



Lotusphere Comes to You





IBM WebSphere® Portal 6 -Technical Overview

Your Name

Your Title



Content

- § Architecture
- § Administrator and User Productivity
- § Site Owner Productivity
- § Content Author Productivity
- § Developer Productivity
- § Operator Productivity



Content

§ Architecture

§ Administrator and User Productivity

§ Site Owner Productivity

§ Content Author Productivity

§ Developer Productivity

§ Operator Productivity



Dynamically Delivered Based on Choice



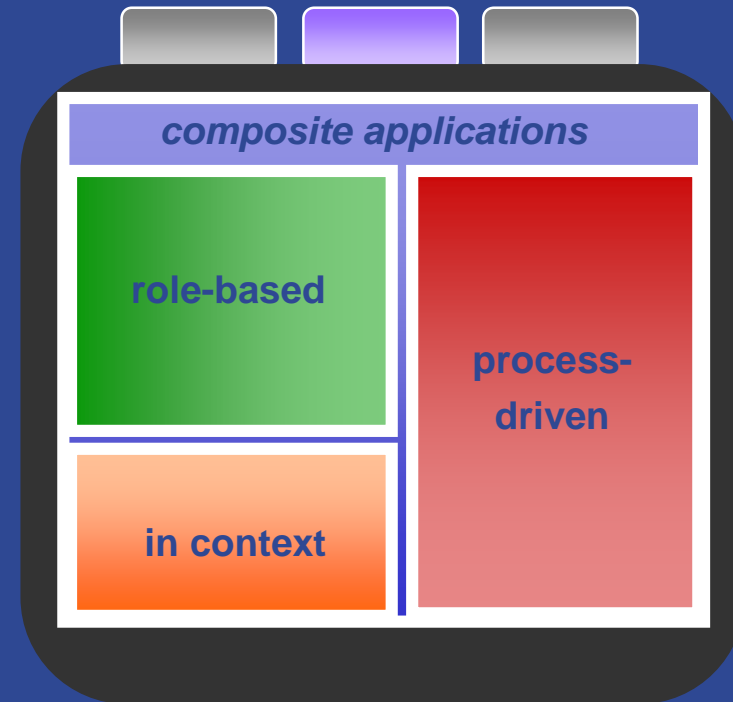
Rich Clients
(Expeditor)



Thin Clients
(Browser)



Mobile Clients



Critical enabler:
Openness

— Standards based access to integration and innovation



Security-Rich Composite application or view, that assembles and delivers services in the form of portlets in the context of a business process

Lotus

Building Standard Based Composites

JSR 168

- § Standard portlet API
- § J2EE platform interoperability

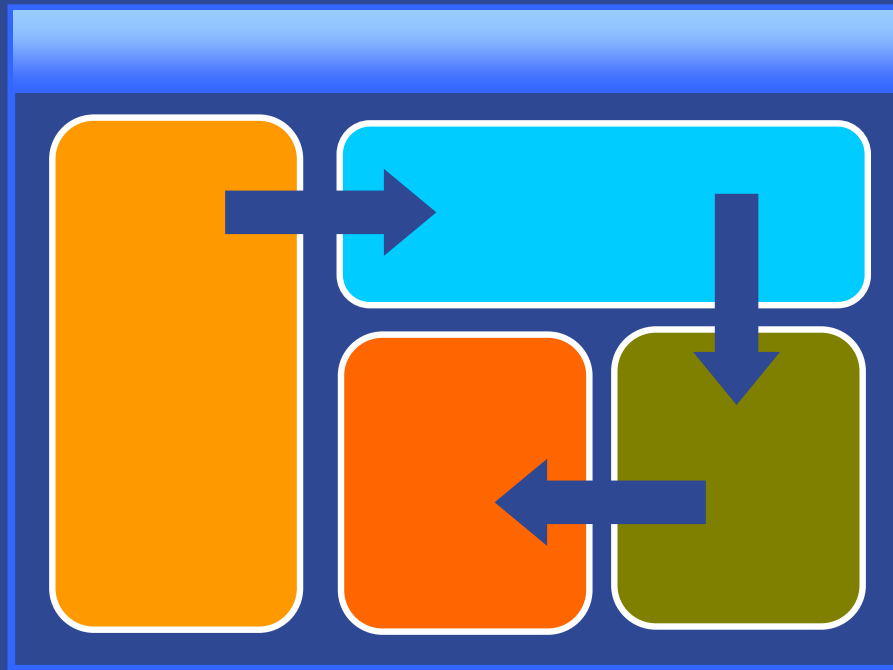
Web Services

- § Data-oriented
- § Presentation-oriented (WSRP)

“Aggregation”



Composition “at the glass”



Orchestration

- § Business Process Integration
- § Business User Workflow
- § Property Broker

“Integration”



A Sample Composite Application

Info from call Router portlet can populate the call center employee's desktop

People awareness allows chatting with customer service reps that helped the customer in the past

People tag can be extended with application specific capabilities such as re-routing the call

Productivity is improved by integrated disparate applications and allowing focus to remain in the app vs. navigating to the buddy list portlet

IBM WebSphere Portal - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

My Portal Administration Edit my profile Log out

Welcome Cindy!

On Demand Corporation
A Virtual eBusiness Powered by IBM

My Work Business Documents My Favorites

News Executive Dash Board Click to Action Call Center Customer Care

Customer Call Router

Tom Leslie - Call 2

Bob Smith - Call 6

Customer Profile

Customer ID: 000000001
Customer Name: Tom Leslie
Status: ACTIVE
Current Balance: 102.32

Customer Accounts

Account	Status
3145551001	ACTIVE
3145551002	ACTIVE

Customer Call History

CallID	Inquiry	Last Updated	Status	Agent
1	BILLING	null	COMPLETE	Jake Neumann
2	SERVICE	null	COMPLETE	Cindy Neuma

Customer Call Details

Call ID: 2
Inquiry Type: SERVICE
Call Status: COMPLETE
Call Teamspace: [Create a Team WorkSpace](#)

Special Offers

[High Speed Internet Access](#)
[Local/Long Distance Bundle](#)
[Calling Services](#)

Customer Call Notes

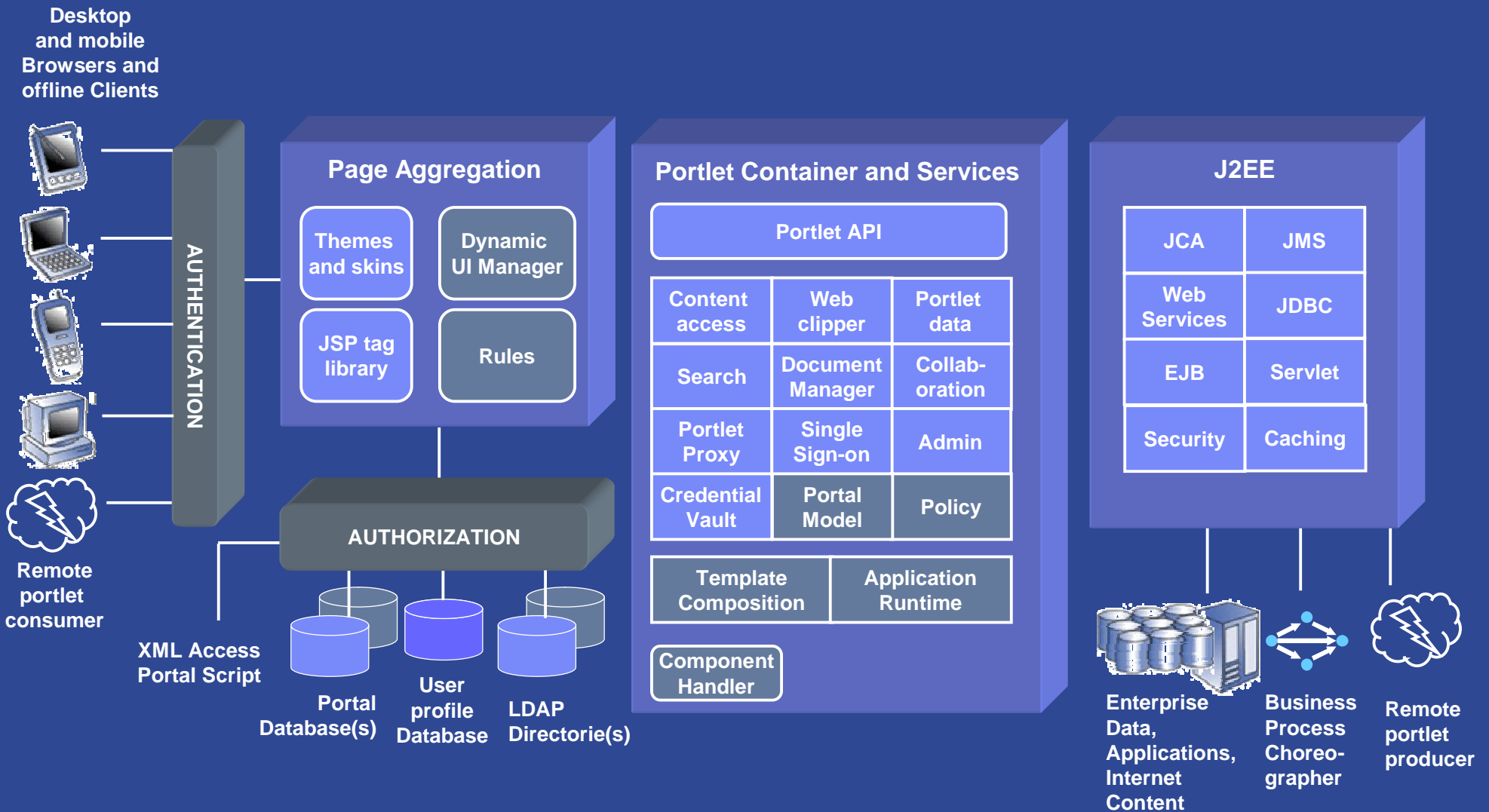
Submit Reset

javascript: onSTLinkClicked('Jake Neumann', 'LLZ_0', event)

Start Lotus Domino Server... C:\Domino IBM WebSphere Port... IBM WebSphere P... Microsoft PowerPoint... 1:06 PM



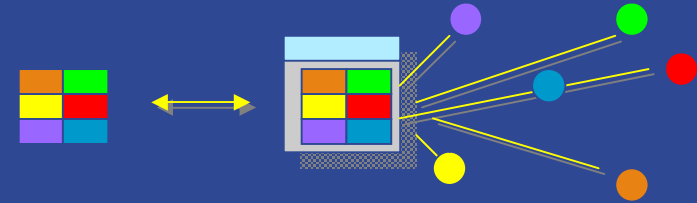
Architecture Overview WebSphere Portal V6



Aggregation

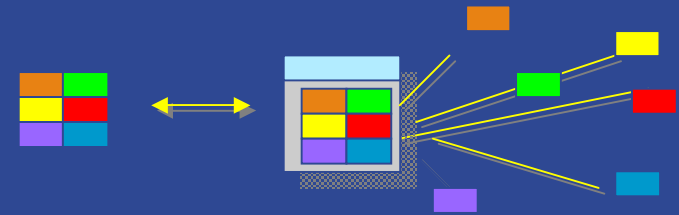
§ Web Services

- 4 UIs generation runs in one JVM, but logic runs in a variety of JVMs



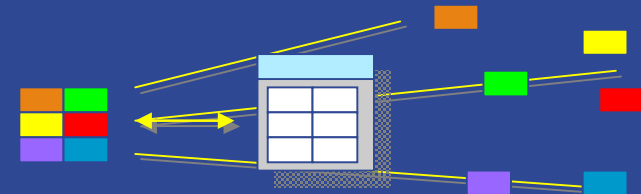
§ WSRP

- 4 Invoke services from anywhere
- 4 Some security issues with some partners



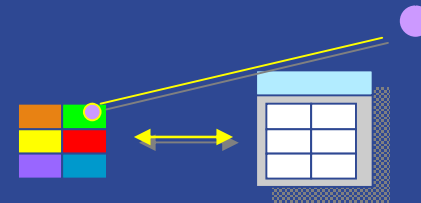
§ AJAH

- 4 Serve up UI structure from the portal, but retrieve the complete portlet UI from anywhere



§ AJAX

- 4 Serve up UI structure and portlet from the portal and the data from anywhere



Content

§ Architecture

§ Administrator and User Productivity

§ Site Owner Productivity

§ Content Author Productivity

§ Developer Productivity

§ Operator Productivity



Contextual Menus

Find out what you can do with an object by a click!

The image shows a screenshot of an IBM WebSphere portal interface with five callout boxes highlighting different contextual menus:

- Main Menu:** A vertical navigation menu on the left side of the page, listing items such as Home, Administration, News, Documents, Messaging, Domino Integration, Personalization, Templates, Search, Site Map, About, Edit My Profile, and Log Out.
- Page Menu:** A menu that appears over a page, listing actions like New Page, Edit Page Layout, Edit Page Properties, Assign Page Permissions, and Delete Page.
- Search Scope:** A menu that appears over a search field, listing options like All Sources, Set Search Preferences, View Search Help, and Show Last Results.
- Portlet Menu:** A menu that appears over a portlet, listing actions like Minimize, Maximize, Move Left, and Delete.
- Page Menu:** A menu that appears over a search field, listing options like All Sources, Set Search Preferences, View Search Help, and Show Last Results.



