



Solution Story: NHREC

Another quality solution by: VICOM, Virginia Integrated Communications

Date: June, 2010



Highlights

- Complete 4 site integration
- Wired and wireless integration
- Mobile Wi-Fi SIP Solution
- Implementation of county-wide Metro Ethernet for routing infrastructure upgrade
- Intuity Audix to Microsoft Exchange integration



BUSINESSPARTNER

A DREAM IS REALIZED.. A PROJECT STARTED

After 2 years of planning, budgeting and designing, Vicom was awarded the contract to make New Horizon Education Center's technology dreams become a reality. Under the direction of the center IT Director, Winston Greenwell, a timeline was plotted. The catch to the project was to make sure the impact to the classes at the schools involved were minimized. The scope of the project involved 4 sites. There were 4 separate MDFs feeding 16 IDFs. The existing copper infrastructure was upgraded to include a fiber optic backbone. To accommodate the increased usage of mobile devices, including laptops, Vicom installed 71 Meru Access Points connected to 2 Meru MC4100 Controllers. Utilizing the Ruggedized external APs, NHREC was able 'light up' external commons areas for the student and staff as well. For network connectivity, Vicom installed and programmed 31 Extreme layer 2 network switches for a total of almost 1000 ports. The reliability of the Extreme switches coupled with the ease of programming using XOS made the creation of the newly needed VLANS a snap.



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VOICE WiFi COMMUNICATIONS TECHNOLOGY

Vicom next addressed the voice communication side of the project. To solve their issues, an Avaya Enterprise class system, running Communications Manager, was installed. The system consisted of 330 IP handsets deployed network wide. There were 2 Avaya S8500 servers contained in 2 G450 Gateways, each with Local Survivable Processors for fault tolerance. The other 2 sites ran on G350 Gateways. It was a true labor of love to see the way the teachers, administrators, and students responded to the new level of technology they now possessed. They are now well positioned for future growth as they continue to expand. Intuity Audix Messaging was installed to integrate with the existing Microsoft Exchange Mail solution giving NHREC a Unified Communications solution.



The next part of the communication need for NHREC was a VoWiFi system designed for demanding workplace environments and customized to ensure optimal mobility and workflow efficiency. The ASCOM i75 solution enabled NHREC to benefit from increased efficiency, productivity and security.

An integral part of the Ascom VoWiFi communications solution, the i75 Messenger handset provides high level of quality communications with other on-site and off-site telephones.

The Ascom i75 Messenger handset improved efficiency, safety and productivity at NHREC

