



**CITY OF LODI
COUNCIL COMMUNICATION**

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AGENDA TITLE: Adopt Resolution Authorizing Purchase of Redundant Network Equipment from Various Vendors (\$56,798)

MEETING DATE: July 17, 2013

PREPARED BY: Public Works Director

RECOMMENDED ACTION: Adopt resolution authorizing purchase of redundant network equipment from various vendors in the amount of \$56,798.

BACKGROUND INFORMATION: The City's network is the core system connecting all City sites and users to files, data and services. It is the electronic pathway over which users receive email, connect to the Internet, access internal files and run programs. Virtually all Police and Fire computer systems need the network in order to function, which includes their Computer-Aided Dispatch (CAD) and Records Management System (RMS), and Jail Management System (JMS). The Fire Department's Ztron alerting system also relies upon the network, as do voice-over-IP phones. The City organization ceases to operate normally if the network is down.

This fact is painfully apparent whenever the network is taken down for maintenance. During those periods, Police and Fire dispatching reverts to manual operations and Fire alerting and paging must be switched to backup systems. Email is also delayed and most users cannot access such applications as JD Edwards financials, ECIS billing system, the fixed network management interface, among many others. Fixed network reads also cannot be delivered to the database if the network is down.

The City has two data centers: one in the Police Building and the other in the basement of the old Public Safety Building (City Hall Annex). Currently, there is only one core switch and one firewall, through which almost all traffic flows. If the core switch fails, the entire network is inaccessible. If the firewall fails, all email and Internet access stops. There is currently no "failover" system in place to keep the network operating in the event of a component failure or planned maintenance.

Information Systems Division will be moving its data center into new quarters as part of the City Hall Annex renovation project, with a tentative move-in date set for early November 2013, a process that will take an entire weekend and involve unplugging, moving, reconnecting and testing all network devices in the Annex data center. Without redundant network components in place, the entire network will be down for most of the weekend.

In anticipation of this move, and in an effort to keep fixed network reads flowing and critical public safety systems operational, staff recommends the purchase of the following network equipment that will provide redundancy or "failover" when the main system goes down. This means that the network and all its systems will remain operational while the move is being done. It will also provide ongoing protection against a component failure, which would normally result in a prolonged network outage.

APPROVED:

Konrad Bartlam, City Manager

Adopt Resolution Authorizing Purchase of Redundant Network Equipment from Various Vendors (\$56,798)

July 17, 2013

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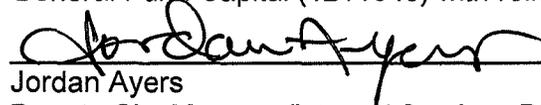
QTY	Description	Part No.	Estimated Price	Extended
1	HP E5412zl Switch	J8698A	\$1,524	\$1,524
4	HP 1500W PoE+ zl Power Supply	J9306A	\$576	\$2,304
3	HP Gig-T/SFP v2 zl Module	J9535A	\$1,170	\$3,510
3	HP 8p SFP+ V2 zl Module	J9538A	\$2,090	\$6,270
10	HP X132 10G SFP+ LC LRM Transceiver	J9152A	\$755	\$7,550
2	HP 2920-48G Switches	J9728A	\$2,200	\$4,400
2	HP 2920 2-Port 10GbE SFP+ Module	J9731A	\$700	\$1,434
4	HP 2910al-48G Switches	J9145A	\$866	\$3,460
2	HP 1500W PoE+ zl Power Supply	J9306A	\$625	\$1,250
	Cables		\$600	\$600
1	Cisco ASA 5545 Firewall	ASA5545	\$13,430	\$13,430
	Contingency			\$6,859
	SUBTOTAL			\$52,591
	SALES TAX			\$4,207
	GRAND TOTAL			\$56,798

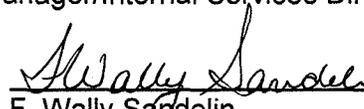
Staff has received bids for these items from the following vendors. It is possible that some items may not be available from selected vendors when the City is in a position to order them. In that case, staff will exercise diligence in selecting a different vendor and purchasing the item at the same or lesser price from the identified vendors. In no event will the total project cost exceed \$56,798. Accordingly, staff recommends that Council authorize the City Manager to execute purchase agreements with any of the identified vendors for the listed items at a price not to exceed \$56,798.

VENDOR	ITEM	PRICE
www.calhountech.com	HP E5412zl Switch	\$1,524.00
www.dataqdirect.com	HP 1500W PoE+ zl Power Supply	\$576.00
www.advanteco.com	HP Gig-T/SFP v2 zl Module	\$1,170.00
www.dataqdirect.com	HP 8p SFP+ V2 zl Module	\$2,090.00
www.advanteco.com	HP X132 10G SFP+ LC LRM Transceiver	\$755.00
www.infinity-micro.com	HP 2920-48G Switches	\$2,200.00
www.infinity-micro.com	HP 2920 2-Port 10GbE SFP+ Module	\$700.00
www.dataqdirect.com	HP 2910al-48G Switches	\$866.00
www.advanteco.com	HP 1500W PoE+ zl Power Supply	\$625.00
AMS.NET	ASA 5545-X firewall	\$13,430.65
www.c2g.com	Network cables	\$600.00

FISCAL IMPACT: Increasing network redundancy will avoid costly communications downtime resulting from equipment failure.

FUNDING AVAILABLE: General Fund Capital (1211043) with reimbursement from enterprise funds


 Jordan Ayers
 Deputy City Manager/Internal Services Director


 F. Wally Sandelin
 Public Works Director

RESOLUTION NO. 2013-130

A RESOLUTION OF THE LODI CITY COUNCIL
AUTHORIZING CITY MANAGER TO EXECUTE
PURCHASE AGREEMENTS WITH VARIOUS
VENDORS FOR REDUNDANT NETWORK EQUIPMENT

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WHEREAS, Information Systems Division will be moving its data center into new quarters as part of the City Hall Annex renovation project, a process that will take an entire weekend and involve unplugging, moving, reconnecting, and testing all network devices in the Annex data center. Without redundant network components in place, the entire network will be down for most of the weekend; and

WHEREAS, in anticipation of this move, and in an effort to keep fixed network reads flowing and critical public safety systems operational, staff recommends the purchase of network equipment that will provide redundancy or "failover" when the main system goes down; and

WHEREAS, staff has received bids for the equipment, however, some items may not be available from selected vendors when the City is in a position to order them. Staff will exercise diligence in selecting a different vendor and purchasing the item at the same or lesser price; and

WHEREAS, staff recommends that City Council authorize the City Manager to execute purchase agreements with various vendors for the redundant network equipment at a price not to exceed \$56,798.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council does hereby authorize the City Manager to execute purchase agreements with various vendors for redundant network equipment at a price not to exceed \$56,798.

Dated: July 17, 2013

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I hereby certify that Resolution No. 2013-130 was passed and adopted by the City Council of the City of Lodi in a regular meeting held July 17, 2013, by the following vote:

AYES: COUNCIL MEMBERS – Johnson, Katzakian, Mounce, and
Mayor Nakanishi

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – Hansen

ABSTAIN: COUNCIL MEMBERS – None



RANDI JOHL-OLSON
City Clerk