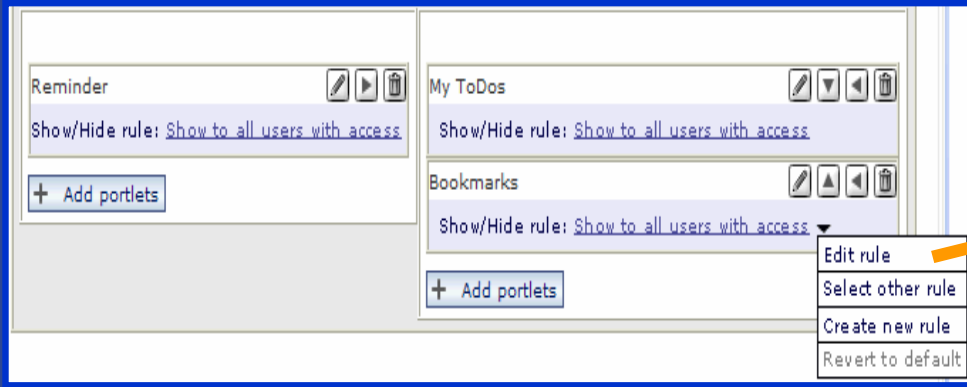
New Page Layout - Flyouts

WebSphere Portal provides everything needed to effectively build, customize and manage a portal solution. In the new release access to these capabilities is just easy.



The screenshot shows the IBM WebSphere Portal interface in a Mozilla Firefox browser window. The browser title is "IBM WebSphere Portal - Mozilla Firefox" and the address bar shows a local host URL. The page content includes a "Welcome to IBM WebSphere Portal" message, a "What's New?" section with sub-sections like "Main Menu", "Quick Links", "Page Menus", "People Palette", "Breadcrumb Trail", "Drag and Drop", "Portlet Menus", and "Portlet Palette". Two callout boxes are overlaid on the page: one labeled "People Finder" pointing to a search interface, and another labeled "Portlet Palette" pointing to a list of portlets including Banner Ad, Bookmarks, Currency Calculator, My To Dos, Newsgroups, QuickLinks, Reminder, Search Sitemap, and World Clock.

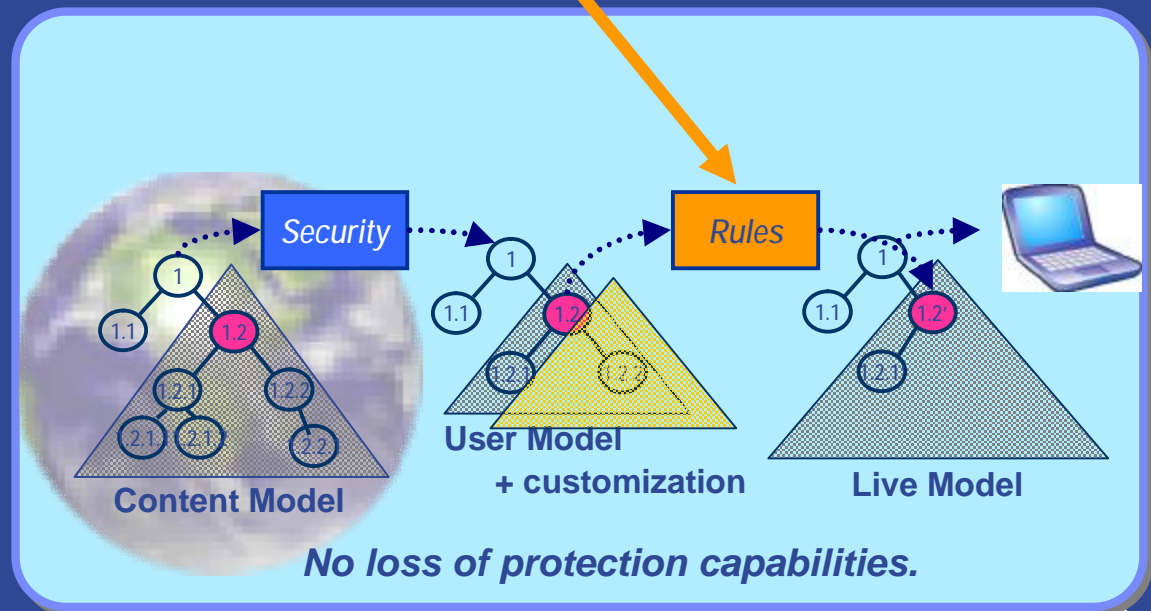
Attribute Based Administration - Dynamic Aggregation



Allow administrators to use personalization rules to determine what pages and portlets are shown.

Enables decisions on user attributes and other factors (such as time of day or virtually any attributes you define objects for)

Access control still determines what rights the users have (edit, config, etc)



Portal Navigation Federation

The screenshot displays the IBM WebSphere Portal interface. At the top, the browser window shows the URL: `http://wps085.boeblingen.de.ibm.com:10038/wps/myportal/lut/p/c/1jY5LDoJAEETPwgmmmk-rS2QEhoiIbwsIYjIAL4vk4d4bR7kOnL6-rCX0*`. The page navigation includes tabs for 'Welcome', 'Getting Started', 'Travel requests', and 'Federation'. A search bar is located in the top right corner with the text 'Search: All Sources' and a 'Log Out' link.

The main content area features a large banner with the text: 'Welcome to IBM WebSphere Portal. Delivering power and flexibility... on demand!'. Below the banner, there are sections for 'What's New?', 'Main Menu', 'Quick Links', 'Page Menus', 'People Palette', and 'Search Scopes'. A 'Product Links' sidebar on the right lists various services: Administration, News, Documents, Messaging, Domino Integration, Personalization, Templates, Search, and Site Map. An 'Other Links' section at the bottom right includes links to IBM.com, IBM Software Home Page, IBM WebSphere, IBM Software Support, WebSphere Portal Zone, Partner World, and Linux at IBM.

Delivered Through Lab S

Vertical Portal Navigation

Vertical Portal Content

Content

§ Architecture

§ Administrator and User Productivity

§ Site Owner Productivity

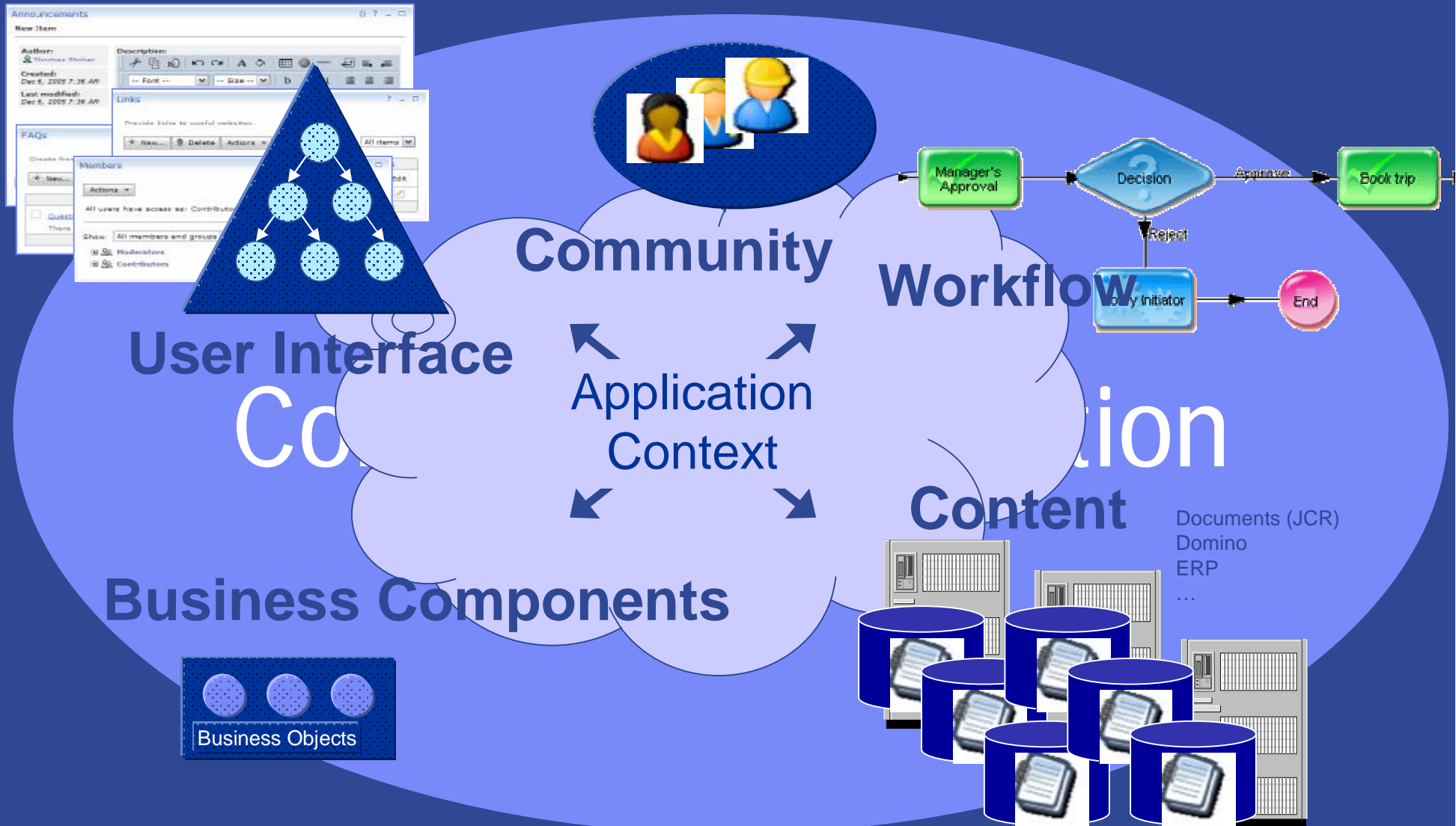
§ Content Author Productivity

§ Developer Productivity

§ Operator Productivity



What are Composite Applications?



My Little Bike Shop...


IBM WebSphere Portal - Mozilla Firefox

http://localhost:18038/wps/myportal/ut/p/c/1/bvPLDcIwEDDL140 2N012a0K3o3m48CO0aCLgwn15aPo17yQnyD

Launch > Stefan's cyclomania > Bike Shop >

Bike Shop

Banner Ad



App Shop: Catalog Portlet

SOME DEBUG INFO:
id = portal:extrag/com.ibm.wps.shop.app.Catalog
instanceId = 765da280420daf479726b784185d03
catalog = com.ibm.wps.app.bc.impl.CatalogImpl@44b1a256
font_size = DefaultValue
font_color = DefaultValue

TITLE = Stefan's Cyclomania

CATALOG CONTENT:

Categories	Items
bikes	<input type="button" value="buy 'red bike'"/> <input type="button" value="buy 'blue bike'"/> <input type="button" value="buy 'green bike'"/> <input type="button" value="buy 'yellow bike'"/>
forks	<input type="button" value="buy 'huge fork'"/> <input type="button" value="buy 'large fork'"/> <input type="button" value="buy 'middle fork'"/> <input type="button" value="buy 'small fork'"/> <input type="button" value="buy 'tiny fork'"/>
wheels	<input type="button" value="buy 'large tire'"/> <input type="button" value="buy 'old tire'"/> <input type="button" value="buy 'new tire'"/> <input type="button" value="buy 'broken tire'"/>

Shopping cart content:
red bike

Currency Calculator

Major Currency Table Sunday, August 13, 2006 3:15:00 PM EST

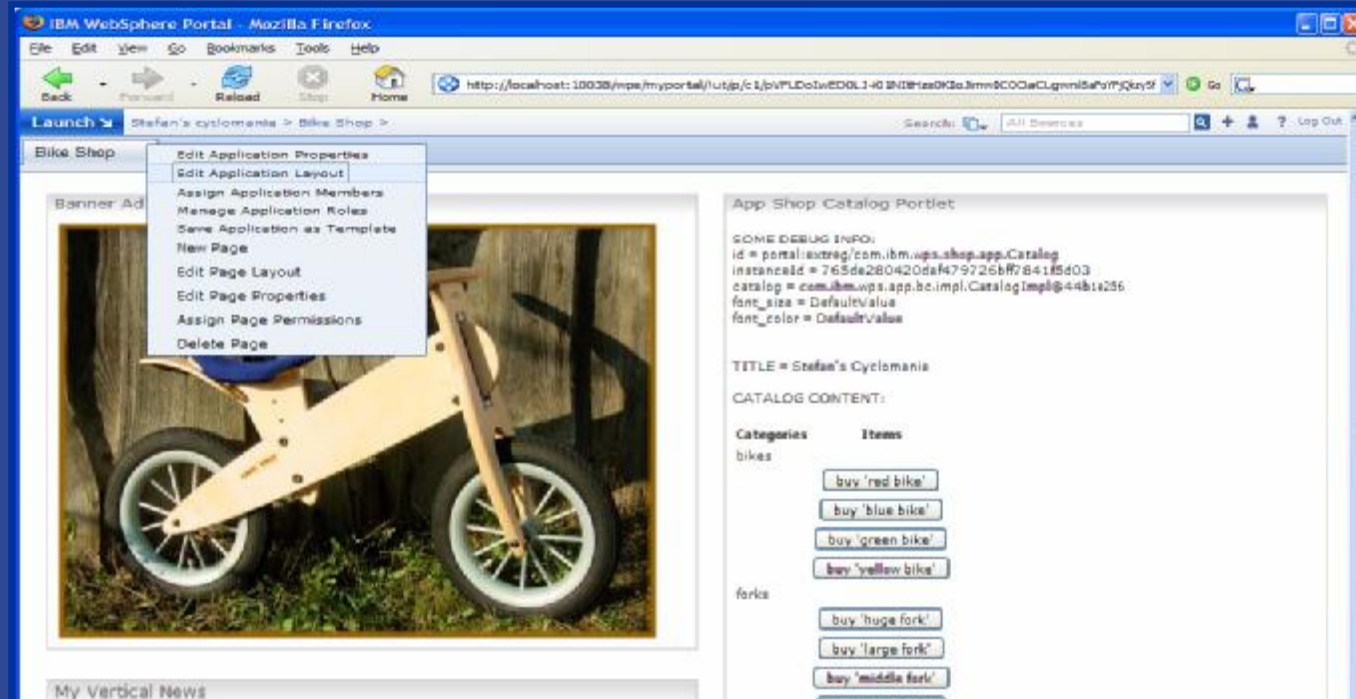
Name	Per USD	In USD	Net Change	% Change
Australian Dollar	1.3072	0.7650	0.001403	0.1836

