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Enhancing Student Safety

With a Fiber Deep Network

K-12 Campus: Southeastern USA

Background

- Private K-12 school of approximately 600 students.
- Campus containing three two-story buildings with more than 25 classrooms, a cafeteria, libraries, a gymnasium, and a chapel.
- Security camera system was needed.

Meet the Project Leads

- *Jamie*, headmaster, responsible for budgetary decision-making.
- *Marie*, office and security manager, oversees building and security access.
- *Will*, facilities manager, responsible for maintaining and upgrading network infrastructure.



Challenge

Leaders at this private K-12 school needed to update their network to provide enhanced security to students, with no interference with daily classroom activities. They wanted to centrally manage and power multiple cameras across the campus, while working within the existing restrictive telecom infrastructure. Closets were not available for many of the longer camera runs, making centralized powering an essential part of the solution.

Meeting the End Users' Needs

- Upgraded indoor/outdoor security system.
- Coverage of an indoor/outdoor environment across long distances.
- One closet limit per building to service all campus connectivity.
- Limited cable runs due to crowded ceiling pathways.

Solution

Using the Corning® Optical Network Evolution (ONE™) SD-LAN Solutions, the school was able to leverage composite cables to reach security cameras across the campus. With this approach, the network delivered services over twice as far as traditional copper methods, reaching more than 1,000 ft instead of 300 ft. Composite cabling further allowed for remote powering of cameras.

The flexibility of the SD-LAN solution also allowed for Wi-Fi access points to be added in locations previously unserved due to the distance limitations of traditional networking cables. With this approach, the school was able to use one software-defined access node (SDAN) to serve multiple cameras and wireless access points, reducing cabling requirements.

In the end, the school was able to successfully upgrade its network, enhancing the security of its students without disruption to classroom activities.

 See What's Possible in Your Network

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