



IBM Software Group

Rational Appscan

- Web Application Security QA
- Your Last Line of Defense







Why application security, compliance and policies are high priority

Web applications are the #1 focus of hackers:

- ▶ 75% of attacks at Application layer (Gartner)
- XSS and SQL Injection are #1 and #2 reported vulnerabilities (Mitre)

Most sites are vulnerable:

- ▶ 90% of sites are vulnerable to application attacks (Watchfire)
- 78% percent of easily exploitable vulnerabilities affected Web applications (Symantec)
- ▶ 80% of organizations will experience an application security incident by 2010 (Gartner)

Web applications are high value targets for hackers:

Customer data, credit cards, ID theft, fraud, site defacement, etc

Compliance requirements and standards provide overall assurance of quality and business governance:

- Payment Card Industry (PCI) Standards, GLBA, HIPPA, FISMA,
- Internal regulatory policies







The Alarming Truth

"Approximately 100 million Americans have been informed that they have suffered a security breach so this problem has reached epidemic proportions."

Jon Oltsik - Enterprise Strategy Group

"Up to 21,000 loan clients may have had data exposed"

Marcella Bombardieri, Globe Staff/August 24, 2006

"Personal information stolen from 2.2 million active-duty members of the military, the government said..."

New York Times/June 7, 2006

"Hacker may have stolen personal identifiable information for 26,000 employees.."

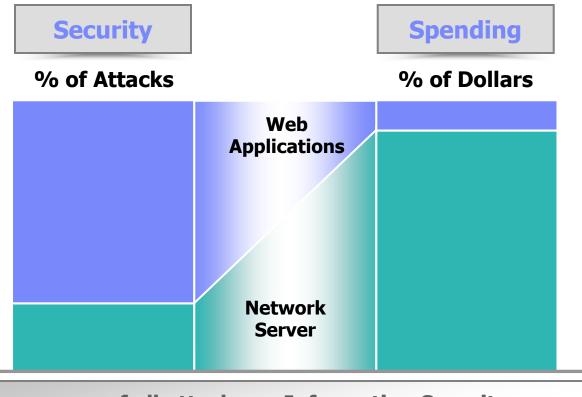
ComputerWorld, June 22, 2006







The Reality: security and spending are unbalanced



75% of all attacks on Information Security are directed to the Web Application Layer

2/3 of all Web Applications are vulnerable

Gartner





Why Application Security Problems Exist

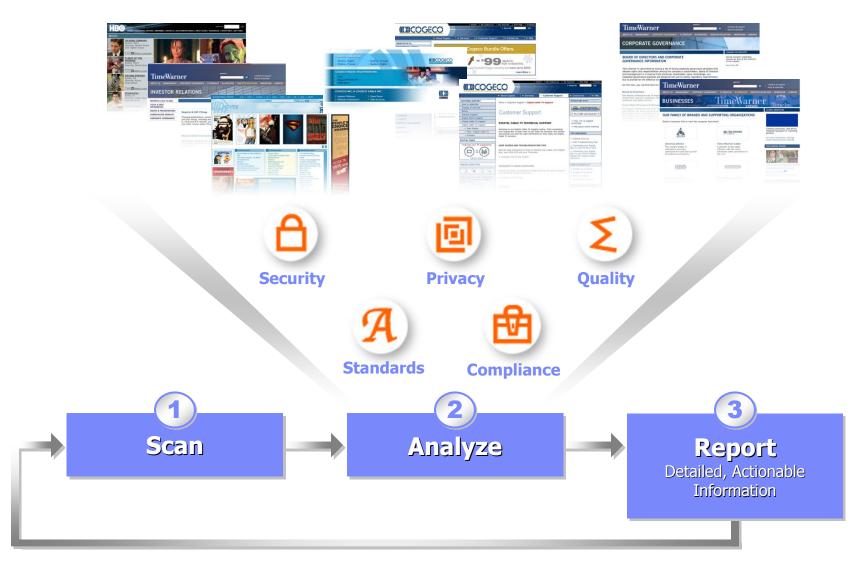
- Developers have usually little training or experience in writing or testing for secure code
 - More likely don't care
- ▶ IT security professionals are mostly from network and infrastructure side
 - Have little experience in application development
- Firewalls, IPS and other network security solutions don't block application attacks.
 - Port 80, 8080, 443
- Network scanners won't find application vulnerabilities.
 - Nessus, ISS, Qualys, Nmap, etc.
- Network security (firewall, IDS, etc) do nothing once an organization web enables an application.
- Attempts to protect application traffic makes transaction experience cumbersome and inefficient