Done



...can have one or more pages...

layout



My Vertical News

Health Insurance

- Health care, pay top woman's work worries
- Non-employer-sponsored people should have group insurance.
- Rebate plan set to cut Medicare queues

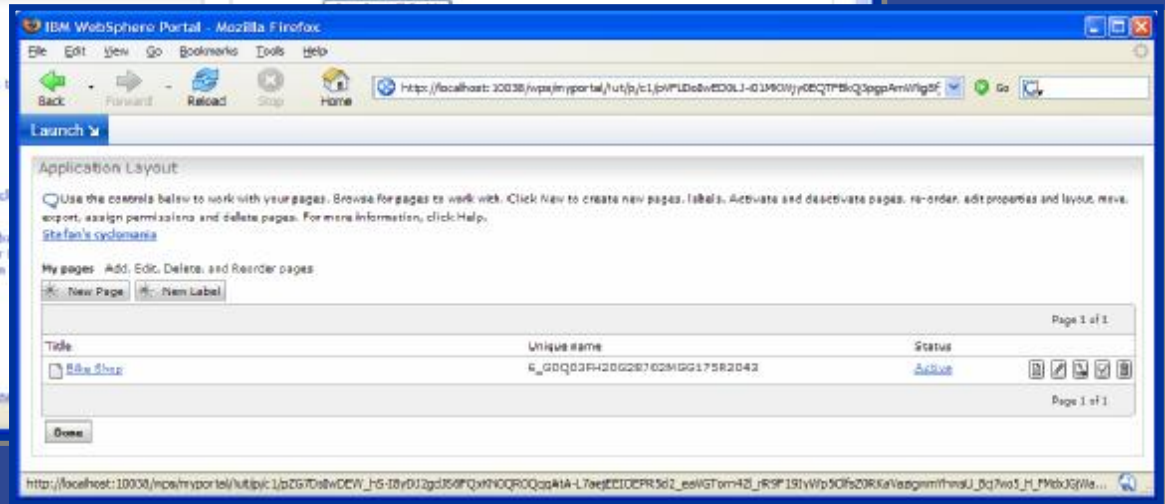
Engineering

- Co-inventor of plasma display to receive honor
- NEWSWEEK INTERNATIONAL EDITIONS: Highlights and End 2006 Issue
- NEWSWEEK INTERNATIONAL COVER: The World's Most Globl Richard Levin on Role of Universities: 'As Never Before In Their Universities Have Become Instruments of National Competition of Peace' News.

Commerce

- Fed chiefs want to improve communication
- American Cancer Society to Move Offices Downtown
- All Signs Point to An Economic Slowdown, And Recession Danger

javascript:menuItemLaunchAction();



... with Portlets....

Portlet Palette

The screenshot shows an IBM WebSphere Portal in Mozilla Firefox. The browser address bar displays a local URL: `http://localhost:10038/wps/myportal/!ut/p/c/1/pZG7DafwDEW_hS-88yD12gdJ56PQx0X6DQR0Qc0AA4.7ag20309V`. The page title is "Stefan's cyclomaniacs > Bike Shop".

The main content area features a "Banner Ad" with a photograph of a wooden balance bike. Below the banner is a "My Vertical News" section with headlines under categories like "Health Insurance", "Engineering", and "Commerce".

On the right side, there is a "Portlets" palette with a search box and several portlets: Banner Ad, Bookmarks, Currency Calculator, My To Dos, Newsfeeds, QuickLinks, Reminder, Search Sitemap, and World Clock. A blue arrow points from the "Currency Calculator" portlet in the palette to the "Currency Calculator" portlet in the main content area.

Below the banner, there is a "App Shop Catalog Portlet" with "SOME DEBUG INFO" and "CATALOG CONTENT". The catalog content is organized into categories and items:

Categories	Items
bikes	buy 'red bike' buy 'blue bike' buy 'green bike' buy 'yellow bike'
forks	buy 'huge fork' buy 'large fork' buy 'small fork' buy 'tiny fork'
wheels	buy 'new tire' buy 'broken tire'

Below the catalog, there is a "Shopping cart content:" section showing "red bike" and a "Currency Calculator" portlet with a "Major Currency Table".

... where we like them.

Drag&Drop


IBM WebSphere Portal - Mozilla Firefox

http://localhost:10038/wps/myportal/utp/c/1/bvPLDcIwEDDL140 2NtH1z0K3o3mm8CO0aCLgmn1aF0PQkz93m

Launch Stefán's cyclomaniacs > Bike Shop >

Bike Shop

Banner Ad



App Shop Catalog Portlet

SOME DEBUG INFO:
id = portal:extreg/com.ibm.wps.shop.app.Catalog
instanceId = 765de28042Dda4797268#784175d03
catalog = com.ibm.wps.app.bc.impl.CatalogImpl@e736263
font_size = DefaultValue
font_color = DefaultValue

TITLE = Stefán's Cyclomaniacs

CATALOG CONTENT:

Categories	Items
bikes	<input type="button" value="buy 'red bike'"/> <input type="button" value="buy 'blue bike'"/> <input type="button" value="buy 'green bike'"/> <input type="button" value="buy 'yellow bike'"/>
forks	<input type="button" value="buy 'huge fork'"/> <input type="button" value="buy 'large fork'"/> <input type="button" value="buy 'middle fork'"/> <input type="button" value="buy 'small fork'"/> <input type="button" value="buy 'tiny fork'"/>
wheels	<input type="button" value="buy 'big wheel'"/> <input type="button" value="buy 'medium wheel'"/> <input type="button" value="buy 'small wheel'"/>

My Vertical News

Health Insurance

- Health care, pay top women's worries
- Non-employer-sponsored people should have group insurance, study says
- Rebate plan set to cut Medicare costs

Engineering

- Co-inventor of plasma display to receive \$1 million award
- NEWSWEEK INTERNATIONAL EDITION: Highlights and exclusives, Aug. 21-28, 2005 Issue
- NEWSWEEK INTERNATIONAL COVER: The World's Most Global Universities-Yale's Richard Levin on Role of Universities 'As Never Before in Their Long History; Universities Have Become Instruments of National Competition as Well as Instruments of Peace' News

Commerce

- Fed chief wants to improve communication
- American Cancer Society to Move Offices Downtown

Shopping cart content:

red bike

Currency Calculator

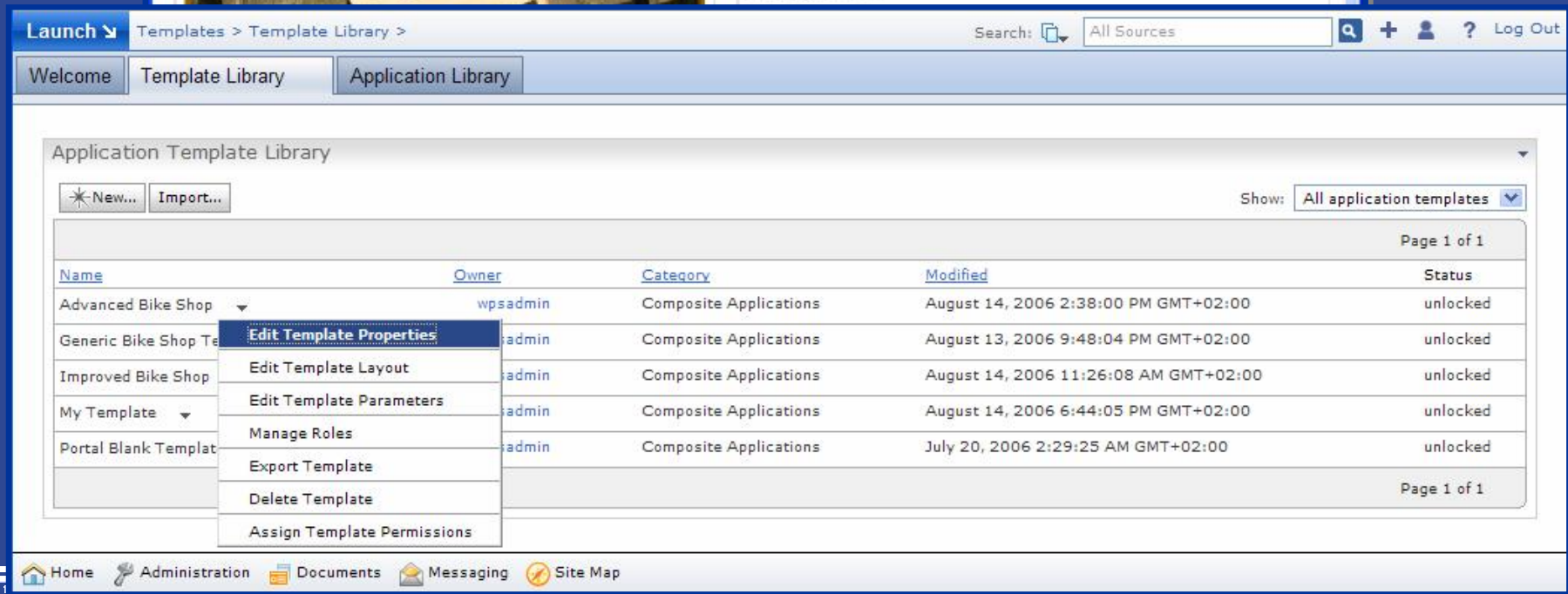
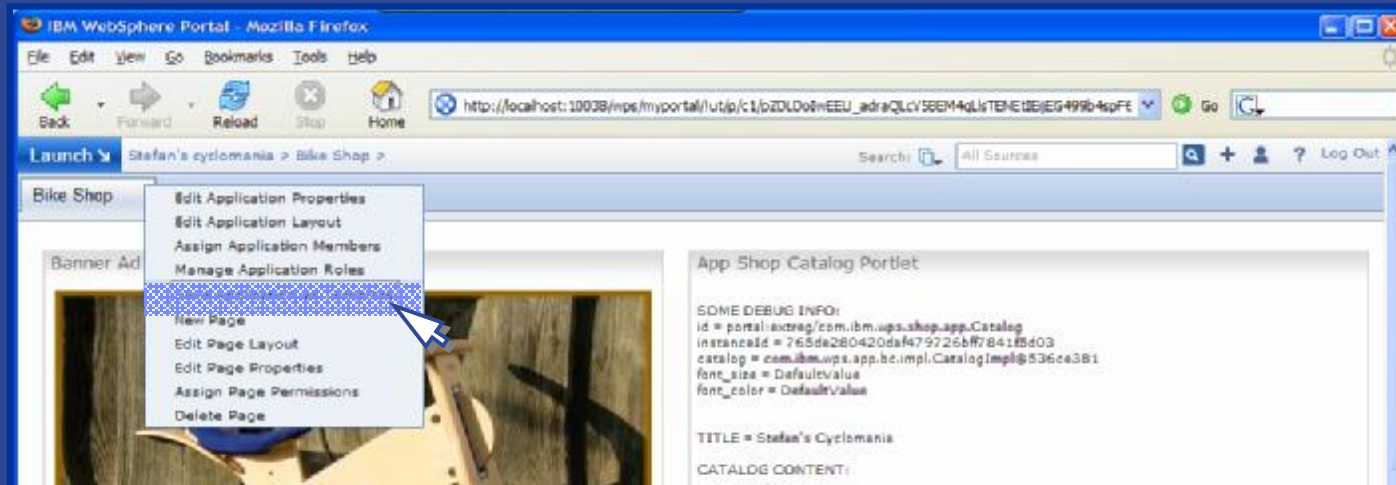
Major Currency Table

