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Smarter software for a smarter planet.



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Building Managed Security Services using IBM Rational AppScan onDemand

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Smarter software for a smarter planet.



AGENDA

Application Security Problem

IBM Rational Security Solutions

AppScan Deployment Options

AppScan Software as a Service

Case Study – Building Services at COLT Telecom

Colt an introduction (Managed Services, Products etc)

Why AppScan?

The Security workshop

The AppScan six pack walkthrough

The roll-out of AppScan

(design, build, collateral-SD, sales collateral etc)



The Costs from Security Breaches are Staggering

**285 MILLION RECORDS
COMPROMISED IN 2008**

Verizon 2009 data Breach
Investigations Report

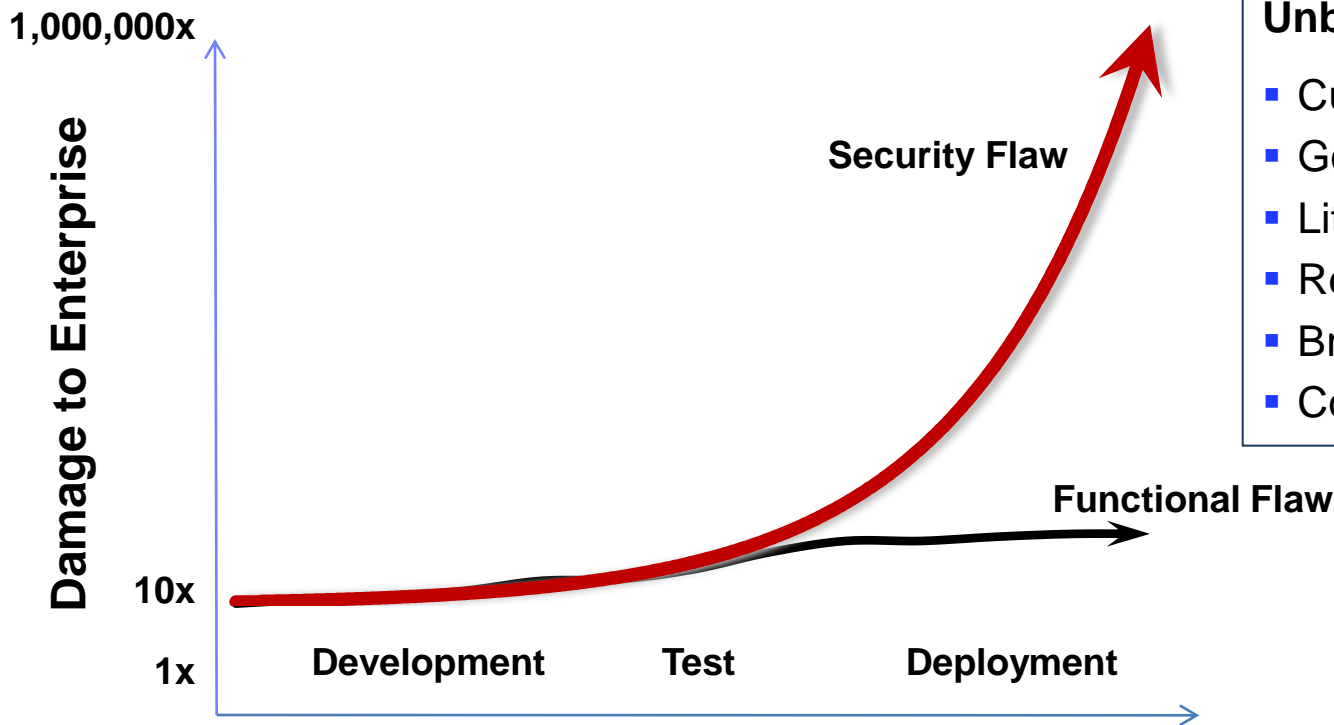
**\$204 COST PER
COMPROMISED
RECORD**

Ponemon 2009-2010 Cost
of a data Breach Report

**TRANSLATES TO \$58.1B
COST TO CORPORATIONS**



Sources of Security Breach Costs



Unbudgeted Costs:

- Customer notification / care
- Government fines
- Litigation
- Reputational damage
- Brand erosion
- Cost to repair

