



Success Story

Irvine Valley College

Introduction

Irvine Valley College (IVC) is a community college that serves over 15,000 students each year located in Irvine, California south of Los Angeles. The campus spans over 100 acres and has a dynamic and diverse student population. As is the case with many community colleges, IVC is an open college campus that invites general public visitors as well as the campus community to come and go as they please to and from the property.

The Challenge

Open campuses attract pedestrian traffic and vehicle traffic from off campus, making it difficult to set up and control anything close to a secure perimeter.

This opportunity often turns criminal and is exploited with car break ins, hit and runs, bicycle theft and personal assault. Video security is a powerful tool and one the IVC Police Department used, however many of the trouble spots are outdoors in secluded areas. Parking lots being a specific trouble spot and one that most often had zero fiber or cable connectivity. Other outside areas such as parks and plazas also lack power and connectivity, be it fiber or cable, necessary for video cameras.

Running new fiber even when the disruption associated with trenching was viable, was still very expensive and not in the budget. The school, specifically the campus police, were searching for a way to expand the video security network, do it quickly, and do it at a cost they could afford.

Solution

The school reached out to Rob Clement from Blue Violet Networks, a security systems integrator whom they had worked with in the past, for assistance. Blue Violet Networks has deployed numerous video security networks with conditions and restrictions very similar to those facing IVC.

After careful consideration of the performance requirements (high capacity, low latency) Blue Violet recommended the school deploy a 60GHz wireless network, and specifically Siklu 60GHz wireless systems. The 60GHz band was chosen partly to ensure no interference issues common with 5GHz outdoor networks, as well as providing a multi-gigabit network that could handle future expansion of cameras and/or applications.

Each Avigilon 20C-H4A-4MH-360 20MP multisensor camera that was connected needed 35Mbps to 50Mbps and a total of 19 were brought online using Siklu's Multihaul™ radios. These radios not only have the high capacity and low latency needed, but they allow for auto alignment meaning installation is as simple as it gets, and the system will last for years. Feeding the video data into the IVC PD security center the Avigilon Control Center 7 video management system provided powerful, centralized control of the network.



Result

The wireless portion of the video security network went live in the summer of 2019 and IVC PD immediately saw a drop in crime which led directly to lower insurance premiums.

By realizing over \$400k in savings when compared to laying fiber, the school is able to deploy more cameras and cover a larger percentage of the campus. All of this in turn gives students and teachers a greater sense of safety and comfort allowing the school to do what it is meant to do – educate and prepare students for success.

“The system was installed quickly with minimal disruption to our day to day job of educating and keeping the student population safe. Performance has been phenomenal and we expect to expand both the number of cameras as well as the security applications running on the network in the future.”

Scott Kennedy
Chief of Police