S3 | control
Embedded

Solidcore References and Credentials

Department of Homeland Security Awards

The Department of Homeland Security (DHS) and Homeland Security Advanced Research Projects Agency (HSARPA) launched the Small Business Innovation Research (SBIR) program in December 2003. HSARPA administers the DHS SBIR Program for DHS's Science and Technology (S&T) Directorate and the Domestic Nuclear Detection Office (DNDO) to increase the participation of innovative and creative small businesses in Federal Research/Research and Development (R/R&D) programs and challenge industry to bring innovative homeland security solutions to reality. The DHS SBIR funds early stage R/R&D that serve a Homeland Security need and

DHS SBIR Phase 1 Award

Solidcore won its first award by Department of Homeland Security for its SBIR Phase 1 Program in year 2004. This was to determine scientific and technical merit and feasibility for "Solidifying Malware Identification". Phase I activities consisted of extending Solidcore's existing technology so that it could perform both of malware identification (malware-ID) for new and unknown attacks as well as known attacks, and real-time generation and dissemination of attack identification data for existing security mechanisms.

DHS SBIR Phase 2 Award

Solidcore subsequently presented and won the award for SBIR's Phase 2 Program in year 2005. This was for Commercializing Solidification for Malware Identification and Containment. In Phase I Solidcore Inc developed new techniques for malware identification, by extending existing Solidcore technology (which traps malicious software when it attempts to execute on an end-system) to perform real-time analytics and dissemination of analyses, for both previously known and previously unknown exploits. Phase I efforts focused on three accomplishments: 1)Analysis of the malicious software itself in situ but also the network packets that delivered the software to the end-system and the protocol payload in which the malware was embedded; 2)Use of the results of the analysis to generate information that can be used by existing conventional network security devices to detect or block network traffic that carries the malicious software; 3) Dissemination of the information to existing security devices that can then use existing mechanisms to filter the malware out of network traffic; Phase 2 was to productize these results.

At a Glance

- 4 Awards by Department of Homeland Security
- The Bankers Award for NCR's Solidcore for APTRA
- Recognized by Gartner
- Ready For IBM's Retail Store Innovation
- Microsoft's Windows Embedded Gold Partner
- 3rd Party Evaluation by NIAP, Corsaire, @stake
- Solidcore's Patents by USPTO
- Vertical Industry Embedded Customer Wins: NECi, StoreNext, Ericsson, GM, Wyse, Confirma

"Digital control systems are a well-known weak spot in our nation's critical infrastructure and attractive targets for cyber-terror, much in need of innovative new cyber-security technology. Solidcore approach is particularly applicable to adaptive defense for SCADA networks, digital control systems, or manufacturing production control systems.

Ian Foley, SRI International
an independent non-profit research and development organization

DHS SBIR Phase 2 Fast-Track Award

Solidcore was awarded another award under the Fast-Track project scheme from the Department of Homeland Security and from its partners and investors under a matching funds program for commercialization of its Phase 2 project in year 2006-2007. This proposal included a work plan for additional technology refinement and integration with third party commercial products as well as development of milestones, productization plans, schedules, and lab and field trails.

DHS SBIR Air Force Phase 1 Award

Solidcore also won the award from the Department of Homeland Security for its Air Force sector's under the Phase 1 Program structure of SBIR to create a mechanism for securely transporting an authorized software payload to a target system with the objective of executing the payload on the target. This included implementation of execution controls for certain payloads at the point where they are approved by the manufacturing entity and as they get deployed by the actual owners and administrators of the secured systems in the field.

Department Of Homeland Security Selects Solidcore to Present At System Integrator Forum

Department of Homeland Security (DHS) Science and Technology Directorate selected Solidcore to showcase its market-leading change control software at the System Integrator Forum in Arlington, Virginia. Attendance at the SIF was strong with senior representatives present from a number of top tier system integrators like BAE Systems, Booz Allen, EDS, General Dynamics, Lockheed Martin, Northrop Grumman, Raytheon, SAIC, among others. A number of government agencies were also represented including the Department of State, Department of Energy, and the FBI.

Solidcore has developed solutions with the assistance of DHS funding for Small Business Innovative Research (SBIR) awards and was selected for participation in the SIF based upon the maturity of the technology solution, relevance to government needs, the commercial viability of the approach, and the strength of the business leadership.

The DHS Science and Technology (S&T) Directorate showcased several new cyber security solutions to an audience of system integrators and government sponsors. The technology solutions represented cutting-edge innovations with the potential to improve the security of the nation's cyber-infrastructure, while also reducing the costs required to protect cyber assets from attacks. The goal of the System Integrator Forum is to introduce high-quality, top-performing companies to large integrators of technology who serve the federal government and private industry. A secondary goal is to foster business relationships that may lead to the commercialization of the presenting companies' research

NCR's ATM Security Technology Recognized for Fraud Prevention Innovation in the Retail Banking Market

The Banker Technology Awards 2006 has named NCR Corporation as the winner of the "Fraud Prevention Innovation in Retail Banking" category. NCR took top honors for its unique security solution for automated teller machine- (ATM) channel software, known as Solidcore for APTRA™. This first-of-its-kind approach to controlling the banking-software environment includes countermeasures against potential risks of compromise of the ATM channel, as well as innovative functionality to support regulatory compliance.

Press Release

Solidcore for APTRA™ part of NCR Secure™ — a holistic approach to self-service protection

DAYTON, Ohio – *The Banker* Technology Awards 2006 has named NCR Corporation (NYSE: NCR) as the winner of the "Fraud Prevention Innovation in Retail Banking" category. *The Banker* is a leading global banking publication headquartered in London.

