

**PERALTA COMMUNITY COLLEGE DISTRICT**  
**Board of Trustees Agenda Report**  
**For the Trustee Meeting Date of October 22, 2013**

**ITEM TITLE:**

Consider Approval to Purchase Equipment and Services for the Wired Network Infrastructure Refresh Project.

**SPECIFIC BOARD ACTION REQUESTED:**

Approval is requested to purchase equipment and services for the Wired Network Infrastructure Refresh Project from NE-Systems using the piggyback-able contract California Multiple Awards Schedules (CMAS) in the not-to-exceed amount of \$716,536.81.

**ITEM SUMMARY:**

Consider approval to purchase equipment and services for the Wired Network Infrastructure Refresh Project utilizing the CMAS piggyback-able contract. This project is a Measure A project that will refresh the District Offices Wired Network Infrastructure. The primary goals for the project are the following:

- Consolidate as many network functions into multi-purpose network devices.
- Network devices must be designed in a highly available and redundant configuration.
- Replace load balancers and VPN devices.
- Simplify firewall design.
- Redesign network architecture to achieve high reliability, ease of management, and reduced troubleshooting
- Successfully cutover old equipment to new equipment.
- Improve user experience through faster network speeds.
- Train IT Technology Services team on how to maintain and utilize infrastructure.

District IT (IT) conducted a survey of the District's current wired network infrastructure this year. At the completion of that survey, IT identified 96 active network devices (switches, routers, load balancers, firewalls, VPN devices), 1 data center, 2 main distribution frame (MDF) rooms, and 7 intermediary distribution frame (IDF) rooms that the District is utilizing. All network devices are no longer covered under a maintenance contract; this includes the critical core switches which should at a minimum be covered under maintenance. Our load balancers for PeopleSoft are now "end-of-line" which means that the manufacturer no longer makes the device. The fiber infrastructure at the district offices has been mapped out as well as a current network topology. The fiber infrastructure has been assessed and needs to be refreshed as well but is out of scope for this project. The current firewall configuration is cumbersome, not easily manageable, and overly complicated for the size of our institution. PCCD is primarily a Cisco shop and PCCD has found "Smartnet" maintenance coverage to be unsustainable year to year.

IT has the opportunity to refresh the network infrastructure and begin implementing cost saving technologies throughout the District Offices. IT will aim to consolidate as much network functionality into multi-purpose network devices; reducing power consumption and network

hardware needs. IT will also utilize higher performing network speeds, requiring all equipment be 10Gb ready and the data center at 10Gb speeds. IT will create a sustainable network infrastructure maintenance schedule that will keep all equipment covered. The project also presents the opportunity to redesign the network architecture itself. The redesign should increase reliability, make management of the infrastructure much easier, and be easy to troubleshoot.

The existing wired network infrastructure will not accommodate the increased demand of bandwidth required by users of PCCD's wired network. New infrastructure is needed to support this increase. A request for piggyback-able WSCA, CMAS, GSA contract quotes was conducted for this project by NE-Systems, Netxperts, and Mainline. Each of these partners represented a group of manufacturers to present a package that met the requirements of the District:

NE-Systems – Enterasys Networks, Arista Networks, A10 Networks, Fortinet

Netxperts – Cisco, F5 Networks

Mainline – HP Networks, F5 Networks, Juniper Networks

NE-Systems turned in two quotes under two contracts (CMAS, CMAS/GSA) for comparison as well as Netxperts (CMAS, WSCA). Mainline turned in only one quote under WSCA.

**SOURCE OF FUNDS (AND FISCAL/BUDGETARY IMPACT):**

Measure A

**BACKGROUND/ANALYSIS:**

Under the Public Contract Code section 20652, the governing board of any community college District, without advertising for bids, and when that Board has determined that it is best interests of the District, may authorize by contract to purchase materials and equipment utilizing piggyback-able contracts. The Administration would like to utilize the piggyback-able contract of CMAS for the Wired Network Infrastructure Refresh Project equipment needs. The administration in cooperation with the Purchasing Department conducted a contract quote analysis using the Western States Contracting Alliance (WSCA), California Multiple Awards Schedules (CMAS), and General Services Administration (GSA) procurement methods. These piggy-back contracts have been reviewed and appropriate discount was applied to this purchase by the vendor as verified by the Purchasing Department.

The Western States Contracting Alliance-National Association of State Procurement (WSCA-NASPO) Cooperative Purchasing Organization encourages, fosters, and guides participating members to work together to create true procurement cooperatives. This organization leverages the collective expertise and experience of WSCA and NASPO, aggregate the demand of all 50 states, the District of Columbia and the five (5) organized territories, their political subdivisions and other eligible entities to help spur innovation and competition in the marketplace. All authorized governmental entities in any state are welcome to use WSCA-NASPO cooperative contracts with the approval of that state's State Chief Procurement Official. This cooperative purchasing benefits states as well as cities, counties, public schools, institutions of higher education and other eligible entities.

The CMAS uses existing competitively awarded government contracts to create the basis for the procurement needs of the State of California. To be considered for the CMAS Program, an existing contract must be awarded by the federal government or any other governmental entity in any state and awarded using a competitive process. The CMAS program provides a specialized procurement process for obtaining computers and telecommunication products and services to state and local government agencies as well as public educational institutions within the State of California. This program ensures that purchasing agencies are given the flexibility to choose the services that best meet their specific business needs, while maintaining an easy-to-use cost-effective government procurement plan. This eliminates the three-bid process and insures competitive pricing in a timely manner. CMAS contracts are available for use and benefit public and private schools, colleges, universities, cities, counties, non-profits and all other governmental entities.