Sunday, August 13, 2006 3:23:00 PM EST

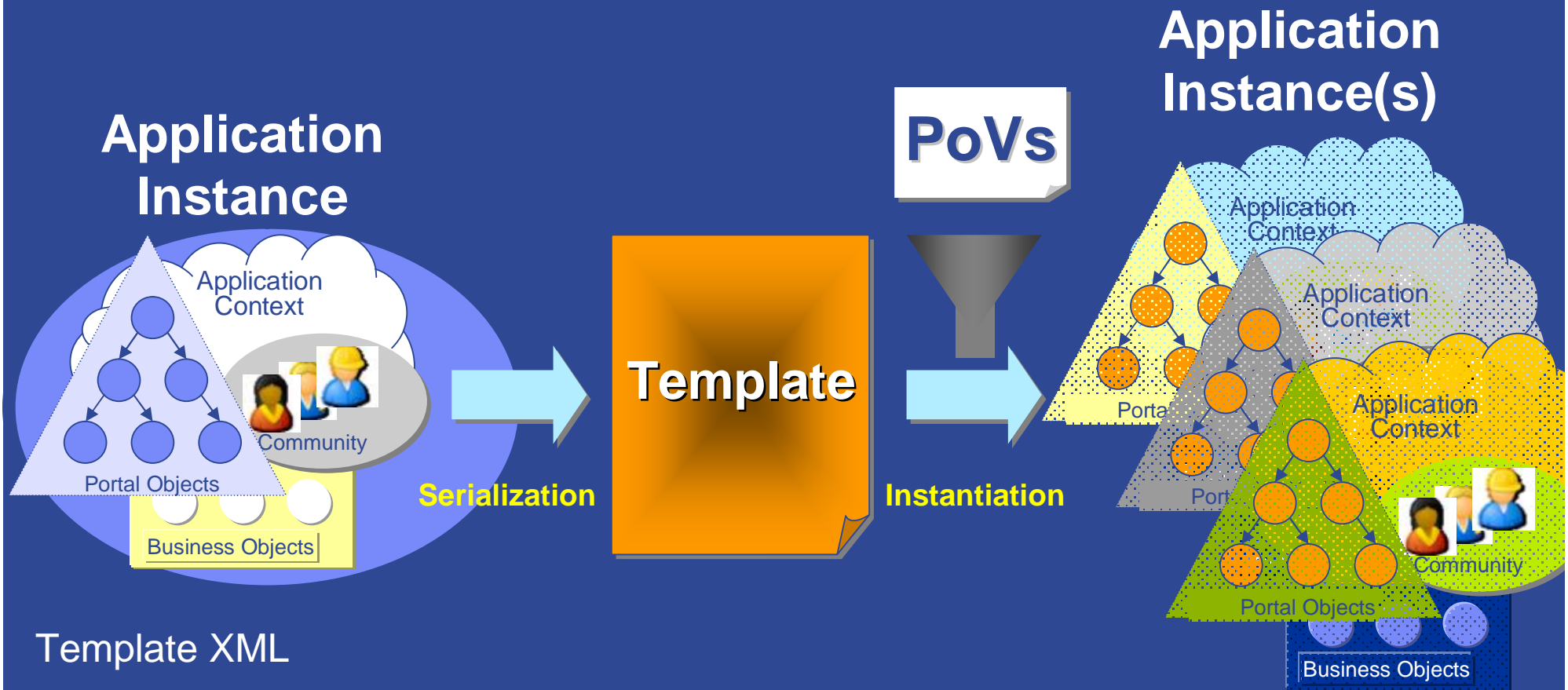
Name	Per USD	In USD	Ret. Class	% Class
------	---------	--------	------------	---------



And we allow others to reuse what we have created... Templates



Templates and Applications



Template XML

- contains the blue print to easily create another instance of that application
- describes visual and non-visual business components and their relationships
- allows for points of variability to be filled out during instantiation



Defining Parameters...

Make it easier to instantiate the applications later by not requiring so many things to be specified, but also enabling further customization via points of variability (PoV).

IBM WebSphere Portal - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Back Forward Reload Stop Home http://localhost:10038/wps/myportal/

Launch ▾

Parameters

For each parameter, a default value can be self-defined or sourced from another parameter. To edit a parameter, click the parameter name.

Hide Descriptions

Advanced Bike Shop

Name	Default Value	Source of Default Value
title the name for the catalog	default	Self-defined
font_color	DefaultValue	Self-defined
font_size	DefaultValue	Self-defined

Save Cancel

Done

Launch ▾

Parameters

Edit Parameter: title

Description: the name for the catalog

This parameter is for component Advanced Bike Shop.

Type a user prompt and choose a default value to display as a component property in applications, or click Use Value of Another Parameter.

User prompt: Use Value of Another Parameter

Default Value:

OK Cancel

... and Roles.

IBM WebSphere Portal - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Back Forward Reload Stop Home

http://localhost:10038/wps/myportal/!ut/p/c1/04_SB8K8xLLM9MSS

Launch ▾

Roles

Click New to create a new role. To edit a role, click the role name.

New...

Name	Description
ShopOwner	Can edit the application and control membership.
Customers	Can buy items.

Save Cancel

Done

Teams can manage their own membership and roles

The owner of a team space can assign people to roles or change the owner

Overall roles can be mapped to more specific actions of each portlet

Specify the role name

define application and delegation privileges

define the role mappings to the individual component roles



Create a new Application based on this template..

IBM WebSphere Portal - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Back Forward Reload Stop Home

http://localhost:10038/wps/myportal/!ut/p/c1/04_SB8K8xLLM9MSSzPy8xBz9SP0o83g_f6NQNXNF

Launch Templates > Application Library >

Search: All Sources Log Out

Welcome Template Library Application Library

Applications

* New

Show: All Applications

Composite Applications

Name	Template
ACME Customer Care	Portal Blank Template
Blue Wheels Bike Shop	Generic Bike Shop Template
Stefan's cyclomania	Generic Bike Shop Template

To create a new application, complete these fields, then click OK.

Name: Stefan's cyclomania

Template: Generic Bike Shop Template

Description (optional): This is my hiking bike

Members

Add Actions

All users have access as: Customers. (Public)

Show: All members and groups

- ShopOwner
 - wpsadmin (owner)
 - Ralf Grohmann
 - Ralf Seidel
- Customers
 - [Empty]

Done

Finally assign users to roles to allow them to participate in the application.

You can add dynamic behavior to your Application...

The screenshot displays the IBM WebSphere Portal interface in Microsoft Internet Explorer. The browser's address bar shows the URL: `http://b.mul.ie.ibm.com:10038/wps/myportal/tut/p/c1/04_SB8K8xLLM9MSSzPy8xBz9CP0os3h_fw9_L19HQ0MLTxdLAyNHx9LS88QQ3djY6B8JG55F2MU3e7mwSZgWbFawGBj9yBziG4D`. The page title is "IBM WebSphere Portal - Microsoft Internet Explorer".

The main content area is titled "Application Template Library" and includes a search bar and a "Log Out" link. Below this, there are navigation tabs for "Welcome", "Template Library", and "Application Library".

The "Application Template Library" section features a "New..." button, an "Import..." button, and a "Show:" dropdown menu set to "All application templates". A table lists the templates, with a context menu open over the "Manager Workbench" template. The context menu options are:

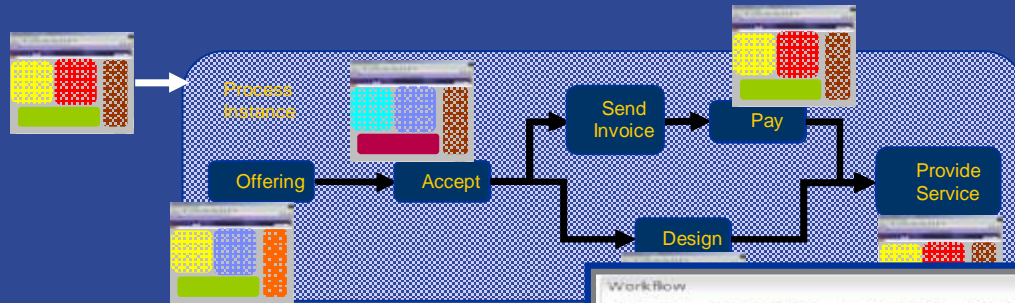
- Edit Template Properties
- Edit Template Layout
- Edit Template Parameters
- Manage Roles
- Edit Template Workflow
- Export Template
- Delete Template
- Assign Template Permissions

The table below shows the list of templates:

Name	Owner	Category	Modified	State
Job Applicant System template	wpsadmin	Workplace Application	May 9, 2006 3:37:02 PM GMT+01:00	unlocked
Manage New Hires	wpsadmin	Workplace Application	May 9, 2006 3:49:11 PM GMT+01:00	unlocked
Manager Workbench	...	Workplace Application	May 9, 2006 3:35:58 PM GMT+01:00	unlocked
Portal Blank Template	not found.	None	April 18, 2006 3:52:18 PM GMT+01:00	unlocked
Team Project Template	...	Workplace Application	May 9, 2006 3:36:21 PM GMT+01:00	unlocked
Trouble Tickets	...	Workplace Application	May 9, 2006 3:35:10 PM GMT+01:00	unlocked

The footer of the page contains navigation links: Home, Administration, Documents, Web Content, Messaging, and Site Map. The system tray at the bottom right shows the "Internet" icon.

Define workflows...



...adds dynamic formal behavior to composite applications.

... within the Portal and use them right away.

Create new Tasks

Define properties of a Task

Define outgoing transitions for a Task

Map or create TaskPage



...and use them right away.

The screenshot shows a web browser window titled "IBM WebSphere Portal - Mozilla Firefox". The address bar contains the URL: <http://b.mul.ie.ibm.com:10038/wps/myportal/!ut/p/c1/pZHRzoIwDIWfxSdot6HgpSAMDE7RmR-8McSomVHwwwj8bpqYa>. The breadcrumb navigation shows "Manage New Hires > On Boarding >". The page has tabs for "On Boarding", "Hiring Policies", and "Open Tasks".

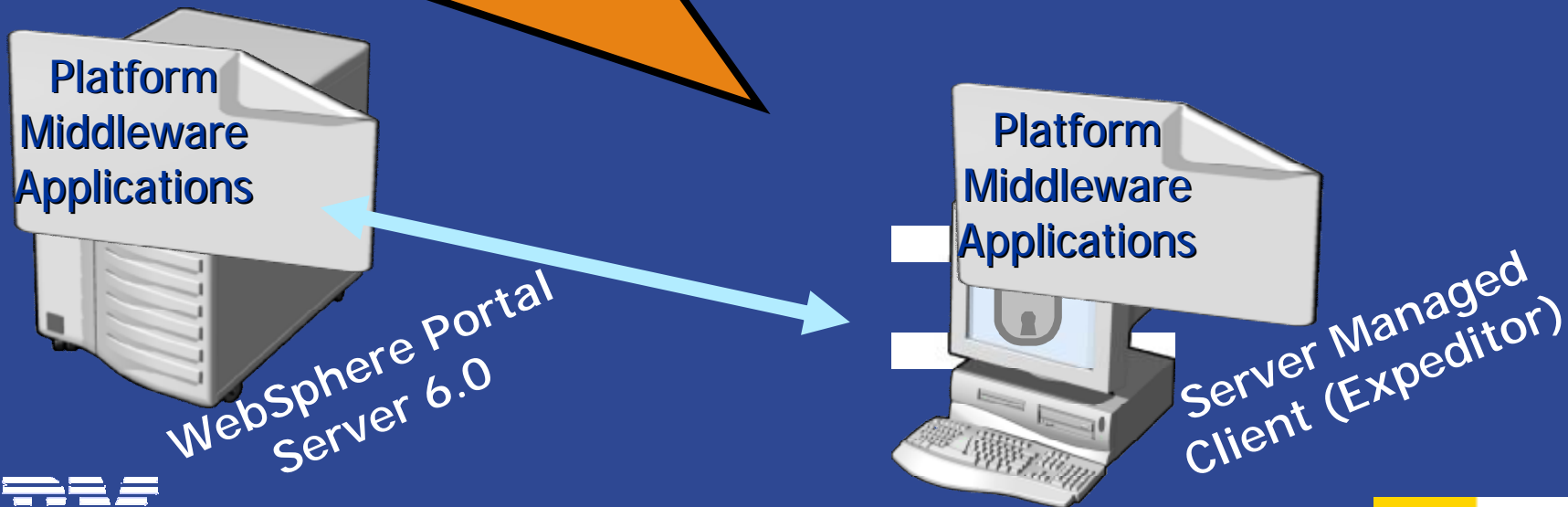
The main content area is titled "Workflow List" and includes a search bar with "Enter name" and a "Show:" dropdown set to "All Tasks". Below this is a table of workflow items:

<input type="checkbox"/>	Name^	Current Task	Assigned To	Status	Last Date Modified	Details
<input type="checkbox"/>	Bill Wright	Purchase New Hardware	Multiple possible	Unclaimed	June 9, 2006	
<input type="checkbox"/>	Greg Burns	Purchase New Hardware	wpsadmin	Claimed	June 9, 2006	
<input type="checkbox"/>	Martha Darcy	Enter New employee details on HRSS	wpsadmin	Claimed	June 9, 2006	
<input type="checkbox"/>	Mike Motler	Allocate Office Space	wpsadmin	Claimed	June 14, 2006	
<input type="checkbox"/>	Tod Williams	Purchase New Hardware	wpsadmin	Claimed	June 9, 2006	
<input type="checkbox"/>	Tracy Burke	Enter New employee details on HRSS	Multiple possible	Unclaimed	June 9, 2006	

At the bottom of the page, there is a navigation bar with links for "Home", "Administration", "Documents", "Messaging", and "Site Map". The browser status bar at the very bottom shows "Done".

