# Memorandum
# City of Lawrence
# Information Technology Department

**To:**          **Dave Corliss, City Manager**

**From:**       **James Wisdom, Information Technology Director**

**cc:**          **Alan Landis, Purchasing Specialist**

**Date:**       **May 10, 2012**

**Re:**          **VMWare Server Replacements**

## VMWare Background

The City of Lawrence has used VMWare to "virtualize" servers for six years. The virtual servers allow multiple servers to run on a single server host and offer significant savings on server hardware and licensing costs and improved data protection. Virtualization has become the standard in the I.T. industry and is what the 'cloud systems' are based on. The City's current VMWare servers are due for replacement and these replacements will allow us to continue our server migrations. The City runs approximately 40 servers on the existing hardware and this update will allow us to virtualize ten or more servers, and improve performance to others. Virtualization is part of the City's business continuity strategy to allow for redundancy and better data protection. These servers will connect to the existing storage for data access.

## Pricing Comparison

Pricing was compared with servers offered on State of Kansas and Kansas/WSCA purchasing contracts from Dell, HP, and Microtech and the pricing compares as follows:

| Vendor: | Dell | HP | Microtech |
|---|---|---|---|
| State Contract: | State of Kansas | Kansas (WSCA/NASPO) | State of Kansas |
| Server Model: | DELL PowerEdge R510 | HP ProLiant DL380 G7 | INTEL SR2625UR |
| Processors: | (2) Intel XEON X5660, 2.8GHz | (2) Intel XEON X5660, 2.8GHz | (2) Intel XEON X5660, 2.8GHz |
| Bus Speed: | 1333MHz | 1333MHz | 1333Mhz |
| Memory: | 128GB 1066MHz | 128GB 1066MHz | 128GB 1066MHz |
| Operating System: | None | None | None |
| (1) Hard Drive: | (1) 500GB | (2) 1000GB Solid-State | (2) 60GB Solid-State |
| Power Supply: | (1) 480 Watt, Non-Redundant | (2) 750Watt Redundant | (2) 750Watt Redundant |
| Case: | Rack-mount with rails | Rack-mount with rails | Rack-mount with rails |
| Price (each): | $8,515 | $7,593.01 | $4,845 |
| Quantity: | x6 | x6 | x6 |
| **Total Price:** | **$51,090.00** | **$45,558.06** | **$29,070.00** |

*(1) Hard-drive for boot-up only, all servers use storage area network (SAN) for storage.*

## Recommendation Action:

Information Technology recommends authorizing the purchase of six (6) VMWare Servers from Microtech Computers from the State of Kansas contract at a total cost of $29,070.00.