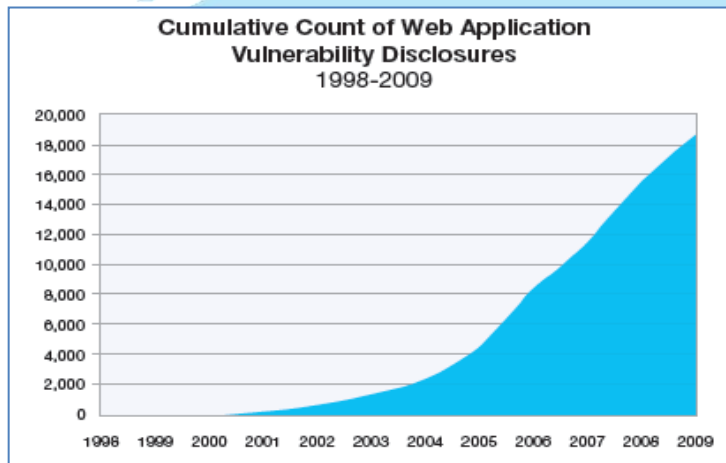
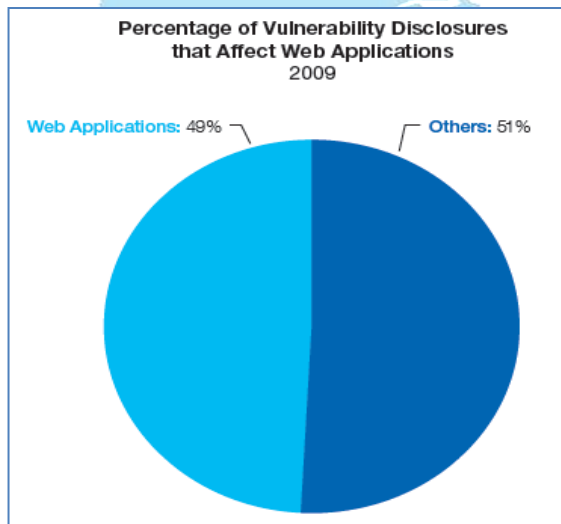


Application Vulnerabilities Continue to Dominate

Web application vulnerabilities represented the largest category in vulnerability disclosures (55% in 2008)

In 2009, 49% of all vulnerabilities are Web application vulnerabilities

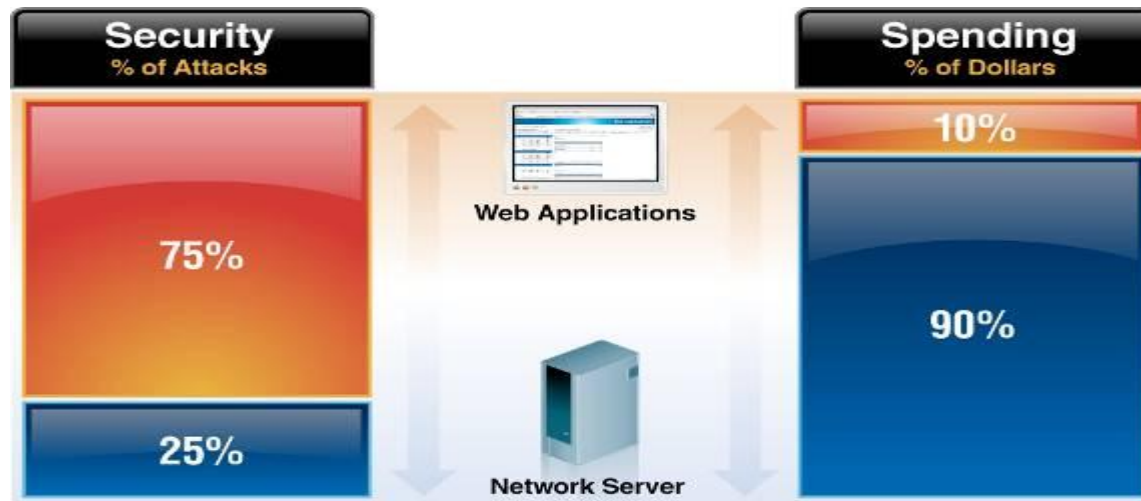
SQL injection and Cross-Site Scripting are neck and neck in a race for the top spot



IBM Internet Security Systems 2009 X-Force®
Year End Trend & Risk Report



Web App Vulnerabilities Continue to Dominate Security and Spending are Unbalanced



“The cleanup cost for fixing a bug in a homegrown Web application ranges anywhere from \$400 to \$4,000 to repair, depending on the vulnerability and the way it's fixed.”

