

# NC State University

## AllCampus Network Project

North Carolina State University, located in Raleigh, NC, has approximately 35,000 students, 8000 faculty and staff, over 2000 acres, 500 buildings, as well as critical infrastructure installations such as a nuclear reactor and other sensitive-material sites. After the 2007 tragedy at Virginia Tech, universities have redoubled efforts to deploy security technologies that more effectively protect people and assets while still maintaining a relatively open environment, which is a hallmark of America's universities.

### The Challenge

"NC State is the size of a small town," said Scott McInturf, Project Manager, AllCampus Network. "Our job is to provide the technology to efficiently and effectively protect all these assets in an urban environment with a dynamic population comprising as many as 100,000 people on some days"

NC State spent one year evaluating network video management systems. Key selection criteria included scalability, capability to fully utilize and sit atop the existing campus network, and integration capability with future security management systems. The DVTel Network Video Management System (NVMS) was chosen because it successfully met these criteria, but it also offered much more. The NVMS provides a highly user-friendly interface and, importantly, it easily partitions so that each individual "customer" department accesses only their video data while University Police and other university staff have access to all video. "The DVTel system fit our criteria: we didn't need a separate, dedicated security network and it has been growing with our needs as we rapidly add users and cameras," said McInturf.



### The Solution

The NC State installation has over 350 cameras located in multiple departments across campus. The university network has ample capacity for the project to scale substantially as demand and budget dictate. The project is unique and innovative in that one department, the AllCampus Network, manages the servers, storage, and overall technology while offering each campus department the opportunity to purchase and integrate the cameras they need into the campus standard. As new buildings are built or when a department expresses security concerns, the AllCampus Network, in cooperation with the University Police, serves as a security consultant, providing the standards and criteria new users need to address. All parties agree on a security template for the building(s) and AllCampus Network and the project integrator, Signet Technologies, supply the "customer" with budgets, project management, and technical support.

Video is used for live monitoring and extensive incident review. All video is maintained in a central secure location, so departments don't have this responsibility and the university knows that data is safely stored. Each department has access to only their camera data, and they are able to maintain their systems with autonomy while still being part of a larger campus-wide system. In addition to university departments including the Engineering School, the Veterinary School, campus convenience stores and cafeteria, the Higher Education Department, and multiple administrative buildings, AllCampus Network offers security services to non-University customers such as the North Carolina Department of Natural Resources, located on campus.



## The Highlights

As the command and control software, the iSOC NVMS accesses and correlates camera data from over 350 cameras and counting. The cameras are deployed throughout the campus and AllCampus Network currently serves over 40 separate administrative groups.

Signet Technologies designed the system and continues to serve as Project Manager for its continued growth.

Video is used for live monitoring and extensive incident review. Each department is able to view only their video while senior university administrators and security personnel can access all video feeds.

The DVTEL system's flexibility, ease of installation, and scalability fits NC State's current demands and plans for growth: "With the expansion of campus and other State agencies using our system, this system could grow to thousands of cameras," McInturf asserted.

AllCampus Network stores and maintains all video and manages the overall infrastructure. End user departments are responsible only for their own cameras.

While each department has access only to their camera data, they can maintain their systems with autonomy while still being part of a larger campus-wide system that offers system uniformity and economies of scale.

The DVTEL system has proven highly flexible to meet a varied set of demands. For example, for special needs such as a cash counting room and in the rare books section of the library, individual cameras are programmed to record at higher frame rates and to store video for longer periods of time.

The system has proven effective, with video data used not only to solve crimes but also as a training tool to improve operations in university convenience stores and dining halls.

NC State is a model project for other universities and multi-site, campus installations: a single, central managing organization "sells" the transmission, storage, and management of the video to different customers who have the cameras. The departments get in-house expertise and service, and superior video, and the university knows the campus is safer, costs are managed effectively, and there is uniformity in quality and operations.



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