



500 West Big Beaver
Troy, MI 48084
troymi.gov

CITY COUNCIL AGENDA ITEM

Date: September 3, 2024



To: Robert J. Bruner, Acting City Manager

From: Megan E. Schubert, Assistant City Manager
Rob Maleszyk, Chief Financial Officer
Kyle Vieth, Controller
Emily Frontera, Purchasing Manager
Alex Bellak, Information Technology Director

Subject: Standard Purchasing Resolution 4: Sourcewell Cooperative Purchasing Contract – Storage Area Network (SAN), Installation and Configuration

History

In 2016, the Information Technology Department purchased a Hewlett Packard Enterprise 3PAR StoreServe 8200 Storage Area Network a Storage Area Network (SAN) device and related peripherals with an approximate capacity of 25.8 TB (Resolution #2016-12-212-J-4a). This system was used to store all data related to the virtual hosts and guests. Having the storage separate from the physical server allowed easier upgrade and management of each. Pooling storage allows for better storage utilization by dynamically allocating what is needed for each server. The SAN also has redundant drives, controllers, and power supplies making it incredibly resilient. In addition, the ability to virtualize servers on the SAN allows for server failover.

The City's data usage on the existing SAN is currently growing at a rate of approximately 1.5 TB per year. That could increase depending on any new applications that may be implemented and as we continue to move more paper documents to the Document Management System.

The current system is now 8 years old and has become increasingly more difficult to locate replacement drives. The newer systems now offer features that would make management and use of the SAN much more efficient:

- New SAN offers a 5:1 compression capacity not available on the current SAN.
- Updated fiber switches with double the previous cache.
- Faster and increased cache sizes. As a result, data accessed most often is presented much more quickly.



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History (continued)

Management has been pleased with the performance and reliability of Hewlett Packard products and proposes to purchase the Hewlett Packard Enterprise HPE ALLETRA 5000. It would be configured as follows:

- Forty-two (42) TB capacity expandable to two hundred ninety-four (294) TB
- Four (4) TB Cache for faster data retrieval
- Two (2) 32GB fiber channel switches
- Related software and licenses
- Installation and configuration
- 5 years of Maintenance
- Training

The new SAN will have a total capacity of approximately 42TB for a total cost of \$80,638.68.

Purchasing

- Pricing for the Hewlett Packard Enterprise SAN has been secured from *CDW-G of Vernon Hills, IL* through the Sourcwell Cooperative Purchasing Contract #081419 as detailed in the attached quote PBCW592 dated August 6, 2024.
- On February 5, 2024 City Council authorized participation in the Cooperative Purchasing Programs (Resolution # 2024-02-031-J-5).

Financial

Funds are budgeted and available in the Information Technology Capital Fund under Project Number 2025C0049 for the fiscal year 2025. Expenditures will be charged to account number 636.228.980.020.

Recommendation

City Management requests a contract be awarded to *CDW-G of Vernon Hills, IL* for the purchase of the HPE ALLETRA 5000 SAN, implementation and five (5) years of maintenance as detailed in the attached quote utilizing the Sourcwell Cooperative Purchasing Program for an estimated total cost of \$80,638.68.



Thank you for choosing CDW. We have received your quote.

Hardware

Software

Services

IT Solutions

Brands

Research Hub

QUOTE CONFIRMATION

ALEX BELLAK,

Thank you for considering CDW•G for your technology needs. The details of your quote are below. **If you are an eProcurement or single sign on customer, please log into your system to access the CDW site.** You can search for your quote to retrieve and transfer back into your system for processing.

For all other customers, click below to convert your quote to an order.

