



Visualization System for Information Security

3-D Images Help Thwart Attacks on Vital Defense Computer Systems

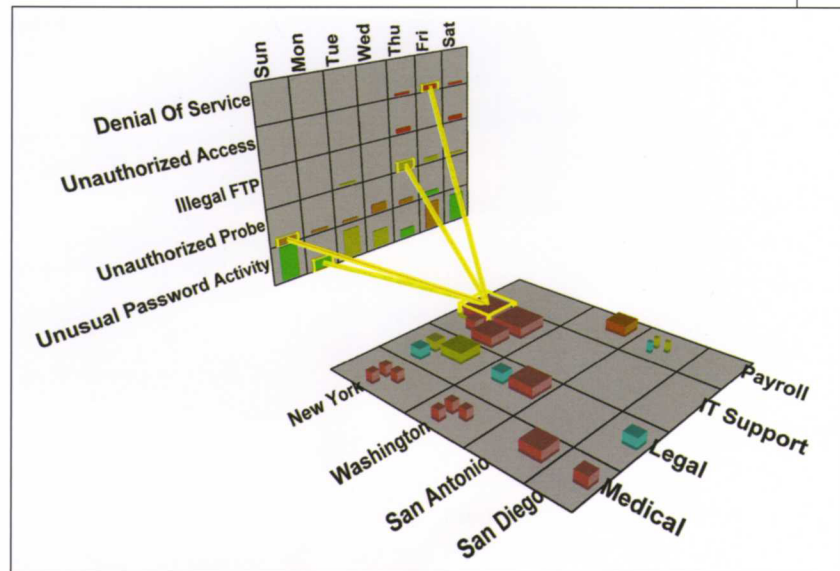


Technology and Innovation

As anyone with a computer connected to the Internet knows, there are countless threats from hackers and others who would exploit hardware and software vulnerabilities to their own advantage. Military computer security officers deal with external and internal attempts to compromise their equipment on a daily basis, threatening to degrade or even disrupt vital defense computer systems as well as the military operations and personnel that depend on them.

SecureScope takes security data that comes from many sources and, by way of a data-rich three-dimensional (3-D) presentation, displays it in the proper context to help information security analysts make informed decisions about potential threats and the subsequent impact of information security breaches. By means of 3-D visualization with rotational capability, Secure Decisions technology helps users more easily discover new suspicious activity by displaying multiple and specific threats and impacts across a complicated enterprise network. Particularly innovative and helpful is the presentation of time patterns to end users monitoring security breaches, correlations, and detection events.

Built upon initial concepts developed by Secure Decisions for the Air Force Research Laboratory, SecureScope reached maturity under this DARPA SBIR. Secure Decisions



extends its visualization software to other applications including operational environments for test and evaluation, and add-ons to commercial and government off-the-shelf security software packages that have been adopted by the U.S. military, non-military federal agencies, and commercial users. Primary customers under this effort include U.S. Southern Command (SOUTHCOM), U.S. Joint Forces Command (JFCOM) and The Pentagon.

Joint Collaborations

Secure Decisions has deployed its SBIR-developed technology in a variety of government environments. Deployments such as to the Fleet Battle Experiment-Kilo provided a significant amount of exposure, helping to open doors for deployment of the technology into other operational environments.

This SecureScope™ association scene illustrates the distribution of attacks and suspicious activity occurring on host workstations in different locations and organizations

Lessons Learned

- Identify additional funding sources to help ensure continued pace of technology development through periods with little to no government funding.
- Gain feedback from operational users as quickly as possible to help guide SBIR technology maturity.
- Communicate any changes in direction of the SBIR program clearly and continuously to the contractor community.
- When developing proposals, present both a broad, innovative solution and a plan for incremental development of smaller-scoped interim solutions that can be operationally tested.

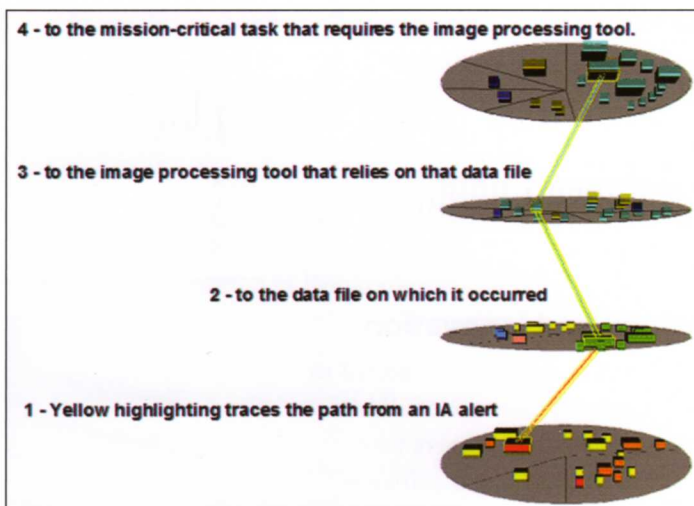
Economic Impact

In addition to serving as an important source of funding, this DARPA SBIR enabled Secure Decisions to acquire substantial funding from other DoD government agencies. The SBIR also enabled the company to substantially change its focus to include federal business and research, as well as providing a basis for pursuing third-party funding for commercial product development.

SecureScope is a valuable asset in helping Secure Decisions pursue relationships with other government agencies, prime contractors, and commercial businesses. This has had a significant impact on growing the company's staff, contributing to overall sales and employment. Secure Decisions received Patent Number 6,906,709 for its work under this SBIR.

About the Company

Secure Decisions—a division of Applied Visions, Inc.—employs 28 at its Northport, New York location. The mission of Secure Decisions is to enhance the decision-making of those responsible for the information security



The SecureScope™ layered wheel scene traces the path from a security alert to its business or mission impact

of their organizations and regions. To achieve this, Secure Decisions provides software and consulting services to improve the situational awareness of information security officers, law enforcement and intelligence analysts. Its client list includes the U.S. military, DARPA, law enforcement and intelligence agencies, as well as U.S. and Japanese companies. ■

Company Information

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