Joseph Pedulla, Purchasing Agent
Date: _____

Paul Centofanti, Auditor
Date: _____

I CERTIFY THAT SUFFICIENT FUNDS
ARE AVAILABLE FOR THIS CONTRACT

FOR THE COMPANY

CONTRACTOR (Signature),
Date: _____

Company

Address

Instructions

INSTRUCTIONS FOR BIDDERS

1. **READ ALL DOCUMENTS.**

Bidders should familiarize themselves with all the documents contained herein; it is mandatory that all Bids be in compliance with all the provisions contained in said documents.

2. **FORMS AND ATTACHMENTS.**

Bids are to be completed on the forms provided ONLY and enclosed in a sealed envelope marked on the outside "BID (title)" and the name and address of bidder. Attachments submitted in addition to the Waltham Purchasing Department produced forms may not be considered.

3. **PRINTED OR TYPED RESPONSE.**

All information must be typewritten or printed in ink, including the price the bidder offers in the space as provided on the bid form.

4. **CORRECTIONS.**

Bids that are submitted containing cross outs, white outs or erasures, will be rejected.

All corrections or modifications to the original bid are to be submitted in a separate envelope, properly marked on the outside, "CORRECTION/ MODIFICATION TO BID (title)" and submitted prior to the bid opening.

ALL DOCUMENTS SUBMITTED WITH YOUR RESPONSE WILL BE INCORPORATED INTO THE CONTRACT.

5. **PRICE IS ALL INCLUSIVE.**

Bid prices shall encompass everything necessary for furnishing all items, materials, supplies or services as specified, and in accordance with the specifications, including proper packing, cost of delivery, and in the case of services, completion of same, as per specifications.

6. **PRICE DISCREPANCY.**

In the event of a discrepancy between the Unit Price and the Extension, the Unit Price shall prevail.

7. EXPLANATIONS, EXCEPTIONS

Explanations, exceptions or other information pertinent to the specifications may be made in writing and included in the same envelope with the bid.

8. BID DEPOSITS.

Bid deposits are to be made payable to the City of Waltham. In the event that the successful bidder fails to execute a Contract within (10) days of the receipt of said contract, such security shall be retained by the city as liquidated damages. Unsuccessful bidders' deposits will be returned immediately following the award to said successful bidder.

9. WITHDRAW.

A Bid may be withdrawn by written request prior to the schedule for the Bid Opening. No withdrawals are permitted after the bid opening date and time. Withdrawals after the bid opening date will cause the forfeit of the bid Deposit.

10. AWARD.

Bids will be awarded not later than (90) ninety days after the scheduled bid opening date, unless otherwise stated, in the specifications. Unless otherwise specified, bids will be evaluated on the basis of, completeness of your RFP response, responsiveness, responsibility, best price and experience.

11. AWARD CRITERIA.

Qualified and responsive proposals will be evaluated based on Price, Technical, and Compliance requirements:

12. DISCOUNTS.

Discounts for prompt payments will be considered when making awards.

13. TAX EXEMPT.

Purchases by the City of Waltham is exempt from any Federal, State or Massachusetts Municipal Sales and/or Excise Taxes.

14. SAMPLES.

The City of Waltham may require the submission of samples either before or after the awarding of a contract. Samples are to be submitted, at no charge to the City, so as to ascertain the product's suitability. If specifically stated in the Bid that samples are required, said samples must be submitted with the Bid prior to the Official Bid Opening. Failure to submit said samples would be cause for rejection of Bid. All samples must be

called for and picked up within (30) thirty days of award or said samples will be presumed abandoned and will be disposed of.

15. **ACTIVE VENDOR LIST.**

Vendors who wish to remain on the Active Bid List must either submit a Bid, No Bid, or a letter requesting same, no later than the Official Bid Opening. This is applicable to those vendors who have received the Invitation to Bid.

