Business. Made Social.

# Creating an Exceptional Web Experience - A Technical Journey

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- Basics & Business Benefits of WebSphere Portal
- WebSphere Portal Architecture
- WebSphere Portal Administration and Security
- Web Content Management
- Integration and Portal Features
- Portlet Development
- Delivering to Mobile Audiences
- Additional Information and Resources
- Summary

## **WebSphere Portal:**

## Proven Entry Point For Exceptional Web Experiences



Portals provide a single point of personalized interaction with people, content, processes & applications, in context of the user

#### **Deliver Exceptional User Experiences**

- Differentiate yourself to your customers
- Drive revenue and loyalty with your partners
- •Enable productive and efficient employee web interactions

#### **Significantly Reduce Costs**

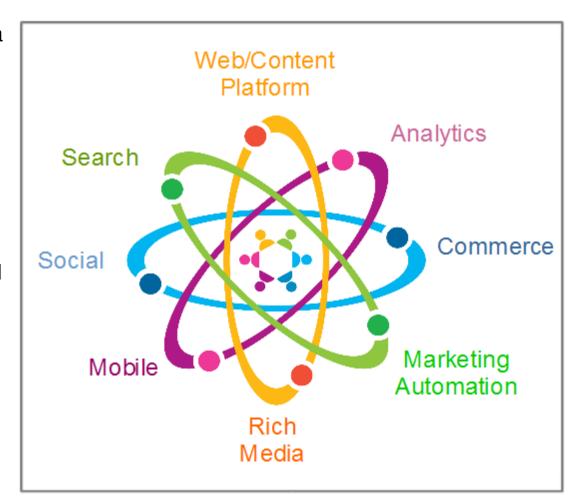
•Up to 50% in labor and other savings



## **IBM's Exceptional Web Experience Strategy**

Helping You Create Differentiated, Engaging Online Experiences

- Integrated Speed time to market with a core platform
- Open Leverage & extend existing data sources through robust integration capabilities
- Social Drive innovation & improve collaboration thru socially-infused experiences
- Instrumented Support evidence-based decision making through analytics
- Contextual Increase customer satisfaction by with experiences tailored to a user's location, attributes, preferences, device, behaviors.
- Flexible adapt to handle the latest advancements + technology changes



Our vision is to help you realize the "art of the possible" for engaging your customers on the web



## **Business and Operational Advantages of WebSphere Portal**

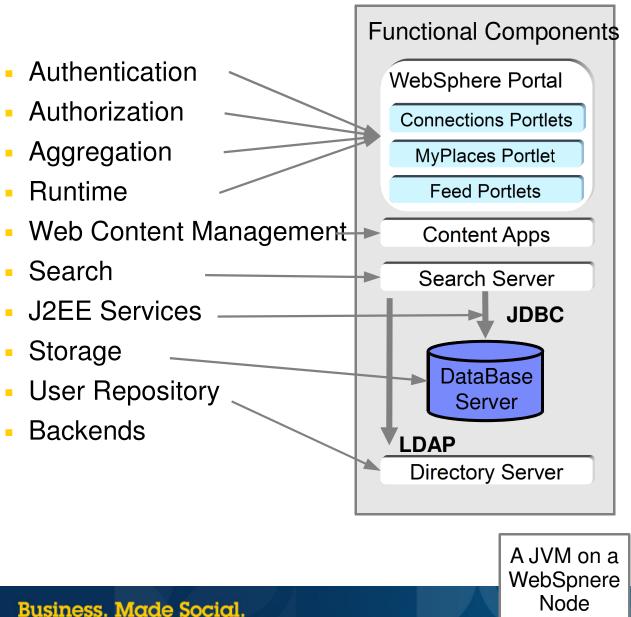
Activity	Traditional Web	WebSphere Portal
	Application	Application
Application Look and Feel	Developed by the developer for each application (often externalized into style sheets)	Portal Themes, Skins and Page Configuration capabilities free the developer from this task
Application Navigation	Developed by the developer for each page (often applied inconsistently across applications)	Page configuration frees the developer from this task
Personalization	Developed by the dveloper for each page (often applied inconsistently across applications)	Personalization services, and context aware social page optimizations provides this across applications and frees the developer from this task
Business Process Flows	Developed by the developer and often has limited capability	Business Process Universal Task list portlets provide role based delivery of human facing workflow driven processes
Reuse	Application code is generally not easily extractable and reusable	Portlets stored/reused out of the organization's or IBM's 'portlet catalog' repository on Lotus Greenhuose
Mobile	Different device displays may need to be coded	Portal provides mobile themes, Smart phone builders, and mobile accelerators supporting and simplifying interactions with a broad range of mobile and kiosk mobile devices
Content Management	Content Management integration is developed by the developer (often using vendor's API)	IBM Web Content Manager provides out of box content templates, portlet s and web design assetss
Incremental Functionality Development; Testing & Deployment	Typically there is no clean separation of the existing code and the new enhancements added and can cause complete end-to-end testing and deployment	Isolation at the Portlets/Applications is supported

