AVERT Public Safety

AVERT is America's only DHS SAFETY Act Certified Software to support physical security vulnerability assessments.

AVERT is used by DoD to Protect Critical Assets Throughout the Nation

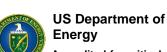**AVERT is Certified by DHS under the SAFETY Act Program and accredited by DoD and DoE**

US Department of Defense

Accredited by DTRA in 2012

US Department of Energy

Accredited for critical pathway analysis
Used by LANL to assess vulnerabilities

US Department of Homeland Security

The only SAFETY Act Certified Software to support physical security vulnerability assessments. Provides users liability indemnification from acts of terror.

AVERT Is In Use Protecting Government and Private Sector Facilities Nationwide

Pentagon Force Protection Agency
(www.pfpa.mil)

Defense Threat Reduction Agency
(www.dtra.mil)

United States Air Force

Nextera Energy

Los Alamos National Lab

Lincoln Center

USAA

Xcel Energy

The Threat to Public Safety.

Government and private facilities, along with mass gathering venues, face ever-increasing risks associated with threats of intentional acts to cause harm or acts that impact public safety, government operations, and business continuity.

SHIELD GROUP
TECHNOLOGIES

A R E S
SECURITY

The Challenge for Local & State Governments and Law Enforcement.

As a result of these risks, there is an enhanced responsibility to limit or manage risks from these threats to the greatest extent possible.

The modeling and simulation process provide law enforcement, government officials, and facility owners insight into the risk of a threat defeating a facility's security posture and possible strategies to mitigate the risk.

SHIELD GROUP
TECHNOLOGIES | ARES
SECURITY

AVERT Public Safety is Part of the Solution.

AVERT Public Safety is a modeling and simulation tool, designed to conduct risk assessments on critical infrastructure, that computes the probability of a successful attack or intrusion.

It reviews thousands of potential scenarios and provides quantitative, non-biased analysis of the actual security posture. Additionally, it allows for the evaluation of multiple different enhancements to determine the most effective, cost efficient method of mitigating identified risks.

SHIELD GROUP
TECHNOLOGIES

ARES
SECURITY

Powerful Information for Field and Tactical Commanders

AVERT allows field and tactical commanders the ability to identify, analyze and review critical skills, resource deployment and processes in a virtual environment to identify operational plans in a consistent format for preplanning purposes. This gives thorough insight for responders of ongoing or evolving events requiring rapid first response or prolonged response.

AVERT allows command staff to identify and deal with operational and tactical issues that affect the positive outcome of a critical event before they arise. It empowers planners and commanders with independent, 'multi-eye' review of an existing law enforcement agency strategy or comparison of the guidance, content and structure with best practices in police department strategy roadmaps and action plans

Determine Vulnerabilities

Users of AVERY Public Safety can define the specific capabilities and tactics of the threat and AVERT automatically determines the vulnerabilities and simulates hundreds of attacks. Results provide visual and quantitative data on potential vulnerabilities and the outcome of any given event.

SHIELD GROUP TECHNOLOGIES | ARES SECURITY

"What-If" Analysis

AVERT Public Safety allows the user to rapidly perform "what-if" analysis of potential security enhancements. Its intuitive, graphical user interface allows the user to quickly add security enhancements, increased training levels, add or remove structures, and more. Users can then measure the effectiveness of the enhancements. The ability to communicate the results is further enhanced through the ability to produce video of each scenario as a way to visually understand the impact of the enhancement.

Versatile Tactical Evaluations

The versatility of AVERT Public Safety allows tactical planners to assume either role. Law enforcement might assume the defensive role to first evaluate their strategy for preventing an active shooter event or model their initial response to such an event by on-site resources. Such an analysis might show that insufficient resources have been assigned to the venue or the location of fixed observation posts or human observation are not maximized.

AVERT also allows law enforcement to reverse roles, becoming the 'attacking' force, to evaluate strategies for addressing active shooter, hostage or barricaded individual scenarios. This allows tactical planners to evaluate logistics regarding the best team size, approach path, asset deployment such as drones and armored vehicles, along with identifying staging areas to effectively address the situation and assess the best solution to attain the desired goal or end of a crisis event.