Composite Application Provisioning to Portal Client

- § Composite Applications are stored in a application catalog on the server
 - § Composite Applications are assembled from components
- § User installs core package (Network Client Installer) through a CD or from Portal
- § Core package then installs Expeditor client
- § Portal client installs apps based upon account preferences and user authorization
- § Eclipse update is used to update applications over time



Extending LOB Applications to the Edge of the Network

Lotus

Content

- § Architecture
- § Administrator and User Productivity
- § Site Owner Productivity
- § Content Author Productivity
- § Developer Productivity
- § Operator Productivity



Document Management - Web Experience

- View, Add, Delete, and Modify documents and folders
- Control Access on folders and documents
- Version documents
- Approve changes
- Search folders and documents
- People awareness and notifications
- Seamless integration with native applications including Office
- Based on common data model and API delivered with JCR
- Integrated with Web Content Manager and Personalization
- Improved search
- Improved administration

Maximum number of items returned in a list:

In folders: 500

In views: 500

In search results: 200

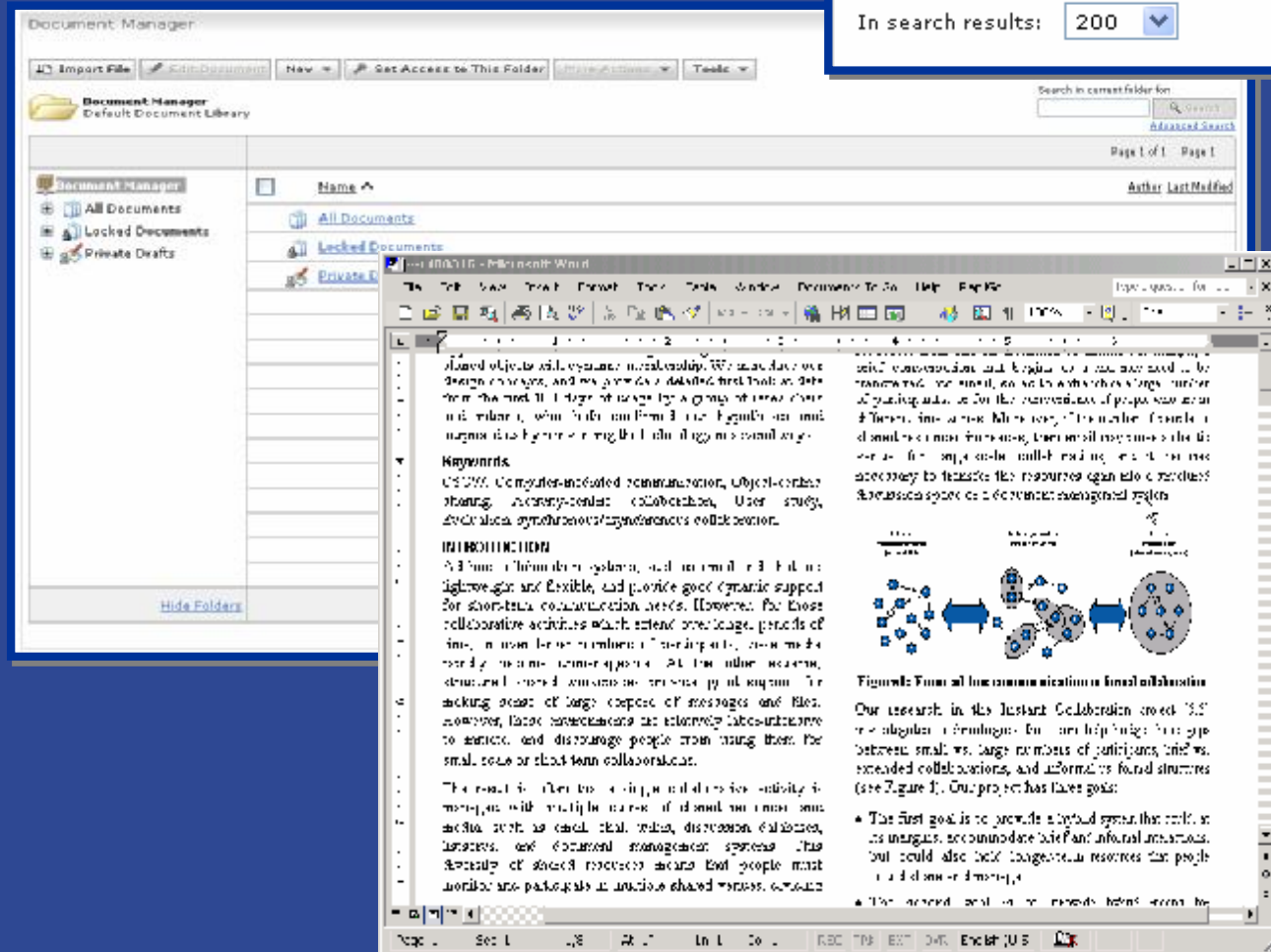


Figure 1: Instant Collaboration

Our research in the Instant Collaboration project... (text continues)

- The first goal is to provide a hybrid system that...
- The second goal is to provide instant access to...



Document Management - Desktop Integration

Desktop Integration appears under "My Network Places" and Office.

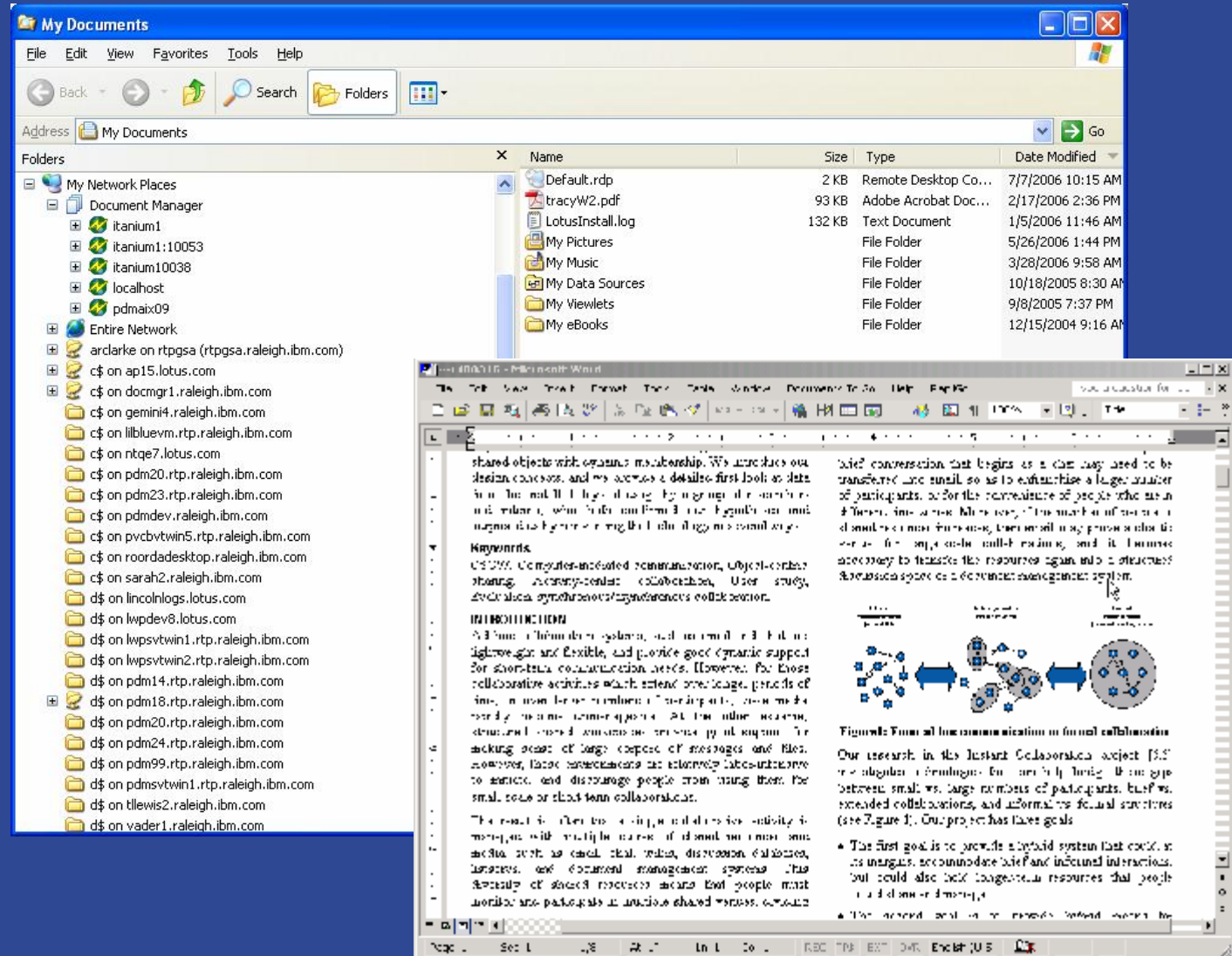
Users can work with Portal Managed documents like they were local files.

The files really reside on the server.

End users can connect to both WCS 2.x and Portal 6.0 servers

Supports multiple servers & libraries.

Can create/manipulate documents and folder like in the portlet.



In Line Editing

Home **Work** Life and Career About Search

1. Item needs update

Company News
Home Page **Click for NEWS**

Here is the Company News



My News for Today is very interesting
This is my interesting news that you just must read!
[Published: June 23, 2006]



Important news about Showcase Today
See the new Showcase Demo
[Published: June 23, 2006]

Home **Work** Life and Career About Search

Company News

News Home **Add** **Edit**

2. Select Edit



My News for Today is very interesting

This is my interesting news that you just must read!

Confidential level: Company

This is the rich text edit information for other content



Company News

"My News for Today is very interesting" was saved.

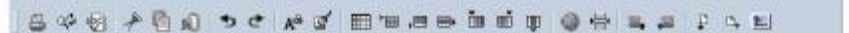
Close Save Save... Preview Show Hidden Fields Apply Assting Template Manage Elements

Identification Content Content Settings

SC Summary

Enter the summary of this news item for lists
This is my interesting news that you just must read!

SC Body



Format Font Size

This is the rich text edit information that can contain images, tables and links to other content



3. Make changes, save and close.

Company News

Home Doc

News Home **Add** **Edit**



My News for Today is very interesting

This is my interesting news that you just must read!

Confidential level: Company Confidential

This is the rich text edit information for other content

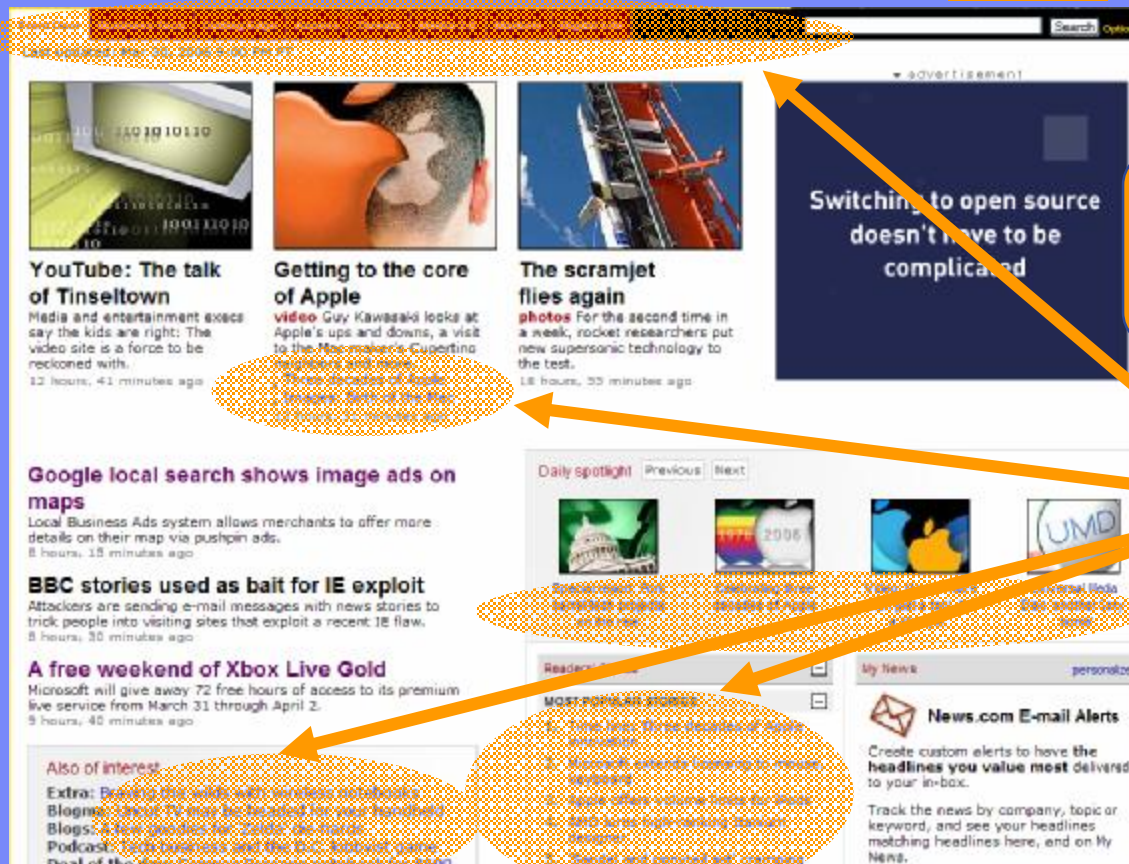
4. See changed content (image)



Lotus

A crawlable WebSphere Portal 6.0 Portal Site

News Center Portal



(Hidden) optional Sitemap for the crawler to efficiently crawl all pages

Optional robot directives to not require the crawler to follow links on the portal pages.
<META name="robots" value="noindex, follow">

URLs normalized (for a crawler)



Content

- § Architecture
- § Administrator and User Productivity
- § Site Owner Productivity
- § Content Author Productivity
- § Developer Productivity
- § Operator Productivity