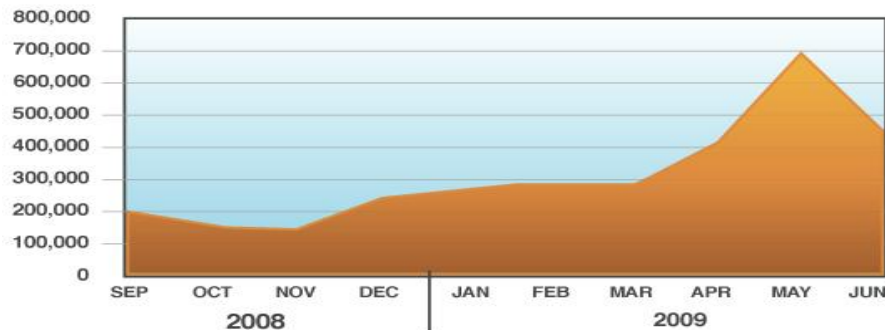
-Darkreading.com



Cross Site Scripting and Injection Attacks Continue to Dominate

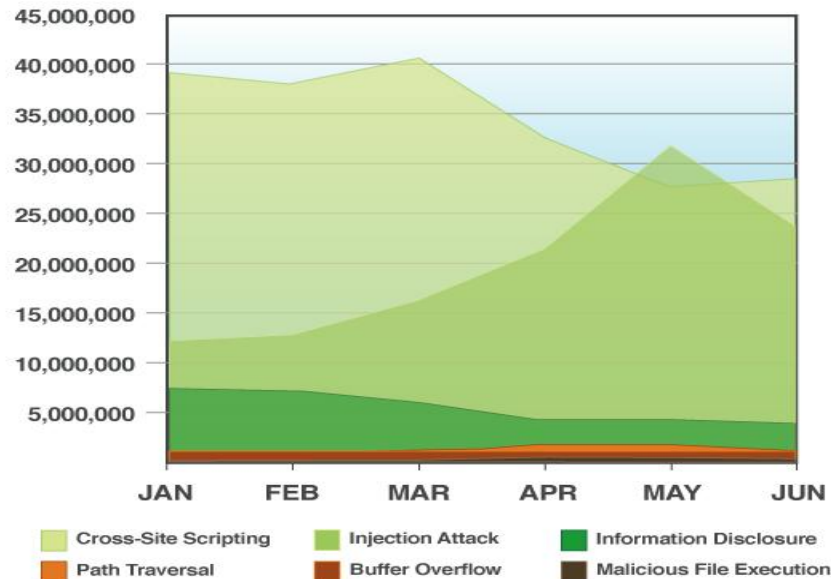
- **90%** of injection attacks are attributed to SQL-related attacks
- Automated toolkits continue to flourish in 2009
- SQL injection attacks continue to grow up **50%** in Q1 2009 vs. Q4 2008 and nearly doubling in Q2 vs. Q1

SQL Injection Attacks
Average Daily Attacks by Month



source: IBM X-Force®

Web Application Attacks by Category



source: IBM X-Force®



Headlines - Rate and Cost of Breaches Steadily Increasing

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SECURITY MANAGEMENT | STORAGE SECURITY | ENCRYPTION | NAC

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Study: Web Application Security Spending Relatively Unscathed By Poor Economy

RELATED

NEWS ANALYSIS

- Scareware Morphs Into Ransomware 03/25/2009
- Liar, Liar: New Service Uses Voice Analysis To Detect Truthfulness 03/25/2009

WEBCASTS

Best Practices for

More companies seek third-party Web app code review, survey finds

Mar 19, 2009 | 02:24 PM
By Kelly Jackson Higgins
DarkReading

First the good news: Despite either have no plans to cut Web

By Robert Westervelt, News Editor
24 Mar 2009 | SearchSecurity.com

Security Wire Daily News

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Companies are paying closer attention to secure software development to reduce shoddy code, which often results in gaping holes that expose sensitive information, according to a new survey conducted by the OWASP Foundation.

SearchSecurity.com:
To get security news and tips delivered to your inbox, [click here](#) to sign up for our free newsletter.

The OWASP Security Spending Benchmark Report surveyed about 50 organizations to determine their spending on secure coding. OWASP found that 61% of those surveyed had an independent third-party security review of software code to find flaws before Web applications are used

live. The percentage surprised Boaz Gelbord, executive director of information security at Wireless Generation Inc., who organized the report with Jeremiah Grossman, chief technology officer of WhiteHat Security Inc. Gelbord said the predominant thinking has been that companies are conducting code review in-house if they're doing it at all.

"One thing that cuts across all the statistics is a growing approach toward secure coding," Gelbord said of the survey.

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Data Loss Costing Companies \$6.6 Million Per Breach

Customers, it seems, lose faith in organizations that can't keep data safe and take their business elsewhere, a Ponemon Institute survey found.

By Thomas Claburn
InformationWeek
February 3, 2009 04:00 AM

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ATTACKS / BREACHES | VULNERABILITIES | APPLICATION SECURITY
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Small Business: The New Black In Cybercrime Targets

Enticed by poor defenses of mom-and-pop shops, hackers turn away from hardened defenses of banks and large enterprises

million per breach, up from \$20 million in 2006. The highest cost of a breach for small organizations was \$32



What is the Root Cause?

