watchfire
an IBM company

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IBM Software Group

Rational Appscan
– Web Application Security QA
- Your Last Line of Defense

Rational. software

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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

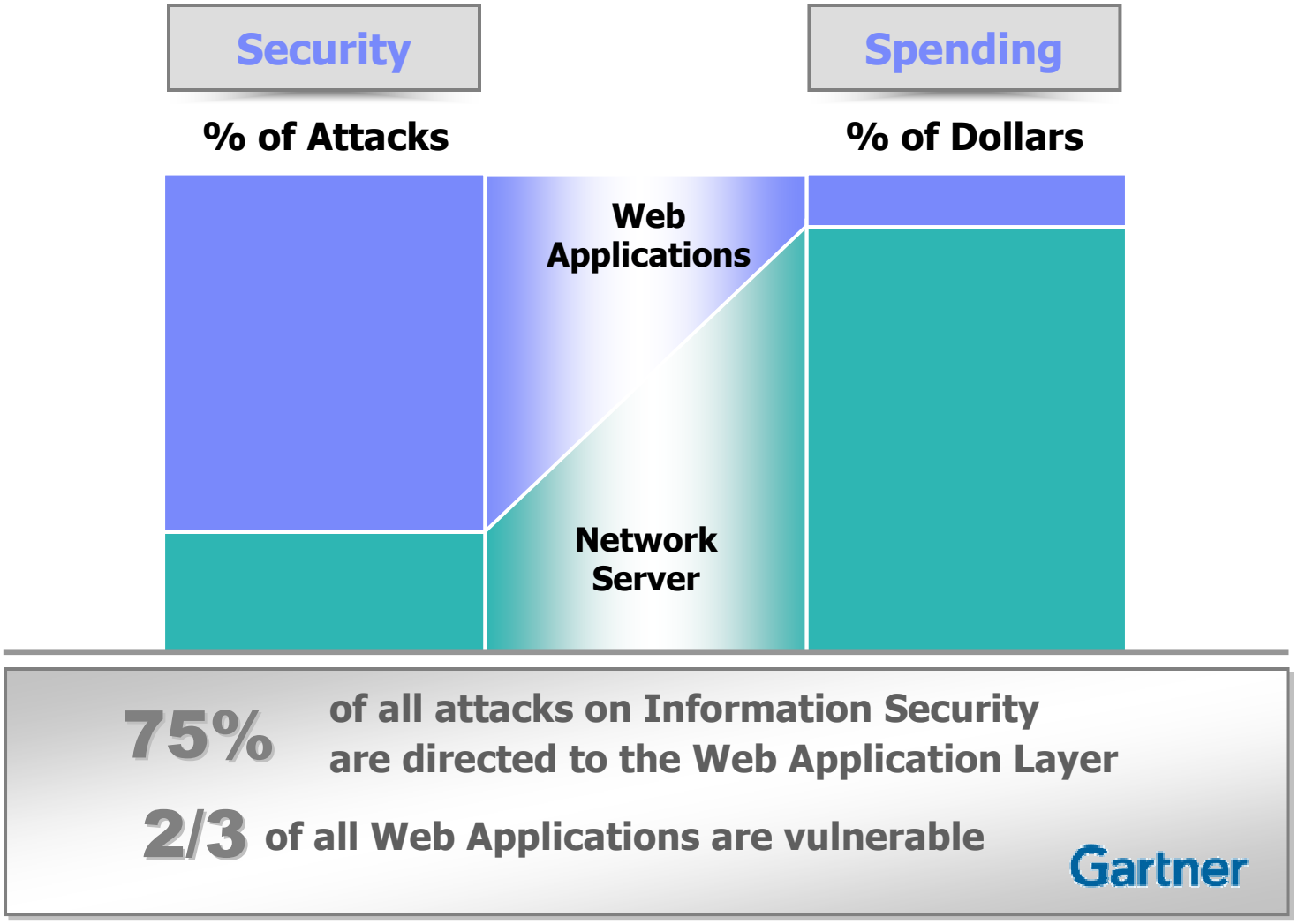
"Personal information stolen from 2.2 million active-duty members of the military, the government said…"