16. **FUNDS APPROPRIATION.**

THE CONTRACT OBLIGATION ON BEHALF OF THE CITY IS SUBJECT TO PRIOR APPROPRIATION OF MONIES FROM THE GOVERNMENTAL BODY AND AUTHORIZATION BY THE MAYOR.

17. **THE AWARDING AUTHORITY RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS, OR ANY PART OF ANY BID, WHICH IN THE OPINION OF THE AWARDING AUTHORITY, IS IN THE BEST INTERESTS OF THE CITY OF WALTHAM.**

18. **THE TAX ATTESTATION CLAUSE, CERTIFICATION OF NON-COLLUSION AND THE CERTIFICATE OF VOTE AUTHORIZATION,** are required by statute and are an integral part of the Invitation for Bid and must be completed and signed by the person submitting the Bid, or by the person/persons who are officially authorized to do so. Failure to do so may disqualify the bid.

19. **STANDARD OF QUALITY.**

Where, in the specifications, one certain kind, type, catalog number, brand or manufacturer of material is named, it shall be regarded as the required standard of quality. Where two or more are named, these are presumed to be equal and the Bidder may select one or the other. If the Bidder proposes to offer a substitute as an equal, he shall so indicate on the Bid Form, the kind, type, catalog number, brand, or manufacturer of material that is offered as an equal, and describe where it differs from the specifications. Substituted items must be capable of performing all the functions and/or operational features described or indicated in the specifications. Failure to indicate the description of any substitute item on the Bid will be interpreted to mean that the Bidder will furnish the item or service as specified.

20. MODIFICATION.

No agreement, understanding, alteration or variation of the agreement, terms or provisions herein contained shall bind the parties, hereto unless made and executed in writing by the parties hereto.

21. ASSIGNMENT.

The final payment for work done under this Contract shall be made only after the Contractor has signed a statement under the penalty of perjury, certifying that he has completed the work described in the final estimate. Neither party hereto shall assign this Contract or sublet it in part or as a whole without the prior written consent of the other party hereto. The Contractor shall not assign any sum or sums due or becoming due to him hereunder without the prior written consent of the City.

22. DELIVERIES:

a) The Contractor shall pay all freight and delivery charges. The Waltham Purchasing Department does not pay for shipping and packaging expenses. Items must be delivered as stipulated in the specifications. All deliveries must be made to the inside of city buildings. Sidewalk deliveries will not be accepted. City personnel are not required to assist in the deliveries and contractors are cautioned to notify their shippers that adequate assistance must be provided at the point of delivery, when necessary.

b) All items of furniture must be delivered inside the building, set up, in place and ready for use. Deliveries are to be made between the hours of 8:30 a.m. and 3:00 p.m., Monday through Friday, except on holidays.

c) All damaged items, or items which do not comply with specifications will not be accepted and title therefore will not vest to the Waltham Purchasing Department until such items are accepted and signed for, in good order, by the receiving department.

d) The contractor must replace, without further cost to the Waltham Purchasing Department, such damaged or non-complying items before payment will be made.

23. LABELING.

All packages cartons or other containers must be clearly marked with (a) building and room destination; (b) description of contents of item number from specifications; (c) quantity; (d) City of Waltham Purchase Order Number and (e) Vendor's name and order number.

24. GUARANTEES.

Unless otherwise stipulated in the specifications, furniture, equipment and similar durable items shall be guaranteed by the contractor for a period of not less than one year from the date of delivery and acceptance by the receiving department. In addition, the manufacturer's guarantee shall be furnished. Any items provided under this contract which are or become defective during the guarantee period shall be replaced the contractor free of charge with the specific understanding that all replacements shall carry the same guarantee as the original equipment. The contractor shall make such replacement immediately upon receiving notice from the Purchasing Agent.

25. SINGLE VENDOR.

The Waltham Purchasing Department desires to award a single contract based on the Grand Total Price. However, where applicable, the City reserves the right to make multiple awards on a unit price basis if, in the opinion of the Waltham Purchasing Department, it is in the best interest of the Waltham Purchasing Department.

