

Date: 6/15/11

To: David Foote & Delbert Dodds

Re: Bid Summary

From: Scott Hand



On June 14, 2011, we opened the bids for "Servers, Storage, Network Switches, and Computers". We received only 1 bid (from **Advanced PC Products**) and after a review of that bid, it was determined that the items & prices submitted meet our needs and are reasonably priced. Based on this, we recommend that we accept the bids as presented. The bids total **\$ 55,423.00**. A summary of the equipment and its intended use is provided below.

1. Servers (qty=2). We are requesting 2 servers to help us begin evaluating the move to CITRIX virtual desktops. If we are successful in creating virtual desktops, it will allow us to use our existing desktop computers for about 2-3 years longer than we do now. This could save Dalhart ISD a significant amount of money on computer replacements. If we are not successful, this equipment can be redeployed to support the regular operations of the district. The bid for 2 identical servers is \$ 13,313.00.
2. Storage Area Network Server 1 (SAN 1) will be used to provide Hard Drive space for our existing CITRIX Virtual Servers (we already have 7 in place and are migrating our physical servers to virtual servers as fast as we can to save space, reduce energy costs, reduce equipment costs and improve reliability). The bid for SAN1 is \$ 8,030.
3. Storage Area Network Server 2 (SAN 2) will be used to provide Hard Drive space for our virtual desktop project in item 1 above. SAN2 must have the capacity for a large number of requests and be able to handle a large volume of data throughput to function appropriately. This required that the SAN2 server be configured with high performance equipment. The bid for SAN2 is \$ 14,870.
4. Switch 1 is needed to provide a 10Gb network backbone in our server room. This will help all computer users in the district as it will reduce network bottlenecks at the server(s). The bid for switch 1 is \$ 10,180.00.
5. Switch 2 is needed as a replacement/upgrade for the switch at the XIT Telephone Shack located at the Dalhart Junior High School campus. The bid for switch 2 is \$ 1,725.00
6. Storage Area Network Server 3 (SAN 3) will be a replacement for our DATA server. This server provides the storage location for all user data in the district. The bid for SAN3 is \$ 7,305.00.

Definitions

CITRIX – A company that provides computer virtualization software.

Virtual Server – This is a physical server that has multiple servers running on it at the same time, each in its own memory space so that it does not interfere with the other servers on the same server. Virtual Servers share disk space, memory, processors, network connections, etc...and thus increase efficiency and provide much needed redundancy.

Storage Area Network (SAN) – This is basically a server with a large number of hard drives in it.

Virtual Desktop – This is a regular desktop computer that connects to a server and uses the server's processing power, memory, etc... We can have older computer equipment running the newest software when we use virtual desktops.