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

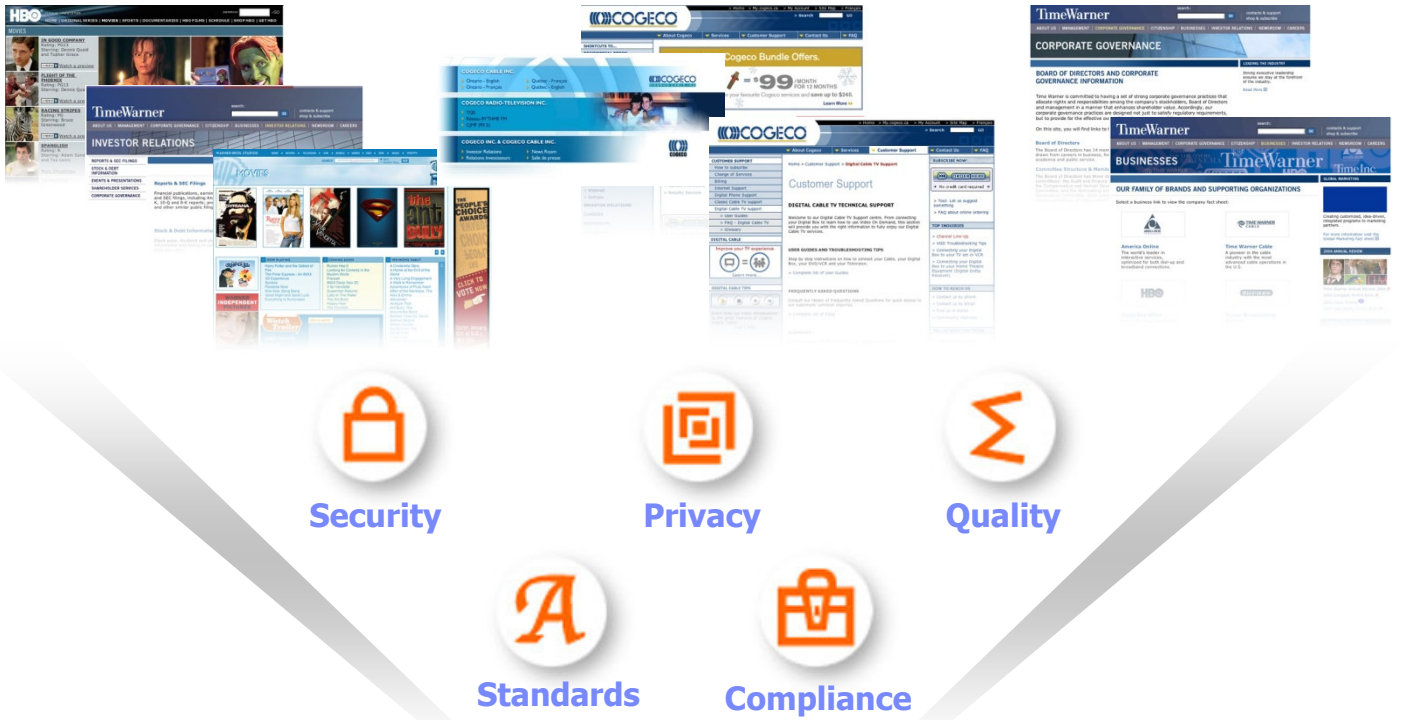


Sources: Gartner, Watchfire