26. CHANGE ORDERS.

Change orders are not effective until, if, as and when signed by the Mayor and no work is to commence until the change orders are fully executed.

28. BID OPENING INCLEMENT WEATHER

If, at the time of the originally scheduled bid opening, City Hall is closed to inclement weather or another unforeseeable event, the bid opening will be extended until 2:00 PM on the next normal business day. Bids will be accepted until that date and time.

GENERAL CONDITIONS

GENERAL CONDITIONS

1. INFORMATION

All information shall come from the Office of the City Purchasing Agent. The Contractor shall inquire at this office for any information needed. Wherever the words "or equal as approved" are used, it is to be understood that the opinion of the City Purchasing Agent shall govern.

2. SUITS

The Contractor shall assume defense of and shall indemnify and hold the City and its agents harmless from all suits and claims against the City and its sub-contractors arising from the use of any invention, patent right labor or employment, or from any act of omission or neglect of the City, its agents, employees or any subcontractor in performing the work, under this contract.

3. LAWS AND REGULATIONS

The Contractor shall conform to all the applicable rules, regulations, laws and ordinances of the City of Waltham, the Commonwealth of Massachusetts, the United States of America and all agencies having jurisdiction over this contract.

4. PROTECTION OF PROPERTY

The Contractor shall take all proper precautions to protect the City's property from damage and unnecessary inconvenience. Any City property damaged by the Contractor in carrying out the provisions of this contract shall be restored to its original condition, by and at the expense of the Contractor.

5. PROTECTION OF PERSONS

The Contractor shall take all proper precautions to protect persons from injury, unnecessary inconvenience, and shall be responsible for his failure to do so. The Contractor agrees to hold the City harmless from any and all liabilities of every nature and description, which may be suffered through bodily injury, including death, to any person, by reason of negligence of the Contractor, his agents or employees, or any subcontractor.

6. CONTRACT DURATION.

This contract is for the period required to complete the project.

7. INSURANCE

A. **WORKMAN'S COMPENSATION:** The Contractor shall provide by insurance for the payment of compensation and furnishing of other benefits under Chapter 152 of

the General Laws of the Commonwealth of Massachusetts to all persons to be employed under this contract, the premiums for which shall be paid by the Contractor.

B. COMPREHENSIVE GENERAL LIABILITY

Bodily Injury: \$1,000,000 Each Occurrence
 \$2,000,000 Aggregate
Property Damage: \$1,000,000 Each Occurrence
 \$2,000,000 Aggregate

C. AUTOMOBILE (VEHICLE) LIABILITY

Bodily Injury \$2,000,000 Each Occurrence
Property Damage \$1,000,000 Aggregate

D. UMBRELLA POLICY

General liability \$1,000,000

Your bid response must include a Certificate of Insurance with the above limits as a minimum. In addition, the Certificate of Insurance must have the following text contained in the bottom left box of the Certificate: **"The City of Waltham is a named Additional Insured for all Insurance"**. The Certificate of Insurance must be mailed directly to:

Office of the Purchasing Agent
Purchasing Department
City of Waltham
610 Main Street
Waltham, MA 02452

A LETTER FROM A SURETY COMPANY CERTIFYING THAT THE CONTRACTOR IS QUALIFIED AND CAPABLE OF OBTAINING THE ABOVE BONDS MUST BE INCLUDED WITH HIS/HERS BID.

8. PERSONNEL:

The Contractor shall employ a competent supervisor and all properly licensed personnel necessary to perform the services required in this contract. The City Purchasing Agent shall have the right to require the Contractor to remove and/or replace any of the personnel for nonperformance or for unprofessional behavior. The City Purchasing Agent may require the Contractor to submit a weekly performance record of the areas and of the work performed, on forms approved by the City Purchasing Agent. The Contractor or his supervisor shall be available to **inspect such work as required by the City Purchasing Agent.**

9. **MATERIALS**

The City or its Agent reserves the right to approve or reject any supplies, material or equipment used by the Contractor. The Contractor agrees to replace any supplies, material or equipment used by the Contractor. The Contractor agrees to replace any rejected supplies, materials or equipment, to the satisfaction of the City or its Agents.

