

Network Projects

2014-2015

Novell removal - Complete

- Novell Zenworks replaced with Microsoft System Center Configuration Manager (Saving est. \$8k/yr)
 - Operating System Deployment
 - Application Deployment
 - Patch Management
 - Power Management
 - Remote Support
 - Anti-virus
- DHCP and DNS migrated to Windows Server (Saving \$2.5k/yr)

Wireless Network - Complete

- Had Aruba Wireless system with 6 controllers and 277 access points.
- Difficult to manage
- 135 access points were below Wireless-N
- Replaced with Ruckus Wireless. Using 2 controllers and 200 enterprise level access points.
- Price for entire Ruckus system was cheaper than replacing 135 Aruba access points.
- Better performance and coverage.
- Savings estimated at \$50k/year

UPS refresh - Current

- Most UPS (battery-backup) systems are 5+ years old.
- Batteries are beginning to fail.
- Some inadequate for load or runtime.
- No central management or monitoring.
- Analyzed each data closet and determined ideal solution.
- Purchased batteries, UPS, management cards, upgraded electrical and re-distributed existing equipment as needed.
- Purchased management server that allows us to monitor, configure and proactively manage UPS.
- Added environmental monitoring in each closet

Wired Network - Ongoing

- Replace end of life switches (~10)
- Re-program switches for consistency and better traffic flow
- Upgrade Firewall and Web Filter for better performance
- Upgrade Internet bandwidth
- Add multicasting to network to reduce traffic from OS-deployment and multimedia streaming.
- Add distribution points and domain servers to each site to reduce traffic over fiber and core switches.

Future Projects

- Account Management – Synchronize staff and student accounts between Skyward, Windows domain and Google Apps
- Improve Help Desk ticketing system and work flow