Unbiased Analysis

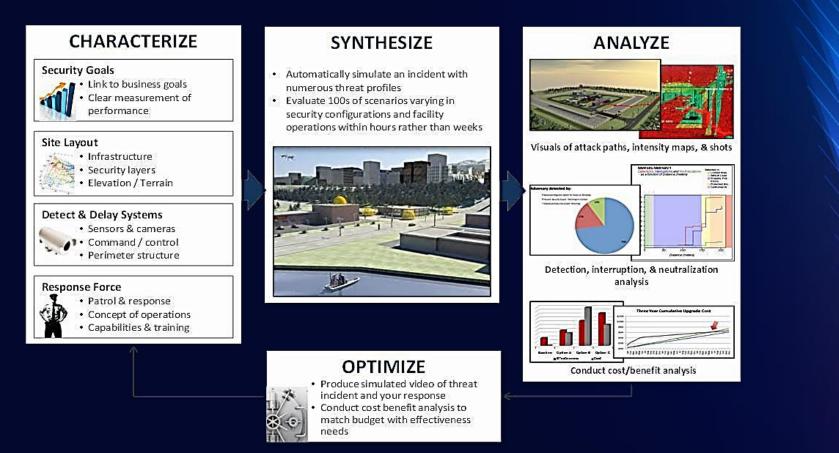In any analysis the variables can be changed to address hundreds of possible scenarios allowing law enforcement pre-planning capability far in excess of what could ever be accomplished through training exercises alone. Furthermore, all results provide non-biased, quantitative data to prioritize and support law enforcement requests of local government.

SHIELD GROUP TECHNOLOGIES | ARES SECURITY
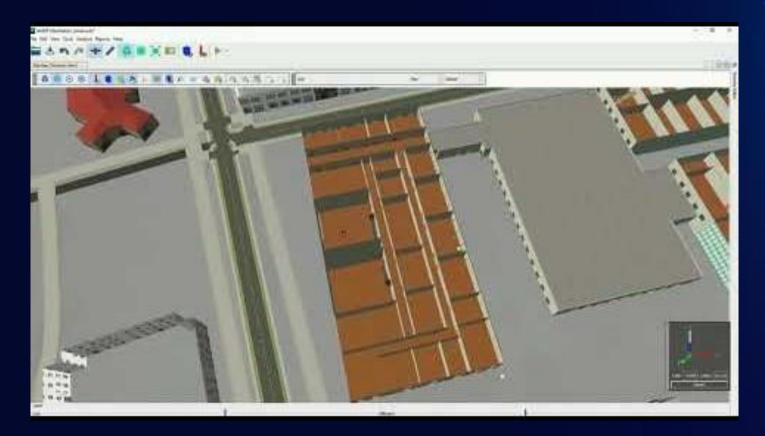
The Risk Assessment Process

The risk assessment follows a four-step process as shown in the figure. The process begins with the user characterizing a facility and its security features, followed by synthesizing how the system works during the incident, analyzing the results, and finally identifying potential enhancements. The process then repeats itself.

CHARACTERIZE

Security Goals
- Link to business goals
- Clear measurement of performance

Site Layout
- Infrastructure
- Security layers
- Elevation / Terrain

Detect & Delay Systems
- Sensors & cameras
- Command / control
- Perimeter structure

Response Force
- Patrol & response
- Concept of operations
- Capabilities & training

SYNTHESIZE
- Automatically simulate an incident with numerous threat profiles
- Evaluate 100s of scenarios varying in security configurations and facility operations within hours rather than weeks

ANALYZE

Visuals of attack paths, intensity maps, & shots

Detection, interruption, & neutralization analysis

Conduct cost/benefit analysis

OPTIMIZE
- Produce simulated video of threat incident and your response
- Conduct cost benefit analysis to match budget with effectiveness needs

AVERT Public Safety

Active Shooter Demo Model