GSA is the government's savings agency and the wealth of our resources is not limited to federal agencies alone. The Cooperative Purchasing Program allows state, local and tribal governments to benefit from pre-vetted vendors on a variety of Information Technology products and services as well as security and law enforcement products and services offered through specific GSA Schedule contracts. This program allows eligible entities to purchase from Cooperative Purchasing approved vendors, at any time, for any reason, using any funds available.

Schedule contracts open under Cooperative Purchasing, include:

Schedule 70 is the largest and most widely-used acquisition vehicle in the federal government. It features a wide variety of information technology products and services including mobile device and mobile application management (MDM/MAM) tools, automated data processing equipment (firmware), software, cloud computing services, hardware, support equipment, and professional services.

A request for piggyback-able WSCA, CMAS, and GSA contract quotes was conducted for these projects by each partner. The requirements were specified and a solution was presented by each partner: NE-Systems – Enterasys Networks, Arista Networks, A10 Networks, Fortinet; Netxperts – Cisco, F5 Networks; Mainline – HP Networks, F5 Networks, Juniper Networks. Each manufacturer and partner met with the Information Technology Department and formulated the required equipment necessary to provide stable and effective support for the required functions of the Wired Network Infrastructure Refresh Project. Each partner has provided quotes for each manufacturer under different piggyback-able contracts for comparison. The resulting quotes were as follows:

First Year TCO Table

Partner	Manufacturers	Piggyback-Able Contract	Maintenance Costs	Total Bid
NE-Systems	Enterasys, Arista, A10, Fortinet	CMAS	\$29,035.64	\$716,536.81
NE-Systems	Enterasys, Arista, A10, Fortinet	CMAS/GSA	\$29,035.64	\$815,394.76
NetXperts (converted to 1 year)	Cisco, F5	CMAS	\$44,925.53	\$908,057.23
NetXperts (converted to 1 year)	Cisco, F5	WSCA	\$44,925.53	\$925,934.34
Mainline	HP, F5, Juniper	WSCA	\$136,959.00	\$616,470.36

5 Year TCO (First year TCO + Maintenance costs for years 2-5)

Partner	Manufacturers	Piggyback-Able Contract	Maintenance Costs	Total Bid
NE-Systems	Enterasys, Arista, A10, Fortinet	CMAS	\$41,238.98	\$881,492.73
NetXperts (converted to 1 year)	Cisco, F5	CMAS	\$44,925.53	\$1,087,759.35
Mainline	HP, F5, Juniper	WSCA	\$136,959.00	\$1,164,306.36

The lowest responsible and responsive piggyback-able contract quote was the following:

Equipment Category	Manufacturer	Piggyback-Able Contract	Total Bid
NE-Systems	Enterasys, Arista, A10, Fortinet	CMAS	\$716,536.81

The total budget amount for equipment and services is \$716,536.81

After Board approval, the Administration will immediately begin the requisition process in order for manufacturers to deliver the equipment by November, 2013. This project is in support of all IT Strategy Projects.

**DELIVERABLES AND SCOPE OF WORK:**

Under this purchase, NE-Systems deliverables will include equipment for the District IT Data Center, necessary software licenses, as well as any other equipment and services specified in the quote.

**ANTICIPATED COMPLETION DATE:**

November 2013.

**ALTERNATIVES/OPTIONS:**

N/A.

**EVALUATION AND RECOMMENDED ACTION:**

The equipment provided by NE-Systems is highly recommended because it was analyzed to be compatible with the existing infrastructure at the District IT Data Center, MDF, and IDF rooms. Furthermore, the equipment and services addresses the goals and objectives of the Wired Network Infrastructure Refresh Project. Approval is recommended to utilize the CMAS piggyback-able contract with NE-Systems for the purchase of the equipment and services needed to complete the project.

**OTHER DEPARTMENTS IMPACTED BY THIS ACTION (E.G. INFORMATION TECHNOLOGY):**

YES     X                        NO           

**COMMENTS: NONE**

**WHO WILL BE PRESENTING THIS ITEM AT THE BOARD MEETING?**

Vice Chancellor Ron Gerhard

(\*\*\*\*\*Board contract approval is subject to negotiation and execution by the Chancellor.)

**DOCUMENT PREPARED BY:**

Prepared by: Michael Dioquino/Calvin Madlock Date: 09/16/2013  
Michael Dioquino, Director of Technology Services/Calvin Madlock, AVC IT

**DOCUMENT PRESENTED AND APPROVED BY:**

Presented and approved by: Ronald Gerhard Date: 10/14/13  
Ron Gerhard, Chief Financial Officer

**FINANCE DEPARTMENT REVIEW**

Finance review required  Finance review *not* required

If Finance review is required, determination is:  Approved  Not Approved

If not approved, please give reason: \_\_\_\_\_

Signature: Ronald Gerhard Date: 10/14/13  
Ron Gerhard, Chief Financial Officer

**GENERAL COUNSEL (Legality and Format/adherence to Education Codes):**

Legal review required  Legal review *not* required

If Legal review is required, determination is:  Approved  Not Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Thuy T. Nguyen, General Counsel

**CHANCELLOR'S OFFICE APPROVAL**

Approved, and Place on Agenda  Not Approved, but Place on Agenda

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
José M. Ortiz, Chancellor