

## HP DevInspect software

Data sheet



HP DevInspect software simplifies security for developers by automatically finding and fixing application security defects and helping developers build web applications and web services with advanced security features quickly and easily without affecting schedules or requiring security expertise. HP DevInspect uses a hybrid analysis approach that combines source code analysis with black box testing to reduce false positives and find more security defects.

### Develop dependable applications

Developers know that web application vulnerabilities must be treated like any other software defect. Development organizations know they can save time and money by identifying and correcting security defects early in the development process—long before web applications are deployed to production environments. However, most developers are not security experts and want products to help them find and fix security defects.

HP DevInspect software accelerates the construction and delivery of web applications and web services with enhanced security features by finding and fixing security defects during development and protecting applications after deployment. HP DevInspect applies innovative vulnerability analysis and remediation techniques to pinpoint and correct application security defects before they are released into production where they can expose your assets to serious threats.

### Find and fix security defects at the source

#### Get simplified security for developers

Security vulnerabilities are like any other software defect once they leave development. HP DevInspect helps you save time and money by finding security defects early, fixing them quickly and preventing potential attacks in production.

#### Find vulnerabilities with accuracy

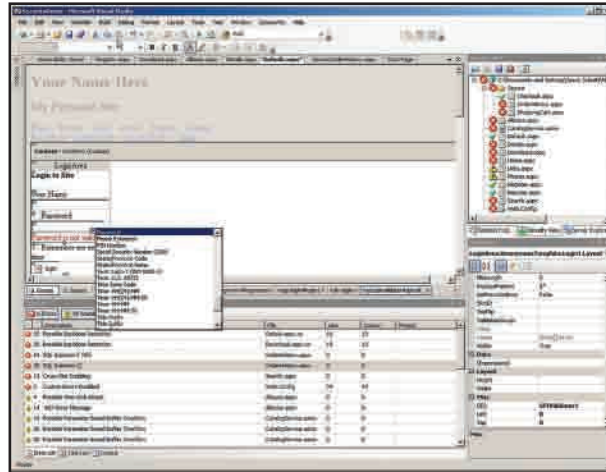
The hybrid analysis approach of HP DevInspect combines source code analysis with black box testing to reduce false positives and find more security defects during development. First the source code analysis technology defines the application's attack surface and identifies all inputs that could potentially be exploited. Then, the black box testing phase uses the intelligence gleaned from the source code analysis to execute a series of attacks using automated hacking techniques that reduce false positives and yield the actual exploitable security vulnerabilities in the application.

#### Automatically fix security defects

HP DevInspect lets you write code with advanced security features from the beginning and harden applications against attack. HP DevInspect automatically fixes security defects by pinpointing vulnerable code and offering to apply code changes to reduce an application's attack surface. You maintain total control of fixes by being able to automatically correct your code using the coding library or by using advice and examples to correct the code yourself. HP DevInspect also provides web application configuration settings with advanced security features to prevent attacks after deployment.

## Get comprehensive security assessment during application development

HP DevInspect finds application security defects in web applications and web services through comprehensive security assessment. HP DevInspect analyzes application security through an innovative hybrid analysis approach that combines the power of source code analysis and black box testing.



### Protect deployed applications

HP DevInspect continues to protect an application after deployment by detecting and preventing attacks with its SecureObjects technology. SecureObjects prevents malicious input from penetrating an application and recognizes attack patterns to actively detect and prevent successful hack attempts. Security event logging captures attempted attacks so that security and operations personnel can protect assets. By applying SecureObjects, you can prevent high-risk web application attacks in production, including structured query language (SQL) injection, cross-site scripting (XSS), buffer overflows and brute force attacks.

### Share knowledge and data

HP DevInspect offers pre-packaged web application security expertise. You can improve your security expertise while securing your applications through SecureBase, a leading knowledgebase of application security vulnerabilities and best practices for fixing them. HP security experts find and capture known security vulnerabilities into the knowledgebase and constantly research the next generation of web application threats. As a result, HP DevInspect users can download new vulnerability tests and description updates daily through the SmartUpdate feature.

### Integrate across the enterprise

HP DevInspect integrates with HP Assessment Management Platform software for enterprise-wide, distributed assessment capabilities. HP Assessment Management Platform provides a scalable, organization-wide view of application security with centralized control over user permissions, security policies and remote scanning administration.

### Integrate with multiple development tools

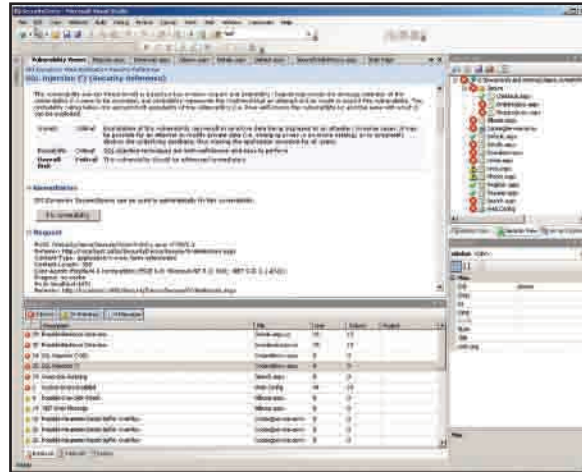
HP DevInspect features deep and intuitive integrations with multiple integrated development environments (IDEs), including Microsoft® Visual Studio, IBM Rational Application Developer and Eclipse. HP DevInspect is designed to support the way you work every day so that development with enhanced security features becomes as familiar as coding and unit testing. You can safeguard your applications and improve your security expertise without ever leaving your IDE.