10. **TERMINATION OF CONTRACT**

This contract may be terminated by the City upon deliverance to the Contractor of a five-day written notice of said termination.

11. **CONTRACT OBLIGATIONS**

Contract obligations on behalf of the City are subject to an annual appropriation to cover the contract obligation.

12. **BIDDER EXPERIENCE EVALUATION**

Each bidder shall submit with his bid, all the information relative to their experience and qualifications in performing the work required under this contract and shall have been in business for a minimum of five (5) years, in order for their bid to be considered.

15. **NOT-TO-EXCEED AMOUNT**

The bid amount proposed in your company's response is a "not-to- Exceed" amount unless the City makes changes, in writing, to the scope of work to be performed. The Change Order must be signed and approved by the City's Purchasing Agent, City Auditor, Law Department and the Mayor prior to the commencement of the change order work. No work is to begin until the proper approvals have been obtained. A change order will be priced at the unit price. Failure to comply with this procedure will result in the cancellation of the contract and the non-payment of services provided.

16. **FINANCIAL STATEMENTS.**

The City may require, within five (5) days after the bid opening, a complete and detailed Financial Statement prepared by a Certified Public Account, to determine a bidder's financial stability.

17. **BREACH OF CONTRACT/ NON PERFORMANCE**

If the Contractor shall provide services in a manner, which is not to the satisfaction of the City, the City may request that the Contractor refurnish services at no additional cost to

the City until approved by the City. If the Contractor shall fail to provide services, which are satisfactory to the City, the City in the alternative may make any reasonable purchase or Contract to purchase services in substitution for those due from the Contractor. The City may deduct the cost of any substitute Contract for nonperformance of services together with incidental and consequential damages from the Contract price and shall withhold such damages from sums due or to become due to the Contractor. If the damages sustained by the City exceed sums due or to become due, the Contractor shall pay the difference to the City upon demand. The Contractor shall not be liable for any damages sustained by the City due to the Contractor's failure to furnish services under the terms of this Contract if such failure is in fact caused by the occurrence of a contingency the nonoccurrence of which was a basic assumption under which this Contract was made, including a state of war, embargoes, expropriation of labor strike or any unanticipated federal, state or municipal governmental regulation of order, provided that the Contractor has notified the City in writing of such cause within seven (7) days after its occurrence.

18 RIGHT TO AUDIT

The City of Waltham has the right to review and audit documents related to this contract. This right extends to any subcontractor, supplier or other entity used by the prime contractor to fulfill the obligations under this contract.

19. CITY ORDINANCE. APPROVAL OF CONTRACTS BY MAYOR, SEC. 3-12 OF THE CITY ORDINANCES.

All contract made by any department, board or commission where the amount involved is two thousand dollars (\$2,000) or more shall be in writing, and no such contract shall be deemed to have been made or executed until the approval of the Mayor is affixed thereto. Any construction contract shall, and all other contracts may, where the contract exceed five thousand dollars (\$5,000) be required to be accompanied by a bond with sureties satisfactory to the Mayor.

NOTE

Failure to submit any of the required documents, in this or in other sections, with your bid response package may cause the disqualification of your proposal

Specifications

**Unified Storage System to support 30 Physical Hard Drive,
21 populated expandable to 150 with SSD support WITH NO INSTALLATION**

Acceptable Manufacturer: EMC, Dell, HP

See other requirements in **PART 2:**

PART 1:

This section specifies how the unit should be configured for delivery.

Hardware Configuration:

- a) Two (2) active/active controllers with 4x 1 GB Port each for a total of 8x 1GB Port (2x 4 Port Embedded)
- b) Two (2) 15x 3.5" Hard Drive Bay Enclosure

Enclosure #1 1) should be configured with 15x 600GB 3.5" 15K SAS Drives for a total raw capacity of 9 Terabytes.