1. Developers not trained in security

- Most computer science curricula have no security courses
- Focus is on developing features

2. Under investment from security teams

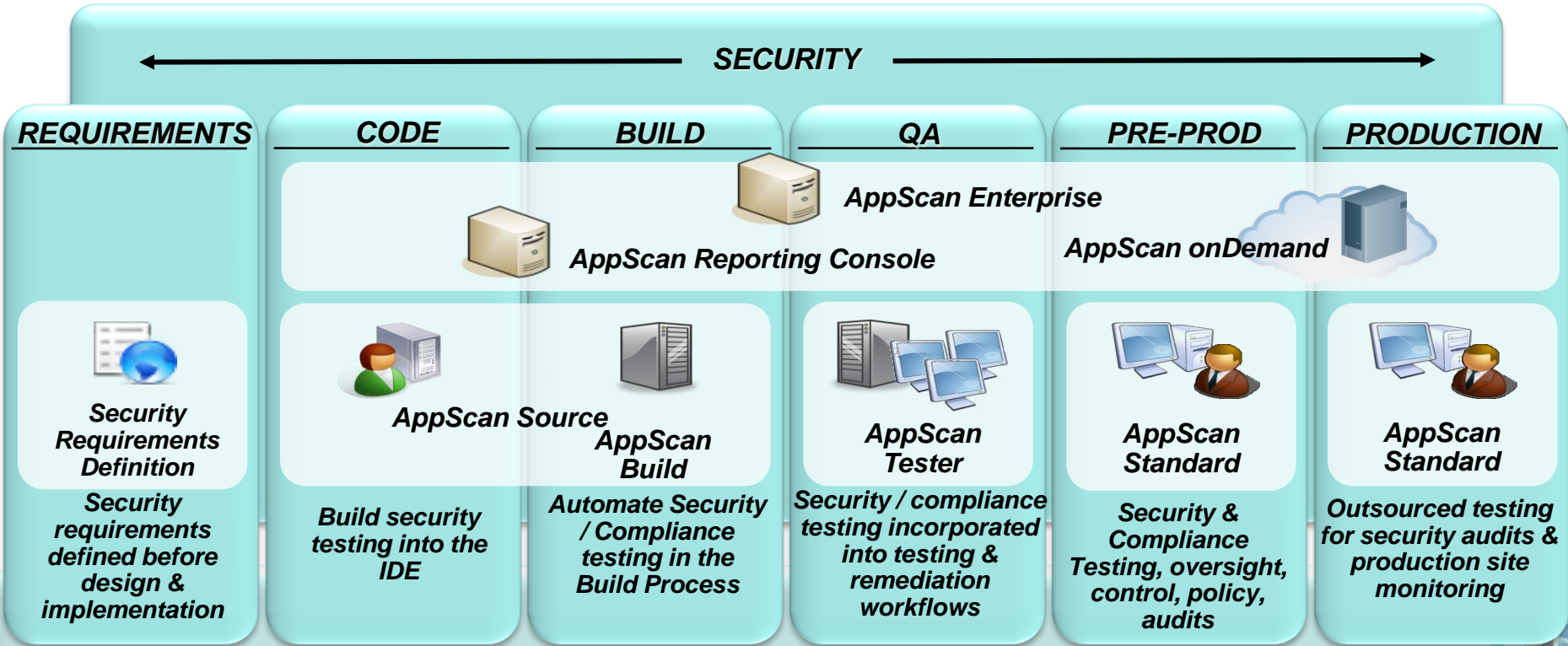
- Lack of **tools**, policies, process
- Lack of **resources**

