

REQUEST FOR QUOTATION	TROY SCHOOL DISTRICT 1140 RANKIN, TROY, MICHIGAN 48083 248-823-4027 FAX: 248-823-4077	REQUISITION
No. 9731		
DUE DATE 04/26/12 NO LATER THAN 2:00 p.m.		DATE 04/12/12

REQUEST FOR QUOTE – NOT AN ORDER

THIS FORM MUST BE UTILIZED WHEN RESPONDING TO THIS REQUEST
 BID ENVELOPE ENCLOSED

THE RFQ NUMBER MUST APPEAR ON ALL QUOTATIONS AND RELATED CORRESPONDENCE, THIS IS NOT AN ORDER

Quantity	DESCRIPTION	UNIT PRICE	AMOUNT
	<p>Please supply us with your bid to furnish the Troy School District with STORAGE.</p> <p style="text-align: center;"> Copies of the bid are available at: www.troy.k12.mi.us/purchasing/items_out_for_bid.htm </p> <p style="text-align: center;"> Bid recaps will be available at: troy.k12.mi.us/purchasing/index.htm </p> <p style="text-align: center;"><u>FACSIMILE BID IS NOT ACCEPTABLE</u></p> <p>Bids will not be accepted if submitted after the deadline specified (local time) in the advertisement to bid or in the information to bidders. The late submission of a bid makes the bid nonrepsonsive and is a material defect which shall not be waived by the Board of Education. Delays in the mail will not be considered. All Late bids in the mail will be returned to the bidder unopened.</p> <p>Proposal for the submission of alternatives by vendors will be accepted and reviewed. However, if any substitution or departure is not clearly noted and described, it will be understood that the bid intends to exactly meet the specifications.</p> <p>The Board of Education shall be the sole judge as to whether the proposed goods are "equal" or "approved". Quotations must be mailed or delivered to the Purchasing Office, 1140 Rankin, Troy, MI 48083 no later than 2:00 p.m. on the date shown above. Michigan State Sales and Use Taxes and Federal Excise Taxes do not apply unless otherwise indicated. Exemption certificates will be furnished when necessary. This request imposes no obligations on the buyer. The Board of Education reserves the right to accept or reject any or all bids or to split awards by items or to accept bids, which will best serve the Board of Education.</p>		

THIS AREA MUST BE FILLED IN

DELIVERY TIME	PRICES FIRM FOR	NAME OF COMPANY	TELEPHONE NO.
TERMS		NO. & STREET	FAX #
FOB DELIVERED	ALL DELIVERY CHARGES MUST BE INCLUDED IN PRICES SHOWN	CITY, STATE & ZIP CODE	E-MAIL
CONTACT PERSON (PLEASE PRINT)		SIGNATURE	DATE

**TROY SCHOOL DISTRICT
STORAGE
BID #9731**

The Troy School District (“the District”) is a 12,000 student public K-12 school district in Oakland County, MI, comprised of 20 instructional buildings (twelve elementary, four middle, two comprehensive high, one alternative/community high, and one International Baccalaureate high school) and four administrative and support facilities. Each building has high speed Internet connectivity via a district fiber optic network, and every classroom has at least one dedicated instructional computer.

The District currently has labs of Windows XP desktops in every building. The District is looking to expand our existing VMware 5.0 VDI environment to deploy and present 1250 more Virtual Desktops.

The current VDI infrastructure currently is composed to support 750 Desktops through the following configuration:

1. The Cisco Unified Computing System (UCS) design consists of 2 Cisco 6120 Fabric Interconnects, 2 Cisco 5108 Series Blade Chassis with two Cisco 2104 Fabric Extenders (FEX) each, 2 Cisco B250M2 Blade Servers and 5 Cisco B200M2 Blade Servers. The core part of the Cisco UCS is the Cisco 6120 Fabric Interconnects. The fabric interconnects provide the management and communication backbone for the UCS solution. The physical connectivity can be divided into three areas: Server ports, LAN Uplinks and Data (NFS/FCoE) Uplinks.

Server Ports

- Each 6120 Fabric Interconnect is configured with two active server ports per chassis. Each fabric interconnect connects to a single FEX in each Cisco 5108 blade chassis to provide an aggregate of 20Gbps from each FEX to the corresponding Fabric Interconnect. This configuration provides a total of 40Gbps in an active/active state from each UCS 5108 Chassis to the Fabric Interconnect cluster.

LAN Uplinks

- Each 6120 Fabric Interconnect is configured with two 1Gbps links to the core switches. Each fabric interconnect will provide 2Gbps to the core layer combining to provide an aggregate of 4Gbps of usable bandwidth.

Storage Uplinks

- Each 6120 Fabric Interconnect is configured with 2 8Gbps Fibre Channel (FC) links to an individual SAN fabric via Cisco Nexus 5010 fabric switches.

2. EMC Symmetrix VMAXe – Dual Engine Array

- (74) 450GB 15K Drives
- (26) 2TB – 7.2K NL Drives
- (13) 200GB Enterprise Flash Drives

3. VMware Licensing:

Quantity	Part	Description
1	VU4-PR-100-C	View 4 Premier Kit Starter bundle: 100 Pack
65	VU4-PR-10-C	View 4 Premier Bundle: Add 10 Pack

Length & scope of project

Based on a planned April Board of Education approval and providing time for ordering, the District intends to begin staging and building of the virtual environment in July 2012. Any disruptive, service interrupting tasks will be scheduled for after-hours and weekend schedules, or after the last day of school.

NOTE: that many staff work year-round and all service outages must be scheduled at least 24 hours in advance – Bidders shall not assume that summer months provide unlimited ability to disrupt services. However, the target completion date of the entire virtualization project is August 15th, 2012.

