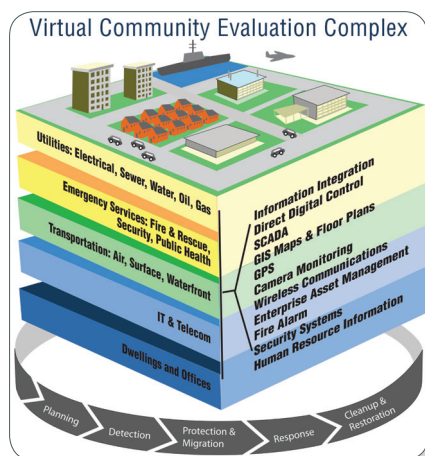


# Virtual Perimeter Monitoring



## BENEFITS

- **Enhance Safety Response Time:** distributed networks provides timely information to key personnel responding to unauthorized or suspicious activity at or near critical infrastructure and boundaries. This includes providing early warning of suspicious events and real-time information.
- **Improve Target Identification and Tracking:** new technology, such as real-time wireless video analytics and advanced sensors improves personnel protection and emergency response activities. This provides an improved ability to rapidly identify and authenticate vessels, vehicles, and personnel entering the observed area.
- **Reduce Manpower Costs:** VPMS autonomously scans a wider secure area and can detect loitering or illicit activities without additional personnel.
- **Forensic Evidence:** video recording provides substantive irrefutable proof in follow-up investigations which can reduce costs.
- **Improved Communications:** through a mesh network connectivity and data transmission between facility assets that in the past were not possible to reach, thus providing the necessary video surveillance.

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## Challenge

The U.S. Navy wanted to be able to deploy a camera surveillance system that could be easily deployed without the high cost of installing a fiber-based infrastructure around a facility. That solution also needed to provide timely automatic surveillance notification of criminal, insurgent, or accident events for enhanced protection for personnel, improve public safety, and enhance critical infrastructure protection and other physical assets, as well as areas of secure confidential information.

## Solution

VirtualFence™ VPMS™ (virtual perimeter monitoring system), a low-cost, surveillance solution supporting the safety of personnel, improved situational awareness and Critical Infrastructure Protection (CIP). The VPMS is a physical network encompassing wired and wireless technology and video analytics that provides security personnel the ability to monitor extensive areas of interest such as facility perimeters, Entry Control Points (ECP), security zones, buildings, infrastructure, and other assets. The VPMS provides a state-of-the-art, ruggedized, secure mesh network used for enhanced safety and security.

- Improved critical infrastructure protection with a focus on safety and security operations, achieved through the enhancement of surveillance and monitoring tools
- Use of real-time wireless video analytics and advanced sensors accurately detect, classify, and track objects and people. Emergency conditions or unauthorized activities are autonomously identified and immediate alerts are issued to security and emergency responder personnel.

## Benefits

The real benefits of a VPMS is that it provides layers of security at the perimeter and within a facility, thereby improving the ability to detect unauthorized individuals approaching and breaching the established physical or virtual security threshold. The system also provides a capability for automatically notifying essential personnel of a security event reducing response times. Included with the VPMS are video analytics. This allows the ability to autonomously monitor critical areas for potential hazards or intrusions to increase surveillance efficiency while reducing costs by eliminating personnel-intensive security monitoring tasks. The VPMS solution also facilitates improved collaboration between a unit's command center, security forces, and emergency responders. The benefits incorporate video analytics technology for intrusion detection and condition anomaly monitoring as well as data fusion for improved situational awareness at the command center.

## Products

- AirGuard® Wireless Access Point 3e-525A-3
- VirtualFence Intelligent Video Server 3e-525Ve-4
- AirGuard Wireless Data Point 3e-523-3
- VirtualGuard Appliance 3e-733