Enclosure #2 1) should be configured with 6x 2TB 3.5" 7200rpm SAS Drives for a total raw capacity of 12 Terabytes, leaving 3 empty hard drive bays in enclosure #2.

- c) 2x Power NEMA Power Cable
- d) Configurable in Raid 10/5/6 and VMWare Certified.

Software and applications:

- a) Centralized web based interface platform management console and monitoring.
- b) File-based Deduplication with Compression
- c) iSCSI, CIFS, NFS, Thin provisioning for logical sizing
- d) Snapshot protections

Warranty:

- a) 3 Year Premium Software Support 24x7x4
Also includes update for software and applications
- b) 3 Year Premium Hardware Support 24x7x4
Uplift Factory base warranty

PART 2:

Specifications and requirements:

This section specifies only the capability and features the solution should have for future expansion.

Part 1: Specifies how the unit should be configured for delivery (see above.)

ARCHITECTURE

Able to provide multi-protocol IP connectivity for concurrent NAS and iSCSI SANs. Equipped with two Active/Active controllers for load balancing.

PHYSICAL SPECIFICATIONS

Min/Max Drives: 6 to 150

Drive Enclosure Options 15x3.5" Flash/SAS/NL SAS drives (3U)

CPU/Memory per Controller 1 x Xeon Quad Core/ 12 GB

4 x 1 GB/s IP Ports per Controller

2 x Flex IO Modules per Controller

Raid Options 10/5/6

Management Ports: 2 x 10/100/1000 GbE

SYSTEM LIMITS AND SUPPORT

Supported LUNs Up to 512

Maximum LUN Size 2 TB

Maximum File System Size 16 TB

Total Raw Capacity 450TB

Maximum File Systems 512

CONNECTIVITY

Ethernet support for additional NAS and iSCSI host connectivity.

Copper 10/100/1G BaseT Ethernet Modul NAS/iSCSI, 4 ports per module

Optical 10 Gb/s EthernetModule NAS/iSCSI, 2 ports per module

Copper 10GBaseT EthernetModule NAS/iSCSI, 2 ports per module

MAXIMUM CABLE LENGTHS

SAS Cable Length (enclosure to enclosure): 6 meters

BACK-END (DISK) CONNECTIVITY

Each storage processor includes one 6 Gb/s x 4 Serial Attached SCSI (SAS) port providing connection to additional disk drive expansion enclosures.

SUPPORTED DISK EXPANSION ENCLOSURES (DAES)

Drive Enclosure Options 3.5" SAS, NL-SAS, Flash(3U)

Drive Quantity 15

Controller Interface 6 Gb SAS

SUPPORTED DISK DRIVES

100 GB

Interface 6 Gb/s SAS

Capacity (RPM) 100 GB (Flash)

Formatted Capacity* 93.1 GB

FormFactor 3.5"

Height 1.0"

Data Buffer N/A SSD

Buffer to/from Media 260 MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek 260 ms (Read) 235 ms (Write)

Rotation Latency N/A

200 GB

Interface 6 Gb/s SAS

Capacity (RPM) 100 GB (Flash)

Formatted Capacity* 186.3GB

FormFactor 3.5"

Height 1.0"

Data Buffer N/A SSD

Buffer to/from Media 260 MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek N/A

Rotation Latency N/A

300 GB

Interface 6 Gb/s SAS

Capacity (RPM) 300 GB (15,000)

Formatted Capacity* 272.59GB

FormFactor 3.5"

Height 1.0"

Data Buffer 16 MB

Buffer to/from Media 97 MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek 3.5 ms (Read) 4.0 ms (Write)

Rotation Latency 2.0 ms

600 GB

Interface 6 Gb/s SAS

Capacity (RPM) 600 GB (10,000)

Formatted Capacity* 545.19GB

FormFactor 3.5"

Height 1.0"

Data Buffer 16 MB

Buffer to/from Media 150 MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek 3.4 ms (Read) 3.9 ms (Write)