Mandatory requirements of this bid include holding the pricing provided for hardware and integration labor rates provided in this bid response for 12 months from the date of first purchase order by the district. Also, all pricing must be valid and extended to any Oakland County School District who may choose to participate within the first three months of the project at the provided pricing.

Desired configuration

Base bid Hardware:

Provide all storage hardware, network connectivity, cabling, licensing, and maintenance necessary to expand the existing EMC Vmaxe infrastructure to accommodate an additional 1250 VDI desktops. Server infrastructure will be bid in a separate bid. Hardware must interconnect and have proven functionality with our existing VDI environment in a supported configuration by all existing hardware manufacturers in the environment. Solution must include expansion of all tiered data storage levels.

Base bid Services (all services to be performed with District staff present for knowledge transfer)

- Staging, installation, configuration, patching, and updating of storage hardware environments
- Integrate and present the Storage into the existing VMware environment.
- Provide licensing, install and configure ProSphere and Control Center.
- Network & backup configuration changes to ensure connectivity and data protection to the existing EMC Avamar Grid.

Base bid warranty:

- Three year 24x7x4 support for storage hardware
- Three year annual support and subscription for all software licenses and maintenance

Alternates

Alternate 1:

- MA-1: Add one year (four years total) 24x7x4 support for server hardware, all software licenses and maintenance

Alternate 2:

- MA-2: Add two year (five years total) 24x7x4 support for server hardware, all software licenses and maintenance

Alternate 3:

- MA-3: Cost to expand the existing Avamar Grid Software licensing 1TB

Product Number: 456-100-309

Alternate 4:

- MA-4: Cost to provide and configure 1-3.9TB Avamar Node with Software licensing for 4 TB. Price must include full implementation services and 3 yr Hardware warranty and software maintenance.

Product Numbers:

PS-BAS-AVXIMP	AVAMAR NODE REBALANCE QUICKSTART
PS-BAS-AVXINS	AVAMAR EXP NODE INSTALL QUICKSTART
M-ENHSWL-002	ENHANCED SOFTWARE SUPPORT
WU-PREHWB-00	PREMIUM HARDWARE SUPPORT-WARR UPG(ANDL)
AVM1NSTG3FG4	Avamar Gen4 3.9TB Stg Node (Fld Inst)

Alternate 5:

- MA-5: Cost for license and 3 yr maintenance of Power path VE for one host.

**TROY SCHOOL DISTRICT
SERVER EQUIPMENT, SERVICES AND WARRANTY
BID #9731**

NAME OF BIDDER: _____

ADDRESS: _____

TELEPHONE: _____

SIGNATURE: _____

PRINTED NAME: _____

Pursuant to and compliant with your Advertisement for Bids and Bid Documents, we the undersigned propose to furnish the equipment and materials described therein for the purpose of supplying the Troy School District with Hardware to expand VDI environment for 1100 additional virtual desktops, and agree to the payment terms outlined within the Bid Documents.

BASE BID – Provide all hardware, network connectivity, cabling, licensing, and maintenance necessary to expand the existing UCS infrastructure to accommodate an additional 1250 VDI desktops.

_____ Dollars \$ _____

Note: The amount shall be shown in both words and figures. In case of discrepancy, the amount in words shall be determinat.

Please provide a detailed bill of materials that corresponds to the dollar amount listed.

VOLUNTARY ALTERNATES – Bidders may propose alternatives to certain solutions if permitted in the bid documents. Attach additional alternates, if any, on a separate sheet of paper. The amounts provided below are inclusive of all costs, expenses, fees, shipping, overhead & profit, and other charges.

Alternate 1: _____

Add/Deduct _____

_____ Dollars \$ _____

Alternate 2: _____

Add/Deduct _____

_____ Dollars \$ _____

Alternate 3: _____

Add/Deduct _____

_____ Dollars \$ _____

UNIT PRICES – Total quantities may be increased or reduced based on the following schedule of unit prices. The amounts provided below are inclusive of all costs, expenses, fees, shipping, overhead & profit, and other charges.

	Description	Add	Deduct
UP-1			
UP-2			

MANDATORY ALTERNATES – The District reserves the right to increase or decrease the Base Bid price using the following schedule of prices. The amounts provided below are inclusive of all costs, expenses, fees, shipping, overhead & profit, and other charges.

Unit Price

	Description	Add	Deduct
MA-1:	Add one year (four years total) 24x7x4 support for server hardware, all software licenses and maintenance		
MA-2:	Add two year (five years total) 24x7x4 support for server hardware, all software licenses and maintenance		
MA-3:	Cost to expand the existing Avamar Grid Software licensing 1TB		
MA-4:	Cost to provide and configure 1-3.9TB Avamar Node with Software licensing for 4 TB. Price must include full implementation services and 3 yr Hardware warranty and software maintenance.		
MA-5:	Cost for license and 3 yr maintenance of Power path VE for one host.		

SHIPPING CHARGES _____

Delivery Address:
Technology Resource Center
Troy School District
4420 Livernois
Troy, MI 48098

**Troy School District
Storage
Bid #9731**

	Data Strategy	Netech	CDW
Base Bid	799,500.00	799,800.00	769,813.00
UP1			
UP2			
MA1	66,670.77	201,410.00	71,336.00
MA2	119,453.46	201,410.00	142,674.00
MA3	6,500.00	4,800.00	15,360.00
MA4	80,600.00	85,076.40	64,945.00
MA5	975.00	4,251.00	22,454.00
VA1			
Affidavit	Yes	Yes	Yes