

# Using AppScan Enterprise to Gain Insight Into Your Company's Application Security.

John Paul Lonie, CISSP 4-6<sup>th</sup> August 2009 Innovation 2009 Conference



# Agenda

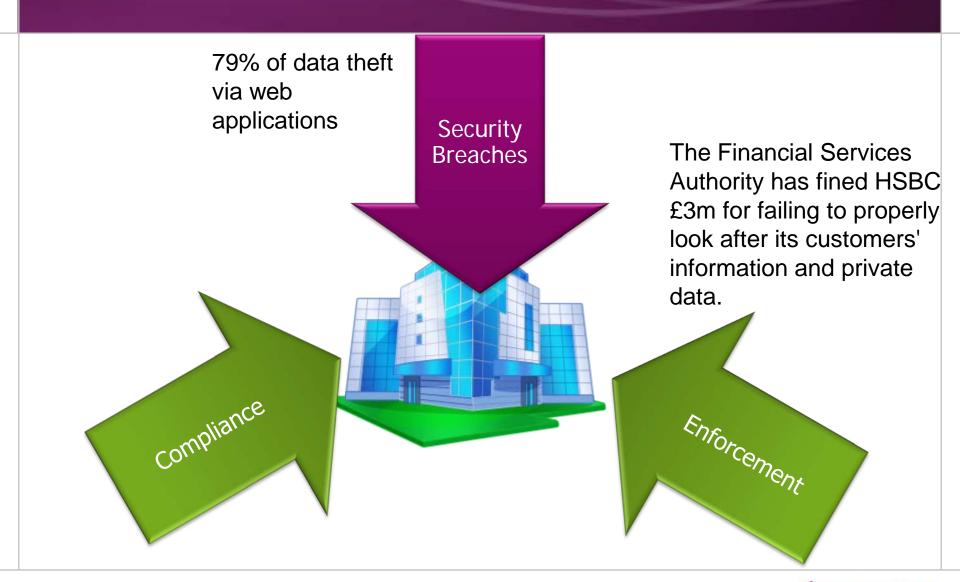
- > About Computershare...
- > Problem definition...
- > Our solution...
- > Outcomes...
- > Questions?

#### Computershare is bigger than you think!





#### Web Application Security and Business Risk





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#### Gaining insight into your application security - Goals

- Understand the security posture of all the web applications you know about and more importantly the ones you don't.
- > Be quick about it. 2-3 months; This isn't meant to be conclusive.
- > Identify the CRITICAL issues and deal with them quickly.
- > Store the information in order to track it and analyse it.
- > Extract as much information from your findings as you can
- > Identify what sites need further testing
- > Provide ongoing process; Guidance for development.



# Why use ASE? - Corporate Summary





# **Summary by Department**

	V Corporation - Overall Dashboard - Security - Summary by Department						
est Updated: 7	nphical Su		tment				
ssues By Se							
Severity	Total	Dept - Backseat - Consolidated Security Issues	Dept - Beehive - Consolidated Security Issues	Dept - Blueprint - Consolidated Security Issue			
High	58 🔱	0 🕂	0 🕂	58 =			
Medium	38 🕂	0 🕂	0 🕂	38 =			
Low	100 —	25 =	25 =	50 =			
Information	44 —	11 =	11 =	22 =			
ssues By Sta	atus Total	Dept - Backseat - Consolidated Security Issues	Dept - Beehive - Consolidated Security Issues	Dept - Blueprint - Consolidated Security Issue			
		Dept - Backseat - Consolidated Security Issues  36	Dept - Beehive - Consolidated Security Issues  36	Dept - Blueprint - Consolidated Security Issue			
Status	Total						
Status Active	Total	36 ♣	36 ↓	168 =			
Status Active Open	<b>Total</b> 240 <b>↓</b> 199 <b>↓</b>	36 <b>↓</b> 17 <b>↓</b>	36 <b>↓</b> 17 <b>↓</b>	168 <del>-</del> 165 <b>+</b>			





