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Matthew Perez

Network Technician, Campus Technology Services

### Challenge

To provide a durable, reliable, plug and play solution that allows multiple students to connect to the Internet, through a single Ethernet port.

### Solution

920 TRENDnet 8-Port 10/100 Mbps GREENnet™ Switches (Model TE100-S80g) were installed in eight campus residential halls.



**8-Port 10/100 Mbps GREENnet™ Switch**  
TE100-S80g



## TRENDnet GREENnet™ Switches Network University Residence Halls

### The Challenge

The State University of New York at Oswego was founded in 1861 as the Oswego Primary Teachers' Training School in Oswego. In 1913, the campus moved from the city of Oswego to its current lakeside location. Today, the bustling campus stretches almost 700 acres and includes 46 buildings serving over 8,300 students, with 13 residence halls housing over 4,300 students.



In 2011, the University approved plans to update networking infrastructure in campus residence halls. The existing in-room connectivity was old and outdated. Residence hall wiring consisted of Cat-3 cabling with one Ethernet port per room. 10 Mbps hubs were used to patch the connection through a single Ethernet port in rooms shared by up to five students: resulting in extremely slow connection speeds.

The update consisted of two phases. Phase one of the project called to replace outdated in-room hubs with high speed desktop switches: this phase was scheduled to be

completed in June 2011. Phase two required the update of residence hall wiring from Cat-3 to Cat-6, and to offer one port per student, per room, eliminating the need for a hub or switch. The network core was not in need of updating. Phase two was slated to take approximately five years, with plans to revamp two residence halls per year.

### The Solution

Oswego's campus technology services determined a need for 920 high speed desktop switches, to 'hold over' University residence halls during its five year renovation. Matthew Perez, Oswego's managing technician on the project, was familiar with TRENDnet solutions and opted to install 920 TRENDnet 8-Port 10/100 Mbps GREENnet™ Switches (Model TE100-S80g), due to their reliability, durability, cost, and GREENnet™ power saving technology.



In addition to competitive product price, the installation proved



## GREENnet™ Switch



additionally cost effective as the switches are plug and play, and require minimal technical support. Units were simply delivered to the residence halls in June 2011, and arriving students were provided with the TE100-S80G, basic installation instructions, a power supply, and Ethernet access. Campus technicians report only three units experiencing issues throughout the installation, with only one attributed to hardware failure. Renovated residence halls included; Funnelle, Mackin, Onondaga, Oneida, Scales, Seneca, Sheldon, and Waterbury.

TRENDnet switches were also chosen due to their embedded energy efficient GREENnet™ technology. GREENnet™ technology reduces power consumption by an average of 1-2 watts per switch, when compared to a comparable non-GREENnet™ switch. This results in a nominal but significant energy savings when installed throughout residence halls.

### The Result

"The older hubs were very slow and experienced significant drop offs. The TE100-S80G nearly doubled connection speeds within the residence halls.

The units are simple to install, fast, and hold up with students who are typically rough on their environment. The GREENnet™ technology is also a huge plus, as being energy efficient is especially important to students on college campuses. The power saving technology also works in line with Oswego's own green initiatives program.

We have received no negative feedback from students, which we take to mean the switches are performing as expected. We would definitely consider TRENDnet switches for future campus projects."

Matthew Perez

Network Technician, Campus Technology Services