3. Growth in complex, mission critical online applications

- Online banking, commerce, Web 2.0, etc

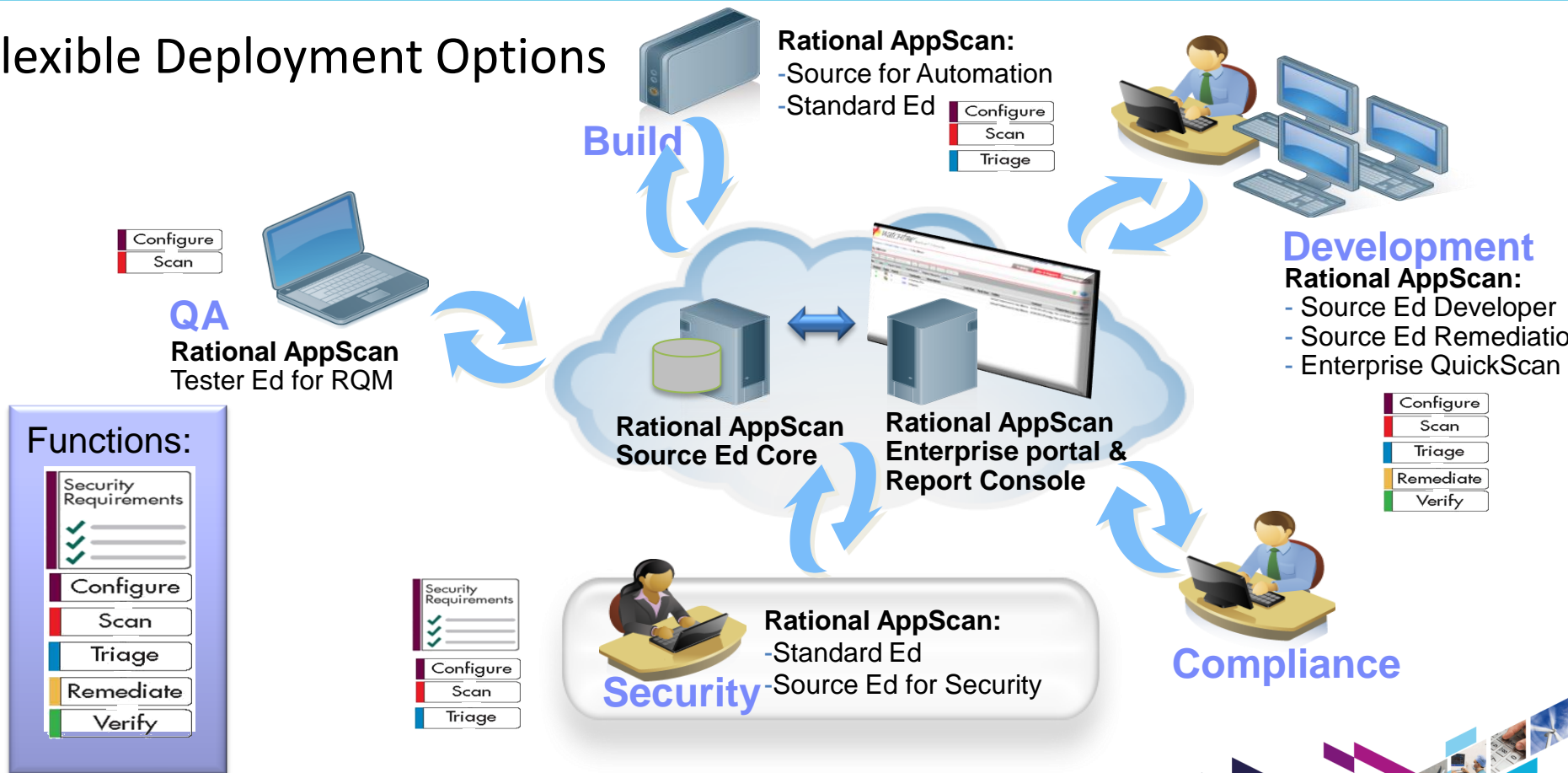


IBM Rational AppScan Suite



Application Security Best Practices – Secure Engineering Framework

Flexible Deployment Options



IBM AppScan OnDemand Offerings: Software-as-a-Service

AppScan OnDemand consist of:

Software

Appscan Standard / Enterprise (Blackbox testing)

Appscan Source Edition (source code analysis)