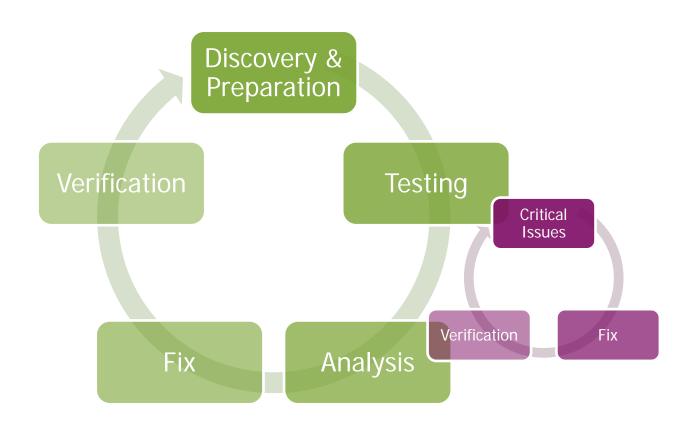
#### Different to your normal Pen testing process

> The goal is different..

...to have some knowledge of all, not all knowledge of some...







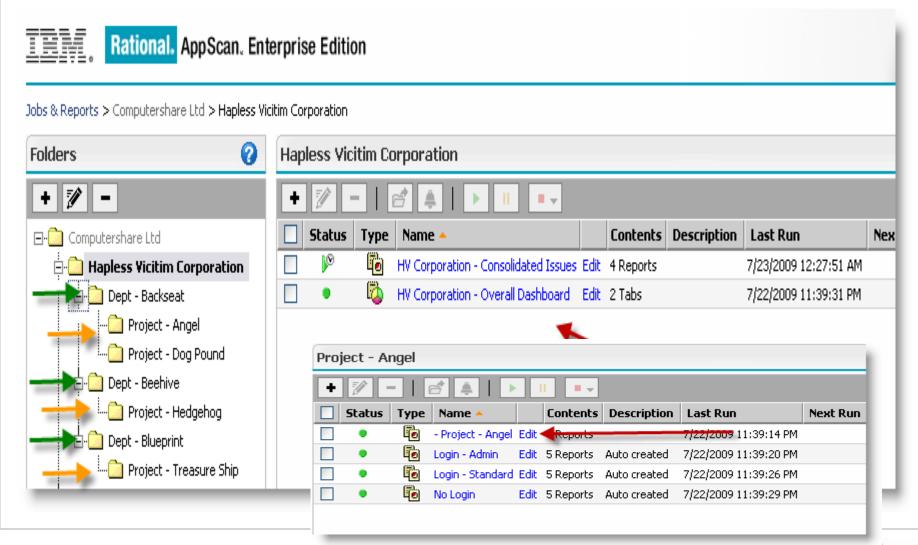


#### **Discovery and Preparation**

- > Supporting Infrastructure
  - > SharePoint
- > Sites List
  - > How do you discover all your sites?
  - > What is a site anyway?
  - > What information should you collect about a site?
- > Testing Groups
  - > Used to reduce the testing effort.
- > Risk Profiles
  - Rank the sites to highlight the important sites.
- > Testing Sheets
  - Make sure you have your testing sheets before testing starts.









#### **Testing**

- > What skill sets will you need?
- > Each testing group consists of 1 or more scans (no login, user login, admin login)
- Each testing group has a summary report which groups all the scan results.
- > Each of the group summary reports are rolled up into a global report





# Triaging Issues – looking for the CRITICAL issues



- Project - Angel	Export •	[≯ Export → 🖂 Email →								
Last Updated: 7/22/2009 11:39:15 PM										
Severity Status										
Report A	Summary	9	▼		i	History				
Application Security Issues	32 issues	0 +	0 +	23 =	9 =	~				
Remediation Tasks	18 tasks, 36 issues	0 +	0 +	25 =	11 =	~				
Security Issues	36 issues	0 +	0 +	25 =	11 =	~				
Security Risk Assessment	15 risks, 36 issues	0 +	0 +	25 =	11 —	~				



#### **Critical Issues**

- > Chances are you will find something nasty during the testing.
- > You need to have a process in place that allows you to fix these quickly.
- > The team leaders are the ones looking for these issues in the results because they look across the result sets.

