City Block

Cyber Simulations and Training for Operational Technology

City Block protects critical infrastructure by modeling real-world environments for training and event simulation.

Modern industrial control systems (ICS) and operational technology (OT) systems are connected to information technology (IT) networks and the internet, making them vulnerable to cyberattacks, natural disasters, and other hazards. Public utilities, manufacturing plants, military bases, and other local and national critical infrastructure require trained defenders to protect against these dangers.

CACI's City Block provides cybersecurity specialists, network administrators, and ICS/OT security testers with a software-based cyber-physical modeling and simulation environment where they can test, train, perform research, and conduct cybersecurity evaluations. City Block technology merges ICS/OT networks with IT networks to provide a holistic testing and training solution in a scalable, modular 3D or virtual reality (VR) platform for more realistic — and more memorable — testing and training experiences at a fraction of the cost of physical models. This results in more resilient systems and teams that can ensure continuity of operations under the most challenging conditions.

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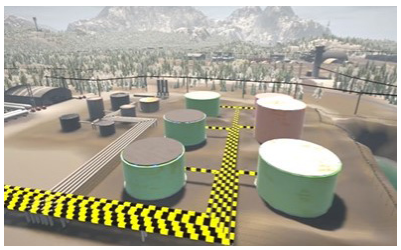
For more information about our expertise and technology, visit: **www.caci.com**

Benefits

- Scalable, modular platform well-suited for both government and commercial customers
- Software-based cyber-physical interface simulates any environment for teams anywhere in the world
- Enables on-demand training as well as modeling for joint force or service-level Department of Defense (DoD) exercises
- Provides an engaging, immersive experience for trainees, security researchers, and senior officials with vivid representations of ICS/OT environments
- Cost-effective for providing grounded insights without the need for physical models
- Customizable training curriculum can be developed based on customer needs and requirements



Cost-Effective Testing of OT/IT Networks

IT networks are significantly different from ICS/OT networks, and call for a different approach to training for ICS/OT cyber defense and network operations. City Block presents security testers and trainees with a completely software-based cyber-physical interface that increases their understanding of ICS/OT systems and their interconnectivity with traditional IT networks.

Using open-source software and the Unity® gaming engine, City Block provides a cost-effective representation of an ICS/OT environment that can be connected to IT networks for testing, training, exercises, and mission rehearsals. City Block can host audiences around the world, thanks to its software-based cyber-physical interface. City Block allows the customer to model specific hardware, software, and physical environments, making it particularly useful for customers with specific OT/ICS needs. With City Block, users develop a deeper understanding of ICS/OT infrastructures and their vulnerabilities, as well as the interdependence between cyber and physical systems.

Use Cases

CACI's City Block is particularly suitable for:

- **Testing:** Test software patches and upgrades in a safe environment; test efficacy of control system isolation; test control system-specific intrusion detection and prevention systems; and test the safety of network scanning tools
- **Training:** Train system operators how to operate, patch, back up, and restore control systems and how to respond to suspected intrusion; train offensive and defensive cyber operators on ICS/OT networks, tools, and equipment
- **Network Modeling and Simulation:** Provide virtualized systems and network environments to conduct cybersecurity vulnerability assessments against critical infrastructure; model OT and ICS network environments; model current and future enterprise network environments
- **Supply Chain Risk Management:** Test systems against known vulnerabilities and conduct penetration testing with a standardized process; assess control systems prior to fielding; conduct security activities against foreign-made chips, system components, and code
- **Red Team Support:** Provide high-fidelity visual environments to support information warfare events and provide mission rehearsal environments
- **Exercise Support:** Support operational planning for DoD and Department of Homeland Security (DHS) exercises

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CACI
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EXPERTISE AND **TECHNOLOGY**
FOR NATIONAL SECURITY

CACI's approximately 22,000 talented employees are vigilant in providing the unique expertise and distinctive technology that address our customers' greatest enterprise and mission challenges. Our culture of good character, innovation, and excellence drives our success and earns us recognition as a *Fortune* World's Most Admired Company. As a member of the *Fortune* 500 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index, we consistently deliver strong shareholder value. Visit us at www.caci.com.

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