Perimeter Management
Surveillance, central management and response

Hostile cyber-intrusions that increasingly menace civil and campus infrastructure have dramatically heightened the need for proactive cyber-physical protection. Facilities nationwide – including those underpinning military bases, utilities, public transport and schools – are prime targets with potentially devastating vulnerabilities.

OUR SOLUTION

An effective, proactive and cost-effective force protection system that operates 24/7 is essential to defending an operations perimeter, points of entry and remote enclaves. 3eTI's **VirtualFence** systems integrate secure networks, reliable communications, video surveillance and automated deterrents on-site to cover the gaps where round-the-clock manpower is not feasible.

VirtualFence is designed to seamlessly accommodate a wide range of industry facility types that require expandable perimeter security without the cost of additional personnel on the ground. Low overhead for installation and maintenance allows users to affordably and comprehensively attain critical-infrastructure protection.

Ultra ELECTRONICS | 3eTI

24-hour, fixed video surveillance that identifies and alerts to threats in real-time

INTELLIGENT ANALYTICS

VirtualFence enables better decision-making by helping users manage communications and data more effectively while minimizing response time, costs and loss associated with incidents. VirutalFence integrates with the cameras and sensor units to include autodetection capability and user-settable tripwires. This is complemented with a variety of alarm types to maximize alerting and deterrence. The system's instant alerting triggers response so that local land forces may be dispatched immediately and automated deterrents instantly respond.

ACCESS CONTROL

Security challenges have become increasingly complex as threats grow more sophisticated while budgets and manpower decrease. Technology has evolved to address these challenges. However, integrating new solutions with legacy operational environments necessitates specialized planning to ensure access is provided exclusively to authorized personnel.

SITUATIONAL AWARENESS

VirtualFence enhanced situational awareness software helps security responders to operate more effectively in a threat environment. In a highly volatile environment, early warning alerts, data mapping, a single view of operations, communications and reporting systems can all increase users' situational awareness and improve force protection.

VirtualFence can allow operators to rapidly aggregate information from disparate sources, identify adverse conditions, quickly determine and test different responsive actions, and monitor the implementation and effectiveness of those actions.

VIDEO SURVEILLANCE

With a nationwide installed base where rapid response for assured asset protection is essential, **VirtualFence Appliance** is fully self-contained to deliver video surveillance and automated detection in the harshest environments. With a built-in power source and wireless connectivity, the VirtualFence system is free from the constraints of hardwired cable. This design advantage renders it an effective and affordable alternative for securing critical infrastructure, whether the facility is fixed, remote or temporary.

VirtualFence embeds multi-layered protection in a patented architecture comprised of components that are individually cyber-secure and modular for flexible, reliable and scalable implementation, indoors or out. It is an out-of-the box solution combining COTS products that simplify post-installation maintenance. The system automates incident or anomaly isolation, identification and responses, communicating incidents back to a designated central-command post. It does so non-stop and in real-time helping operators save time and resources in critical situations by enabling fast and informed decision-making.

VirtualFence is the proven and fully-certified choice of the US Navy and other organizations unwilling to put boundaries at risk with less-tested solutions.

LEADING VIDEO MANAGEMENT
with Milestone

3eTI partners with Milestone, the leading open platform provider of IP video management software (VMS). **VirtualFence** integrates with Milestone's XProtect® platform to ensure that its DoD customers are able to utilize best-performing VMS solutions with a fully compliant government certified video management platform. Additionally, customers have more functionality in support of their missions, including enhanced automatic alerting and intelligent video analytics.

Milestone XProtect is specially designed and developed to add-on products so they fully integrate with XProtect VMS. These add-on products are separate software components installed on top of an existing VirtualFence system, giving customers extra value and functionality. It allows customers to create custom surveillance solutions for specific industry needs. For example, it can link transaction dta from cash registers with video to optimize retail operations, allowing you to use your video system for more than just security matters.

Add-on software to gain extra functionality and create a complete surveillance software solution

Analytics
– Artificial intelligence
– Face recognition detection
– License plate recognition
– Under vehicle inspection
– Parking & traffic management
– Audio analysis

– Tripwires
– Object & people & tracking
– Forensic analytics
– Loitering, crowd, sliip/fall detection
– Heat mapping

Situational Awareness
– Video stitching/synopsis
– Mapping/GIS
– Augmented reality

Sensors
– Drone detection
– Laser/Radar/Satellite
– Microwave
– Gunshot detection

– RFID
– Sound detection
– Intrusion detection
– Optical/infrared

Access Control and Intercom
– Visitor management
– Tailgating

Facilities Management
– Fire and alarm systems
– Building management
– SCADA control

Market Adaptable

GOVERNMENT
The VirtualFence Approval to Operate (ATO) status with DoD is backed by advanced information assurance (IA) data encryption. VirtualFence has undergone independent security evaluation to achieve FIPS validation and Common Criteria certification. These security certifications provide an easy and affordable route for civilian and federal agencies to meet NERC CIP-006 compliance for remote sites.

COMMERCIAL
As validated by the Award for Excellence in Corporate Technical Innovation by International Society of Automation (ISA), 3eTI's crypto technology cyber-hardens industrial networks. Systems are rendered more reliable and safer with no disruption to productivity.

Equally valuable is the peace of mind knowing that VirtualFence affords the highest level of protection available to the civilian marketplace with commercial-off-the-shelf (COTS) pricing.

Since 1995, Ultra Electronics, 3eTI has been a trusted supplier for the defense, government, energy and industrial-automation markets worldwide through advanced cybersecurity, secure wireless, perimeter management and security services. These organizations rely on our highly secure, military-grade platforms to communicate and protect critical assets. Our experience and tested performance in some of the world's most demanding and harsh environments make 3eTI an obvious choice for cyber-physical security.

CyberFence　　**VirtualFence**　　**WiFiProtect**　　**UltraServices**

Ultra ELECTRONICS | **3eTI**

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