



Wireless for Higher Education: Empower Students, Gain Efficiencies



With backpacks filled with smartphones, gaming devices as well as tablet and laptop computers, students at today's colleges and universities depend on wireless connectivity. This world without wires is rich with opportunities. It means that on-the-go students, faculty, and administrators connect to information in real time, interact with one another using a variety of communication devices, and extend the learning environment from the classroom to dorms, student union centers, research facilities, stadiums, and beyond. However, this new freedom makes new demands on college and university networks, which must adapt to accommodate this unprecedented influx of users, devices, and applications—all for the betterment of education.

New Demands, Novel Solutions

Although the deluge of users, devices, and applications comes at a time when ongoing budget cuts and overloaded IT resources are already causing strain, colleges and universities remain steadfast in meeting their goals. By turning to Cisco® Mobility and Wireless Solutions, higher education institutions are taking advantage of the investment made in wired networking, while transforming their existing infrastructure into a secure, versatile environment that promotes the success of a new generation of learners by realizing all their connectivity needs.

By deploying Cisco Mobility and Wireless Solutions for Higher Education on a Unified Access Network, your institution can bring the network to locations where traditional wired connections cannot reach—and do it easily and cost-effectively. These flexible solutions allow you to:

- Meet campus mobility demands by putting students, faculty, staff, administrators, and campus assets in motion
- Deliver integrated mobility applications through an open, extensible wireless networking platform
- Provide ubiquitous network access anytime, anywhere, indoors and outdoors—without the need for cabling
- Make network management, including adds, moves, and changes, easier and more cost-effective
- Simplify tools to support the wave of new mobile devices arriving on campus, some of which are 100-percent wireless (with no wired port)

Questions to Consider

- How can you address the proliferation of mobile devices and applications on your network?
- How can you determine and control who, what, when, where, and how users and devices access your network?
- How can you monitor users and devices regardless of how they connect or where they are located on your network?
- How can you ensure a consistent, reliable user experience no matter how, when, or where they connect to your network?
- How can you support a broad set of use cases while having the peace of mind that your network will scale easily and affordably in response to demand?

Cisco Mobility and Wireless Solutions for Higher Education give students and staff the freedom to be anywhere on campus and still perform all the tasks they would normally do on a classroom's wired network. The solutions enable new network connections to laptops, smartphones, printers, cameras, interactive whiteboards, and other devices, making campus resources more widely available and improving collaboration among students, faculty, administrators, and visitors such as guest lecturers.

Overview of Cisco Mobility and Wireless Solutions for Higher Education

Cisco Mobility and Wireless Solutions for Higher Education are flexible and support many of your initiatives, with added focus on the following three areas:

- **Safety and security:** Maintaining safe buildings and grounds while keeping the network secure is critical. With Cisco Safety and Security Mobility and Wireless Solutions, your institution can enhance physical campus security, track assets, protect the network, and prevent unauthorized network access.
- **Administration and operations:** Delivering quick and cost-effective broadband access improves campus operations, collaboration, and productivity. With Cisco Administration and Operations Mobility and Wireless Solutions, you can support secure, reliable network access to voice, video, and data applications for students, faculty, administrators, staff, and visitors as they roam the campus.
- **21st century teaching and learning:** Facilitating teaching and learning means giving students and professors the right tools at the right time. With Cisco 21st Century Teaching and Learning Mobility and Wireless Solutions, you can provide a solid, robust foundation for next-generation education using web-enabled tools, social networking, context-based applications, and more.

Each of the above offerings builds on the Cisco Unified Access Network to deliver innovative solutions that meet the unique mobility requirements of colleges and universities.

With Wireless, Opportunities Are Limitless

With Cisco Mobility and Wireless Solutions for Higher Education, you can bring your IP network to more users throughout the campus environment while improving safety and security, administration and operations, as well as 21st century teaching and learning. Here are just a few examples:

- Maintain safe buildings and grounds by using the wireless network to assist with monitoring of behavior and receiving alerts about unauthorized activities or events.
- Protect confidential data and keep wireless transmissions secure from wireless attacks, unauthorized access, rogue devices, and malicious intruders.
- Improve faculty and administrator access to resources such as administration and learning tools, research information, and email.
- Support bandwidth-intensive applications such as video streaming, video-on-demand, gaming, and multimedia for use in research, learning, virtual environments, and social networking.
- Deliver a better end-user experience in areas with dense wireless usage such as lecture halls, auditoriums, open spaces, and social areas.
- Save money with Wi-Fi-enabled services that automatically manage campus resources and assets.
- Support green initiatives, improve energy efficiency, and create smart buildings through improved real estate management.
- Improve learning, enhance the campus experience, and better prepare students for entry into the workforce.

“Our reliable, high-performance Cisco 802.11n wireless network enables us to create the most innovative academic experience possible, improving students’ learning today and ensuring their professional success in the future.”

--Scott Ksander, Executive Director of IT Networks and Security, Purdue University

For the full story, visit: http://www.cisco.com/en/US/prod/collateral/wireless/ps5755/ps6301/ps6305/case_study_c36-569525.pdf

Why Cisco?

Cisco has a proven heritage of leadership and innovation in wireless networking, as a market share and innovation leader for 10+ years (largest WLAN patent portfolio in the industry), 77% of Fortune 1000 have installed Cisco 802.11n, and 93% of Fortune 1000 use Cisco WLAN.

Cisco Capital financing is uniquely positioned to assist our education customers. By creating innovative, flexible financing, Cisco Capital bridges the gap between education technology requirements and budget availability, to assist in obtaining the products and services that colleges and universities need today. For more information, visit: <http://www.cisco.com/web/ordering/ciscocapital/cf/na/goved.html>

Moreover, Cisco is recognized throughout colleges and universities worldwide for its:

- Leadership in LAN, WLAN, and VPN technology, offering unique expertise in delivering a unified access network that cost-effectively and easily scales
- End-to-end network architecture, with layers of built-in, airtight security, extending from the wired to the wireless network
- Breadth and depth of the Cisco product line that can adapt and accommodate to more use cases than any other portfolio in the industry
- Global community of trained and certified partners
- Renowned service and support





Get Connected Today

Cisco will work with you to transform your higher education institution's campus into a dynamic instructional environment that empowers students, faculty, administrators, and staff to stay continuously connected to vital resources. For more information about how to elevate the academic experience through mobility, call a Cisco representative or Cisco Certified Partner, or visit:

<http://www.cisco.com/go/education>



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