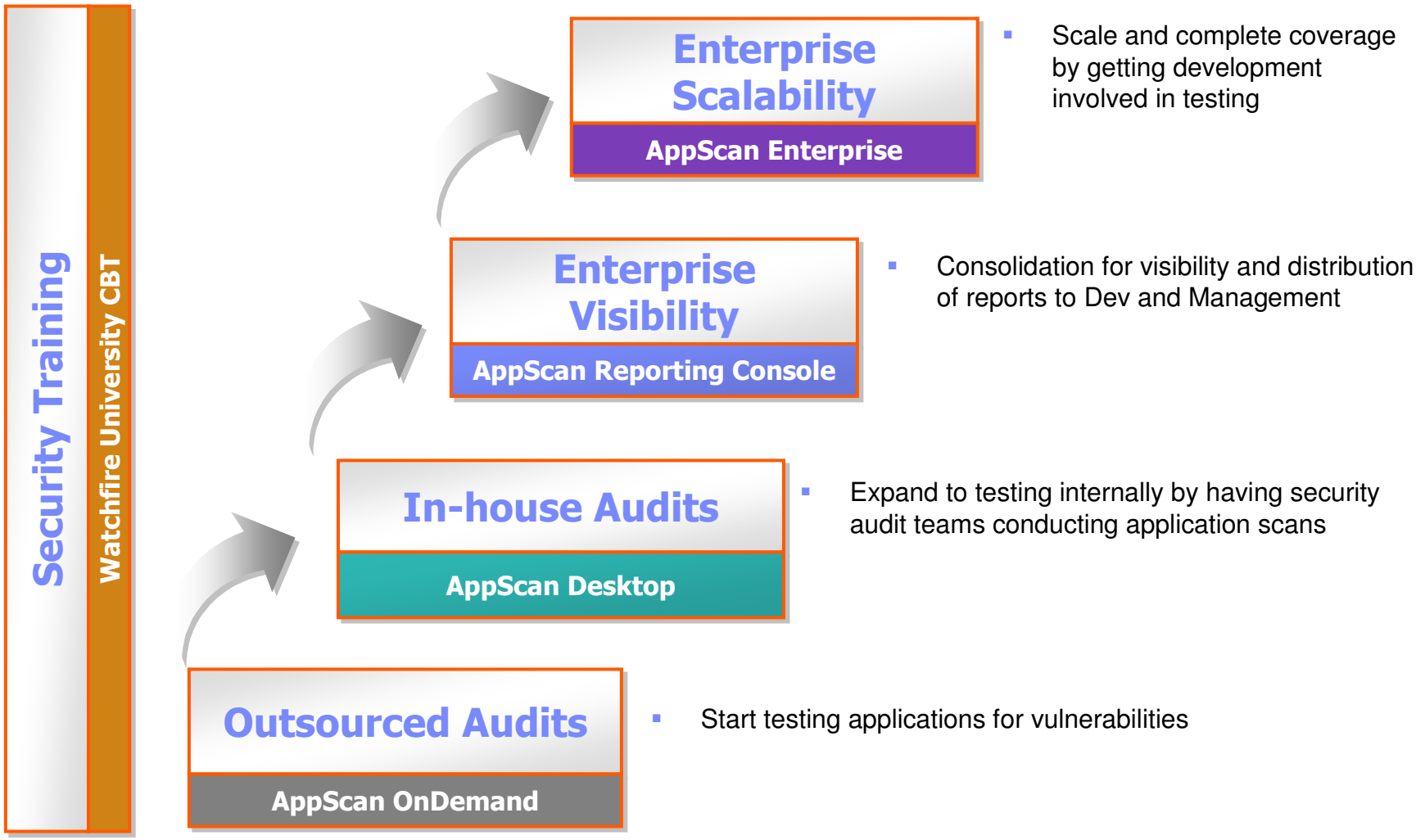
Why Application Security Problems Exist

- **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**

