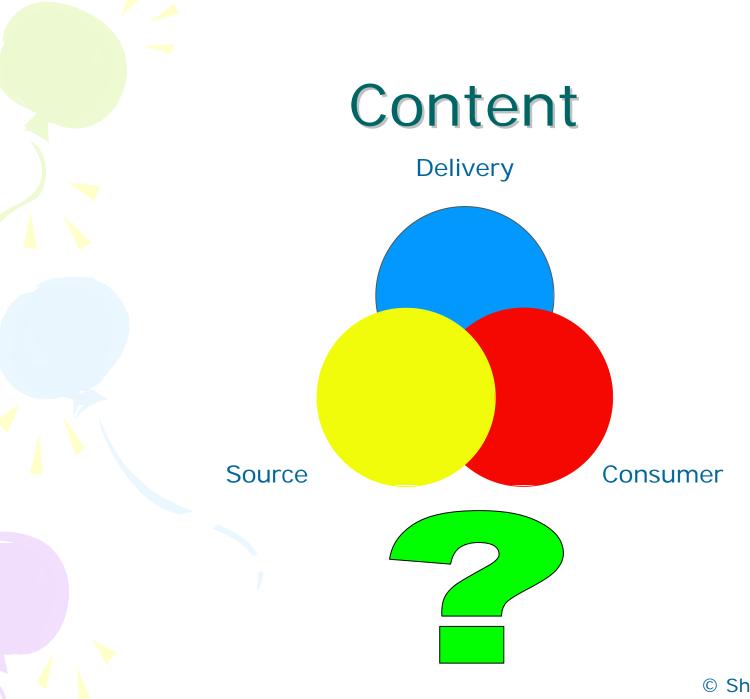
Malicious content

in enterprise portals

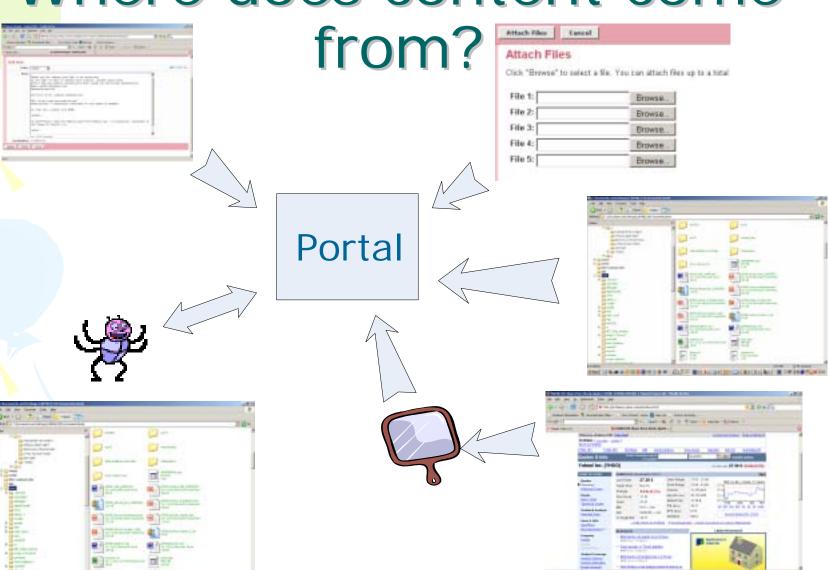
Presented by Shalom Carmel Shalom@venera.com

Why do we care?

- Portals are more than Intranets
- Portals getting common
- Targeted applications
- Multitude of content sources
 - Many sources
 - Many formats
 - Many technologies
- Expensive to maintain