### Part of a lifecycle approach to application security

HP DevInspect is part of HP Application Security Center, which include products and services that identify and fix security vulnerabilities throughout the web application lifecycle. HP Application Security Center solutions foster collaboration among developers, QA testers and security professionals and reduce the risk and expense typically associated with discovering security defects in production. By identifying vulnerabilities before applications are released to production and preventing new vulnerabilities from being introduced throughout the life of the application, trustworthy software becomes a reality.

## Identify vulnerabilities in your code

The SecureObjects vulnerability remediation technology in HP DevInspect identifies vulnerabilities and automatically applies targeted fixes directly to the source code. Developers maintain total control over the security fixes.



### HP DevInspect checks for:

- Arbitrary command execution
- Authentication and authorization evasion
- Backdoor inputs and exposure
- Buffer overflows
- Command injection
- Cross-site scripting (XSS)
- Data theft
- Directory listing, enumeration
- Extension checking
- Identity spoofing
- Insecure configuration and data access
- Malicious file uploading
- One-click attacks
- Parameter manipulation
- Session hijacking
- Simple Object Access Protocol (SOAP) injection
- SQL injection
- Unwanted file disclosure

## Key features and benefits

### Multiple analysis approaches

- Get comprehensive security assessment for web applications and web services
- Perform source code analysis and black box testing within a single product
- Improve accuracy and results using the hybrid analysis approach
- Receive vulnerability risk ratings based on impact and probability
- Obtain remediation guidance tailored to your target environment
- Download daily vulnerability test updates through SmartUpdate from expert HP security researchers
- Find vulnerabilities exposed through third-party components

### Automated vulnerability remediation

- Pinpoint security defects in an application
- Use SecureObjects, a coding library with advanced security features for new development
- Fix vulnerable code automatically with SecureObjects
- Identify and safeguard all application inputs
- Correct insecure application configurations
- Fix security defects exposed through third-party components

### Advanced AJAX support

- Perform thorough security analysis and automated code fixes for Microsoft ASP.NET 2.0 and asynchronous JavaScript and XML (AJAX) extensions applications
- Support partial page rendered content within UpdatePanel controls

- Perform run-time script interpretation and security analysis of Microsoft AJAX Library, JavaScript, VBScript and Flash
- Discover ASP.NET AJAX web services calls and in-depth security analysis of underlying JavaScript object notation (JSON) and SOAP web services

### Application self-defense for ASP.NET

- Combine white list and black list validation for input validation with advanced security features
- Detect and prevent several types of attacks, including SQL injection, cross-site scripting and buffer overflow
- Inform operations when attacks are detected using security event logging through ASP.NET Health Monitoring
- Protect your applications from brute force attacks using BruteProtector control

### Security education for developers

- Receive detailed security defect descriptions and exploit information
- View in-depth defect reporting
- Share security data about defects and how to fix them

### Multiple integrations

- Support integrations with leading integrated development environments (IDEs)
  - Microsoft Visual Studio 2003 and 2005
  - IBM Rational Application Developer 6 and 7
  - Eclipse 3.1 or higher
- Use as a standalone, Eclipse-based tool
- Support C#, Java™, hypertext markup language (HTML), extensible markup language (XML), SOAP and JavaScript

### Application lifecycle management

- Manage security defects with application lifecycle management software
- Manage and report on vulnerable work items and prevent check-in of insecure code when using Microsoft Visual Studio Team System
- Create and manage security defects directly from vulnerability results when using IBM Rational ClearQuest

## A complete solution

### Comprehensive training

HP provides a comprehensive curriculum of HP Software and IT Service Management courses. These offerings provide the training you need to realize the full potential of your HP solutions, increase your network optimization and responsiveness, and achieve better return on your IT investments.

With more than 30 years experience meeting complex education challenges worldwide, HP knows training. This experience, coupled with unique insights into HP Software products, positions HP to deliver the optimum training experience. For more information about these and other educational courses, visit [www.hp.com/learn](http://www.hp.com/learn).

### The smartest way to invest in IT

HP Financial Services provides innovative financing and financial asset management programs to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information on these services, contact your HP sales representative or visit [www.hp.com/go/hpfinancialservices](http://www.hp.com/go/hpfinancialservices).

### Contact information

To find an HP Software sales office or reseller near you, visit [www.managementsoftware.hp.com/buy](http://www.managementsoftware.hp.com/buy).

## HP Services

### Get the most from your software investment

HP provides high-quality software services that address all aspects of your software application lifecycle needs. With HP, you have access to standards-based, modular, multi-platform software coupled with global services and support. The wide range of HP service offerings—from online self-solve support to proactive mission-critical services—enables you to choose the services that best match your business needs.

For an overview of HP software services, visit [www.managementsoftware.hp.com/service](http://www.managementsoftware.hp.com/service).

To access technical interactive support, visit Software Support Online at [www.hp.com/managementsoftware/services](http://www.hp.com/managementsoftware/services).

To learn more about HP Software Customer Connection, a one-stop information and learning portal for software products and services, visit [www.hp.com/go/swcustomerconnection](http://www.hp.com/go/swcustomerconnection).

## Technical specifications

- 512 MB of random access memory (RAM) to 1 GB of RAM
- 150 MB required (2 GB of free disk space preferred)
- 1 GHz processor or better
- Visual Studio 2003 or 2005, IBM Rational Application Developer 6 or 7, or Eclipse 3.2
- Microsoft .NET 2.0
- Microsoft SQL Server Express SP1
- An active Internet connection (for updates)
- Internet Explorer 6.0 or higher
- Windows XP Professional SP2, Windows® Server 2003 Standard SP1

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