The increased complexity of city systems -- characterized by myriad interdependencies among globally connected social, economic and political sub-systems -- has increased urban vulnerability to cyber-threats. The risks are magnified as an infinite supply of data becomes more integral to vast operational processes that underpin the implementation of smart cities. These multiplying cyber-physical systems closely integrate computational processes with the internet and its users, introducing potentially catastrophic cyber-vulnerabilities.

UltraCity from 3eTI is a highly secure and efficient industrial-management solution that seamlessly interconnects with existing network infrastructure. Certified for fully compliant information assurance, it affords defense-in-depth controlled access while supporting Green IT and energy reduction initiatives.
UltraCity assures highly efficient and secure operations of complex and vastly interconnected cyber-physical systems. It enables a birds-eye view of expansive urban networks while supporting centralized management and streamlined operational functions.

Meet Security Objectives

Today’s city planners and managers are increasingly challenged to maximize operational efficiency while controlling costs. Integrating cyber-physical systems can measurably promote operational effectiveness that keeps people and property safe. Fully secured infrastructure, reinforced by streamlined facility and industrial control system (ICS) management, promotes peak performance without additional human resources.

Cyber-Physical Security

We define cyber-physical security as the comprehensive cyber-hardening of the networked systems and the critical infrastructure that cross the IT and operational technology (OT) domains. The OT environment is the front-facing edge system that combines cyber components with physical devices to form networks whose operational integrity is critical to human safety. 3eTI specializes in securing the OT zone, ensuring that cyber-threats don’t become physical ones.

3eTI's technology was called upon by emergency personnel responding to the 2013 Boston Marathon and Navy Yard shootings.
**OPTIMIZED URBAN OPERATIONS**

**SECURE WIRELESS INTEGRATION**

UltraCity utilizes high-performance and robust wireless-mesh platforms that reliably deliver continuous connectivity and optimal security. UltraCity enhances decision-making. It enables building recommissioning and eliminates redundant manpower by centralizing management and streamlining operational functions.

**Benefits**
- Seamless integration
- Efficient resource utilization
- Centralized C2 management
- Robust and reliable operation

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**CYBERSECURITY**

Industrial control systems are now prime targets for cyber-threats. UltraCity protects against network vulnerabilities using embedded cybersecurity technology that securely integrates disparate ICS, connecting remote life-support systems such as high voltage power, water and waste, and HVAC. UltraFacility systems meet information assurance (IA) requirements for security.

**Benefits**
- Proven and accredited systems
- Meets IA operational requirements and mandates
- Saves money and maximizes efficiencies

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**PERIMETER MANAGEMENT**

UltraCity controls base access, protecting infrastructure and personnel with automated and manual security, 24/7 – all through conveniently centralized command and control. State-of-the-art automated entry-control systems protect via gate and building access, as well as around the base perimeter.

**Benefits**
- Reduced manpower
- Round-the-clock security
- No gaps allowed

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**KEY APPLICATIONS**

- Centralized crisis management
- Wireless mesh networks
- Extended secure communications
- Remote sensors & meter connectivity

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**CYBERSECURITY**

- SCADA system security
- Industrial endpoint protection
- Intrusion detection/ prevention
- Encryption/ authentication
- Virtual private networking (VPN)
- Legacy system protection
- OEM security

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**KEY APPLICATIONS**

- Centralized management
- Fixed or mobile video surveillance
- Intelligent video analytics
- Automated access controls

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Successfully tested and deployed in military, federal and industrial environments requiring high levels of security and accuracy.
ASSURING SMART CITY OPERATIONS

UltraCity delivers efficient, effective and secure municipal operations using only mature and available technologies. The solution reduces operational costs while maximizing available resources and budget to accommodate growth or new configurations as security, infrastructure and communications requirements change.

- Increases operational efficiencies
- Maximizes resources and budget
- Allows for expansion and adaptability
- Frees managers to focus on core strategic priorities
- Ensures full network, cyber-physical security

VirtualFence  WiFiProtect  CyberFence  UltraServices