Solution Management Services

Product experts perform product configuration

Analyze and refine reports

Provide subject matter expertise

Secure Hosting

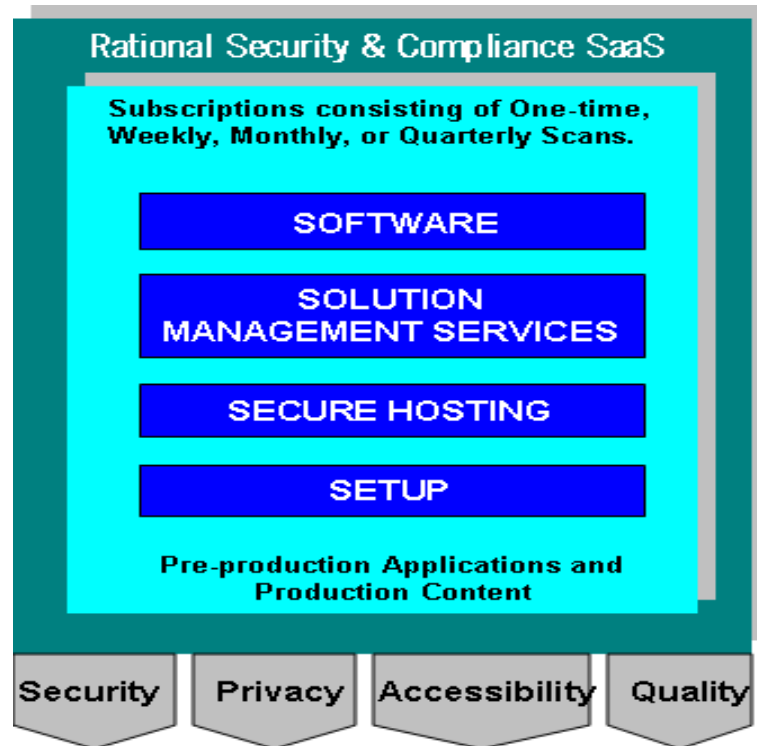
World class Data Center

System administration, system security and availability,
storage management, backup

Setup Services

Software installation and version control

Client access



IBM Rational Software as a Service (SaaS) Solutions

Pre-Production Testing

AppScan onDemand

- AppScan Enterprise-based
- Full test policy, monthly scans
- Full access to hosted software
- Annual contract, page based

AppScan onDemand Premium

- AppScan Standard - based
- Results via AppScan Reporting Console
- Full test policy
- Deep manual analysis & Exploitation
- One-time Application Based
- Quarterly Application Assessments

Production Testing

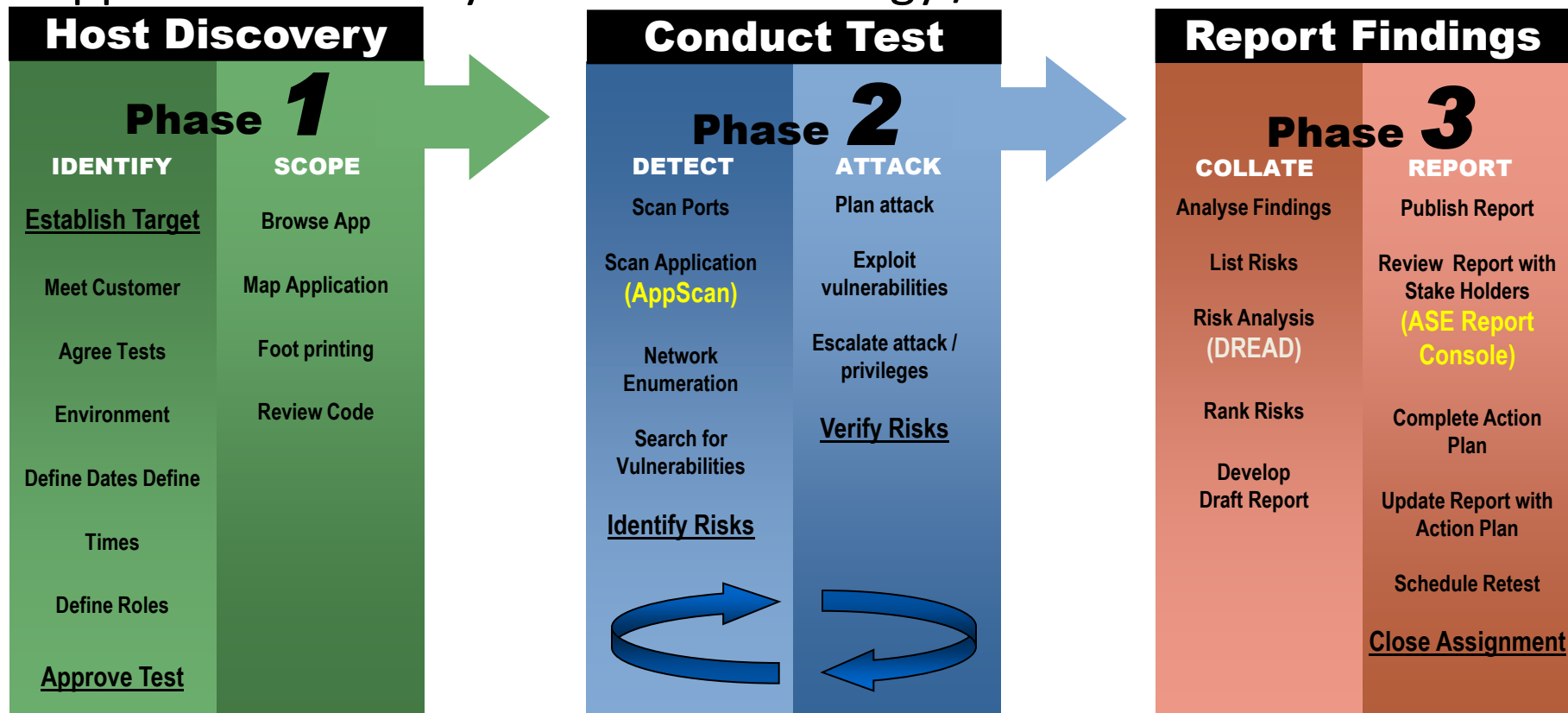
Production Site Monitoring

- AppScan Enterprise-based
- Limited subset of test policy (*safe for production*)
- Continuous/weekly scans
- Full access to hosted software
- Annual contract, page based