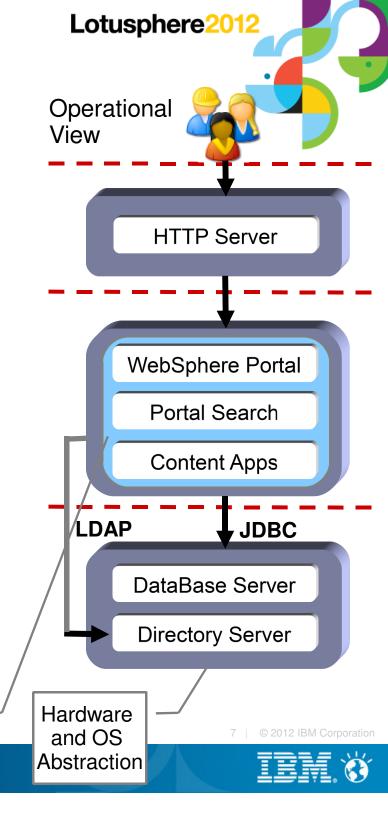


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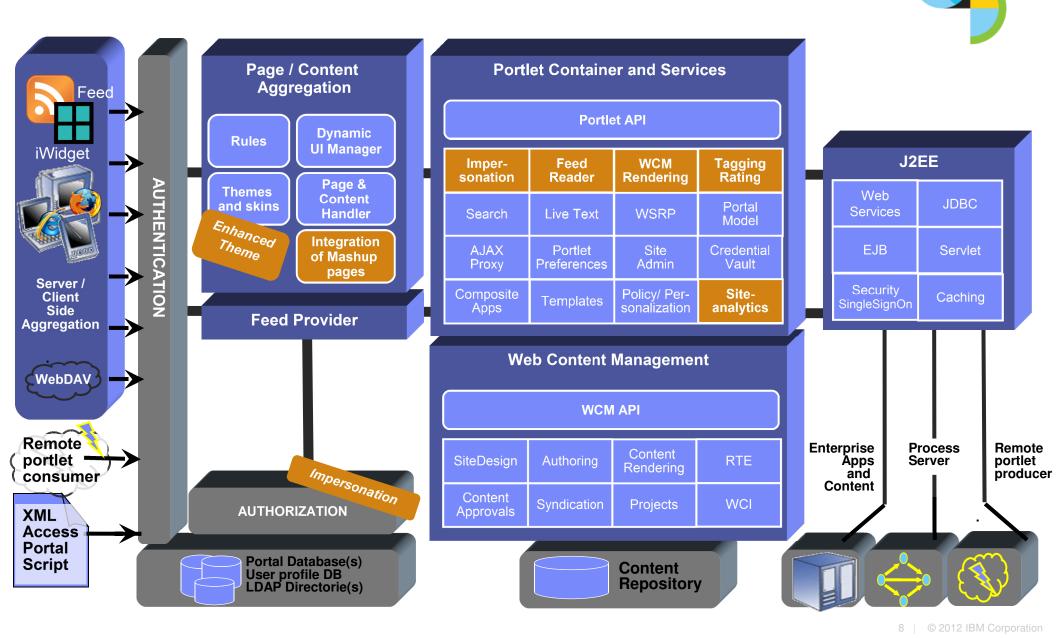