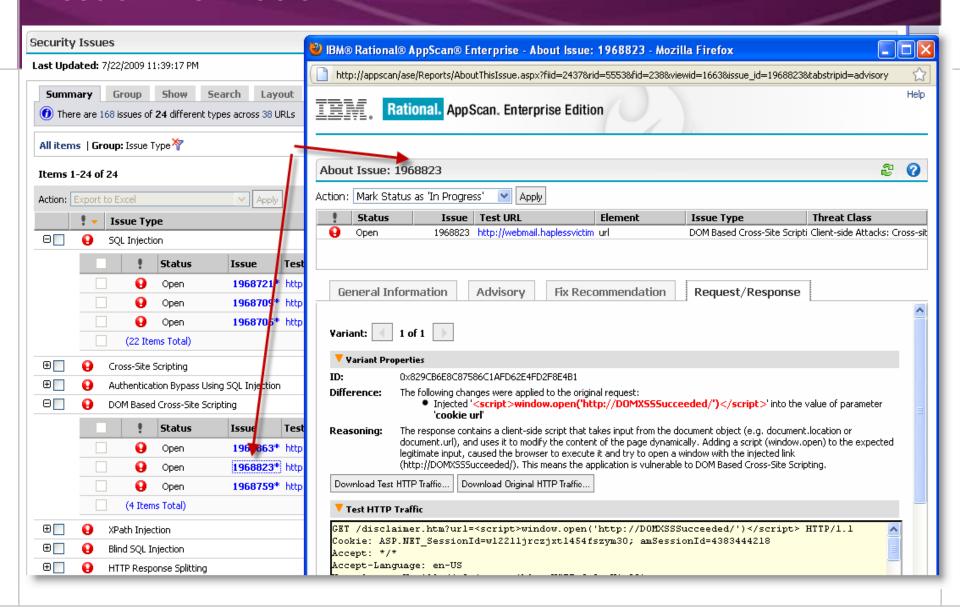


#### **Analysis**

- > Clean up the results.
- > Extrapolate the results.
- > Validate findings within testing groups.
- > Provide the reports to the development teams.
- > Work with the dev teams to help them understand the results.
- > Verify the fixes.
- Communicate with management.