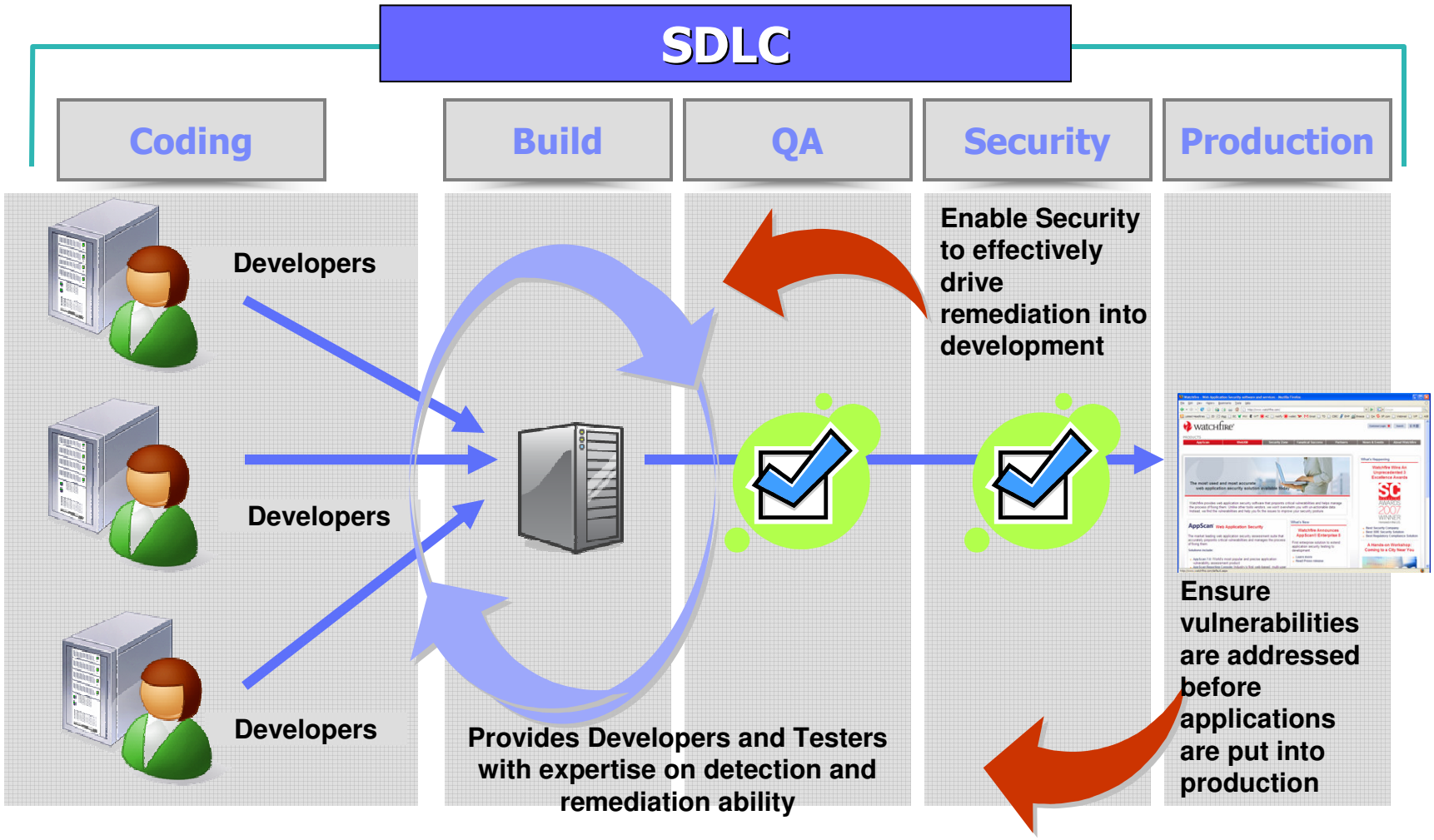
How Watchfire's technology works



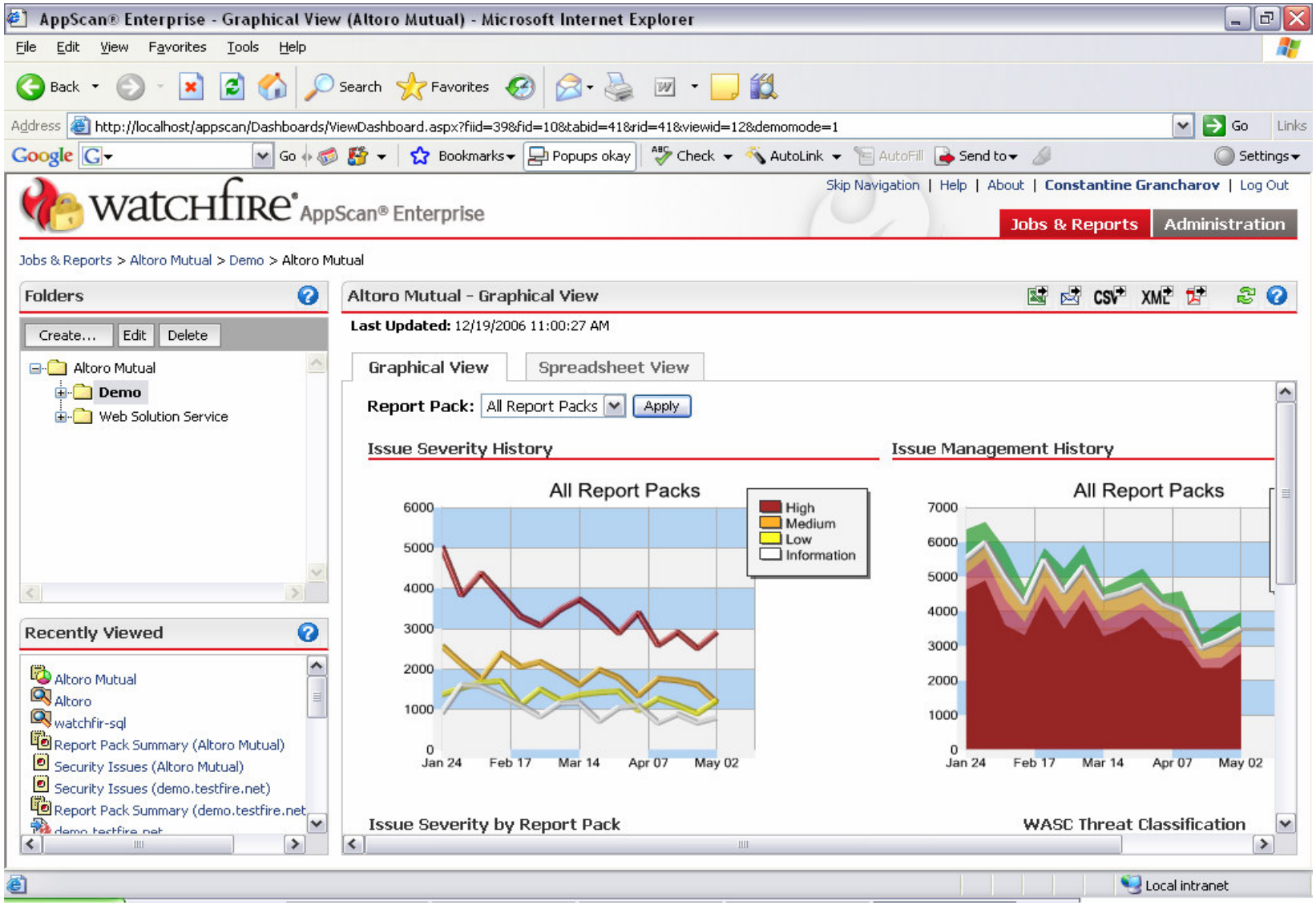
