



CITY COUNCIL ACTION REPORT

March 28, 2008

TO: Phillip L. Nelson, City Manager

FROM: Susan Leirstein, Purchasing Director
Gert Paraskevin, Information Technology Director
William Nelson, Fire Chief
Charles T. Craft, Chief of Police

SUBJECT: Standard Purchasing Resolution 4: Regional Educational Media Center – REMC Cooperative Program - Purchase of Storage Area Network (SAN)

Background

- The Police and Fire Departments are approaching a point where electronic storage of files must be expanded to meet current and future needs.
- Evidence Technicians and Fire Investigators have been using digital photography to collect evidence at fire, crime, and other incident scenes. These photos are quite large and must be stored for lengthy periods depending on the type of case. The storage demands for evidence and other digital photographs and documentation is beginning to fill up the Police and Fire file server. This solution will provide large storage areas thereby freeing up space on the file server. It will also provide a better method for storage, retrieval, and managing the chain of custody in evidentiary digital photographs.
- The Police Department also needs to expand storage capability of the building security system. Most important in this system is the Lockup Section. Police administrators have set a target of storing digital data two years. Interviews conducted by investigators will also be stored for a greater length of time.
- The Police Department also needs to expand the length of time the in-car videos are stored.
- By proper configuration of the SAN system, the Police department can better utilize the storage across a wider number of applications and allocate storage on a real time, as needed basis.
- The single SAN system, as opposed to independent storage devoted to a particular application, also allows the Police department to purchase more storage while lowering procurement and implementation costs.
- The single SAN system also allows for lower future expansion costs.

Financial Considerations

- Funding for this project is available in the Police department communications capital accounts #401325.7980.030 and #401325.7980.050. Funding for the Fire Department's share is available in account #338.7740.115.

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To: Phillip L. Nelson, City Manager
Re: REMC Cooperative Program – Storage Area Network

Legal Considerations

- While there are no legislative mandates addressing the storage of digital photography, the purchase of the SAN system will insure the Department meets or exceeds the length of time police administrators have established in department policy.

Policy Considerations

- The purchase of the SAN system will increase the Police and Fire Departments' efficiency in storing photographs, videos, and other evidence and documents (Goals #2 – “Minimize cost and increase efficiency of City government” and #4 – “Effectively and professionally communicate internally and externally”), and provides long term storage capability and reduces civil liability (Goal #1 – “Protect life and property”).

Options

- City management recommends that the City Council authorize the purchase of the Hewlett Packard storage server solution from Hewlett Packard under the REMC contract at an estimated cost of \$46,878.00. Furthermore, since Dyntek Services, Inc. is familiar with the existing installation of the Hewlett Packard hardware and software storage solution in general, it is recommended they be employed to install, configure, and train department personnel in the operation of the system at an estimated cost of \$1,500.00. The total estimated cost of the project is \$48,378.00.



SHOPPING CART

Today's Date : 3/3/2008 2:15:48 PM
 Contract: MI - REMC (WSCAII) (HP-WSCA-04)

Product availability and product discontinuation are subject to change without notice. The prices in this shopping cart are valid for 30 days from the date above. If you do not wish to place this order electronically, please include this form when submitting your purchase order.

Show address and comment fields. Use the File - Print option to print this form for your future reference.