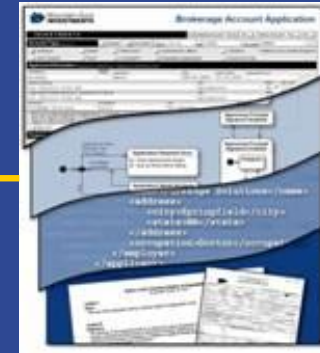
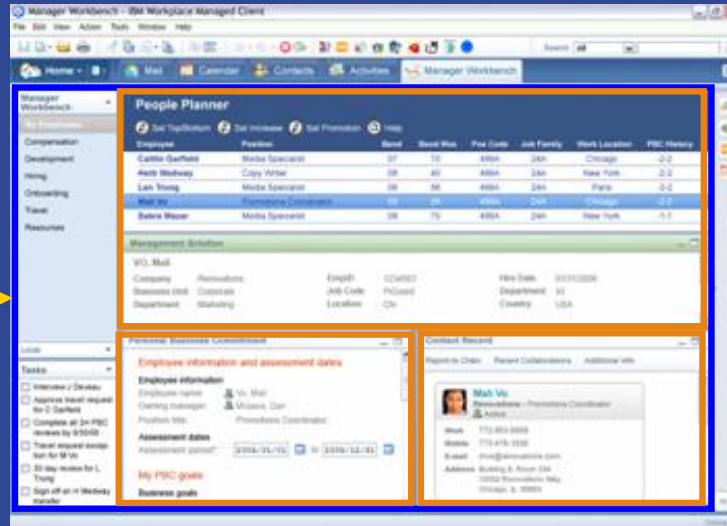


Building New Components

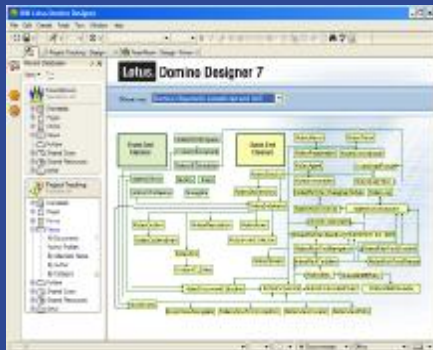
Components can be built with a variety of tools, and developer skills. Components can be built independently from assembly (composite).



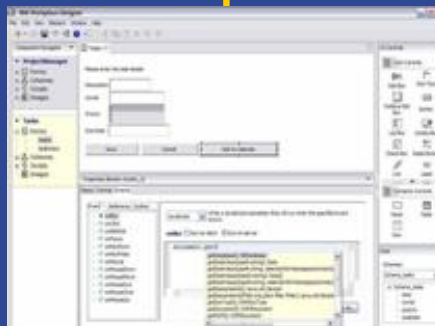
Integration Applications built with WebSphere Portlet Factory



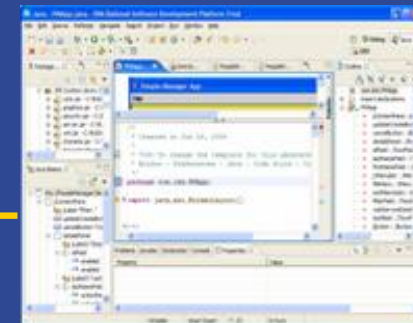
E-form built with Workplace Forms Designer



Notes applications built with Domino Designer



Collaborative applications built with Lotus Component Designer



Portlet application built with Rational Application Developer



AJAX enabled Portlets with Portlet Factory

The screenshot shows a web browser window titled "IBM WebSphere Portal - Microsoft Internet Explorer". The address bar shows a localhost URL. The page content includes three portlets:

- Phone Number Lookup:** A form with a text input containing "Mar" and a dropdown menu showing a list of names starting with "Mar". Below the form is a table of results.
- Product Search:** A list of products with "IBM ThinkPad T42" selected.
- IBM ThinkPad T42:** A detailed view of the selected product, including an image and specifications.

Annotations with orange callouts point to specific features:

- Typeahead:** Points to the dropdown menu in the Phone Number Lookup portlet.
- In place Paging:** Points to the pagination controls at the bottom of the Phone Number Lookup table.
- Fragment refresh:** Points to the IBM ThinkPad T42 product details.

Typeahead

In place Paging

Fragment refresh



Workplace Forms Integrated with Portal

The screenshot shows a web browser window displaying a form titled "Flexible Lifetime - Investments - Switch Form". The browser's address bar shows "Home > Documents >". The page has a navigation menu with "Welcome", "My Workplace", "Documents", "News", "Communities", "Business", and "Executive Dashboard". A search bar is located in the top right corner.

The form is divided into several sections:

- Steps:** A vertical list of steps on the left side of the form:
 1. Personal Details
 2. Auto Rebalancing Facility
 3. Investment Instructions
 4. Agreement & Declaration
- Personal Details:** Fields for Title (Mr), Last Name (Handes), First Name (empty), Date of Birth (empty), Client Number (empty), Address (empty), Suburb (empty), State (dropdown menu), Postcode (empty), and Email (empty).
- Advisor Details:** A section containing:
 - Name: Gary Wickham
 - Number: ADMR-6LZCUE
 - Company: Clynne and Smyth
- 2D Bar Code:** A large 2D bar code located at the bottom right of the form.

Annotations with arrows point to specific features:

- Portal Integration:** Points to the "Documents" tab in the navigation menu.
- Field Validation:** Points to a red error message box that says "This entry is invalid. Please try again." located next to the Client Number field.
- Pre-Population from SAP:** Points to the "Advisor Details" section.
- 2D Bar Code:** Points to the 2D bar code.



WebSphere Portal 6.0 Programming - New APIs

§ Support for Templateable Composite Applications

- 4 Business Component APIs (templateable applications)

§ Extension Points (Eclipse)

- 4 Themes and Skins with extension points

§ New and enhanced public APIs

- 4 Content API
- 4 Search API
- 4 Policy API
- 4 Edit Default Mode for Portlets
- 4 Workflow APIs (binder)
- 4 Task management with WebSphere Process Server (`HumanTaskManagerDelegate`)

§ New and enhanced public SPIs

- 4 Meta Data SPI (e.g. Page Meta Data)
- 4 URL Generation SPI and State manager SPI
- 4 Drag and Drop SPI

§ and much more....



Portlet API consolidation

- § Since WP5.1 IBM recommends implementing Standard Portlets (JSR168).
- § WebSphere Portal 6.0 deprecates the IBM portlet API
 - 4 Avoid any confusion for customers when selecting the right API for moving forward.
 - 4 The API will continue to be supported for the next releases, but no new functionality will be provided
 - 4 It is recommended to move portlets to the Standard Portlet API (JSR 168)
- § WP 6.0 adds new capabilities, some are only available for Standard Portlets some are for both APIs.

*IBM leads JSR286 EG which will define the follow on version of the Portlet API.
The final version of JSR286 is currently expected by mid 2007.*



Example: One Theme – Multiple Looks and Layouts

The first screenshot shows a standard navigation style with a breadcrumb trail: Administration > WebSphere Portal > Portal User Interface > Manage Pages >. The second screenshot highlights the 'Manage Pages' link in the breadcrumb trail with a red box. The third screenshot shows a more complex navigation structure with a blue 'Administration' header and a detailed left-hand menu containing items like 'Web Modules', 'Applications', 'Portlets', 'Web Services', 'Web Clipping', 'Access', 'Users and Groups', 'Resource Permissions', and 'User and Group Permissions'.

This screenshot shows a navigation style with two top navigation bars. The first bar contains 'WebSphere Portal' and 'Welcome'. The second bar contains 'Portal User Interface', 'Portlet Management', 'Access', and 'Portal Settings'. An orange callout box labeled 'doubleTopNav' points to the second bar.

This screenshot shows a navigation style with a single top navigation bar containing 'WebSphere Portal', 'Welcome', 'Portal User Interface', 'Manage Pages', 'Themes and Skins', and 'Portlet Management'. An orange callout box labeled 'singleTopNav' points to this bar.

This screenshot shows a navigation style with a side navigation menu on the left containing 'WebSphere Portal', 'Welcome', 'Portal User Interface', 'Manage Pages', 'Themes and Skins', 'Portlet Management', 'Web Modules', and 'Applications'. An orange callout box labeled 'sideNavOnly' points to this menu.

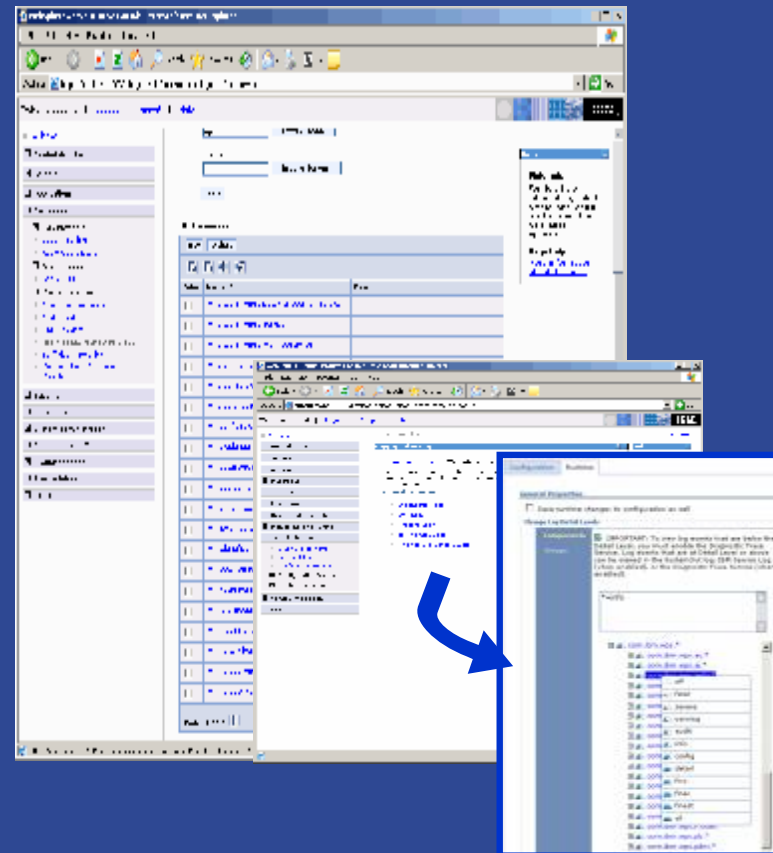
Content

- § Architecture
- § Administrator and User Productivity
- § Site Owner Productivity
- § Content Author Productivity
- § Developer Productivity
- § Operator Productivity



Administration Console Integration

- § Portal configuration management integrated with WAS configuration management.
- § Full UI and script support for portal configurations.
- § Easier operation of clustered Portal installations.
- § Less manual steps and reduced risk for failure.
- § Trace configuration can be done in WAS UI or script. (Startup and runtime Settings)



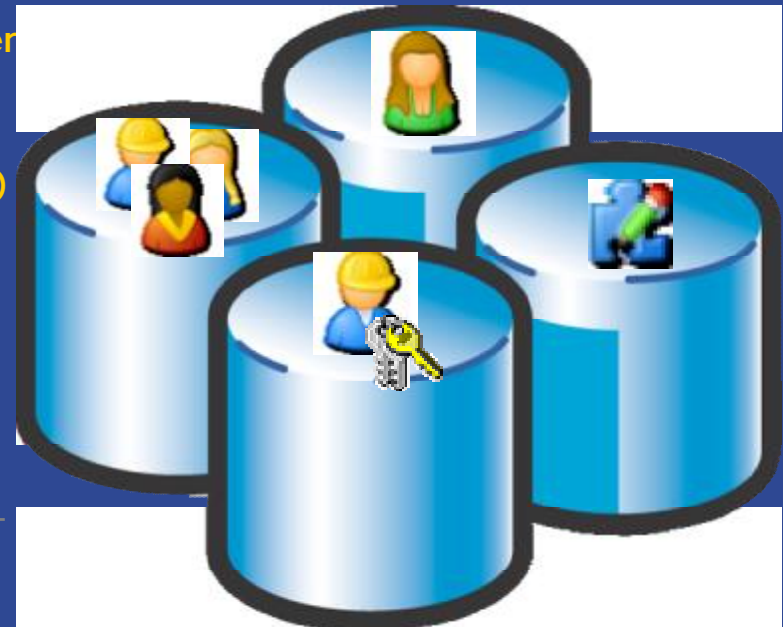
Portal Data Separation - Resilient Portal

§ Why would I exploit data separation?