Web application testing maturity model



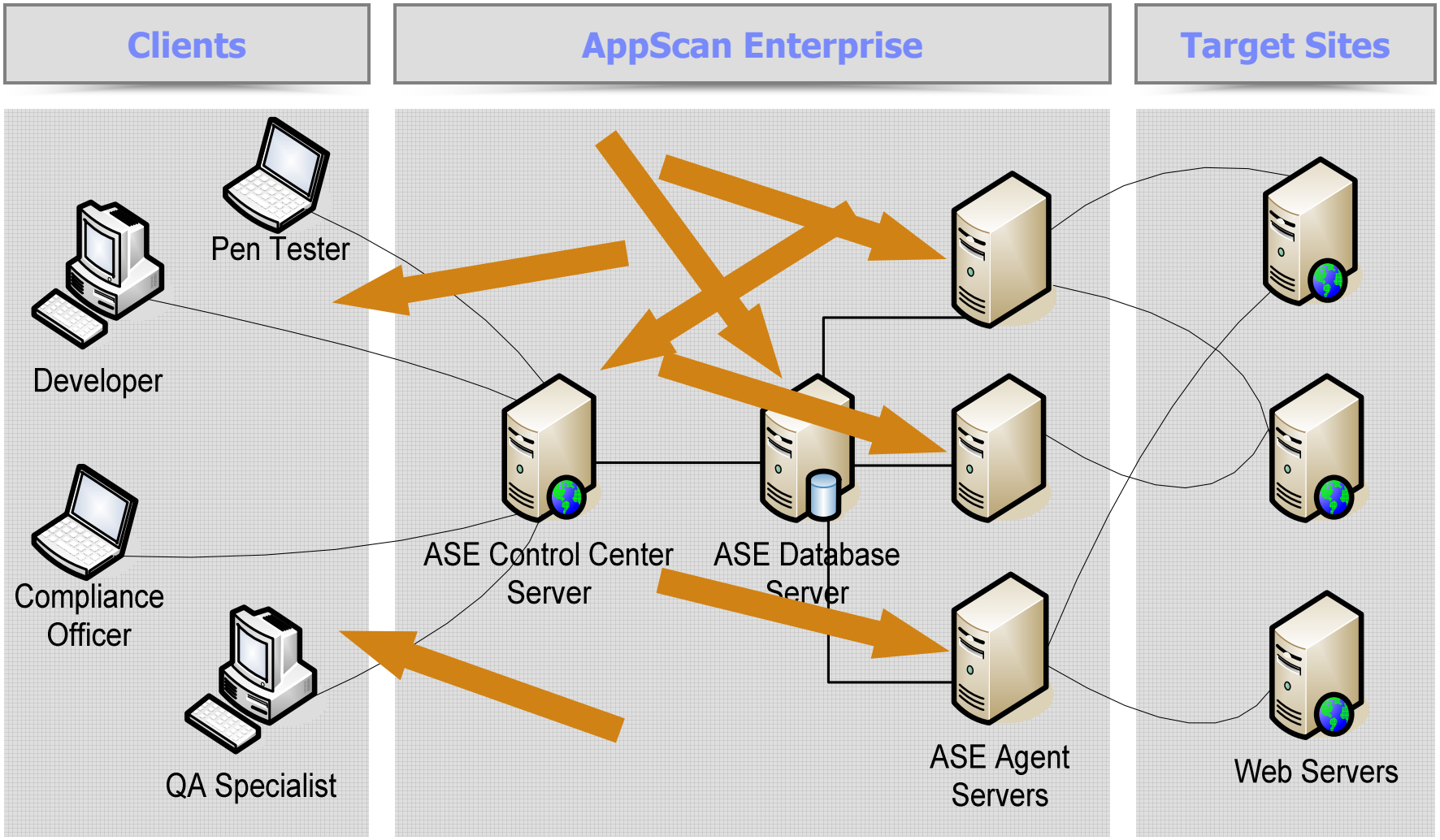
Building security & compliance into the SDLC