## **Core Functional Building Blocks**

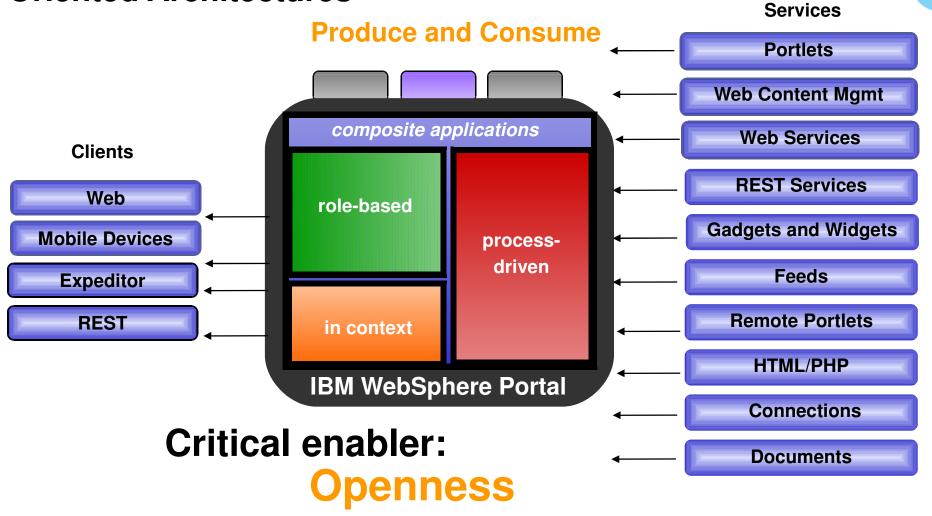




## **Architectural Updates for WebSphere Portal 7**



WebSphere Portal is the 'front end' of Service Oriented Architectures



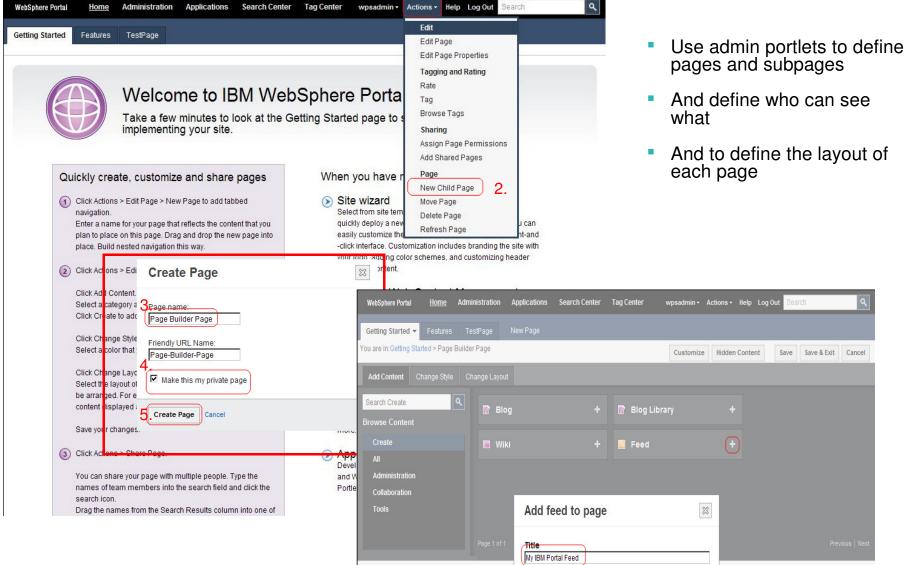
Standards based access to integration and innovation

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## **Building the Site**



1.



My first Wiki

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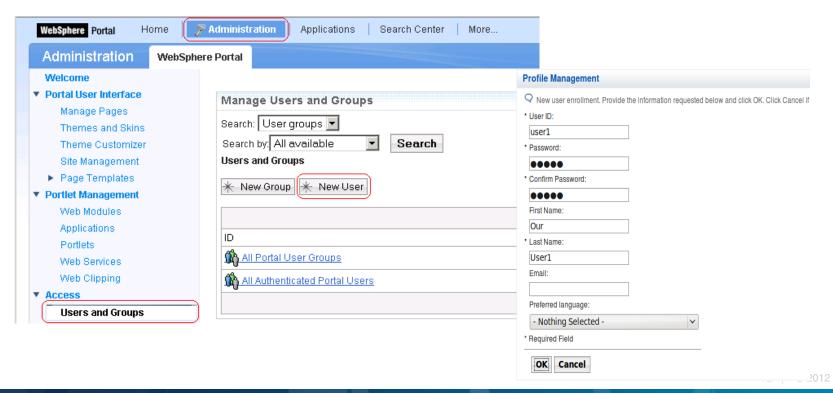
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# 2

## **Portal Security**

- User profiles are managed through Virtual Member Manager; stores user data in LDAP + DB
- Authentication is forms-based, through WebSphere Security and 3<sup>rd</sup> party proxy servers and support for Java 2 Security.