- 4 Allows for 24/7 maintenance and upgrades, and easier back-up and restore
- 4 Eases management of portal in cluster configurations
- 4 Enables global deployment (with replicated user data)

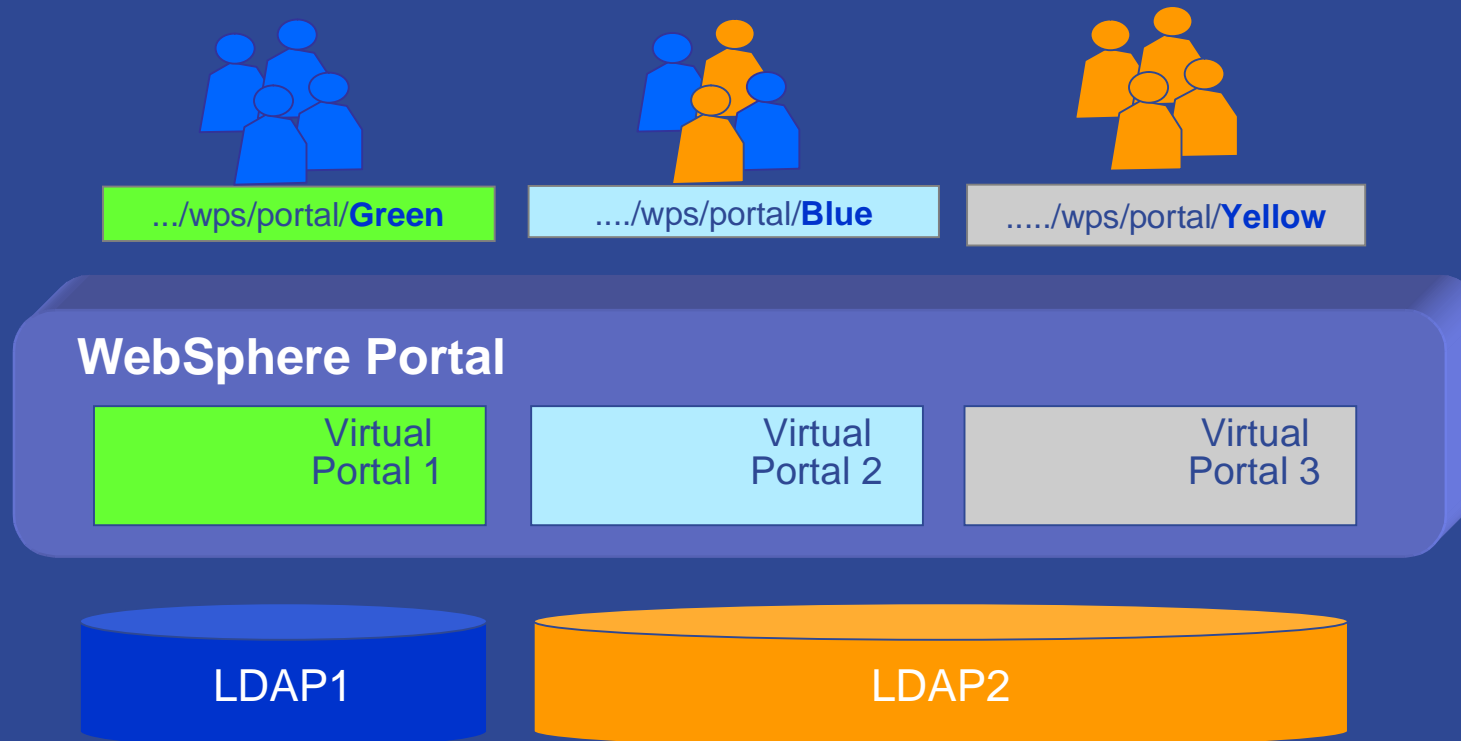
§ Partition Portal configuration data into 4 logical buckets

- 4 Configuration data: Class files and property files, etc.
- 4 Release data: portal pages and the portlet instances + default modes and state
- 4 Customization data: portlet data (user data)
- 4 Community data: WCM, PDM, application instances



Multiple LDAP Support

Portal user communities can be distributed across multiple LDAP servers.



Example:

- LDAP for employees (corporate directory)
- LDAP for customers (website repository)
- LDAP for suppliers (supplier LDAP)



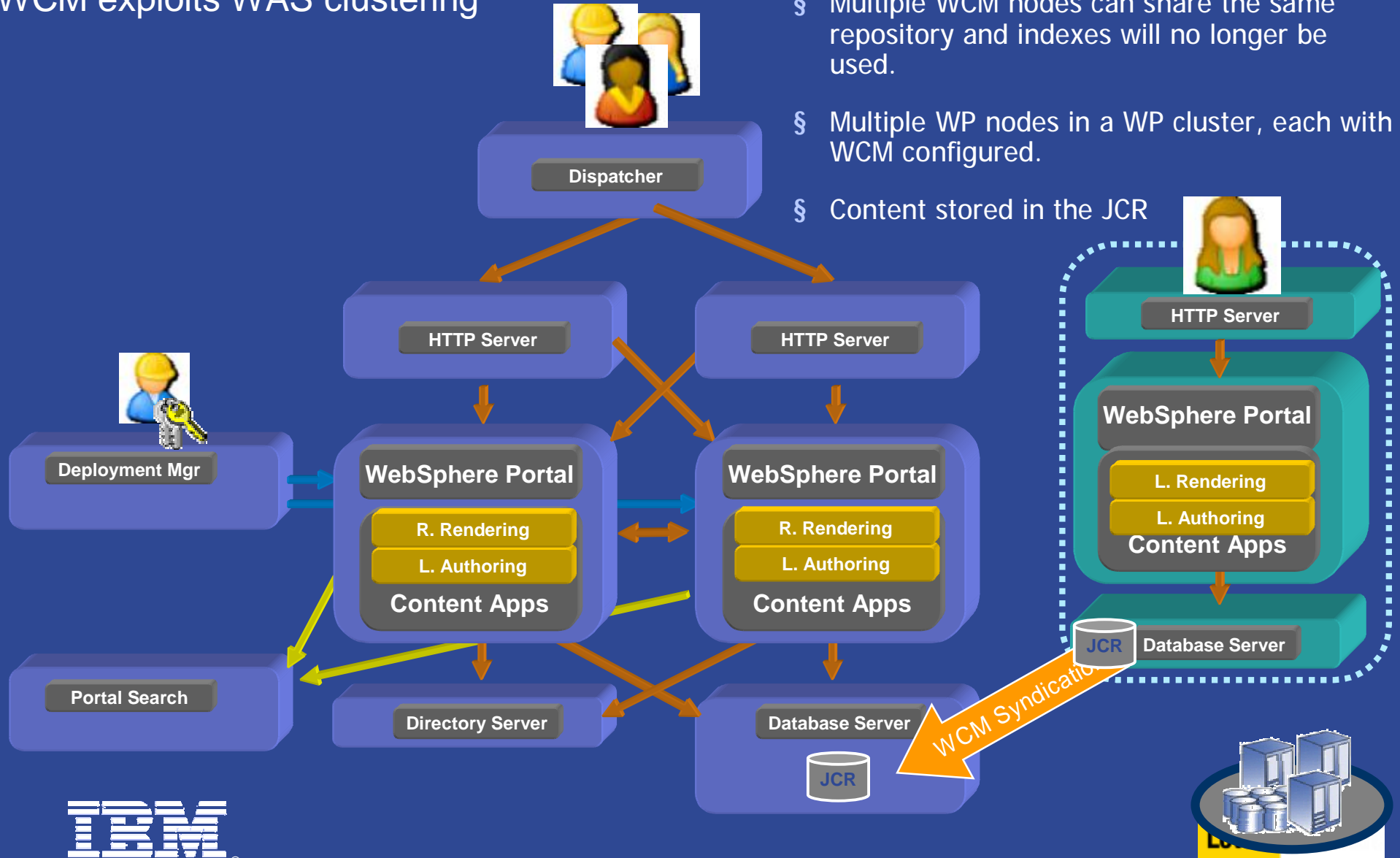
WCM Clustering

WCM exploits WAS clustering

§ Multiple WCM nodes can share the same repository and indexes will no longer be used.

§ Multiple WP nodes in a WP cluster, each with WCM configured.

§ Content stored in the JCR



What's next ?

WebSphere Portal Future:



The following material is directional in nature and does not imply any product plan commitment on the part of IBM.

Some of the ideas presented here may be delivered in future version of WebSphere Portal, but some will not.

Web 1.0 compared to Web 2.0

§ Web 1.0

- 4 „Web Master“ runs „web site“
- 4 Few content editors publish content for users
- 4 Web site provides content and applications for users as views
- 4 View-only markup
- 4 Users consume, with some level of customization
- 4 Only human users
- 4 Accumulates relatively small amounts of data, generates limited server load
 - à Limited potential for processor / storage sales

§ Web 2.0

- 4 „Users“ collectively create the „*web space*“
- 4 Every user is a content editor and rater
- 4 Web space provides content and applications for users *+ the collective contributions of all users and views and data + mining/collab filtering*
- 4 Semantically tagged markup with useful meta-information
- 4 Users consume *and contribute*
- 4 Human users *+ programs/apps as „users“*
- 4 *Accumulates big amounts of data, generates significant server load*



Team Productivity Enablement - IBM Lotus Quickr 8.0

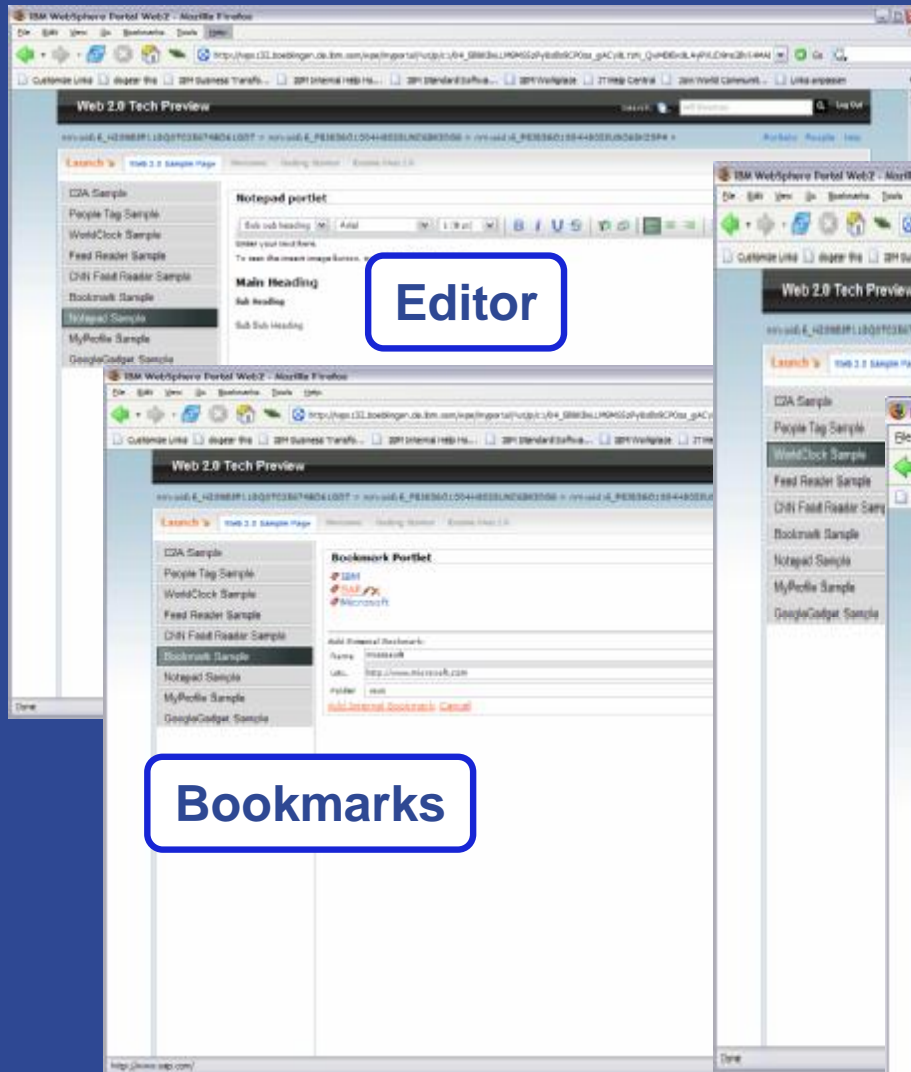
Team Spaces allow team collaboration by information driven components like...

Document
Libraries
Wiki
Blogs
Discussions
Lists
Team Tasks List
Feed
Consumption
Full-text search
Person Menu
Awareness/Chat

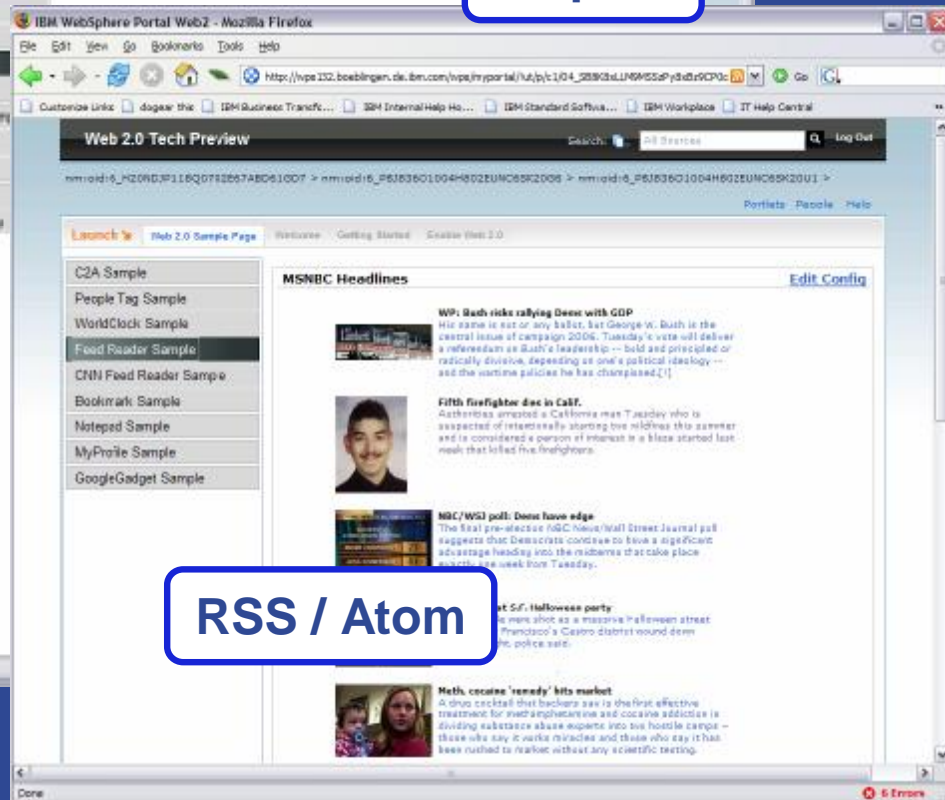
The screenshot displays the IBM Lotus Quickr 8.0 interface. At the top, there is a navigation bar with 'Lotus QuickPlace Genesys' and a search field. Below this, the 'Teamspaces' section is visible, featuring a 'Welcome to Teamspaces' message and a sidebar with options like 'Samples', 'Recently Visited', 'Recently Updated', 'Favorites', and 'Create'. The main content area is divided into two panes. The left pane, titled 'YourCo Document Library', shows a 'Document Manager' interface with 'Personal Views' (Checked Out (1), Working Drafts, All of your documents, Your Favorites) and 'Shared Views' (All documents, New this week, Not completed, Process documents). The right pane shows 'Take Action' (New folder, New Personal View), 'Tasks' (Total, Close, Log, Open, Close, Log, Open), and 'About the library' (Name: YourCo Document Library, Description of the library, You have Editor access (!), Link). The bottom pane shows a 'Wikispaces' page with a 'What's New' section, a 'Wikipages' list (Slides to be worked on here, Web 2.0 Portal, QuickPlace customer interactions, Wiki Pages, Monaco High Level Architecture), and a 'Comments' section. The IBM logo is visible in the bottom left corner, and the Lotus logo is in the bottom right corner.

