

IT AWARDS

Nomination Form



APPLICANT INFORMATION	
Name of Project, Application, Initiative, etc.	UCWireless
School	University of the Cumberlands
Individual Nominating	Donnie Grimes
Award for Nomination (please circle one)	Best New Campus Application Best Student Online Service Most Successful IT Infrastructure Project Most Innovative Use of Technology for Instructional Purposes
NOMINEE DESCRIPTION	<p>The UCWireless Infrastructure is a collective of over 300 indoor and outdoor access points located on the University of the Cumberlands campus. While a secured section of the system provides a seamless wireless experience for UC students, faculty, staff, and administration, guest access is also provided through the same controller. The HP ProCurve MSM760 mobility controller and HP ProCurve MSM430 access points provide these features.</p>
JUSTIFICATION FOR AWARD	<p>In the recent past, the wireless infrastructure at our university has been comprised of a variety of access points placed in strategic points inside campus facilities to provide wireless access to certain departments and student areas. While this strategy was useful and helpful in past years, the increase in mobile technologies has provided a need for a better solution. When the first wireless access points were installed at our university ten years ago, one out of every five users had some type of wireless device. In 2010, each user had an average of 2.5 wireless devices. This dramatic shift created a need for a more structured and widespread wireless infrastructure. Not only was coverage a major concern, but density also plays an important factor as well. The UCWireless infrastructure focuses on density that increases the number of wireless devices that can connect in one area. Each classroom on the university campus is fitted with at least one access point that can provide access to up to sixty wireless devices. Along with access points to make indoor facilities completely wireless, outdoor access points have been placed in strategic positions to make outdoor common areas and walkways available for wireless access as well.</p> <p>In order to have a great wireless infrastructure, a great wired infrastructure is required as well. In order to accommodate the new wireless traffic, each building was fitted with one or more gigabit power-over-ethernet (POE) switches to provide network and power to the HP access points. Each switch was then connected at gigabit speed via single-mode fiber to our core switch that provides the backbone for the University's network. The access points were wired back to the switches with new category 6 cabling. The UCWireless network receives and sends traffic over its own virtual local area network (VLAN), which provides both security and quick routing for our users and administrative network.</p> <p>With each of these devices working seamlessly together, a university network user is able to move anywhere on campus while continuing to have constant communication with our university network.</p>

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BENEFITS	<p>The benefits of the system include:</p> <ol style="list-style-type: none"> 1. Provide complete wireless connectivity for our entire university campus. 2. The HP controller provides seamless connectivity and management across the wireless network. 3. Students, faculty, staff, and administration are able to access the network from any indoor or outdoor facility. 4. University guests can connect to a public guest network to gain access to the Internet away from our Intranet. 5. 802.11n standard provides a fast wireless network across a wider area. 6. HP management software notifies IT staff of issues before outages occur to provide better quality of service. 7. Upcoming buildings will be easily fitted with new access points since the controller manages access point configuration.
ADDITIONAL COMMENTS	

Activities relating to the applicant nomination should have occurred during the last 12 months.

You may use additional paper if needed.

Thank you so much for your time and consideration.

The nomination forms can be submitted electronically to me or via mail to the AIKCU office.

All submissions are due by COB August 15.