

CASE STUDY

Enhancing Perimeter Security Across Multiple Government Campuses with **SENTINEL FOCUS^{NX}**

CLIENT:

Multiple Government Facilities (Confidential)

SOLUTION:

SENTINEL FOCUS^{NX} – Distributed Acoustic Sensing (DAS)
INSIGHT™ Alarm Management System Integration

PARTNER:

Systems Integrator (Confidential)

detection. SENTINEL FOCUS^{NX} utilizes covertly buried or fence-mounted fiber optic cable to detect and localize disturbances such as walking, digging, climbing, cutting, or fabric lift with industry-leading 1-meter accuracy.

The system was installed and operational quickly, providing immediate security coverage while allowing the client's team to continue Layer-1 infrastructure upgrades at their own pace. The flexibility of the solution was a critical factor: as the perimeter changes—through expansions, reconfigurations, or gate adjustments—the sensing cable layout can be easily adapted with minimal disruption.

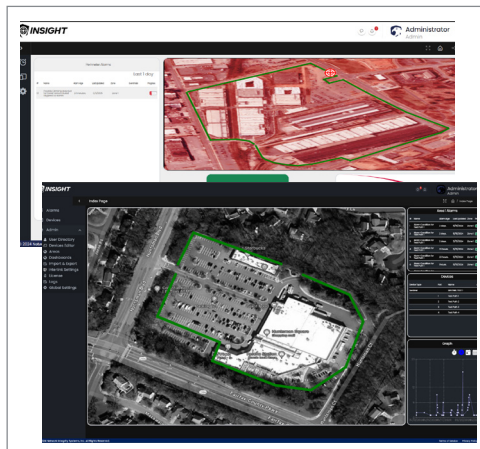
THE CHALLENGE

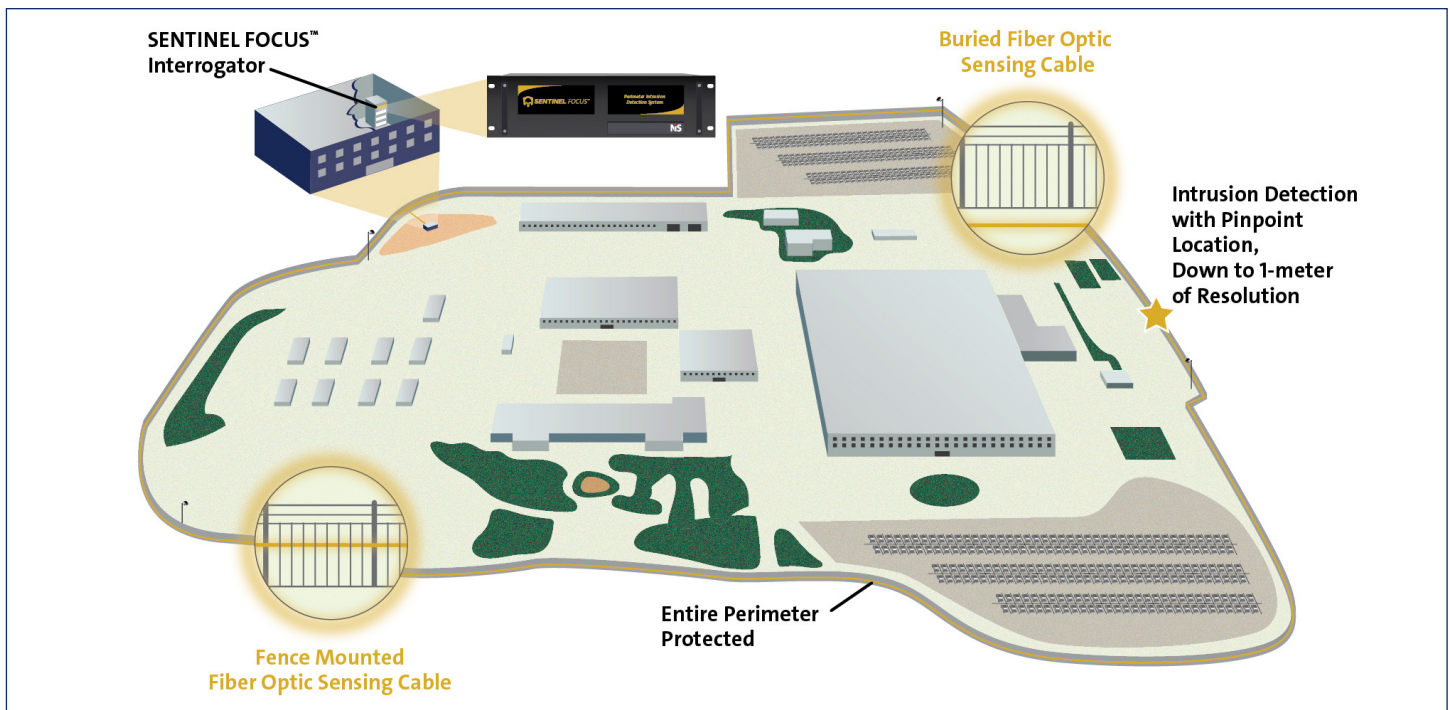
A group of high-security government campuses, each with unique size and infrastructure complexities, faced persistent perimeter security challenges. Their legacy system, provided by a competitor, generated excessive false alarms—often triggered by wind and rain—and lacked responsive customer support. As the threat landscape evolved, the client needed a flexible, scalable solution that could not only mitigate false alarms but also adapt to continual changes in their security infrastructure.

THE SOLUTION

Network Integrity Systems (NIS) was selected to replace the outdated technology with its advanced SENTINEL FOCUS^{NX} platform, a high-performance Distributed Acoustic Sensing (DAS) solution designed for real-time perimeter threat

To streamline monitoring and incident response, the solution included the INSIGHT™ Alarm Management System, a comprehensive platform that consolidates device management, alarm visualization, and analytics into a single intelligent interface. INSIGHT enables seamless integration with existing and future systems, including access control, video surveillance, and LiDAR, supporting a modular security strategy.





THE RESULT

Since deployment, SENTINEL FOCUS^{NX} has delivered consistent, high-confidence perimeter security across the campuses. False alarms have dropped dramatically. The INSIGHT platform has streamlined security operations, enabling security personnel to respond faster and more effectively to verified threats. Most importantly, the flexibility

of both the hardware and software has future-proofed the system, giving the client confidence that their security infrastructure can scale and evolve with mission demands.

With regular maintenance included under contract, NIS continues to support the client with proactive service and long-term reliability.

KEY BENEFITS

RAPID DEPLOYMENT & IMMEDIATE PROTECTION

SENTINEL FOCUS^{NX} installs quickly and delivers instant situational awareness, using machine learning and advanced algorithms to accurately differentiate real threats from environmental noise—dramatically reducing nuisance alarms.

SCALABILITY & ADAPTABILITY

Easily adapts to perimeter changes—such as expansions, repairs, or new gate installations—ensuring long-term investment protection.

SEAMLESS INTEGRATION

INSIGHT™ enables smooth integration with evolving security components including cameras, lighting, radar, and access control.

WEATHER & INTERFERENCE RESILIENT

Immune to lightning, EMI/RFI, and weather-related disruptions. No powered devices or electronics in the field reduce maintenance needs.

ADVANCED DETECTION CAPABILITIES

Detects and classifies a range of intrusions—vehicle or personnel approach, digging, fence climbing or cutting—with pinpoint location data.

CUT RESILIENCE & REDUNDANCY

Optional Cut Resilience enables the system to continue protecting the perimeter even if the sensing cable is severed at a specific point.

