



**IMPLEMENT A BYOD INITIATIVE THAT PROVIDES SECURE ACCESS FOR ALL**

# SECURE ACCESS IN K-12 AND HIGHER EDUCATION

Wi-Fi™ is the default network access for educational institutions. Both higher education and K-12 are experiencing an explosion of Wi-Fi devices across campus and in classrooms. Surveys have found that college bound students are bringing three to four Wi-Fi devices to campus. A college campus of 25,000 students can expect to see over 75,000 devices attaching to their wireless LAN. Higher education campuses everywhere are planning bring your own device (BYOD) initiatives to help alleviate the demands on the IT staff.

K-12 schools and districts are moving to digital textbooks to lower cost and they need to put technology in the hands of students to access the content, engage them with a personalized learning experience and enable online assessment. Though some schools are issuing devices to students, many schools are rolling out BYOD initiatives, which allow students to use their own device in one-to-one computing programs, while overcoming budget challenges.

In both of these scenarios, the BYOD solution has to be easy to deploy and easy for the student to connect. However schools also require the connection to be secure. Universities, colleges and school districts are using 802.1x and WPA2 to provide the greatest levels of security for their students, so any BYOD solution has to simplify setting the device up for the best security.

To address these challenges, Motorola has introduced Secure Access Wizard and Enrollment Server to deliver a comprehensive BYOD solution that solves the most demanding mixed device environments in education. The solution provides simple registration with 802.1x and WPA2, securely on-boards a diverse collection of mobile devices, while ensuring they all behave properly without negatively impacting all users.

## OVERCOMING DENSITY AND DIVERSITY

One thing is for sure, the number and type of Wi-Fi devices entering schools will only continue to increase as students depend more on mobile devices for access to digital textbooks and on-line resources. The underlying wireless LAN forms the critical conduit between the student devices and the on-line resources.

Motorola's WiNG 5 Wireless LAN architecture increases the client density per radio, directly addressing dense user environments found on university campuses and in 1:1 computing classrooms. Motorola's WiNG 5 distributes intelligence to the access points, delivering exceptional real-time response for video, audio and

## SOLUTION BRIEF

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voice, while supporting high density of diverse devices and applications simultaneously. WiNG 5 also increases network resilience and reliability by eliminating the bottlenecks and single point of failures found with centralized controllers.

As student owned devices access the network, the volume of these devices not only creates density challenges, which is addressed by WiNG 5, but it also dictates that these devices are no longer be treated as security policy exceptions and instead allowed onto the unsecured wireless network. Therefore, they must be provisioned for the secure wireless network as simply, quickly, and securely as possible without IT involvement. This challenge is amplified by the diverse mix of school-issued and student-owned devices representing a variety of form factors and operating systems.

## MOTOROLA'S SECURE ACCESS

Motorola's Secure Access on-boarding solution brings standards-based security to diverse and unmanaged environments in a manner that is scalable and sustainable. From one-to-one initiatives in K-12 to student populations at major universities, Motorola's Secure Access BYOD solution is highly scalable and enables standards-based security in the most challenging environments.

With Motorola's Secure Access solution, school issued, student-owned and teacher-owned devices are quickly connected to the secure wireless network in a foolproof manner. It supports all common devices, Android, IOS and Microsoft while differentiating the same user on multiple devices and ensuring appropriate provisioning. At the same time, the IT learning curve associated with security and new devices is reduced.

Most higher education students today have social media accounts and would prefer to use their existing credentials as opposed to creating new ones for campus access. Motorola's Secure Access allows users to authenticate using their Facebook, Google or LinkedIn accounts. This capability further simplifies connecting for the first time.

Motorola's Secure Access Solution brings both a consistent management experience and a consistent user experience to a very inconsistent landscape and is ready to assist with almost any device a student or teacher may throw at it.

Key Features for Education Environments include:

- Support for widest selection of laptops, phones, tablet devices and smartphones.
- Allows use of Facebook, Google and LinkedIn authentication.
- Self-service or IT-driven options.
- Enable differentiated access between IT-issued and BYOD devices.
- Provide predictable, fool-proof assistance during the initial on-ramping as well as any time that wireless does not behave as expected.
- Built to endure the wild, wild-west of student environments with built-in smarts to resolve common issues affecting wireless on a variety of platforms.
- Builds upon native wireless managers and supplicants, allowing successful network connectivity that is minimally invasive.

The combination of Motorola Solutions WiNG 5 Wireless LAN and Secure Access solution addresses the challenging problems of deploying a secure Bring Your Own Device initiative for higher education and K-12s, with the flexibility you expect from an industry innovator and leader. Motorola's WiNG5 provides the robust wireless infrastructure to support many devices and users, while Secure Access provides a simple, quick and easy way to provision those devices onto the secure wireless network.

## ABOUT MOTOROLA SOLUTIONS

Motorola Solutions is a leading provider of mission-critical communication products and services for enterprise and government customers. Through leading-edge innovation and communications technology, it is a global leader that enables its customers to be their best in the moments that matter. To learn more, visit [www.motorolasolutions.com](http://www.motorolasolutions.com).

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