- Built-in **Authorization** system protects portal resources including pages and portlets
- Single Sign-on services include a credential vault and persistent back-end connections



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## 2

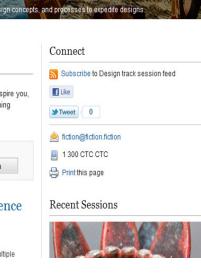
## **IBM Web Content Manager (WCM)**

IBM Web Content Manager<sup>™</sup> is a powerful and sophisticated browser-based application designed to accelerate the creation, maintenance and delivery of critical business content across intranet, extranet, internet and portal sites.

- Allows business users of all skill levels to author and submit content
- Enables *rapid* development of sites through *reusable*, out of the box components and templates
- Separates content from presentation allowing authors to create content and webmasters to maintain control
- Improves customer experiences through dynamic content delivery and a high level of personalization to the web user



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## **Web Content Manager Capabilities**

## **Author**



Text, Documents, Audio, Video Blogs, Wikis, Comments, Tags, Managed Links, Metadata. Multilingual Content, Inline editing, Preview, Versioning

#### Slash Time-To-Market and **Reduce Cost**



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Website Templates Micro-sites Blogs/Wikis Templates **Industry Templates** Theme customizer **Content Templates** 





## Conten<sup>®</sup>

**Generate** 

Mobile Delivery

**Expiration** 

**Feeds** 

Dynamic Content Publishing and

Reuse content & components

Integration with document & ECM software Import from Microsoft Word ® Ingest directly from external repositories Content retention and archival

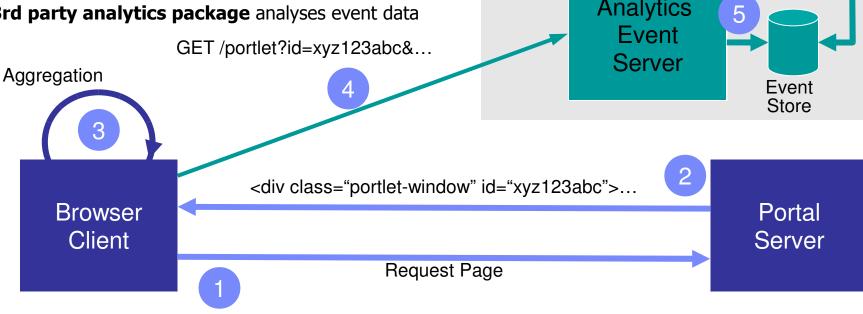
## Collaboration

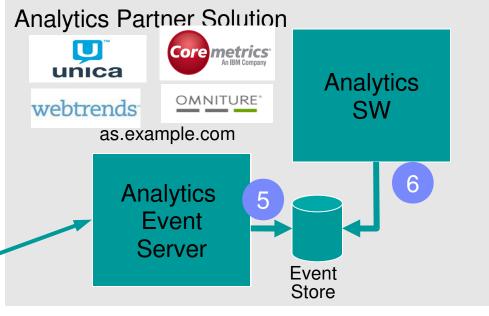
Parallel Workflows (approval, notification, tasks) **Audit Trails** Track changes & comments Integration with Lotus Sametime, **IBM Connections** 

## WebSphere Portal - Active Site Analytics

Captures web portal usage data to a comprehensive record of visitor interactions

- Client requests portal page
- Portal returns page markup including metadata markup (in a custom microformat)
- Client aggregates metadata using JavaScript snippet
- Client sends aggregate to analytics server (e.g. via HTTP GET)
- Analytics server writes access log
- 3rd party analytics package analyses event data





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## Integrating Systems and IT Landscape

How to exchange Information between IT Infrastructure and Portal's User Front End

### Consume open standards

- Feeds/REST
- Webservices
- JSR 286 Portlets, WSRP 2.0

#### Apply Integration/"Bridging" solutions

- Webclipping
- iFrame
- Web Application Integration
- (Virtual) Web Application Bridge
- Federated Navigation
- Web Content Integrator

## Understand and use proprietary/native interfaces

- Portlet development
- EJBs
- Web Experience Factory Builders

• ...

