AGENT Vi

Case Study

Agent Vi Cuts Investigation Times and Enhances Security at Tulsa University

Product:
Video Search & Real-Time Event Detection

Application:
Security & Business Intelligence

Customer: The University of Tulsa

Location: Tulsa, Oklahoma

Vertical Market: Education

Agent Vi Partners:
Axis Communications – Cameras
OnSSI – Video Management Software (VMS)
JTI Security – Certified Systems Integrator

Challenge

Founded over 120 years ago, the University of Tulsa (TU) offers over 100 undergraduate, graduate and doctoral programs to nearly 5,000 students. With multiple buildings and facilities across the campus, TU sought a surveillance solution to monitor key areas and protect valuable artwork, among other assets. The security team wanted the ability to search quickly through recorded video to identify events of interest.

Solution

Systems integrator JTI Security deployed Agent Vi's Real-Time Event Detection and Video Search software at TU. Over 400 network cameras from Axis Communications are employed across the campus. The AXIS P33 Network Camera Series (fixed domes) and AXIS P55 PTZ Dome Network Camera Series are used, as well as some analog cameras connected to Axis video encoders. All the cameras feed to a central dispatch room manned 24/7 by security operators.

Agent Vi's Video Search capabilities are enabled on every IP camera at the site, and Agent Vi's Real-Time Event Detection capabilities are enabled on cameras in sensitive areas. Real-time detection rules defined on such cameras include:

- **Asset protection** to alert to removal of valuable artwork from the buildings' walls;
- **Suspicious object** to alert to suspicious objects left behind and potential safety hazards to students;
- **Person moving in an area** to alert to unauthorized movement in off-limits areas;
- **Person crossing a line** to alert to perimeter intrusions.

The site employs OnSSI's Ocularis CS as the VMS recording and viewing application, which is fully integrated with Agent Vi's software. All suspicious objects, perimeter intrusions, sterile zone breaches and other security events detected by Agent Vi's Real-Time Event Detection software generate an alert including event image with overlay box, displayed in Ocularis Client. This brings immediate attention to the security breach and allows the operator to rapidly identify the type / location of the threat and dispatch the appropriate security response. Furthermore, the operator uses Agent Vi's Video Search application to retrieve the stored video from OnSSI's video management software to produce video search results for review.

"The real-time detections, together with the automatic search which makes searching across a wide expanse and numerous cameras so simple, responded to our needs. Combined with the high detection success and low false alarm rate, we have greatly improved our level of security and become much more efficient in the field of investigating surveillance video."

--Assistant Director of Security Technology & Card Services, Tulsa University

Result

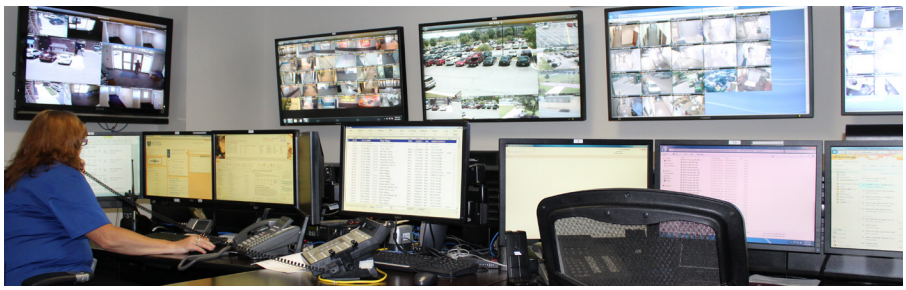
A key concern is protecting TU's valuable art collection displayed around the Performing Arts Center. Agent Vi's Real-Time Event Detection software has transformed the surveillance system into a proactive tool that sends alerts to the security operators when an artwork is tampered with or removed. This increases the productivity of the security team who no longer monitor the live video feeds to protect the artworks.

In parallel, TU employs Agent Vi's Video Search functionalities to reduce time spent searching through recorded video during time-sensitive investigations. When campus artwork was found damaged (in an area not defined with Agent Vi's Real-Time Event Detection software), TU undertook an automatic search to investigate when the artwork was damaged and by whom. The video review – which would have taken hours – was accomplished in less than 5 minutes with Agent Vi's forensic search capabilities.

Agent Vi's "Left object" rule is activated in buildings close to the campus perimeter to alert the dispatch center to suspicious objects. Instant video notification enables security staff to view the object in real-time and a security officer is dispatched when required.

William Redding, Assistant Director of Security Technology & Card Services at TU, stated that "Agent Vi offered everything that TU was looking for in a video analytics product. The real-time detections, together with the automatic search which makes searching across a wide expanse and numerous cameras so simple, responded to our needs. Combined with the high detection success and low false alarm rate, we have greatly improved our level of security and become much more efficient in the field of investigating surveillance video."

Certified systems integrator and member of Agent Vi's Channel Partner Program, JTI Security, specifically selected Agent Vi's solutions for TU. John Edwards, Owner & President at JTI Security, cited the time savings and flexibility provided by Agent Vi's Video Search capabilities, commenting that "The sheer magnitude of cameras and vast area they cover requires the horsepower of Agent Vi's Video Search expertise to provide timely and accurate forensic results. Along with running search capabilities on every camera at the campus, we recommended the wide range of real-time detection rules offered by Agent Vi to provide immediate notification of events to the security staff."



Miki Schwartzberg, Director of Sales at Agent Vi, commented that "By employing Agent Vi's solutions, TU has increased the return on investment on their surveillance system, transforming it from a standard security system into an invaluable investigation tool combined with a proactive event detection application. Moreover, Agent Vi's seamless integration with Axis' IP cameras and OnSSI's video management software enabled easy installation and configuration."

About Agent Vi

Agent Video Intelligence (Agent Vi) is the leading global provider of open architecture, video analytics software. The comprehensive video analytics solutions offered by Agent Vi extend from real-time video analysis and alerts to video search and business intelligence applications, and are fully integrated with a range of cameras, encoders and video management systems.

Based on Agent Vi's unique, patented, Image Processing over IP (IPoIP™) software architecture – which distributes the video analysis task between the camera and a server – Agent Vi's solutions can support up to 200 cameras running a full suite of video analytics functionalities on a single server, while offering superior accuracy and detection performance.

Real-Time Event Detection

Agent Vi's highly accurate real-time event detections eliminate the need to rely on the alertness or response discipline of the system's operator. Users define potential events of interest in advance and receive alerts when such events occur, enabling rapid responses to incidents, as they emerge.

Video Search

Agent Vi's automatic and effortless retrieval and analysis of recorded video replaces cumbersome, labor-intensive, manual searches. Users define parameters regarding the event/object of interest and receive matching search results within seconds, enabling rapid access to specific video segments buried in the stored video.