Solidcore Joins IBM Ready™ for Store Integration Framework Initiative

Solidcore announced their validation on IBM's Store Integration Framework initiative in July, 2006. Solidcore's S3 Control platform uniquely provides leading retailers with a single platform to control changes to both the corporate IT infrastructure and retail store environments with little on-going support costs. S3 Control's validation in IBM's Store Integration Framework presents the first opportunity for retailers to fulfill the goal of having product which can control change to IT resources in both the corporate and store infrastructures. S3 Control allows joint retail customers to take advantage of real-time change control to improve their IT operations, store POS networks, kiosks, providing automated PCI compliance reporting, and deploy-and-forget security to all end points.

Solidcore Awarded Gold partner Status in Microsoft Windows Embedded Partner Program

Microsoft awarded Solidcore Gold-level Partner status in the Microsoft Windows Embedded Partner (WEP) Program in Apr, 2007 by demonstrating excellence in building and enabling Windows Embedded-powered solutions

Recognition by Leading Analysts: Gartner

As a key piece of the research to support Gartner's Security Summit in June, 2005, Gartner positioned Solidcore in the "Application-Level HIPS/System Hardening" segment of their nine quadrant matrix.

> Distributed devices like Medical devices, ATMs, Store Machines etc.
> " [SOLIDCORE] will lock down a system (also known as system hardening) based on a known good application configuration so that no other application can execute. Some providers also include the base OS in the hardening process. This style works well for embedded systems, fixed-function servers and kiosks …."
>
> *Neil MacDonald*
> *Gartner Group*
> *Group Vice President and Research Director*
> *Information Security and Privacy*

THIRD PARTY SOFTWARE EVALUATION

1. The Common Criteria Evaluation by NIAP

In the U.S., the National Information Assurance Partnership Common Criteria Evaluation and Validation Scheme (CCEVS) Validation Body, is managed and staffed by the National Security Agency (NSA). The focus of the CCEVS is to establish a national program for the evaluation of information technology products for conformance to the International Common Criteria for Information Technology Security Evaluation. The Validation Body approves participation of security testing laboratories in the scheme in accordance with its established policies and procedures. During the course of an evaluation, the Validation Body provides technical guidance to those testing laboratories, validates the results of IT security evaluations for conformance to the Common Criteria, and serves as an interface to other nations for the recognition of such evaluations. IT security evaluations are conducted by a commercial testing laboratory accredited by the NIST's National Voluntary Laboratory Accreditation Program (NVLAP) and approved by the Validation Body. Common Criteria evaluations are overseen by NIST in their NIAP program which also licenses Common Criteria Testing Labs (CCTL)s that performs the actual evaluation activities.

1. The Common Criteria Evaluation by NIAP (contd.)

Solidcore has contracted with a CCTL to perform the common criteria evaluation, and is working with the CCTL to develop the package of submission materials required to submit to NIAP for formal entry into the program with a target assurance level of EAL-2. When that submission is approved, Solidcore will be officially in the CCEVS (Common Criteria Evaluation and Validation Scheme).

2. Corsaire

Corsaire is a third party global information security consultancy company. They provide a range of services to help organizations measure their risk and build a thorough security program to support their business strategy. They recently performed an independent assessment of Solidcore for APTRA and highly recommend the solution

3. @stake

@stake now acquired by Symantec, had conducted an assessment of the product and concluded that Solidcore's solution made sound efforts in protecting system and it's applications from zero day security attacks.

Patents awarded to Solidcore

Solidcore has been awarded over ten patents and some are in the process of getting awarded. These cover Solidification and associated runtime control technology, software change control via authorized mechanisms, among others. The unique patented approach involves defining what is authorized to run and change based on change process.

SOME INDUSTRY VERTICAL EMBEDDED CUSTOMER WINS

Industry: Retail
Company: NECi
Solidcore helps prevent out-of-policy changes to eliminate emergency patching procedures, reduce support costs and ensure uptime of deployed point of sale systems.

Industry: Retail
Company: StoreNext
Integrated "deploy-and-forget" Solidcore modules protect grocer software and operations on their ISS45 point of sale systems providing software change management and runtime protection against zero day threats.

Industry: Telephone Switches
Company: Ericsson
Solidified telephone switches enable software change control and day zero security against known and unknown threats on Ericsson's telephone switches

SOME INDUSTRY VERTICAL EMBEDDED CUSTOMER WINS (Contd.)

Industry: Automotive
Company: General Motors (GM)
Solidcore enables lockdown of plant floor systems in GM's AD/LDAP, Powertrain and Automative production environments.

Industry: Thin Clients/Healthcare
Company: Wyse. Children's Hospital of Philadelphia
Solidcore helps improve uptime and reduce total cost of ownership for thin client computers. Joint deployment at Children's Hospital of Philadelphia.

Industry: Healthcare
Company: Confirma
Solidcore enables Confirma to reduce maintenance costs and ensure uptime of CADstream systems by enabling once year patching, preventing unauthorized changes and unauthorized code from executing on production systems.

About Solidcore Systems

Solidcore is a leading provider of software change control for embedded systems and enterprise change management. Solidcore is used by major manufacturers of ATMs, point-of-sale terminals, thin-clients, storage appliances and other devices to securely leverage open systems while controlling support costs. For details on embedded solution, please visit us at http://www.solidcore.com/embedded.

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