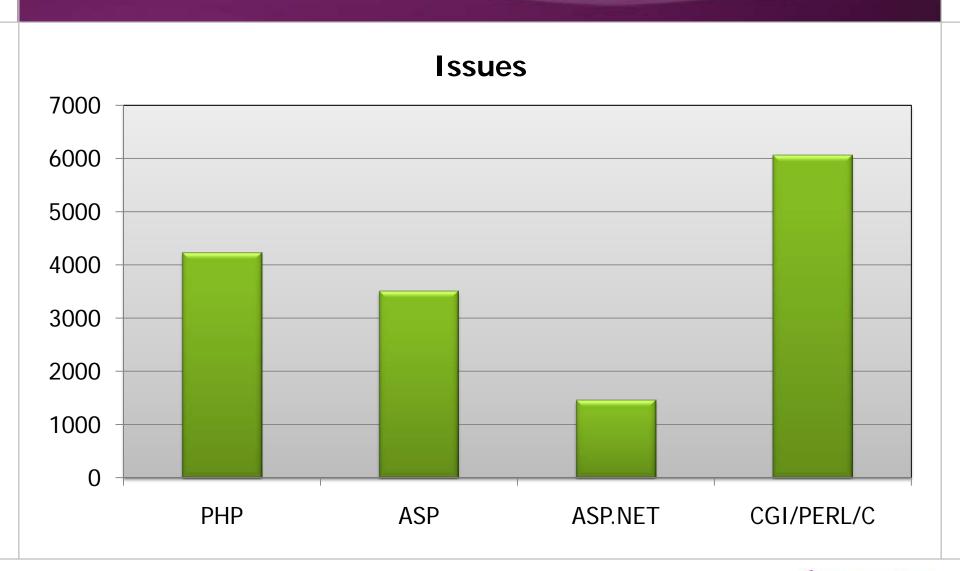


#### **Issue Information**



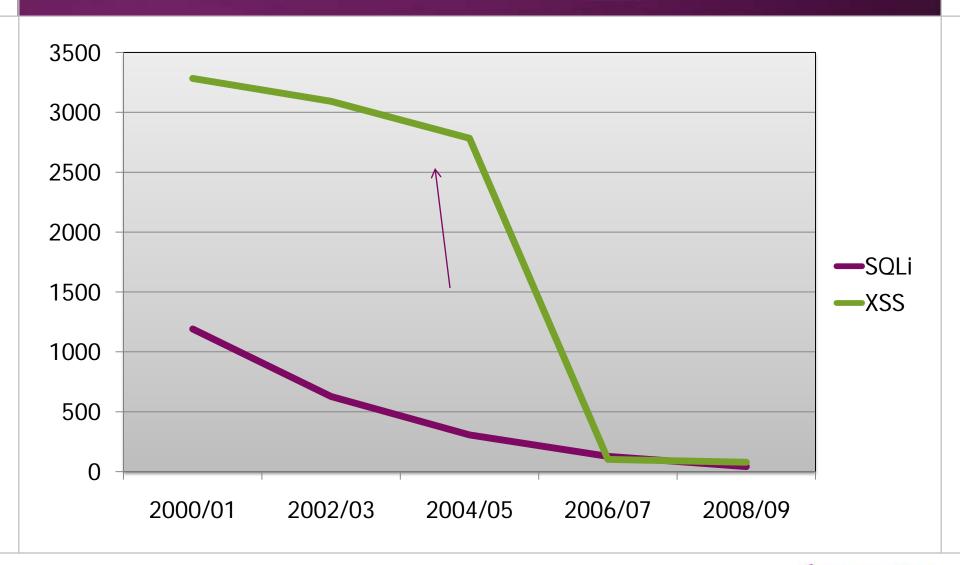


### Issues with different languages





## Are we getting better with age?





#### So what are the benefits?

- > Understanding your security posture and your weaknesses.
- You can now answer questions like;
  - > What groups need more training and on what topics?
  - > How good or bad are my frameworks?
  - > How does development methodology affect security? Agile?
  - > Yes really ASP.NET is much more secure then ASP, and its worth spending money on converting it, Mr PHB

Because you have the stats to show it.



#### **Lessons Learnt**

- > Preparation makes all the difference.
- > Consider bringing in outside help.
- > Make sure your testing environment is humming...
- > Spend some time optimizing ASE.
- > Have your critical issue process well documented before you need it.
- Its not that you can't write secure code in PHP, its just that nobody does.



# Thank you for listening!

#### Questions?

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#### About Computershare Limited (CPU)

Computershare (ASX:CPU) is a global market leader in transfer agency and share registration, employee equity plans, proxy solicitation and stakeholder communications. We also specialise in corporate trust services, tax voucher solutions, bankruptcy administration and a range of other diversified financial and governance services.

Founded in 1978, Computershare is renowned for its expertise in data management, high volume transaction processing, payments and stakeholder engagement. Many of the world's leading organisations use these core competencies to help maximise the value of relationships with their investors, employees, creditors, members and customers.

Computershare is represented in all major financial markets and has over 10,000 employees worldwide.

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