



CITY COUNCIL AGENDA REPORT



DEPARTMENT: Information Systems

MEETING DATE: July 3, 2007

PREPARED BY: Mitch Cochran, Info Systems Mgr.

AGENDA LOCATION: CC-10

TITLE: Authorization to Purchase Replacement Networking Equipment for Voice and Data Communications not to Exceed \$88,000.00

OBJECTIVE: To request the approval for the purchase of replacement networking equipment so the City's voice and data network speed can be increased from 10Megabit (Mb) to 1000Mb (1Gigabit).

BACKGROUND: The City's current equipment was originally designed to work with the City's telephone system that was installed in 1999. At that time the phone system allowed both voice and data to be sent to four locations (Corporate Yard, Community Center, Library, and Fire Station #2) over fiber lines provided by Adelphia Communications (now Time Warner). The fiber lines allowed the voice and data traffic to be passed at no cost to the City. The system was designed to support data speeds at 10Mb between locations and 100Mb to the desktops within each facility.

ANALYSIS: Currently, all of the City's workstations are capable of running at any of three speeds: 10Mb, 100Mb, or 1000Mb (1Gigabit). The limiting factor is that the network equipment is limited to 100mb. If the network equipment is replaced then the speed could be increased to 1Gb both within City Hall and between all City buildings. The higher speed is especially crucial for backups of remote servers. It currently takes 7 hours to backup the server at the Community Center. The higher network speed should allow the backup to be completed within one hour. As the City is redesigning some of its facilities, it is expected that more equipment will be in remote sites.

The new networking equipment also needs to be in place prior to any upgrades to the telephone system which would include Voice over IP (VoIP). VoIP phones will require additional network connections using the same Category 5E wire that the City's workstations use. Both the Corporate Yard and Fire Station #1 remodeling projects have included upgraded wiring for VoIP telephones.

OPTIONS:

The City has reviewed a number of networking equipment providers. Proposals were received from vendors of Hewlett Packard (HP), Cisco, and Extreme Networks equipment.

CC-10

The proposals included the following pricing for equivalent configurations:

Hewlett Packard	\$60547.39	Initial cost	\$1000 annual costs
Cisco	\$65332.30		\$5735
Extreme Networks	\$78828.75		\$6763

The HP product line was judged to be the best fit for the City when looking at function and pricing. The HP product line is also the standard networking equipment for a number of telephone equipment providers such as the City's current Mitel equipment.

The initial proposals were based on configurations that included only the City's data network. Working with HP, the City received an adjusted proposal that includes additional capacity for Voice over IP (VoIP) phones. Due to configuration differences and sizing it is cheaper to purchase the additional capacity at this time then it would be to add it later when the City is upgrading the phone system. The revised quote is priced at \$86,878.95 which includes connections for approximately 287 phones in the various City locations.

FISCAL IMPACT: The equipment will be purchased out of existing funds set aside in the Telephone Replacement Fund.

RECOMMENDATION: Staff recommends that the City Council authorize the approval of purchase of Hewlett Packard Networking equipment not to exceed \$ 88,000.00.

COUNCIL ACTION REQUIRED: If the City Council concurs, the appropriate action would be a motion to authorize the City to purchase HP networking equipment not to exceed \$ 88,000.00.