Policy Tester onDemand

- For accessibility and privacy compliance, internal quality standards
- Full test policy, monthly scans
- Full access to hosted software
- Annual contract, page based

Application Security Test – Methodology / Process



CASE STUDY



Application Security Services using IBM Rational
AppScan



Reach and resources: COLT's network

Global reach with local knowledge:

- › COLT have 3,000 people in offices across 34 of Europe's main business hubs

COLT own extensive network infrastructure across Europe:

- › 25,000km European fibre network
- › Connecting 34 major European cities and 15,000+ buildings
- › Award-winning network throughout Europe and now the US



Resources: COLT's data centres

Purpose-built, pan-European data centres

19 fully integrated European data centre's connected by our fiber network:

23,000m² hosting space used

Over 5,000 customer racks

Over 25,000 devices (inc. customer)

Over 8,000 services under full management

Over 600TB of back-up monthly

24x7 dedicated Security Operations Centre:

ISO/IEC 27001 certified

24x7
Monitoring



Fault tolerant
power supplies



Fully resilient
air conditioning



24x7 Physical/
Logical security



Controlled
access



Rapid fire
suppression



Track record

Proven ability to deliver with over 40,000+ COLT customers:

Major national and multinational organisations including 3i, PwC, Fidelity; Wegener, Europ Assistance, Deutsche Börse and France 24

1000+ Finance customers including 24 of the world's top 25 financial institutions, 20 European stock exchanges

24 of the top 25 European hedge funds

All top 10 European broadcasters

Top five global providers of financial news and market data

Largest accredited SWIFT network-provider, with 750+ European clients



Why AppScan?

Security threats are a serious concern for COLT's existing or potential customers. (RFP's, bids-security)

COLT have top-class security consultants providing pen-tests and other security services -> AppScan helps us productise these services

A customer facing tool with supporting service demonstrates our security capabilities

A new service for our Sales Team- door opener

“Enabler” with huge up-sell potential.



Sales Journey

Demonstrated mid-Aug 2009

POC (2 week's in Sept 2009)

Procurement completed by end of Sept 2009 (!)

Jan – Mar 2010 productized (Colt T&C's, Book to Bill processes etc)

Workshop Objective: (Start of Productization)

“Build a new COLT security story by defining where we are today (technology, people, capabilities) and where we want to be in the future”

Train pre-sales, sales staff.

Identify potential pilot customers

Alignment with other Colt solutions



COLT Security Services Framework

Design

- DC Architecture Design
- Security Policy Design (A)
- Compliance Consulting (A)

Implementation

- F/W IDS IPS Services and Implementation
- DC Security Controls Implementation
- Compliance Implementation (A)

Assessment

- Application scanning/assessments (A)
 - Process assessments (A)
 - Compliance Assessments (A)
 - Network Infrastructure assessments (A)
 - Forensic Investigations (A)
- Red Current
•Blue Next year

Managed Services

- F/W IDS IPS
- On-going assessments (A)
- Managed Strong Authentication
- Anti-Spam Content Security
- WAF UTM DDoS
- Log Analysis and Reporting (A)
- Compliance Reporting (A)
- On-Demand Services/
Virtualisation Services (A)



