
OnSSI technology helps an agricultural research center lower its total operational cost, expand its video surveillance system, and increase video data and recording redundancy capabilities.

Product: Ocularis 5 Enterprise Video Management System

Location: Central United States

Application:
Agricultural Research Center

Agent Partners:
Spectra Logic
Ci3 (Control Installations of Iowa)



Challenge

By its very nature, security at large agricultural research centers is mission critical; it must ensure a safe and secure environment for employees, visitors and assets by mitigating risk. A key component in achieving this goal is the implementation of a video surveillance and management system. The customer was looking to improve its video surveillance system, and increase surveillance and security throughout the facility. Management also wanted to implement additional storage archive capabilities, allowing for added flexibility and increased retention of surveillance video for longer periods of time and incorporate additional operational efficiencies into the system.

Solution

The solution to the center's upgrade needs was a cost-effective video management system (VMS) that would have enterprise IP competence, be easy to use, include video encryption from camera to recorder to client, manage bandwidth, deliver continuous operational capabilities, have the ability to scale storage as needed, and be compatible with new centralized network attached storage (NAS) systems for video recording retention requirements. In fact, there was only one solution that met all of these criteria and that was OnSSI's Ocularis 5 Enterprise video management platform with advanced data to disk management capabilities.



Result

The implementation of the Ocularis 5 VMS elevated the research center's security and surveillance operation to a higher level. In addition to providing new IT standards management to the system, the VMS, along with third-party integrations, provided powerful tools to help keep the facility secure, including detection of very specific movements, edge-based motion detection targeted toward size, shape, speed or direction; absence/presence detection such as a stalled vehicle or an abandoned object; behavioral analysis including tailgating at entry points or loitering and accurate optical character recognition (OCR) when used with license plate recognition (LPR) software. User features such as overlay controls and touch-screen made operation easy and convenient for operators.

Continuous operational recording was ensured with the automated Recorder failover capabilities of Ocularis. Network and data integrity was also ensured with the system's AES encryption that "scrambles" data into unreadable code for transport, then unscrambles at the receiving point. Further adding to system integrity, OnSSI's automatic Recorder updates eliminated the need to manually update every Recorder.

OnSSI was also able to help the research center achieve its requirement for a scalable solution. Ocularis can scale up to accommodate an infinite number of cameras to match the facility's needs and it can record video from both analog cameras through encoders and integrated IP network cameras. New technology introduced in Ocularis v5 with OnSSI's Smart Camera Driver technology provides out-of-the-box support for newly introduced cameras from many top camera manufacturers without requiring the user to wait months for specific drivers to be developed. This will allow management to immediately take advantage of the newest, most advanced cameras on the market and add them as needed.

The open architecture of Ocularis enabled the integration between Ocularis and the Spectra® Verde® Disk appliance from Spectra Logic. With this integrated solution, the research facility could now record all surveillance video and store their current 46TB of video surveillance on archive disk for a longer period, at a low price point. Another management goal that was able to be achieved through the deployment of Ocularis 5, was a significant reduction in operational cost of the system. With the Ocularis 5 system management of video data to disk capability, along with increased camera to server ratio, the end user was able to reduce the total number of recording servers from the original 15 NVRs to three OnSSI recording servers, which resulted in a reduction of occupied rack space, decreased power consumption, and reduced heating and cooling requirements.



Ocularis 5 provided an efficient, secure, and powerful platform on which an integrated security system was built. The Ocularis and Spectra Verde integration provided a platform to efficiently address the user's needs with a comprehensive and scalable solution, with a lowered total operational cost.