Convert Quote to Order

QUOTE #	QUOTE DATE	QUOTE REFERENCE	CUSTOMER #	GRAND TOTAL
PBCW592	8/6/2024	HPE-ALLERTA	3194628	\$80,638.68

QUOTE DETAILS				
ITEM	QTY	CDW#	UNIT PRICE	EXT. PRICE
HPE SN3600B 32Gb 24-port 8-port Active Fibre Channel Switch - switch - 8 po Mfg. Part#: R7R97A Contract: Sourcwell 081419-CDW Tech Catalog (081419#CDW)	2	6759248	\$7,710.09	\$15,420.18
HPE Premier Flex - network cable - 5 m Mfg. Part#: QK734A UNSPSC: 26121609 Contract: Sourcwell 081419-CDW Tech Catalog (081419#CDW)	16	3472836	\$17.09	\$273.44
HPE Pointnext Tech Care Essential Service - extended service agreement - 5 Mfg. Part#: HU4A6A5#ZTL Electronic distribution - NO MEDIA Contract: Sourcwell 081419-CDW Tech Catalog (081419#CDW)	2	6824742	\$660.58	\$1,321.16
HPE Alletra 5010 Adaptive Flash Array Dual Controller Base Array - SSD arra Mfg. Part#: R4U33A Contract: Sourcwell 081419-CDW Tech Catalog (081419#CDW)	1	7175762	\$10,800.00	\$10,800.00
HPE Nimble Storage 2-port Adapter Kit - host bus adapter - 32Gb Fibre Chann Mfg. Part#: R4G78A Contract: Sourcwell 081419-CDW Tech Catalog (081419#CDW)	1	6332398	\$5,683.30	\$5,683.30
HPE Alletra 5000 Adaptive Flash Array 2.88TB SATA 6G FIO Cache Bundle Mfg. Part#: R4U47A Contract: Sourcwell 081419-CDW Tech Catalog (081419#CDW)	1	7172678	\$4,550.00	\$4,550.00
HPE Alletra 5000 Adaptive Flash Array 1.44TB SATA 6G FIO Cache Bundle Mfg. Part#: R8F35A Contract: Sourcwell 081419-CDW Tech Catalog (081419#CDW)	1	7177282	\$2,370.00	\$2,370.00

QUOTE DETAILS (CONT.)

<u>HPE Nimble Storage C13 to C14 FIO Power Cord</u>	2	5103870	\$0.00	\$0.00
Mfg. Part#: Q8J27A UNSPSC: 26121636 Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE Alletra 5000 42TB SAS FIO Hard Drive Bundle</u>	1	7175766	\$5,700.00	\$5,700.00
Mfg. Part#: R4U42A Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE Alletra Tier 1 Storage Array</u>	1	7027805	\$0.00	\$0.00
Mfg. Part#: R9X15A Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE Alletra Storage 5000 2x1200W FIO Power Supply Kit</u>	1	7743905	\$0.00	\$0.00
Mfg. Part#: S2V19A Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE Nimble Storage NOS Default Software - license - 1 license</u>	1	5102099	\$0.00	\$0.00
Mfg. Part#: Q8G27B UNSPSC: 43232907 Electronic distribution - NO MEDIA Contract: Sourcewell 081419-CDW Tech Catalog - Software (081419-CDW)				
<u>HPE Alletra 5010 Software and Support - subscription license (5 years) - 1</u>	1	7175769	\$9,770.80	\$9,770.80
Mfg. Part#: S0L75AAE Electronic distribution - NO MEDIA Contract: Sourcewell 081419-CDW Tech Catalog - Software (081419-CDW)				
<u>HPE Pointnext Tech Care Essential Service - extended service agreement - 5</u>	1	6986686	\$2,643.00	\$2,643.00
Mfg. Part#: HU4A6A5#Z8K Electronic distribution - NO MEDIA Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE ALLETRA 5010 CTO BASE ARRAY SUPP</u>	1	7175773	\$1,235.00	\$1,235.00
Mfg. Part#: HU4A6A5007D Electronic distribution - NO MEDIA Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE ALLETRA 5000 42T SAS HDD BDL SUP</u>	1	7175782	\$2,168.00	\$2,168.00
Mfg. Part#: HU4A6A5007M Electronic distribution - NO MEDIA Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE ALLETRA 5000 1.44TB FIO BDL SUP</u>	1	7184387	\$927.53	\$927.53
Mfg. Part#: HU4A6A5007S Electronic distribution - NO MEDIA Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				
<u>HPE ALLETRA 5000 2.88TB FIO BDL SUPP</u>	1	7175783	\$1,762.11	\$1,762.11
Mfg. Part#: HU4A6A5007T Electronic distribution - NO MEDIA Contract: Sourcewell 081419-CDW Tech Catalog (081419#CDW)				

QUOTE DETAILS (CONT.)**NEW ITEM**

Mfg. Part#: NEW-ITEM
Time and Material Services
Contract: Standard Pricing

1 NEW-ITEM \$15,880.00 \$15,880.00

SUBTOTAL \$80,504.52

SHIPPING \$134.16

SALES TAX \$0.00

GRAND TOTAL **\$80,638.68**

PURCHASER BILLING INFO**Billing Address:**

CITY OF TROY
ACCTS PAYABLE
500 W BIG BEAVER RD
TROY, MI 48084-5285
Phone: (248) 524-3300

Payment Terms: Net 30 Days-Govt State/Local

DELIVER TO**Shipping Address:**

CITY OF TROY
ALEX BELLAK
500 W BIG BEAVER RD
TROY, MI 48084-5285
Phone: (248) 524-3300

Shipping Method: FEDEX Ground

Please remit payments to:

CDW Government
75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

**Sales Contact Info**

Jeff Jones | (866) 668-9487 | jeffjon@cdw.com

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For more information, contact a CDW account manager.

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