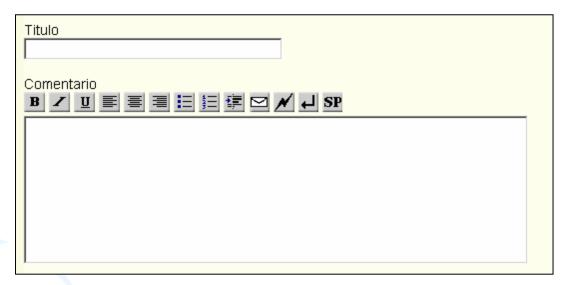


Where does content come



Content entry templates

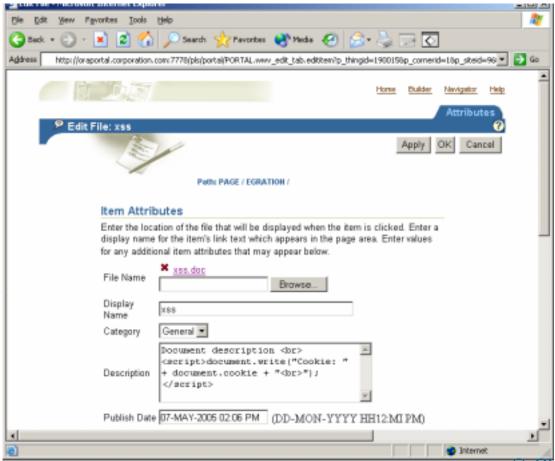
 Just like in all CMS (Joomla, Mambo, PHPNuke, Zope, Plone, Jetspeed,...)



