



## CITY COUNCIL AGENDA ITEM

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Date: 5/9/2014

To: Brian Kischnick, City Manager

From: Tom Darling, Financial Services Director  
MaryBeth Murz, Purchasing Manager  
Gert Paraskevin, Information Technology Director

Subject: Agenda Item – Standard Purchasing Resolution 4: REMC Contract - Server Replacement

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### **History**

In July of 2007 the City implemented a Dell PowerEdge 2950 as a virtual test server. It was later moved to the Troy School District Service Center to also function as an offsite disaster recovery server. It is now almost seven years old and can no longer meet all of the City's processing and data storage requirements. In addition to its current functions the City would like to expand disaster recovery to include real-time mirroring of critical servers and data; which would result in simplified and quicker recovery.

Currently this Test/DR server hosts 9 virtual machines, however it is very slow due to the limited amount of memory (24GB) and the slow disk drives and disk controller. In addition, the available storage is almost completely utilized (740GB). In its current state it is not feasible to add any additional servers or data to this virtual environment. Another factor to consider when replacing a server is its age. This system, as well as every other City server, runs 24 hours a day 7 days a week. This puts a lot of stress on moving parts as well as constant current and heat to other components which begin to breakdown over time. There have been a few instances where the server has failed in the recent past, but staff was able to revive it. Seven years is the maximum expected lifespan of a server.

### **Purchasing**

- The city is proposing to purchase a new test/DR server from Dell as outlined in Appendix A.
- This server configuration includes enough processor, memory (256GB), disk space (6TB useable), and controller speed to provide the necessary resources to add virtual servers and additional data to meet planned needs, plus some room for expansion.
- In addition, newer servers provide better performance while utilizing less power.
- The REMC Association of Michigan prequalifies vendors and equipment through a competitive bid process. Dell Marketing, LP is one of the awarded low bidders for server equipment on the current REMC contract.

### **Financial**

Funds are available in the Information Technology Capital budget.

### **Recommendation**

City Management requests the authorization to purchase one (1) new server including hardware, maintenance and operating system software from Dell Marketing, LP as quoted in Appendix A through the State of Michigan REMC Program for an estimated total cost of \$18,998.78.



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## Appendix A

### Dell REMC Server Quote

<b>Description</b>	<b>Quantity</b>
PowerEdge R720, Intel Xeon E-26XX Processors (210-ABVP)	1
PowerEdge R720 Motherboard, TPM (591-BBBP)	1
ProSupport: Next Business Day Onsite Service After Problem Diagnosis, 4 Year Extended (934-3744)	1
ProSupport: 7x24 HW / SW Tech Support and Assistance, 5 Year (934-3754)	1
Dell Hardware Limited Warranty Plus On Site Service Extended Year (939-2678)	1
Dell Hardware Limited Warranty Plus On Site Service Initial Year (939-2768)	1
PowerEdge R720 Shipping (331-4437)	1
Risers with up to 6, x8 PCIe Slots + 1, x16 PCIe Slot (331-4440)	1
iDRAC7 Enterprise (421-5339)	1
Broadcom 5720 QP 1Gb Network Daughter Card (430-4418)	1
Power Saving Dell Active Power Controller (330-5116)	1
RAID 10 for H710P/H710/H310 (4-16 HDDs in pairs) (331-4383)	1
PERC H710P Integrated RAID Controller, 1GB NV Cache (342-3531)	1
Heat Sink for PowerEdge R720 and R720xd (331-4508)	1
Intel Xeon E5-2660v2 2.2GHz, 25M Cache, 8.0GT/s QPI, Turbo, HT, 10C, 95W, Max Mem 1866MHz (338-BDBE)	2
16GB RDIMM, 1866MT/s, Standard Volt, Dual Rank, x4 Data Width (370-AAWL)	16
1.2TB 10K RPM SAS 6Gbps 2.5in Hot-plug Hard Drive (342-5514)	10
DVD ROM, SATA, INTERNAL (313-9092)	1
ReadyRails Sliding Rails With Cable Management Arm (331-4433)	1
Dual, Hot-plug, Redundant Power Supply (1+1), 750W (331-4605)	1
Power Cord, NEMA 5-15P to C13, 15 amp, wall plug, 10 feet / 3 meter (310-8509)	2
Windows Server 2012R2 Datacenter Edition,Factory Installed,No Media,2 Socket,Unlimited VMs (618-BBDQ)	1
<b>Total Purchase Price:</b>	<b>\$18,998.78</b>