

# Intelligent Buildings Transform Campus Life

Colleges and universities are adopting a more systematic approach to facilities management that can lower the cost of installation, integration and ongoing building maintenance while gaining the ability to automate functions, centralize services and enhance the education experience.

Historically, colleges and universities have managed separate, proprietary environmental and building controls for each structure on campus. The inefficiencies of these isolated systems and outdated paper-based processes, growing pressure to provide flexible services and the enormous capital investment to retrofit older buildings have forced institutions to seek building and environmental management services that are cost-effective, converged, integrated and interoperable.

## Exploring the Benefits

Cisco offers a facilities management and energy management solution that enables access, analysis and the ability to act on energy and building services data through an intelligent network. Through this approach, colleges and universities can:

- **Reduce the lifecycle costs of a building/campus:** Cisco's intelligent network provides a platform for operational efficiencies, linking campus buildings or multiple campuses into a unified, centrally managed converged system.
- **Streamline building operations:** Using Cisco Connected Real Estate (CRE) solutions, building staff or faculty can report problems through a web portal or IP-based contact center and route work orders to a technician's wireless PDA to quickly resolve temperature complaints, lighting issues, or situations that could affect student safety. Paper-based processes can be eliminated.
- **Lower energy consumption:** Cisco CRE solutions enable better control over energy use through centralized tracking of all energy-powered services, including HVAC systems and lighting controls.
- **Improve campus safety and security:** With Cisco CRE solutions, colleges and universities can keep campus grounds and facilities under constant surveillance, including access control for buildings, residence halls and research centers.

By implementing an intelligent network and converging existing services onto an IP backbone campus network, colleges and universities can streamline manual processes, reduce

paperwork and keep maintenance and management facilities staff more connected and productive. By combining this network with a campuswide wireless LAN, institutions can profoundly change the way they manage facilities, while dramatically cutting costs.

## Understanding Cisco Connected Real Estate

Cisco CRE solutions for higher education consist of a highly secure, resilient, high-speed network backbone running through all buildings on campus, to provide support for environmental and building controls as well as network data, voice and video services. Systems that reduce energy use, for example, enable colleges and universities to access information from any device that consumes energy, analyze the data and act upon the information to continuously lower energy expenses.

Using Cisco CRE solutions, campus personnel can access and manage data on a range of energy-consuming and building service systems. The ability to implement centrally controlled, energy-efficient building management offers great promise for achieving cost and energy reductions.

Many colleges and universities have already added Energy Star systems and are investigating alternate energy systems, such as solar, wind or geothermal solutions. Cisco CRE solutions offer an integrated approach to energy management that enables access, analysis and the ability to act on energy data through an intelligent network.

By harnessing the power of their IP network, colleges and universities can leverage the intelligence of campus facilities in many ways. Imagine bathroom fixtures that alert maintenance staff when there's a need for more paper towels or soap. Or in the event of an emergency, centrally controlled systems automatically open and close doors, provide information by digital messaging and media systems about the best evacuation route and alert local police or fire agencies to situations as they unfold.

Cisco offers comprehensive networking as well as voice, video, data and mobility solutions, coupled with the highest-rated service and support in the industry. When modernizing an existing campus or facility, Cisco CRE solutions connect all buildings to the power of the Internet. With Cisco technology, colleges and universities can improve security, reduce energy use to help manage operating costs, and create new amenities that will transform campus life for students and faculty.



For more information, please visit

[www.cisco.com/web/strategy/education/CCRE.html](http://www.cisco.com/web/strategy/education/CCRE.html),  
or call (866) 899-0184.