



KBC WES Mesh Keeps University Students Safe

Wireless Campus Surveillance System

Background

A major California university with more than 20,000 students was in need of a robust campus surveillance system. Not only did the university want to monitor key student-centric locations across its 175-acre campus to help maintain student safety, but it also sought to ensure and a healthy learning environment for its growing enrollment.

The Challenge

The primary goal was to implement a wireless system that could effectively cover key sections of the sprawling campus and, at the same time, transmit data from two NVRs at separate libraries back to the campus security office.

Additionally, the university was in the process of moving the campus police dispatch office to a new location, which added another element of complexity to an already congested wireless environment.

The Solution

A mesh system utilizing both 900MHz and 5GHz frequencies was implemented, with 900MHz mesh nodes servicing student areas where existing access points used 2.4GHz bands, coupled with 5GHz nodes for back haul to the campus police dispatch office.

Despite having to contend with a transmission environment where literally thousands of devices were clogging available wireless frequencies, KBC's wireless mesh nodes, leveraging the 900MHz frequency to combat line-of-sight challenges, were well up to the task.

Outcome

Since the completion of the project's initial phase, the university has reported improved incident response times and a gradual decline in the number of incidents overall.

The university has also expanded the mesh system in subsequent project phases and continues to work with KBC to refine and enhance the system's capabilities.



KBC mesh delivers robust wireless connectivity in congested campus environments.