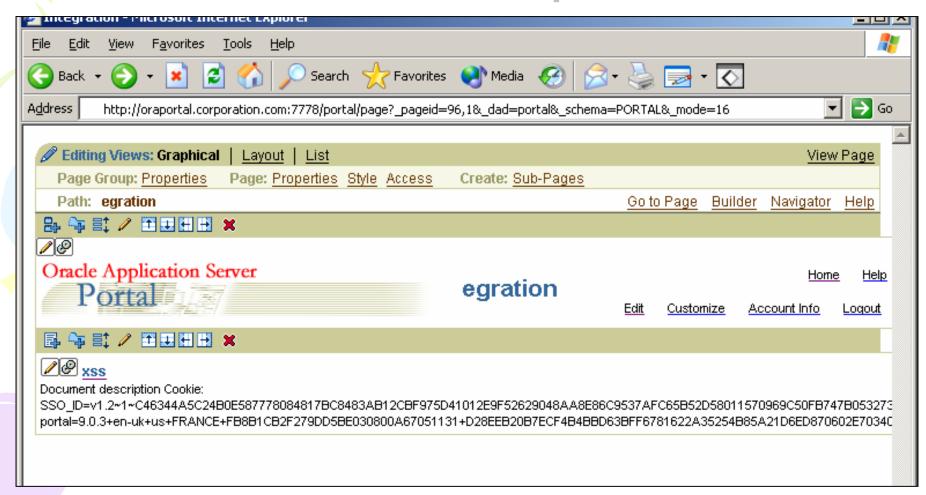
Content entry templates



Poisoned at birth



Result of upload

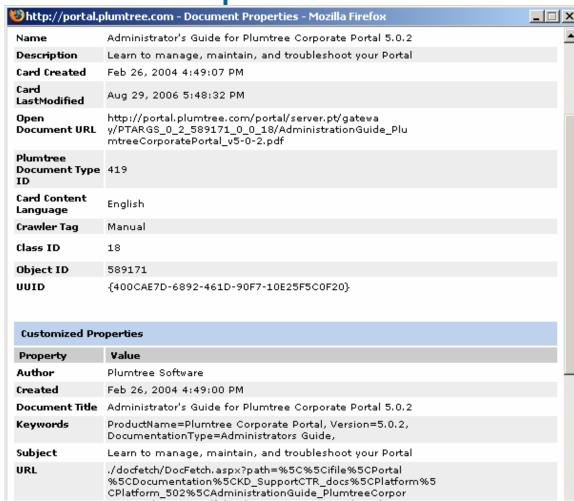


Upload manual metadata

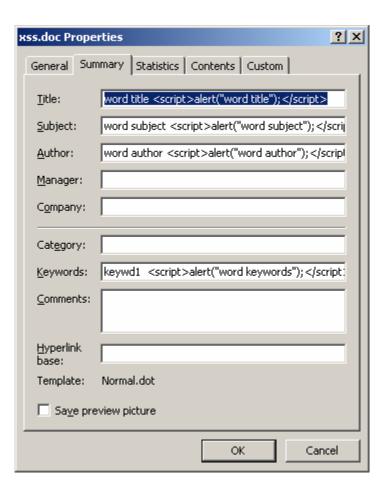


Document metadata → portal

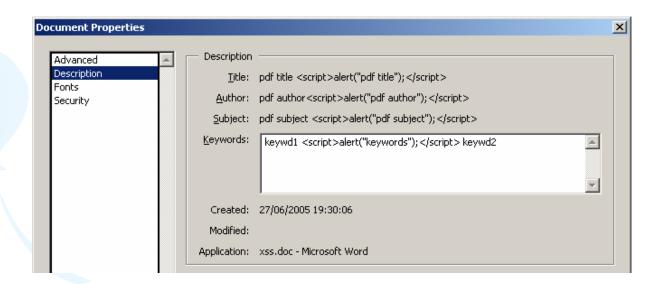
metadata



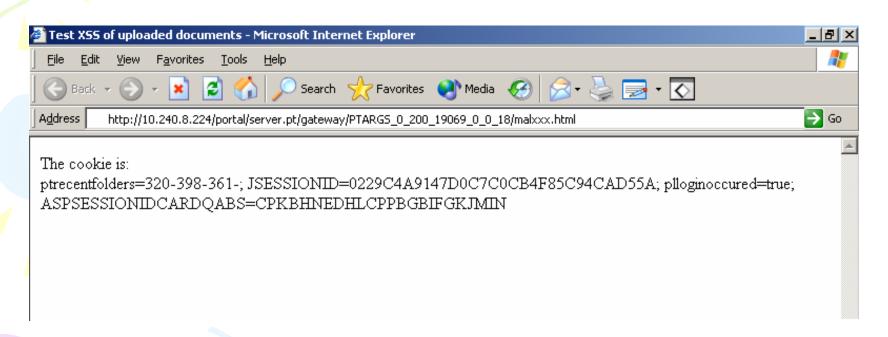
Poisoned at conception - ms office



Poisoned at conception - acrobat



Poisoned at conception - html





WebDav
Oracle File System
SharePoint

Uploaded docs properties Uploaded docs contents



External web content

Until now we had some control!

External web content

- Meta-data
- Portlets
- iframe? reverse proxy? custom code?

External web content

reverse proxy example

General Document Properties		
Property	Value	
Name	December 15, 2005 New Product Roadmap Vision for BEAs Portal.ppt	
Description	Presentation	
Card Created	Dec 20, 2005 12:49:09 PM	
Card LastModified	Mar 30, 2006 2:18:03 PM	
Open-Document URL	http://portal.plumtree.com/portal/server.pt/gatewa y/PTARGS_0_2_2805427_0_0_18/December%2015,%202005% 20New%20Product%20Roadmap%20Vision%20for%20BEAs%20 Portal.ppt	
Plumtree Document Type ID	585	
Card Content Language	English	
Keywords	BEA_BIP_Portal_Overview_simple_v3, BEA_BIP_Portal_Overview_simpl BEA_BIP_Portal_Overview_simple_v12, BEA_BIP_Portal_Overview_simp	
Security	Employees-Only	
Subject	BEA BIP Portal Overview Simple	
URL	http://prodauth02.plumtree.com/ntcws/docfetch/DocF etch.aspx?path=%5C%5CIfile%5Cportal%5CEvents%5C200 5+Presentations%5CDecember+15%2C+2005+New+Product+ Roadmap+Vision+for+BEAs+Portal.ppt&signature=63270 2527040150000&locale=	

External content



Crawl and index

- Special case of external content
- Web, file systems, email, databases

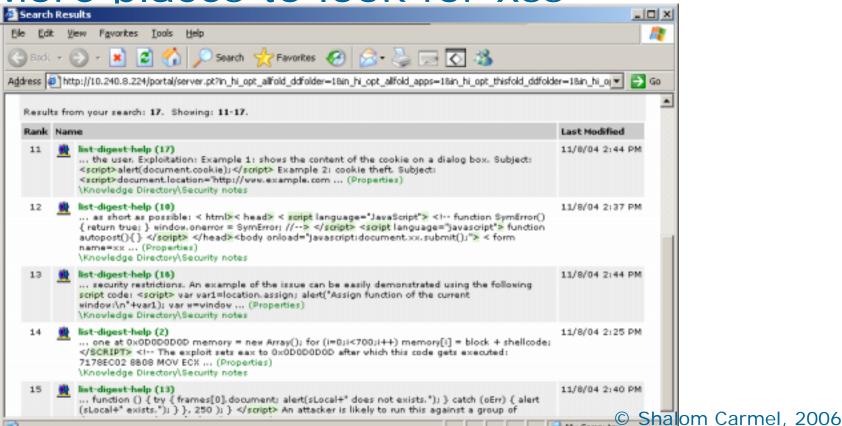
Crawled content



Search and retrieve

Federated search

More places to look for xss



Search results



Content entry templates	YES
Upload manual metadata	YES
Uploaded docs properties	Maybe
Uploaded docs contents	Maybe
External content	NO*
Crawled content	NO*
Search results	NO*

^{*}Technically possible but very difficult implementation