AppScan Developer Edition™ 1.5

For Microsoft Visual Studio .NET

New Challenges Demand New Tactics

Hackers are becoming more and more sophisticated every day, making it increasingly difficult to protect the integrity of your applications and the valuable information they safeguard. In this environment, Web application security can no longer be confined to QA or network management. It must be built in from the ground up – driven throughout the application lifecycle from development, to quality testing, to deployment, to maintenance. It is everyone's responsibility.

A study by IBM's System Sciences Institute found that the relative cost of fixing defects after deployment is almost fifteen times greater than detecting and eliminating them during development. This statistic doesn't include the potentially devastating business impact of a security defect in production. Yet without automated tools and with growing time-to-market pressure, developers are often forced to squeeze testing in at the end of the development process, increasing the risk that reliability, consistency, and security may be compromised.

Creating Reliable 'Hacker Resistant' Applications

AppScan DE is a powerful automated testing tool that enables rapid development of secure Web applications. The hackers' thrill is in finding holes in applications, and in pitting their tools, skills, and intelligence against those of legitimate developers. AppScan DE helps ensure your application's business logic is resistant to attack without destroying any of its elegance, functionality or effectiveness. Because it is integrated within the Development Environment, it compliments the other developer tools you use to create quality applications and won't interfere with your work process or the user experience you're trying to create. Instead of searching for security defects manually, AppScan DE can be quickly configured to unit test any web application for security defects directly from within the IDE. Configuration settings are then used by AppScan to learn the logic and structure of the application, build custom tests based on this information, and precisely evaluate the application's response to each test. Upon completion, AppScan DE identifies the location of each defect, delivers in-line fix recommendations, provides detailed descriptions, and enables the developer to perform granular analyses of each test and response. Exactly the information the developer needs to address each defect detected. Once fixes have been implemented, another run of the same configuration will demonstrate the resulting improvement in the application's security. Through this iterative process, AppScan DE helps the developer build more secure applications. This reduces the number of development cycles and associated downtime caused by security defects found in production. As a result, secure applications are deployed faster for less money and the enterprise better optimizes the utilization of development resources.

Reduce Risk and Increase Development ROI

AppScan's industry-leading combination of speed, accuracy, and flexibility make it the most powerful security testing tool in the market today. AppScan provides highly accurate and actionable information that drives enormous returns to organizations in the form of cost savings, reliable operations and strong customer relationships. With AppScan, manual application testing is a thing of the past.

Designed With Developers in Mind

AppScan was designed with the qualities needed to make a developer's work more secure without making it more complicated.

1. **Integrated.** Seamlessly integrated into Visual Studio .NET 2002/2003. Tests applications built with all languages supported by VS.NET, including C#, C++, VB, and J#. Will not disrupt your environment or force you to work with disjointed processes.

2. **Robust.** Built-in intelligence delivers comprehensive defect analysis. View test results and http request details; edit and configure reports.

3. **Real Time.** Get analysis and fix recommendations in real time, in line with your development process. Configuring test runs is simple and fast, navigation to affected files is automatic, and results are date and time stamped and stored logically for quick and easy access.

4. **Automated.** Automated precision script creation and unit testing for a full range of security issues.

Automated unit testing for rapid development of secure web applications

Configure

Automated precision script creation and security unit testing saves time

Automatic: Test creation, execution, and validation process

Manual: Control the scope, depth and application interactions of test

- Business Process Record and Play
  - Target specific business processes for unit testing
- Test Filtering
  - Focus tests on specific type or subset of defect, or area of application
- Advanced Web Form Options
  - Automatically submits values for every form field detected
  - Form parameter values are fully customizable

Test

Built-in intelligence delivers comprehensive defect analysis for maximum results

Patented Policy Recognition Engine learns intended data input validation processes

Automatically authors customized test scripts for every potential security defect detected based on application logic and structure

Precisely evaluates application response to each test identifying location of each defect

- Auto-Transient Detection
  - Consistent testing in stateful environments
- Login and Logout Handling
  - Manages and maintains authentication settings on the fly
- Progress Indicators
  - Real-time information relating to stage and progress of each test run

Recommend

Real Time recommendations help you build secure, quality applications

In-line fix recommendations and detailed description for every defect

Defect pinpointing provides location of each defect

Interactive Results Display enable drill down for granular analysis of each test and response

- Code Sanitation and Content Review
  - Details of every script detected including comments in source code, cookie contents, and JavaScript
- Reports
  - Executive summary and detailed information relating to each defect
  - Export results in standard CSV format
- Test Run History
  - Measure effectiveness of fixes against results of previous test runs

Visual Studio .NET Integration Advantages

Complete Integrated Development Environment with AppScan DE

- AppScan Projects, Configurations, and Test Runs
  - Logical organization of all security unit testing projects and configurations
- Multiple Language Support
- Integrated Results and Recommendations

System & Software Requirements

Computer: Pentium III PC, 500 MHz (800 MHz recommended)

Operating System: Windows 2000 with SP2 (or higher), Windows XP with SP 1 (or higher)

RAM: 512 MB

Network: 1 NIC 10/100 MBPS for network communication with configured TCP/IP (100 MBPS recommended)

Disk Space: 50MB for installation, 1GB for results storage

Other Software: Internet Explorer 5.5 or 6.x, Visual Studio .NET 2002 or 2003
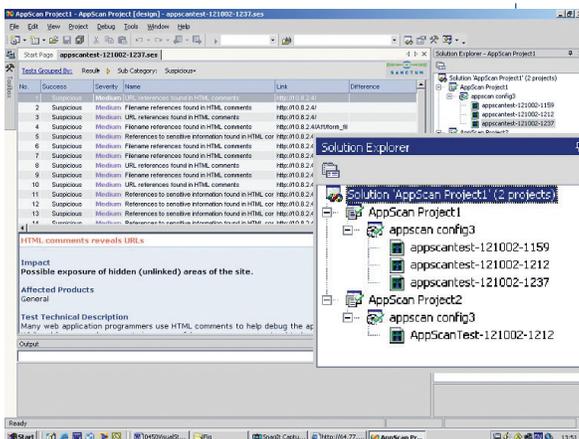
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