VIDEO SURVEILLANCE SOLUTION FOR METRO COLLEGE CAMPUS

ANIXTER®

SUMMARY

Customer
College with multiple campuses

Challenge
Deploy a full IP surveillance solution

Solution
Supply Chain Solutions

Benefits
- One network serving 750 cameras
- Preconfigured products for easy installation
- Single-solution delivery

> With two engineers working on site, the integrator estimated that Anixter's Supply Chain Solutions saved it up to four weeks on the first phase.

Customer Overview

A college in the U.K. with 10 campuses distributed through an urban area was created in 2009 as a result of a merger of two other colleges. When merged, the new college has a combined student population of 27,000, which makes it one of the largest educational institutions in the U.K.

As a result of this merger, the campus wanted to improve its security surveillance system. A new robust security system would reduce the need for 24-hour security guards on its larger sites and improve the protection on smaller campuses that had no security guards after hours. The college wanted a full IP solution with control room to tie in the video from the surveillance cameras. The first phase of the project called for 450 cameras or encoders to be installed on eight of its campuses.

Anixter Solution

The college turned to Anixter to help with the technical and deployment aspects of the video surveillance network. With approximately 200 existing analog cameras spread across its campuses, the college wanted to preserve its existing investment while building a future-ready system. Every new camera would be IP, so the college needed a solution that could blend the two technologies. Anixter's technical experts met with the college and a local integrator to develop a solution and provide product recommendation. From these discussions, Anixter suggested its ipAssured℠ for Video Migration program.

By recommending a complete solution that includes the infrastructure, switching, cabinets, UPSs, servers, VMS, cameras, analytics, VoIP audio and the control room, Anixter's ipAssured for Network Video Migration helps to migrate the existing analog cameras to an IP network while extending the life cycle and maintaining the existing investment. The encoders convert the analog signal to IP and transmit the data over the existing coax cables by using Ethernet over coax converters. Anixter also suggested replacing much of the existing coax cabling with twisted-pair cabling to extend the life of the system.

- Cameras: Anixter programmed the IP addresses, user names and passwords; updated the firmware; conducted DOA testing; labeled where appropriate; and added patch leads and fixes into housings.

- Switches: Anixter programmed the IP addresses, conducted DOA testing, added labels and updated the firmware.

- Cabinets: Anixter installed patch panels and cable management.

- Servers: Anixter specified performance requirements for the servers, updated operating systems, installed the VMA, configured the video channels and storage arrays and conducted DOA testing.

- Wireless: Anixter programmed the IP addresses, updated the firmware, conducted DOA testing, and configured and enabled encryption.

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Project Results

The first phase of the project only took five months to deploy. With two engineers working on site, the integrator estimated that Anixter's Supply Chain Solutions saved it up to four weeks on the first phase. Anixter's Supply Chain Solutions provided all the products the integrator needed to complete the installation delivered as one solution with one part number. Instead of having items locally stored and then having to configure them on site, the integrator was able to focus on installing the surveillance system and making sure that
it worked to the customer's specification.

The system now has nearly 750 cameras with 18 servers, 12 viewing workstations and a control room with four 42-inch monitors and two 24-inch monitors that allow for viewing of all the surveillance cameras at each location. Event alerts and audio challenges made via VoIP as well as calls to the mobile security patrols can be made at the control room. Approximately 100 of the external cameras use video analytics for perimeter detection. There are also intruder, fire and PA alarm events linked via IP.

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