

## SigNet & North Carolina State University

SigNet Technologies Teams with NCSU Security Department – SAT– to Provide Unique & Innovative Centralized Video Management Service

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 biological and animal material handling 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.

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 and exceeded these criteria.

The NC State installation has over 650 cameras located in multiple departments across campus. The project is unique and innovative in that one department, Security Applications and Technologies (SAT), 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, SAT, 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.

As the command and control software, the iSOC NVMS accesses and correlates camera data from over 650 cameras and counting. The cameras are deployed throughout the campus and SAT currently serves over 80 separate administrative groups.

The partnership between NCSU and **SigNet Technologies** has provided a solid foundation for the success achieved to date. The two parties have found a perfect delineation of roles—**SigNet** stays on the cutting edge of technology, SAT hones the implementation design, and together they map out the long-term plan—while simultaneously integrating their teams to achieve the most effective security system at the best cost.

North Carolina State:  
35,000 students  
8000 faculty & staff  
2000 acres  
500 buildings

Critical Infrastructure--  
Nuclear Reactor  
&  
Biological Sites

NC State is a model  
project for other  
universities and multi-site,  
campus installations

SAT is an innovative  
centralized Security  
Department at NCSU

This single, central  
managing organization  
"sells" transmission,  
storage, & management of  
the video to different  
customers who have the  
cameras

The foundation for the  
success of SAT is the close  
partnership between NCSU  
& SigNet Technologies

\* To download the  
complete Case Study visit:  
[www.dvtel.com/  
solutions/case-studies](http://www.dvtel.com/solutions/case-studies)



## The SigNet-SAT Solution

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.

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

Significantly, the security system has proven effective in using video data not only to solve crimes but also as a training tool to improve operations in university 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.

## Future Innovations for SigNet & SAT

As the partnership between NCSU's SAT and **SigNet Technologies** continues to expand and their number of customers grows as well, they are constantly evaluating new technologies and methods to expand the project and make it even more efficient and effective.

Some ideas currently being evaluated include:

- Testing a range of IP and megapixel cameras for future deployment.
- Assessing the integration of parking management to unify data and reduce the number of systems.
- Continued expansion of services to corporate and government customers on Centennial Campus to increase project revenues—not just cut costs.
- Establishing a Command and Control Center where all data and all alarms will be managed in order to more effectively back up and supplement each department user.
- Exploring analytics for people counting and crowd management.
- Working on plans for video surveillance at all campus entrance points for license plate recognition.
- Setting up a "virtual gate" using RFID technology to monitor parking permits when entering campus.