Rotation Latency 2.0 ms

900 GB

Interface 6 Gb/s SAS

Capacity (RPM) 900 GB (10,000)

Formatted Capacity* 833.4 GB

FormFactor 3.5"

Height 1.0"

Data Buffer 16 MB

Buffer to/from Media 93MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek 3.6ms (Read) 4.2ms (Write)

Rotation Latency 3.0 ms

1 TB NL

Interface 6 Gb/s SAS

Capacity (RPM) 1 TB (7,200)

Formatted Capacity* 931.5 GB

FormFactor 3.5"

Height 1.0"

Data Buffer 32 MB

Buffer to/from Media 42–85 MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek 8.2 ms (Read) 9.2 ms (Write)

Rotation Latency 4.17 ms

2 TB NL

Interface 6 Gb/s SAS

Capacity (RPM) 1 TB (7,200)

Formatted Capacity* 1,852 GB

FormFactor 3.5"

Height 1.0"

Data Buffer 32 MB

Buffer to/from Media 84 MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek 8.2 ms (Read) 9.2 ms (Write)

Rotation Latency 4.17 ms

3 TB NL

Interface 6 Gb/s SAS

Capacity (RPM) 3TB (7,200)

Formatted Capacity* 2,795 GB

FormFactor 3.5"

Height 1.0"

Data Buffer 32 MB

Buffer to/from Media 84 MB/s

SP to/from Buffer 600 MB/s (max)

ACCESS TIME

Average Seek 8.2 ms (Read) 9.2 ms (Write)

Rotation Latency 4.17 ms

PROTOCOLS SUPPORTED

Certified for Common Criteria EAL3+ CIFS (SMB 1 and SMB 2), NFSv2 and v3, iSCSI Network Lock Manager (NLM) v3, v4 Routing Information Protocol (RIP) v1-v2 Simple Network Management Protocol (SNMP) Network Data Management Protocol (NDMP) v1-v4 Address Resolution Protocol (ARP) Internet Control

Message Protocol (ICMP) Simple Network Time Protocol (SNTP) Lightweight Directory Access Protocol (LDAP)

SERVER OPERATING SYSTEM SUPPORT

Microsoft Windows Server 2003 Microsoft Windows Server 2008, Windows Server 2008 R2+ Microsoft Windows 7 and Vista Microsoft Hyper-V VMware[®] ESX[®] RedHat Enterprise Linux Novell Suse Enterprise Linux Citrix Xen Server

SOFTWARE

Standard integrated management and monitoring of all aspects of the systems Thin Provisioning: enables logical sizing and physical provisioning Deduplication and Compression at the file-based level

Snapshots for file systems and iSCSI volumes

Able to replicate file data over IP for disaster recovery, backup, and/or testing

Application integration and replica management

Security and Compliance File-Level Retention

CLIENT CONNECTIVITY

File access by NFS, CIFS protocols Block access by iSCSI Link Aggregation (IEEE 802.3ad) Failsafe networking Virtual LAN (IEEE 802.1q) Network Status Monitor (NSM) v1 Port mapper v2 Network Information Service (NIS) client Supports Microsoft DFS as Leaf node or Root Server Native Windows 2000/2003/2008 R2 support LDAP signing for Windows Microsoft Windows Server 2003 Access-based Enumeration (ABE)

VMWARE INTEGRATION

VMware vSphere5 provisioning, management, cloning, and deduplication

VMware vStorage APIs for Array Integration (VAAI) for NFS

ELECTRICAL SPECIFICATIONS

Processor Enclosure (3.5" Drives)