Web-based User Interface

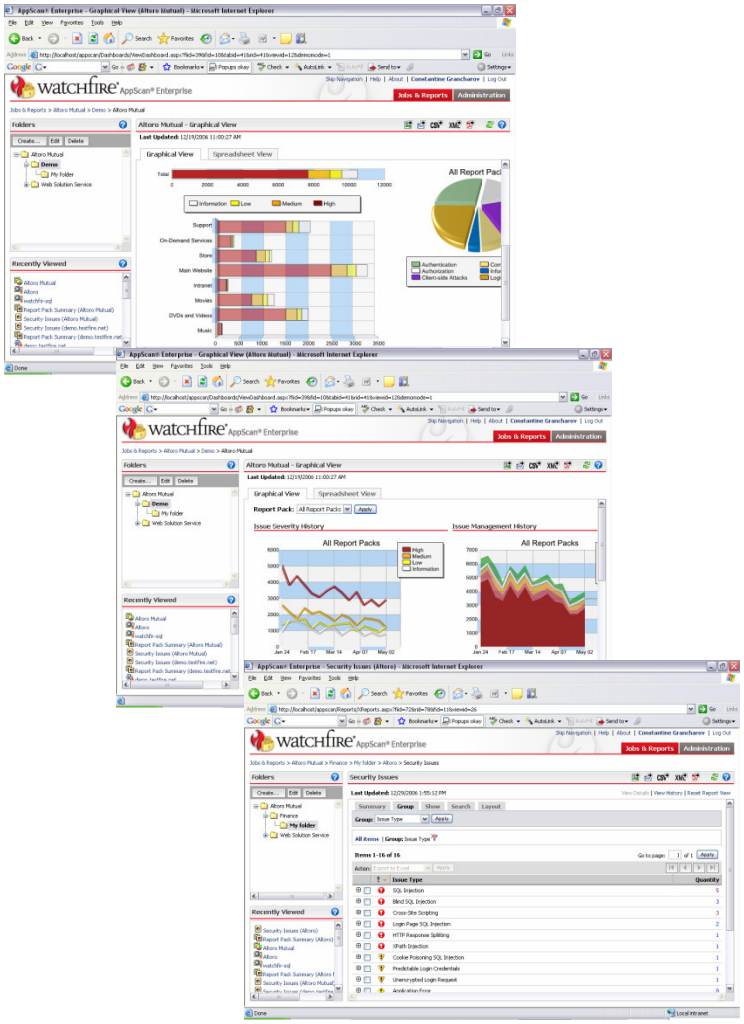


Scalable Enterprise Architecture



Multi-Level Reporting

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



Rational Software Quality Solutions