## A "Social Web Site" or "Social Portal" is...

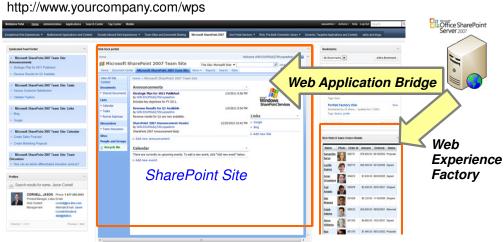
a Web Site that seamlessly and contextually integrates people and social content





## **Microsoft Sharepoint Integration**

- Discover SharePoint servers using the new Omnifind crawler now entitled as a feature of Portal 7.0
- Access SharePoint sites and teamrooms through an IBM Portal interface using the new Web Application Bridge, with a simplified configuration process\*
- Single Sign-On: IBM Portlet for Exchange supports Microsoft Exchange 2010 for Mail and Calendar functions leveraging new Exchange Web Services.
- Access SharePoint 2010 documents or services through
  - CMIS interface in IBM Web
     Content Manager 8.0 beta
  - New CMIS builders in Web Experience Factory 7.0.1
- New sample RAD application showcasing easy SharePoint integration



 Supports SharePoint 2007 today, with 2010 to follow Custom Apps or Sharepoint Document Library





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## Rational Application Developer & Web Experience Factory \*\*\*

For developers who create portlet applications using wizard driven tools



For developers who need complete access and control of all portlet, portal and other application code

## Web Experience Factory\*

- Model-driven portlet development and customization
- Wizard-driven tools that automate rapid portlet creation via reusable, automation components called Builders
- Dynamic profiling Runtime instances of multiple portlet variations from a single code base

- •Rapid portlet creation
- •Connectivity to SAP, Seibel, Peoplesoft, Domino, etc.
- •Rapid development and deployment to WebSphere Portal

## Rational Application Developer

- •All-inclusive environment for portlet, portal, and full Java and J2EE application development, debugging, testing and deployment
- Visual tools to hand-craft portlets and portal pages and Web apps using JavaServer Faces framework
- Portal site development with visual layout, theme/skin editing
- Create WPF Builders

The recommended scenario is to use RAD and Portlet Factory together to form comprehensive portal solutions. Portlets created in RAD can be combined with portlets created with Portlet Factory to form complete portal solutions that are integrated, tested and deployed using RAD.

\*\*\* WebSphere Portlet Factory is renamed to Web Experience Factory

June 2011 with Web Experience Factory 7.0.1 release

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## **Delivering to Mobile Audiences**

Reach Portal audiences Across Multiple Channels – Mobile, Web, Kiosk ...

- •Utilize WebSphere Portal built-in support for **client detection** to return the appropriate pages and content depending upon the device
- •Leverage one common theme to deliver content through the browser to deskop + mobile
- •Leverage out-of-the-box Web Experience Factory/Portlet Factory tooling to create a single application that can support both smartphones and full-sized desktop browsers.
- •Use the Mobile Portal Accelerator to dynamically adapt content to the unique display characteristics of over 8400 different mobile device types, including smartphones









Role based personalized delivery of key services, content and promotions to mobile devices and kiosks

Easily extend
Portal and
WCM content
and services
to mobile
users

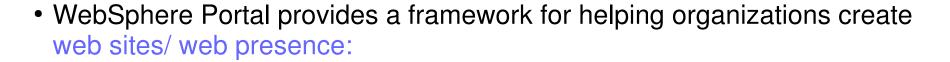


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## Lotusp

## In Review...



- Role based navigation
- UI composition, context sharing, state and preferences
- Content creation, management, integration, and targeting
- Web analytics, Personalization and Targeting of content
- Mobile site support
- Social integration, process and application integration, search integration...
- More self service, huge cost savings, huge user satisfaction improvement
  - Organizations make significant investments in applications, content and services.
    WebSphere Portal can help make all of that available, in an understandable and
    approachable way, to customer, employee, citizen and/or partner audiences so
    that they can help themselves 7x24, from their preferred device and in their
    preferred language.
  - Frees IT professionals to focus on Infrastructure management tasks



## Resources

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<u>Customer Experience Suite on IBM.com</u> (ibm.com/software/info/customerexperience)



Project Northstar on IBM.com



<u>IBMXWebX YouTube Channel</u> (http://www.youtube.com/user/IBMXWebX)



Integration Whitepapers

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