AC Line Voltage 100 to 240 Vac \pm 10%, single-phase, 47 to 63 Hz

AC Line Current 4.8 A max at 100 Vac, 2.4 A max at 200 Vac

Power Consumption 480 VA (455 W) max

Power Factor 0.98 min at full load, low voltage

Heat Dissipation 1.64×10^6 J/hr, (1,560 Btu/hr) max

AC Protection 12.5A fuse on each power supply, both phases

AC Inlet Type IEC320-C14 appliance coupler, per power supply

Ride-through Time 30 ms min

Current ± 15 percent of full load, between power supplies

Dimension (H/W/L) 5.25 in x 17.5 in x 24.0 in/ 13.34cm x 44.5 cm x 61.0 cm

Weight (max) 96.4 lb/43.8 kg

Expansion Enclosure (3.5" Drives)

AC Line Voltage 100 to 240 Vac $\pm 10\%$, single-phase, 47 to 63 Hz

AC Line Current 2.8A max at 100 Vac, 1.4A max at 200 Vac

Power Consumption 280 VA (235 W) max

Power Factor 0.98 min at full load, low voltage

Heat Dissipation 8.46×10^5 J/hr, (800Btu/hr) max

AC Protection 10A fuse on each power supply, both phases

AC Inlet Type IEC320-C14 appliance coupler, per power supply

Ride-through Time 30 ms min

Current ± 10 percent of full load, between power supplies

Dimension (H/W/L) 5.25 in x 17.5 in x 14.00 in/ 13.34 cm x 44.5 cm x 35.56 cm

Weight (max) 72 lb/32.66 kg

OPERATION ENVIRONMENT

Temperature 50–104 degrees F (10–40 degrees C)

Temperature Gradient 19 degrees F/hr (10 degrees C/hr)

Relative Humidity 20% to 80% (non-condensing)

Altitude 8,000 ft (2,438m) @ 104 degrees F (40 degrees C) max 10,000 ft (3,048 m) @ 98.6 degrees F (37 degrees C) max

ELECTROMAGNETIC

FCC Class A EN55022 Class A

QUALITY AND SAFETY STANDARDS

UL 60950

ISO 9000-registered

NO INSTALLATION IS REQUIRED. THIS IS A PRODUCT PURCHASE ONLY

Local Configuration

Unified Storage System

2X SP DPE - 8GB - 15X 3.5" Bay - 8X 600GB 3.5" - 2x Power NEMA Power Cable

Drive Enclosure

15X 3.5" Bay

4.2TB Hard Drive Bundle

7x 600GB 15K 3.5"

12TB Hard Drive Bundle

6x 2TB 7200rpm SAS 3.5"

Web Management Console

File Deduplication w/ Compression - Protocol and Thin Provisioning - Local Protection:

Snapshots

3 Year Premium Software Support 24x7x4

Also includes update for Base and Local Protection Suite

3 Year Premium Hardware Support 24x7x4

Compliance

(Required Documents.)

Compliance

The compliance documents in this section must be completed, signed and returned **with your bid package.**

Purchasing Department

City of Waltham

610 Main Street

Waltham, MA 02452

Failure to submit the completed documents will cause the disqualification of the proposal.

Section Index

Check when Complete

- Non-collusion form and Tax Compliance form..... _____
- Corporation Identification Form..... _____
- Certificate of Vote Authorization..... _____
- Certificate of Insurance (showing all limits of WC &GL)..... _____
- Three (3) References..... _____
- Debarment Certificate _____

Your Company's Name: _____

Service or Product Bid _____

NOTE: Failure to submit any of the required documents, in this or in other sections, with your bid response package may cause the disqualification of your proposal.

NON-COLLUSION FORM AND TAX COMPLIANCE FORM

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity or group of individuals. The undersigned certifies that no representations made by any City officials, employees, entity, or group of individuals other than the Purchasing Agent of the City of Waltham was relied upon in the making of this bid

_____, _____
(Signature of person signing bid or proposal) Date

(Name of business)

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, & 49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

_____, _____
Signature of person submitting bid or proposal Date

Name of business

NOTE

Failure to submit any of the required documents, in this or in other sections, with your bid response package may cause the disqualification of your proposal.

