AVAYA

Engage **The Power of We**™

Maximizing the Mobile Learning Experience on Campus with Avaya

In classrooms and across campus, the digital revolution is upon us. To enable mobile learning, school districts and higher education institutions are putting their trust in Avaya.

Teachers and faculty are leveraging digital and multimedia content at unprecedented levels. It is transforming how students learn and engage in projects while fostering a more individualized and collaborative learning experience. Textbooks may soon give way to students using their mobile computing devices to access the most up-to-date educational content and curriculum.

This means more and more wireless devices like netbooks, laptops, iPhone and Android devices in addition to iPad and other tablets will be invading campuses. Initiatives like one-to-one computing and district policies that allow students to use their own computing device on campus—often referred to as Bring Your Own Device (BYOD)—will only solidify this trend.

As more and more devices connect on campus, it can create unintended consequences. According to the Center for Digital Education (CDE) Tech Briefing 2013, 78% of students and 83% of faculty and staff bring a personal device to class and use the campus network. And with some forward-thinking schools anticipating as many as four devices per student, it is important to carefully consider the implications these devices have on the network.

Ill prepared schools with inadequate networks for one-to-one computing and BYOD may experience inconsistent wireless coverage in schools and classrooms, failed connections to student devices, staggered performance when accessing media rich content and unmanaged student network access. As a result, teachers, faculty and students can become frustrated with the added delays. Inadequate wireless systems can lead to the failure of a day's lesson plan as well as pose a serious security risk for the school or institution.

Some institutions, looking to enhance learning by supporting greater collaboration, are finding their legacy wireless LAN unable to run real-time applications like voice and video-on-demand. Others desperately need an easier way to handle the growing volume—which

can be exponential—of students, teachers, faculty, and staff that require access and authentication to the campus network every day.

As a trusted partner to more than 5,000 educational institutions globally, Avaya understands the unique challenges schools and institutions face today.

Maximizing the Mobile Learning Experience with Avaya

As a trusted partner to more than 5,000 educational institutions globally, Avaya understands these unique challenges. Avaya offers schools and institutions a technology strategy that can:

- Handle the explosive growth of consumer devices coming onto campus

- Meet the stringent requirements a mobile learning curricula demands, including the support of real time applications such as voice and video-on-demand

- Manage who accesses the network; when, where and how it is accessed; and which devices to allow onto the network

Optimizing the Mobile Learning Solution for Education

To satisfy the explosive growth of mobile devices within schools, Avaya offers a mobile learning solution that consists of the Avaya Wireless LAN 9100 Series, and Avaya Identity Engines.

Avaya Wireless LAN 9100 Series

The Avaya WLAN 9100 Series is a next generation, controller-less, 802.11ac solution purposely designed for the needs of today's schools and campuses. It delivers wired-like performance and predictability to mobile users by putting your mobile learning applications, such as eBlackboard, first. Providing application-level visibility and control, it helps ensure your wireless network delivers uncompromised access to the applications and services your teachers value most—and is not

crippled by the bandwidth-hogging personal applications of your students.

Avaya WLAN 9100 Series is very cost effective, offering a wide range of solutions designed to cover every need. It offers an integrated architecture, where everything needed for a high-performance wireless LAN that helps mitigate risk is built directly into each wireless access point, reducing equipment requirements and costs. It offers a range of different indoor and outdoor Access Points (2x2, 3x3, 802.11n and 802.11ac) to accommodate different deployment requirements. The Avaya WLAN Orchestration System provides full monitoring and management of the Avaya WLAN 9100 Series network via a web based application with graphical map views.

Key benefits of Avaya WLAN solution for education include:

- A future proofed wireless network: With Avaya WLAN 9100, you can start with 802.11n and upgrade to 802.11ac when you are ready via a simple software upgrade. There is no need to send out a technician to swap out access points.

- Up to 70% more bandwidth*: Avaya WLAN 9100 has software programmable radios allowing you to customize your APs depending on your client environment.

Avaya WLAN Indoor Access Point

Avaya WLAN Outdoor Access Point

Avaya WLAN Orchestration System

² Miercom WLAN Lab Test Summary Report. September 2011. Report #110919.

- Ease of deployment and simplified operations: Zero touch provisioning across the entire wired and wireless network

- Identify and prioritize critical education applications over others: With Avaya WLAN 9100 you can restrict students access to social media applications during school hours, preserving Wi-Fi bandwidth for your mobile learning applications

- Adopt BYOD and 1:1 programs in confidence with the assurance that you are in control of applications & devices

- Speed up and simplify onboarding new student and staff BYOD devices with full-featured access management

- Cloud Management (mid 2015): In addition to on-premise management, Avaya WLAN 9100 offers cloud-based management to reduce the demands on IT administrators and allow your wireless network to be deployed and administered quickly and easily

Avaya Identity Engines

The Avaya Identity Engines portfolio is a vendor-agnostic identity and network access system that allows school districts and higher education institutions to centrally manage network access based on information available in the school's existing directories. The system authenticates and authorizes individual users, guests and devices over a wide range of role-based access options, and provides reporting on all network services usage.

The system checks an individual's identity against an identity store, and performs a device health check to confirm the laptop or device complies with the health policy. Once complete, the system will grant the individual access—based on their pre-determined role—to only the portion of the school network for which they have been authorized.
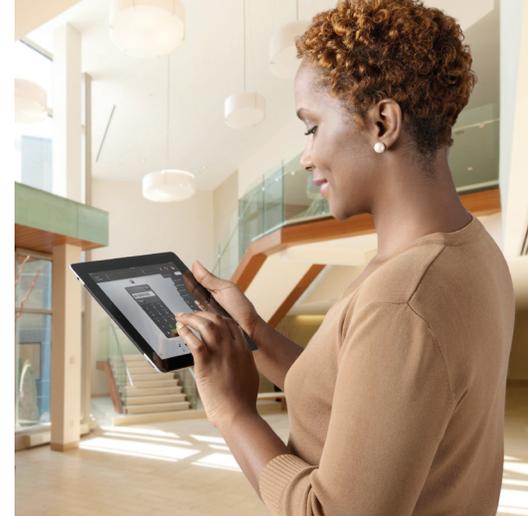
Avaya Flare® Communicator on Apple iPad

Learn More

Let Avaya help enable your mobile learning initiative. We are ready to help you build a campus that is more mobile and connected.

For more information about Avaya Solutions for Education, contact your Avaya Account Manager or a member of the Avaya Authorized Partner program, speak with an Avaya representative by dialing the toll free number **1-855-227-4919**, or visit **www.avaya.com/education**.

The Avaya mobile learning solution can help satisfy the explosive growth of mobile devices within schools and on campus.

Avaya Application Control provides assurance that educational applications are not compromised by recreational applications

*70% more bandwidth is based on the following: Competition: Industry-standard 802.11ac, 3x3 AP: Radio 1 = 225Mbps (2.4GHz); Radio 2 = 1.3Gbps (5GHz) = Max Bandwidth = 1.525Gbps. In Contrast: Avaya 802.11ac, 3x3 AP: Radio 1 =1.3 Gbps (5Ghz) and Radio 2 (5GHz) = 1.3 Gbps = Max bandwidth = 2.6 Gbps)

About Avaya

Avaya is a leading, global provider of customer and team engagement solutions and services available in a variety of flexible on-premise and cloud deployment options. Avaya's fabric-based networking solutions help simplify and accelerate the deployment of business critical applications and services. For more information, please visit **www.avaya.com.**