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# Wireless

## Access

ADDRESSING THE NEED FOR WIRELESS INTERNET ACCESS FOR STUDENTS, EDUCATORS & ADMINISTRATION

*A partnership between the Eureka Union School District and Quest Technology Management is bringing wireless internet access to all of the schools in the district and the district office.*

## Building The Wireless Network

Karen Perrin from EUSD Information Technology has been working every day these past few weeks with multiple teams from Quest to install the new wireless infrastructure that will provide students, educators and administrators with fast, reliable internet service. It all began with Quest evaluating all of the existing wireless technologies the district had and then designing a new state-of-the-art wireless network. While the design was being finalized, multiple teams from Quest were busy evaluating and running cables around the schools and district office to connect all of the

wireless access points that sit in the classrooms. These access points are the source of the internet in all the classrooms and offices around the district. As the wiring is being completed, other teams from Quest are busy installing all of the hardware and access points across the district. Think of all this as the plumbing in your home, but instead of water, we deliver the internet. As the equipment is being installed, yet another team is busy configuring and testing the whole thing. Finally, the project team will be testing each site to make sure it's ready for the new school year.



## Special Thanks

The project team would like to offer a special thanks to the THINK team of educators who helped to formulate what kind of wireless access would be needed to address current and future needs. We would also like to thank the District Cabinet Team who sat through countless meetings to make sure the district got just what it needed. Finally, we would like to thank the parent volunteers, like Gary Dees and Bryan Thomas, who took time from their busy schedule to offer their expertise and guidance.



# Some Technical Specifications for the New Wireless Network

*"We need technology in every classroom and in every student and teacher's hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world." - David Warlick*

- ◆ The Wireless network will be in all seven district schools plus the district office
- ◆ The Bus Yard will also have wireless access
- ◆ There will be a pair of Ruckus Zone Director 3050 appliances to control all the access points
- ◆ There will be 167 Ruckus ZoneFlex R700 wireless access points

- ◆ Quest will provide 7x24 monitoring and alerts
- ◆ Quest will perform 7x24 security monitoring and alerting on Intrusion Detection Sensors
- ◆ There will be 33 Hewlett Packard (HP) 2530 48-port PoE switches
- ◆ There will be 27 HP 2530 24-port PoE switches
- ◆ There will be 6 HP 2530 8-port PoE switches
- ◆ There will be 7 HP 3800 switches
- ◆ There will be a Cisco ASA

5515-X Firewall Appliance with Web Filtering

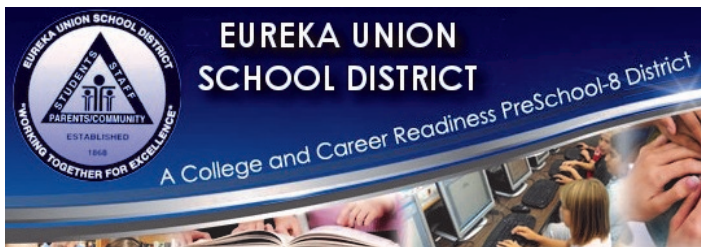
- ◆ Quest will provide reporting to EUSD on the performance and operation of the wireless network

*"Teaching in the Internet age means we must teach tomorrow's skills today" - Jennifer Fleming*

## Key Services of the New Wireless Network



- ◆ Wireless access to campus or district-wide services
- ◆ Standardized testing
- ◆ Cloud computing
- ◆ Support for future Bring Your Own Device (BYOD) services
- ◆ Robust and dependable internet access
- ◆ Support for mobile labs



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