

# Security Audit and Compliance

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Combat the growing threat of Web Application breaches with IBM Rational AppScan®



# The rising problem of web application security breaches

As our reliance on web-based applications has increased exponentially through sheer number and complexity, so too have the associated security risks.

We are seeing an increased frequency of web application breaches resulting in data theft and significant media attention being given to these breaches.

Understandably, customers are demanding corporate accountability when such breaches of security connected with sensitive or personal information occurs.

Web application attacks occur despite perimeter defences such as network firewalls and network vulnerability scanners. Web applications by their very nature allow unknown users to interact with your data and systems. This interaction passes through network defence mechanisms such as firewalls and intrusion detection systems, leaving your business vulnerable to malicious attacks.

**Over the past five years, two key trends have emerged in the security world:**

- Hackers are now motivated by profit and property and no longer doing it for pride or ego
- Software is now the most common target of exploitation, specifically, web applications

Since so many websites contain vulnerabilities, hackers can leverage a relatively simple exploit to gain access to a wealth of sensitive information such as credit card data or personal information.

***To combat the growing threat of Web application breaches, it's important to address three key areas of your business: your people, your processes and your technology***

## Your people

It is imperative that the people developing and deploying your web applications understand the fundamentals of secure design principles and security threats. Security experts have realised that security starts at the code level.

Therefore, it's important to provide your developers with the training they need to stay on top of changing security threats and learn about existing and emerging methods for mitigating them.

## Your processes

As almost anyone who's ever developed software can tell you, it's both easier and significantly cheaper to get it right the first time. That's why integrating web application security testing into the software development lifecycle from the very beginning is essential for establishing good risk management. By approaching the issues proactively, you can save time and reduce your development costs.

## Your technology

There are a number of ways to implement proper security protocols in your web-based applications.

Manual penetration testing alone can be time consuming, labour intensive and costly. However, supplementing manual testing procedures with an automated web application security tool can help you gain a cost-effective, consistent, reliable and scalable analysis of your web application security vulnerabilities—even across large, diverse IT environments.



## IBM. Rational. software

### The tool

IBM Rational AppScan® helps **ensure the security and compliance** of web applications throughout the software development lifecycle by providing visibility to vulnerabilities that could be exploited by hackers. It's designed for the broadest range of users — from non-security professionals to advanced power users.

Rational AppScan® **significantly reduces costs** of the traditional manual vulnerability testing and helps to protect from malicious cyber-attacks by automating the security tests that detect vulnerabilities. AppScan® comes fully equipped with thousands of vulnerability tests which are applied to each web page in the testing process. Rational AppScan® allows the user to manually explore the site initially to create a basic road map to scan. The user is then provided with the ability to allow AppScan® to continue the explore thereby ensuring that every

page in the web application is included. Rational AppScan® also provides mechanisms to periodically test against known vulnerabilities. In addition, AppScan® has a fully integrated malware scanning tool, which scans for malicious software that may be installed on a computer's system.

Rational AppScan® **simplifies the results** within the Results Expert wizard which provides remediation recommendations along with Report Services that offer over 40 out-of-the box compliance and industry standard report including PCI Data Security Standard, Payment Applications Data Security, and OWASP Top 10.

Rational AppScan® is not only **easily implemented**, and addresses application security as reported by ENTERPRISE MGMT ASSOC, it continually sets the benchmark in the security space as seen by winning Tester's Choice for Security award from Software Test and Performance magazine.

*It's more important than ever to examine your web application security, assess your vulnerability and take action to protect your business*



# About Dragonfly

Dragonfly Technologies was established in 2005 with the launch of Firefly Identity Management solutions. Since then, Dragonfly has expanded to offer a range of security solutions and services to protect the online presence of enterprise and medium to large businesses.

The Dragonfly team of security experts help clients reduce risk, complexity and cost in the delivery of secure online systems and processes. The Dragonfly team deliver a range of information security services including; Security Audit and Compliance, Identity Management, Secure Software Development and Secure Voice and Data infrastructure.

Dragonfly enables businesses to tightly align security with business requirements for sustainable and long-term competitive advantage.

Security  
Audit and  
Compliance

Identity  
Management

Secure Voice  
& Data  
Networks

Secure  
Software  
Development

## Security Audit and Compliance

Dragonfly works closely with enterprise and medium to large companies to deliver measurable technical assessments of the security of their information. Our services include:

- Enterprise Security Architecture
- I-RAP & ISM
- ICT Audit & Compliance
- Identity & Access Management
- ISO27001
- Penetration Testing
- Security Strategy
- Security Training
- Web Application Security with IBM Rational AppScan® Solutions



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