How Watchfire's technology works

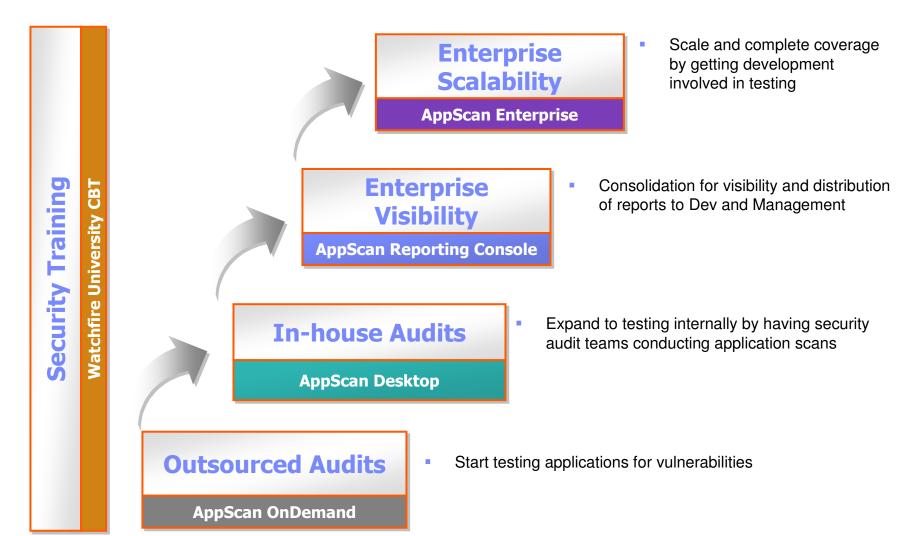








Web application testing maturity model

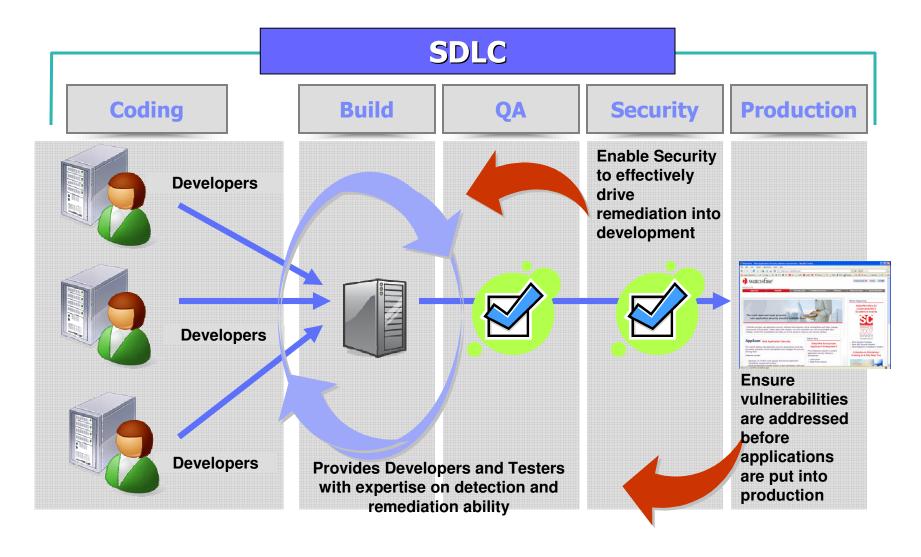








Building security & compliance into the SDLC

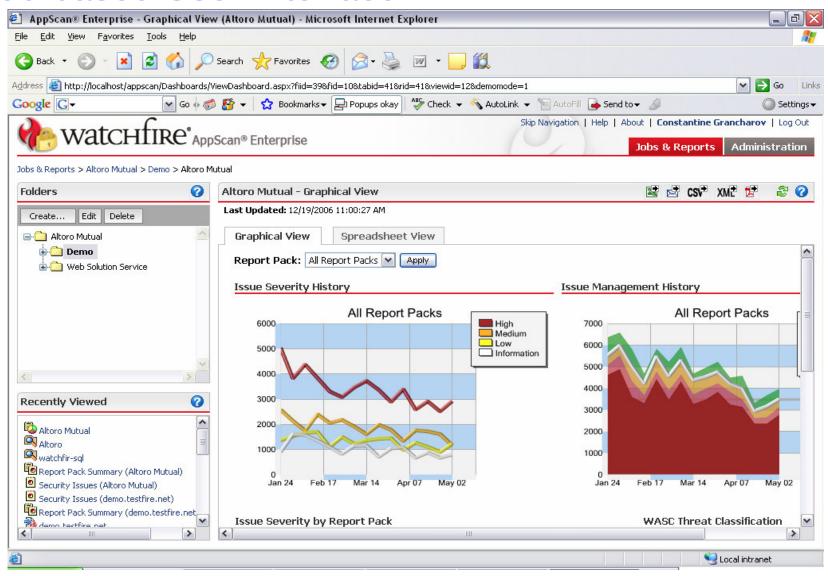








Web-based User Interface

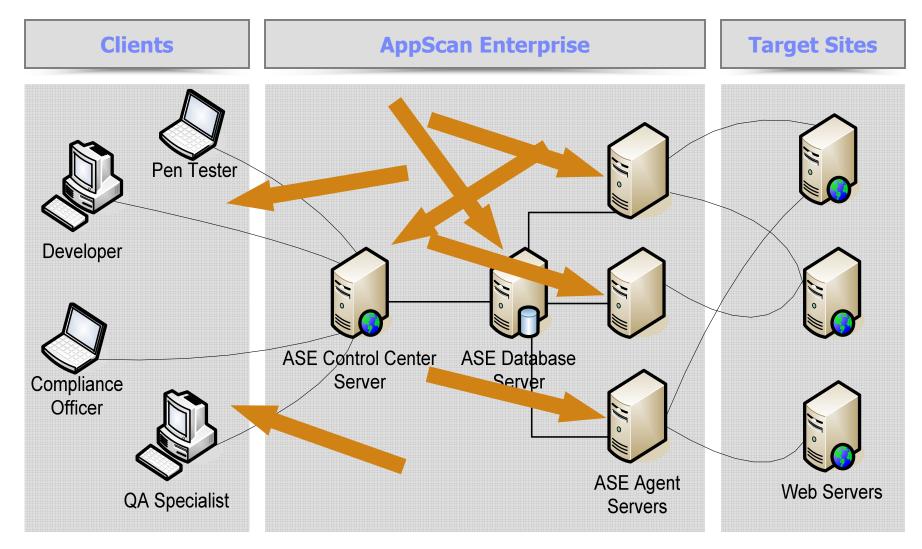








Scalable Enterprise Architecture



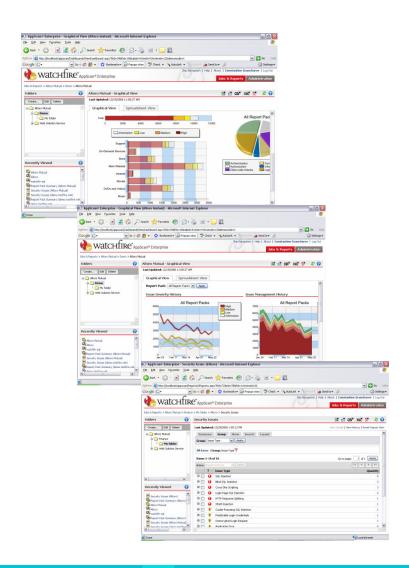






Multi-Level Reporting

- Dashboard Summaries & Trending
- Compliance Reports
- Detailed Vulnerability Reports
- Advisories
- Fix Recommendations









DEVELOPMENT

Rational Software Quality Solutions

BUSINESS

SOFTWARE QUALITY SOLUTIONS

Test and Change Management

Requirements

Change

Defects

Rational RequisitePro

Rational ClearQuest

Test

Rational ClearQuest

Rational ClearQuest

Test Automation

Rational

Developer Test

Rational PurifyPlus

Rational Test RealTime

Functional Test

Rational Functional Tester Plus Manual

Automated Rational

Functional Tester | Manual Tester

Rational Robot

Security and **Compliance Test**

Rational **Performance Tester**

Performance Test

Quality Metrics

Project Dashboards

Detailed Test Results

Quality Reports





OPERATOINS