Reliable connectivity

In order to deliver access to educational information anytime, anywhere, key campus buildings — common areas, classrooms, and libraries — need more network connectivity to accommodate the increasingly popular "bring your own device" (BYOD) trend affecting both pupils and faculty. As this trend grows, high-speed and high-density data and video streaming from mobile devices threaten to negatively impact Wi-Fi user experiences in campus.

School Wi-Fi Expert

Taking advantage of the latest 802.11ac technology, Zyxel offers an assortment of managed access point series featuring innovative technology, such as smart antenna (WAC6500 series) and dual-optimized antenna (WAC6103D-I). Smart antenna APs provide the best possible performance by shaping their signals to various patterns while also overcoming interference from other APs. Dual-optimized antenna APs can be deployed in a variety of ways with both wall and ceiling mounts, as well as by providing adjustable antenna patterns. All of these managed APs deliver smooth, consistent, and uninterrupted Wi-Fi connectivity for high-density venues like lecture halls and other public areas on campus.
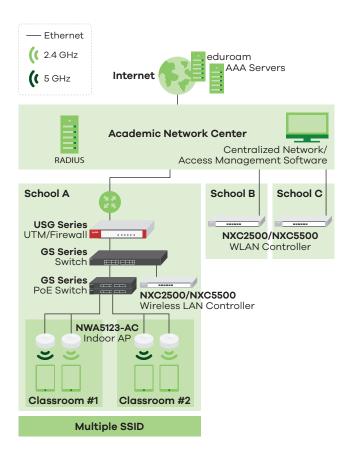
Flexible and Scalable WLAN Management

As demand for wireless connectivity in education continues to grow, so too will the number of APs on campuses. And with this growth come new and varied management challenges to be faced by administrators. Zyxel's AP Controller (APC) technology allows centralized management of multiple APs for easy deployment and scalable expansion. APC technology features Wi-Fi bandwidth management, user-centric access control, and RF management. It also optimizes WLAN performance and delivers always-on Wi-Fi connectivity. Zyxel not only provides stand-alone NXC WLAN controllers, but also security gateway products that can act as an APC. Now, APCs can be flexibly deployed to meet different network needs, onsite or offsite.
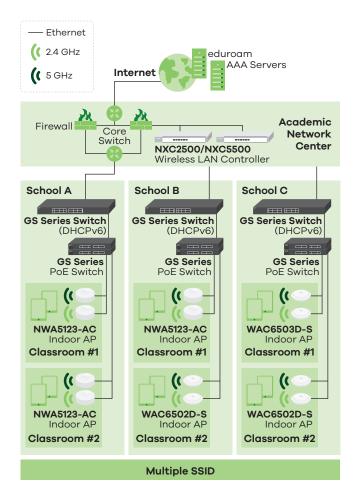
Onsite Controller Model:

• Controller placed in each school.
• APs are managed by onsite controller in each school.

Offsite Model:

• Controller placed in academic network center.
• APs in each school are centrally managed by offsite controller in academic network center.

Efficient PoE Deployment

Zyxel's PoE switches support the IEEE 802.3at standard and are equipped with high power budget to easily accommodate power-hungry devices such as the latest 802.11ac access points. In addition, Zyxel fully managed

PoE switches feature PoE scheduling to supply power to devices only during school hours, saving energy and money while preventing improper use of school network resources.