Content Overview for COLT Solutions/ Services

COLT Advanced Security Services (CASS) - WEB Security Assessment

Description	Solution Components	Customer Benefits
<ul style="list-style-type: none"> • This service provides security tests of a client's critical web based application(s). A consultant will test the designated application(s) using IBM Rational AppScan products, additional manual testing will be performed. • This service is ideal for onetime assessments or regular quarterly security assessments of critical applications. • This can help a client to meet a compelling deadline such as a PCI audit or other compliance conditions. 	<p>Services</p> <ul style="list-style-type: none"> • Standalone Engagements <ul style="list-style-type: none"> • Basic (3 Days) • Comprehensive (5 Days) • Advanced (10 Days) • Re-occurring/Subscription Based <ul style="list-style-type: none"> • Quarterly, Yearly • Report and Presentation with Risk Analysis <p>Up-Sell / Cross-Sell</p> <ul style="list-style-type: none"> • Other COLT Security Services • Compliance pre-Audit • Risk Management 	<ul style="list-style-type: none"> • Identification of vulnerability of publicly available and internal web based applications. • Periodic re-test to demonstrate improvement • Monitors issues arising from new releases or newly identified attack strategies. • Client is provided with a detailed walkthrough session to outline and explain the findings, discuss remediation and prioritizing of actions arising from the test.
Customer Profile	Competitive Landscape	References
<p>Target Customers</p> <ul style="list-style-type: none"> • Existing COLT customers • Companies already using Managed Services in other areas. <p>Who?</p> <ul style="list-style-type: none"> • CIO, CSO, IT Manager, Application Owners <p>Compelling Business Drivers</p> <ul style="list-style-type: none"> • Assistance with Compliance • Ongoing Application Risk Assessment • Security Validation on new Applications and Services 	<p>Not for publication</p>	<ul style="list-style-type: none"> • COLT OnLine • Read Success Story • Read Success Story

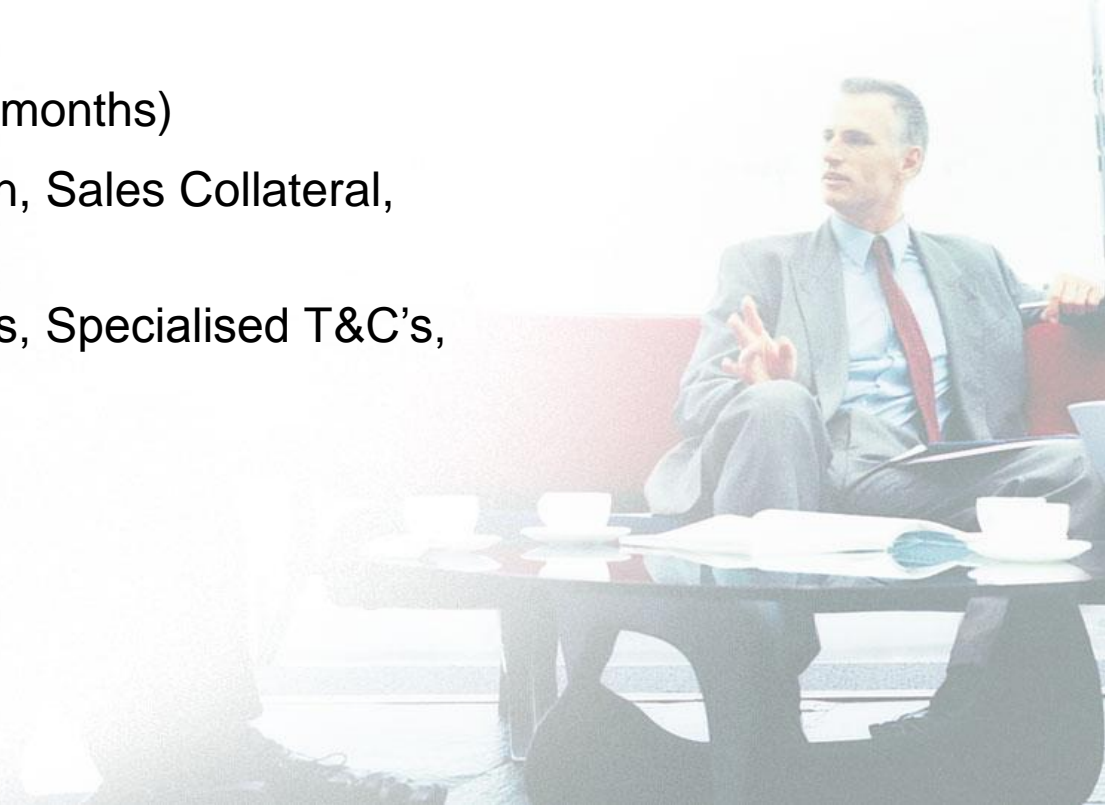
The roll-out of Rational AppScan

Design, Build, Operate Service (2 months)

Productization: Service Description, Sales Collateral,
Marketing etc. (2 months)

Legal: General Terms & Conditions, Specialised T&C's,
Waiver and SoW (2 months)

Training: 2 day training session



First Customers

Illustrates that Colt have top quality Security Consultants & a state of the art Security Portfolio.

First step into on-boarding onto their Cloud Solutions

Major “up-sell” opportunities

Lessons Learned

Catalyst for bundling solutions together e.g. auditing & security solutions

Assisted Colt build a compelling Security Story

Providing our Sales Team with new “door opener” services

AppScan Best of Breed of pen-test tools

Excellent support from IBM.



questions





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