

Decreasing the Real-Time Security Monitoring and Investigations Costs of your Security Program

Campus security has historically been a challenge for organizations with distributed facilities. Managing security across a large area of land with multiple buildings requires security teams to address challenges not common in single-site environments.

The Business Challenge

A Vintra customer with a large campus environment shared some insights on how they are using and plan to use Vintra's AI-powered video analytics to improve their situational awareness and operational efficiency across their campus. The main facility occupies over 50 acres, with multiple buildings and parking lots.

Each building has anywhere from 20 to over 100 cameras, each of which are connected to a VMS and the Vintra appliance localized within the facility. Their security operation consists of security professionals in a real-time monitoring location near the campus, complimented by a number of officers in private patrol vehicles that perform continuous tours of the campus, responding to events and providing in-person response where needed.

Security supervisors were seeing an increase in average time to close out investigative cases linked to reports of theft, vandalism and harassment of personnel. This increase in response time was attributed to the growing number of security cameras being deployed at the campus, and the inability of their VMS platform to allow investigators to run quick video searches that correlated to eyewitness reports, such as "man with a blue shirt" or "blue pickup truck leaving via the north parking lot exit."

End-User Needs

The security director needed to reduce time spent on investigations as well as move to a proactive monitoring stance to help prevent these incidents. Operators needed to be able to search video and get immediate results, ideally being able to locate suspects while they were still on campus or in the immediate vicinity.



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The Vintra Solution

Vintra's AI-powered video analytics platform enabled this customer to:

- Scale strategically without adding additional headcount
- Decrease the amount of investigatory time to uncover insights and increase case closure rates
- Address new safety and security use cases in a more-rapid fashion
- Easily balance both security and data privacy of their employees
- Eliminate the need for additional client software on operator workstations



Vintra's Re-Identification Technology

Vintra's Re-ID feature enabled security operators to search for a person of interest or vehicle across recorded video on multiple cameras based on a unique visual fingerprint. This technology enables users to re-identify a person of interest (POI) without the use of traditionally identifiable inputs. In addition, the Vintra platform does not need a face as a reference to re-identify someone. Additionally, when searching for a similar vehicle, no license plate is required.

Putting Re-ID to the Test

In one particular situation, an intruder had gained access to the main building on campus and traveled to several different floors trying to gain access to restricted-access areas on those floors. Using Re-ID, our customer was able to quickly assess the journey of that POI, the latest location of the intruder and quickly rule out any breach to secured areas.

As our customer was running their investigation, they were also interested in where the intruder had not gone. The lead investigator was able to establish a timeline of exactly where the POI had gone and in what order and when they left the campus. While mapping the journey the investigator was able to create a POI profile by capturing multiple angles of the person's face and adding it to a BOLO list for future alerting.

HTML Client and API Keys to Success

Like many modern security organizations, those who rely on and use Vintra Fortify are not always behind a PC with a thick client. Though the Vintra platform was integrated with the VMS used on the campus, the HTML5 client interface allows security personnel to also access the system via tablets and mobile computers in rover vehicles. As a result, security personnel are able to receive alerts in real time, or to perform a search in real time to find to where a person or vehicle of interest or an event in progress may have moved.

Business Outcomes

As overall situational awareness improved, the campus security director was able to take advantage of Vintra Fortify's rules and real-time alerts functionality to create proactive notifications in their VMS. These alerts included notification of persons in defined areas at particular times, such as late-hours activity in parking garages that would normally be empty, and the notification of vehicles in unauthorized parking areas or controlled parking spaces.

By linking their surveillance cameras to Vintra, all video is indexed in real time, allowing investigators to initiate searches immediately upon receiving reports of an incident, without having to wait for video export and import processes, or waiting for software to analyze selected video clips.

This enabled security operators to react in real time, which led to an increase in suspect apprehension and the ability to gather additional relevant details quickly. It also helped to decrease their case closure time – Vintra customers typically experience a 75% reduction in video investigation time.

Security supervisors are anticipating two things to happen based on initial data:

1. Operators will have additional time during their shift to perform additional tasks; and
2. Faster case closure rates allow supervisors to become more aware of problem areas and days and times when certain kinds of incidents are most likely to occur.

As a result, security supervisors were able to better direct officers in rover vehicles to problematic areas, and investigators were able to spend more of their time doing proactive monitoring to help further reduce these incidents, providing a higher level of security for those on the campus.



Ongoing Expansion

Our customer indicated that system expansions are easy to budget for and allow for more predictable resource allocations in the security organization, allowing them more time to focus on their core objectives of securing the campus facilities and personnel.

The customer is planning to use Vintra's API to perform some additional investigation automation, including uploading video clips coming from body-worn cameras, or from people on the campus that filmed an event with a mobile phone or similar device. While these functions are available in the HTML5 user interface, automation via API calls allow for a more complete integration with existing tools and processes already in use by campus security personnel.

Conclusion

Video analytics are practically a necessity for organizations dealing with a large number of cameras and a combination of event-driven response, and post-event investigation duties. Vintra's solutions cover both event-driven response and investigative search, utilizing AI-powered technology that allows the system to scale easily to large campuses and distributed environments.

Features like intelligent alarms and Re-ID empower security operations teams to increase security and efficiency with a single video analytics solution that can work with their existing cameras and security infrastructure.



“Vintra is easy to deploy with no cloud connectivity required. It passed all our network security audits, reducing the time my team needed to spend on installing and supporting these devices for our security organization.”

- IT Director, Enterprise Customer,
San Francisco, CA

For more information and to schedule a demo, please visit vintra.io.