CERTIFICATE OF VOTE OF AUTHORIZATION

Date:

I _____, Clerk of _____ hereby certify that at a meeting of the Board of Directors of said Corporation duly held on the ____ day of _____ at which time a quorum was present and voting throughout, the following vote was duly passed and is now in full force and effect:

VOTED: That _____ (name) is hereby authorized, directed and empowered for the name and on behalf of this Corporation to sign, seal with the corporate seal, execute, acknowledge and deliver all contracts and other obligations of this Corporation; the execution of any such contract to be valid and binding upon this Corporation for all purposes, and that this vote shall remain in full force and effect unless and until the same has been altered, amended or revoked by a subsequent vote of such directors and a certificate of such later vote attested by the Clerk of this Corporation.

I further certify that _____ is duly elected/appointed _____
_____ of said corporation

SIGNED:

(Corporate Seal)

Clerk of the Corporation:

Print Name: _____

COMMONWEALTH OF MASSACHUSETTS

County of _____

Date:

Then personally appeared the above named and acknowledged the foregoing instrument to be their free act and deed before me, _____

Notary Public;

My Commission expires: _____

CORPORATION IDENTIFICATION

The bidder for the information of the Awarding Authority furnishes the following information.

If a Corporation:

Incorporated in what state _____
President _____
Treasurer _____
Secretary _____
Federal ID Number _____

If a foreign (out of State) Corporation – Are you registered to do business in Massachusetts?
Yes _____, No _____

If you are selected for this work you are required under M.G.L.ch. 30S, 39L to obtain from the Secretary of State, Foreign Corp. Section, State House, Boston, a certificate stating that you Corporation is registered, and furnish said certificate to the Awarding Authority prior to the award.

If a Partnership: (Name all partners)

Name of partner _____
Residence _____
Name of partner _____
Residence _____

If an Individual:

Name _____
Residence _____

If an Individual doing business under a firm's name:

Name of Firm _____
Name of Individual _____
Business Address _____
Residence _____
Date _____

Name of Bidder _____
By _____
Signature _____
Title _____

Business Address _____ (POST OFFICE BOX NUMBER NOT ACCEPTABLE)

City _____ State _____ Telephone Number _____ Today's Date _____

PROVIDE THREE (3) SERVICE APPROPRIATE REFERENCES

1. Company Name:

Address:

Contact Name:

Phone #

Type of service/product provided to this Company:

Dollar value of service provided to this Company:

2. Company Name:

Address:

Contact Name:

Phone #

Type of service/product provided to this Company:

Dollar value of service provided to this Company:

3. Company Name:

Address:

Contact Name:

Phone #

Type of service/product provided to this Company:

Dollar value of service provided to this Company:

NOTE

Failure to submit any of the required documents, in this or in other sections, with your bid response package will be cause for the disqualification of your company.

DEBARMENT CERTIFICATION

In connection with this bid and all procurement transactions, by signature thereon, the respondent certifies that neither the company nor its principals are suspended, debarred, proposed for debarment, declared ineligible, or voluntarily excluded from the award of contracts, procurement or non procurement programs from the Commonwealth of Massachusetts, the US Federal Government and /or the City of Waltham. "Principals" means officers, directors, owners, partners and persons having primary interest, management or supervisory responsibilities with the business entity. Vendors shall provide immediate written notification to the Purchasing Agent of the City of Waltham at any time during the period of the contract of prior to the contract award if the vendor learns of any changed condition with regards to the debarment of the company or its officers. This certification is a material representation of fact upon which reliance will be placed when making the business award. If at any time it is determined that the vendor knowingly misrepresented this certification, in addition to other legal remedies available to the City of Waltham, the contract will be cancelled and the award revoked.

Company Name _____

Address _____

City _____, State _____, Zip Code _____

Phone Number (____) _____

E-Mail Address _____

Signed by Authorized Company Representative:

Print name _____,

Date _____

BID PRICE FORM

(Follows)

PRICE SHEET

My Company bids the following all inclusive price for the product(s) described within:

\$ _____

Company's Name: _____

Authorized Signature: _____

Print Name: _____

Email Address: _____

Date: _____