Items/description	Part no	Unit price	Qty	Ext price
HP ProLiant DL380 G5 Base Storage Server HP ProLiant DL380 G5 Base Storage Server Form factor 2U Rack Processor 1 x Quad-Core Intel Xeon E5345 2.33 GHz / 1333 FSB / 2 x 4MB L2 cache (up to 2 supported) Memory 2GB (up to 32GB) Memory Memory protection Advanced ECC Network controller Embedded dual NC373i Multifunction Gigabit Server Adapters with TOE Storage controller Smart Array P800 Controller with 512MB cache (RAID 0/1/5) External storage Supports MSA50/60/70 Internal storage 2 x 36GB 3G SAS 15K SFF HDDs (for mirrored OS internal to server) External Storage Included No external storage included	Base AG815A	\$5,216.00	1	\$5,216.00
HP 2GB Smart Buy Fully Buffered DIMM PC2-5300 2X1GB Memory	397411-S21	\$174.00	1	\$174.00
24x7, 4 hr response hardware on-site 3 yrs	UB952E	\$1,807.00	1	\$1,807.00
MSA1500 Dual channel SCSI I/O module	AA988A	\$420.00	3	\$1,260.00
HP 750GB SATA 3.5 1.5Gb 7,200 rpm Hard Drive	432341-B21	\$356.00	36	\$12,816.00
HP Modular Smart Array 20 HP Modular Smart Array 20 Form factor	Base 335921-B21	\$1,525.00	3	\$4,575.00

3.5 in. (drive)
 2U (enclosure)
Total drive count
 Up to 12 SATA drives
Capacity
 Up to 9TB of storage
Interface
 SATA drive interface; Ultra320 SCSI host interface
Expansion
 Supports MSA1500cs, MSA1510i

HP StorageWorks 20 Modular Smart Array w/ 12 750GB SATA drives & MSA1500 controller shelf bundle	Base	\$9,359.00	1	\$9,359.00
HP StorageWorks 20 Modular Smart Array w/ 12 750GB SATA drives & MSA1500 controller shelf bundle	AJ686A			
Form factor				
3.5 in. (drive)				
2U (enclosure)				
Total drive count				
Includes 12 x 750GB SATA drives				
Capacity				
9TB of storage				
Interface				
SATA drive interface; Ultra320 SCSI host interface				
Expansion				
Includes MSA1500 controller shelf				

HP 3year 4hour 24x7 MSA20/30/50 HW Support	U8130E	\$956.00	4	\$3,824.00
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HP StorageWorks MSA1500 HA Starter G2 Upgrade Kit	AE328B	\$6,131.00	1	\$6,131.00
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HP 3year SupportPlus 24 ProLiant DL380 G4/G5 Storage Server Service	UD575E	\$1,716.00	1	\$1,716.00
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Subtotal: \$46,878.00



DynTek Services, Inc.
 24401 Halsted Road
 Farmington Hills, MI 48335
 Phone: 248.474.6641 Fax: 248.477.5549
 Fed ID# 13-4067484

QUOTATION

Date	Quotation #
03/03/08	DTKQ12538

Quote To:
City of Troy Ryan Wolf City Clerk 500 W. Big Beaver Road Troy, MI 48084 Phone: (248) 619 7697

Ship To:
City of Troy Ryan Wolf City Clerk 500 W. Big Beaver Road Troy, MI 48084 Phone: (248) 619 7697

Terms	Salesperson	Quotation Expires
NET 30		30 days

Ln #	Qty	Part Number	Description	Unit List Price	Unit Price	Ext. Price								
1	1	DynServ	DynTek Services - HP SAN Installation	\$0.00	\$1,500.00	\$1,500.00								
						<table border="1"> <tr> <td>SubTotal</td> <td>\$1,500.00</td> </tr> <tr> <td>Sales Tax</td> <td>\$0.00</td> </tr> <tr> <td>Shipping</td> <td>\$0.00</td> </tr> <tr> <td>Total</td> <td>\$1,500.00</td> </tr> </table>	SubTotal	\$1,500.00	Sales Tax	\$0.00	Shipping	\$0.00	Total	\$1,500.00
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Sales Tax	\$0.00													
Shipping	\$0.00													
Total	\$1,500.00													

Comments or Special Instructions:

Please give me a call for questions.
 Please fax all orders to (248) 477-5549.

Thanks!

Tom White
 Senior Account Manager
 Incomp Technical Services Group
 Formerly DynTek
 (248) 477-5385
 Tom.White@dyntek.com

The undersigned accepts quotation and authorizes DynTek to order and invoice for this product and/or services.

Date _____ Signature _____ Printed Name _____