

District Wide Wireless Local Area Network

Upgrade Project

Provided to:

Calvin Madlock

Associate Vice Chancellor of Information

Technology

at:



Submitted by Ed Padilla, NE Systems Incorporated

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Executive Summary for the District Wide WLAN

This executive summary is to provide an understanding of the cost in implementing wireless local area network (WLAN) infrastructure at three locations at the Peralta Community College District. These locations are:

1. Peralta Community Colleges District Offices
2. College of Alameda
3. Merritt College

This includes the equipment necessary to implement a high capacity WLAN, including routing, security firewall, and high-speed access points for a consistent high-grade user experience.

It is the understanding of NE Systems Inc. the project is not to exceed the amounts specified below:

Hardware: \$574,155.93

Maintenance: \$15,725.68

Training: \$19,668.99

Programming Services: \$14,000.00

Wireless Access Point Installation Services: \$127,932.85

Taxes on Hardware and Software: \$54,549.61

Project Total: \$806,033.06

Project Cost Summary:

Hardware: \$574,155.93

Hardware included satisfies the requirements:

1. High capacity redundant network core router equipment to:
 - a. Accommodate the existing legacy traffic
 - b. Accommodate the new high speed WLAN infrastructure
 - c. Ensure Internet and District Office resources are presented at 99.999 or five nines "up" to both staff and students
2. High capacity, redundant, secure Power over Ethernet (PoE) edge equipment to:
 - a. Provide PoE as needed to high speed WLAN equipment, and any network devices needing PoE.
 - b. Provide more than one path (redundancy) for the WLAN equipment for the district.

- c. Provide technology for reduced trouble-shooting times and problem equipment locations.
3. High speed Wireless Local Area Network equipment to:
 - a. Provide complete coverage to staff and students
 - b. Provide high-speed wireless connectivity to staff and students
 - c. Provide high capacity wireless connectivity to staff and students
 - d. Provide wireless differentiated secure access to administrative users
 - e. Provide the same instructional and administrative user experience

Maintenance: \$15,725.68 first year.

Maintenance cost includes the WLAN controller hardware and software, Uninterruptable Power supply equipment, security appliances and core routing equipment. For the second year the maintenance cost will include the updates to the security appliances for a total cost of \$23,886.40

Training: \$19,668.99

The training will be security appliance and core networking routing training for district wide networking IT staff. Training will be held at off site locations and manufacturer specific.

Programming Services: \$14,000.00

Services included satisfies the requirement of providing the Peralta Community District a completely working solution, while providing IT staff a complete understanding and knowledge transfer. These are provided to the Peralta Community College District Office by the manufacturers, and are offered to the College of Alameda at its convenience.

These services included are the:

1. Network distribution equipment installation and programming services.
2. Power over Ethernet edge switch equipment installation and programming services.
3. WLAN equipment installation and programming services.
4. Ensuring the successful communication of all users district wide, including wireless users.
5. Knowledge transfer and training to district wide IT staff.

Wireless Access Point Installation Services: \$127,932.85

The wireless access point installations services are provided are:

1. The relocating existing wireless access point (AP) drops to accommodate new architecture

2. Mounting the new high-capacity 802.11 AC wireless AP in accordance to capacity and performance guidelines set forth by design.
3. Labeling the wireless AP into an identifiable naming convention.
4. Documenting the location of the wireless AP does at each installation location on MS excel and CAD drawings.

Closing:

The executive summary provided in this document is to provide Peralta Community College District at its colleges a summary of costs for this project. NE Systems Inc. has provided the same high speed functioning WLAN network at several community colleges and higher education institutions in State of California for the past 11 years. We look forward to providing the same high performing user experience for your administrative and instructional users at the completion of your project.