

Honorable Mayor and Members
of the City Council
City Hall
Torrance, California

Members of the Council:

**SUBJECT: Purchase of data network equipment for the Police Department.
Expenditure: Not to exceed \$159,630.**

RECOMMENDATION

Recommendation of the Police Chief and Information Technology Director that Council:

1. Appropriate \$159,630 from the Computer Replacement Fund for the purchase of data network equipment; includes a 10% contingency to account for any additional equipment that may be required to maximize network efficiency.
2. Authorize a purchase order not to exceed \$74,482 to Network Hardware Resale of Santa Barbara, CA for used Cisco 6509 core switch (1), supervisor modules (2), 24-port modules (3), 48-port modules (2), and SFP connectors (48).
3. Authorize a purchase order not to exceed \$70,641 to CDW-G of Vernon Hills, IL for new Cisco 2960 Gigabit switches (12) and SFP connectors (54), Cisco 2821 router (1) and T1 DSU modules (5), and Cisco 5510 firewall (1).

Funding

Funding is available in the Police Department's Computer Replacement Fund.

BACKGROUND

In December 1999, the Police Department upgraded its Local Area Network (LAN) and installed Cisco Systems network equipment that can send data traffic from 10 mbps (megabytes per second) to 100 mbps. The upgrade included a router, firewall, and switches in four network closets that serve up to 450 computers, 13 servers, and 50 printers. The Police Department's network switches, router, and firewall are at the end of their service life, and the current equipment is no longer supported by the original vendor. Some network switches have failed and been replaced with spare or used equipment.

Today's computer applications, such as digital photography, digital voice and video recording, require greater bandwidth and higher speed to efficiently deliver data to the users. In addition, the City is implementing a new generation of telephone system called Voice-Over-IP (VoIP), and this system requires new network switches for both data and voice services.

ANALYSIS

The Police Department proposes to replace the existing LAN router, firewall, and switches. The proposed equipment will provide greater bandwidth to support higher data speeds and more computer connections. The selection of the proposed Cisco Catalyst 6509

core switch and closet switches resulted from a competitive review of available products. The proposed equipment will work with other switches and routers already in service at City Hall, and will allow for bandwidth growth to support speeds up to 10 gigabits. Additional upgrades will include security features to identify hacking attempts, denial-of-service attacks, and quality-of-service tools to support mission critical applications. A built-in traffic routing and shaping capability plus virtual LAN functionality will improve network performance and preserve fiber optic cable resources.

As an additional cost savings to the City, Police is purchasing used Cisco equipment from Network Hardware Resale (NHR) of Santa Barbara, CA where appropriate. The used equipment is being offered at 60% below the list price and includes a one-year replacement warranty. Communications and Information Technology (CIT) has been pleased with the reliable performance of used equipment purchased from NHR in past years, noting the vendor's rigorous testing procedures for such goods.

Cisco products are widely accepted as highly reputable and price-competitive. Each of the proposed products leverages the substantial City-owned fiber-optic cabling infrastructure present throughout the campus. The products were also selected for their compatibility with existing equipment, making it simpler to maintain spares, train staff, and manage the network.

The Torrance Municipal Code Section 22.3.19 creates a purchasing exception for computer and networking hardware and software purchases. The Municipal Code states:

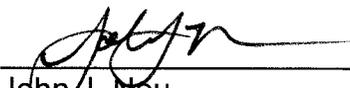
“The provisions of this Article do not apply to contracts for the purchase of computer and networking hardware and software. The purchase of computer and networking hardware and software will be done pursuant to regulations and procedures established by the City Manager.”

Respectfully submitted,

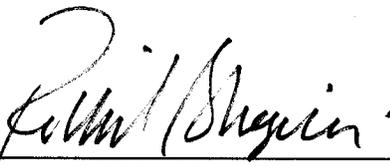
JOHN J. NEU
Chief of Police

By 
Lt. Michael Jezulin
Communications Division Commander

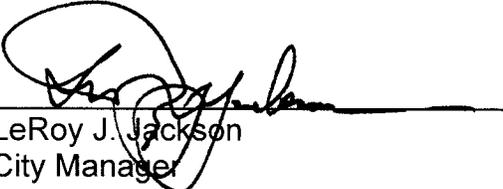
CONCUR:



John J. Neu
Chief of Police



Richard Shigaki
Information Technology Director



LeRoy J. Jackson
City Manager