AJAX Portlets

DOJO

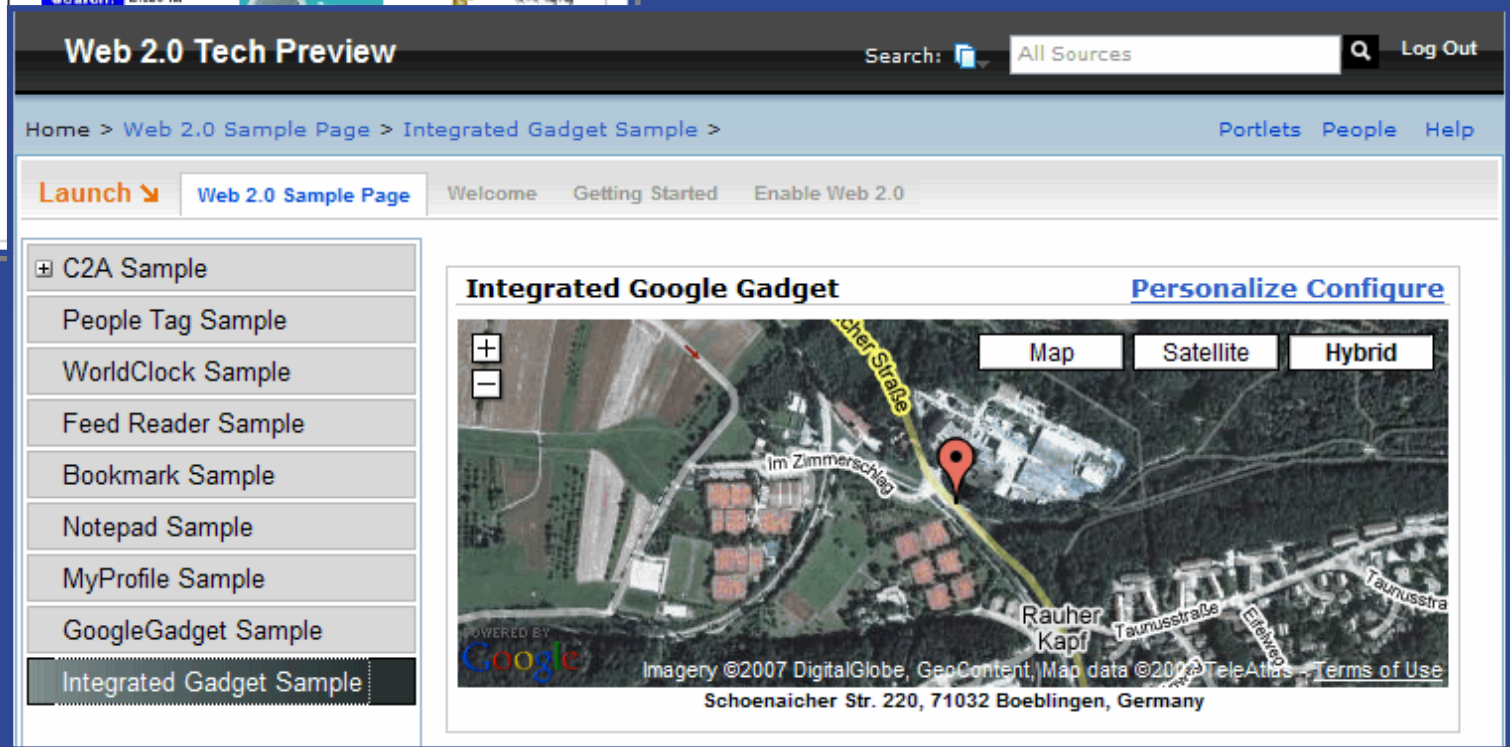
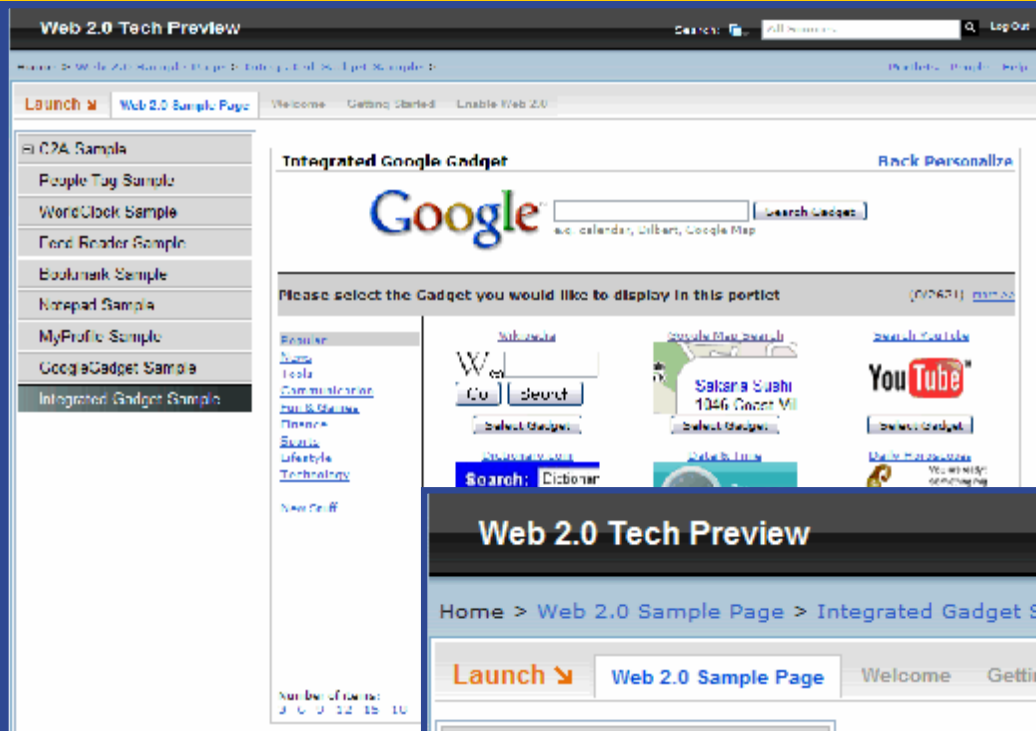


Bookmarks



** Some of the ideas presented here may be delivered in future version of WebSphere Portal, but some will not.

Google Gadget Integration – A Gadget integrated in WebSphere Portal as a portlet



Semantic Web Support used by Context Info/Menus, Drag&Drop, End user programming, ...

Conference Participants

...

IBMST

IBM Corporation	
Quote as of 4:10 PM EDT on 6 Jun 2006	
Last trade:	79.76
Change:	+0.70
Percentage Change:	0.88
Volume:	7,173,400
Open price:	79.00
Day high:	79.90
Day low:	78.00
Previous close:	79.00
Yield:	0.97
P/E ratio:	15.00
52 week high:	89.94
52 week low:	70.40
Indicated annual dividend:	1.20
Earnings per share:	5.10

SCHAECK, THOMAS
IBM Software Group, WFLC
Lead Architect Portal and Workplace Perf

WESTFORD, MA USA
Building: WTP8 | Floor: 2 | Office: 2436

1-978-399-6390 (T/L: 333-6390)
N/A
thomas_schaeck@us.ibm.com
Thomas Schaeck/Westford/IBM@LOTUS

Dr 555-...
Click to dial

GroupST **Locations^{ST'}**

- Extensible set of well defined object types (user, person, address, phone number, document, company, calendar event, ...) and relations between them (Ontology)
- Allow marking content elements with types through semantic tagging
- Allow defining actions for object types
- Display context info and action menus based on semantic tag types
- Allow drag and drop driven UI based on (type, type+action), e.g. drag name into customer list to add

Web 2.0 Portal Vision - Open Architecture

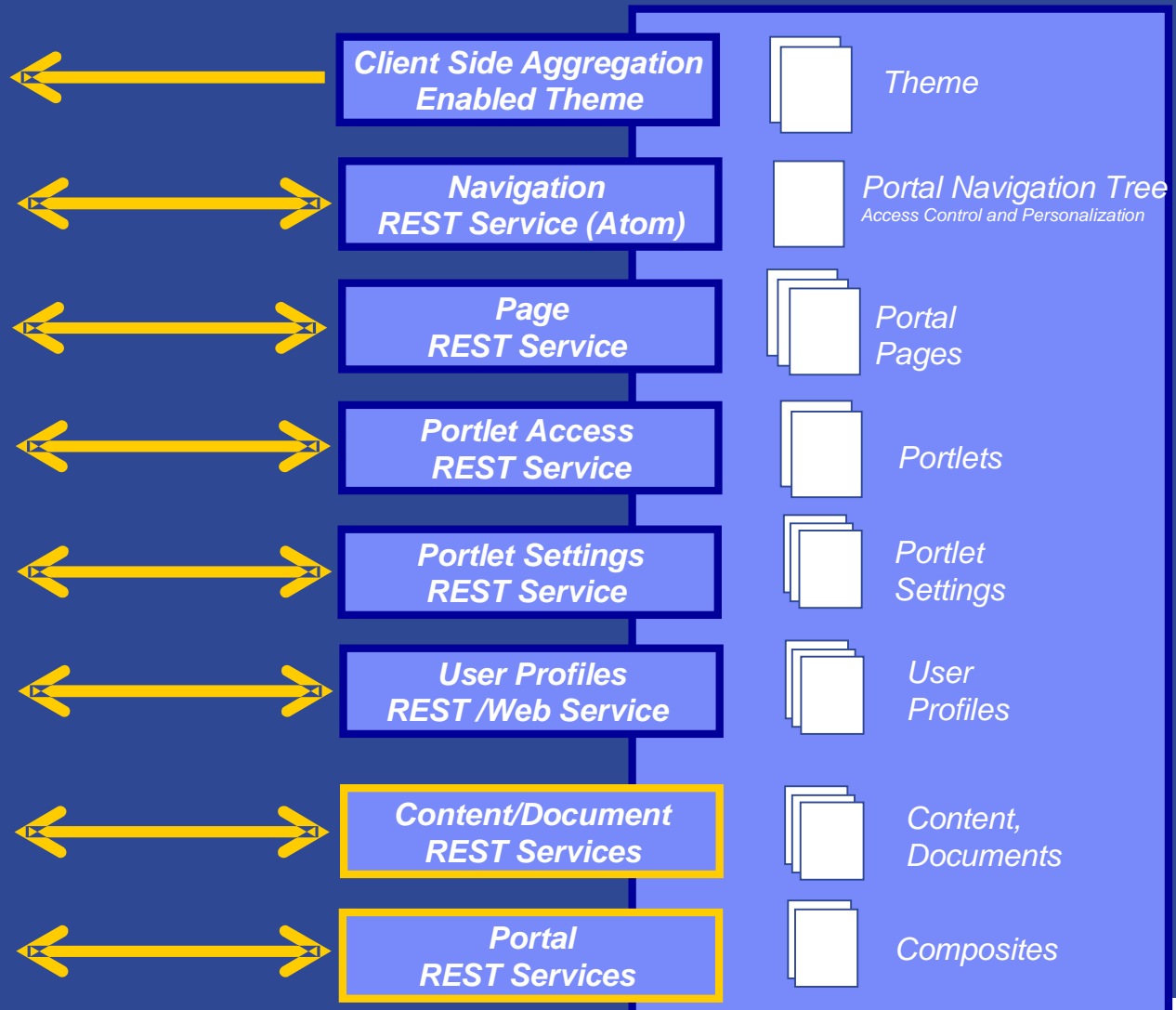
Client Side Aggregation and Open REST Services

*REST is the acronym for „Representational State Transfer“
It is the architectural model on which the WWW is based*

Customer / Third Party Applications



Client or Server Side aggregation



Content

- § Architecture
- § Administrator and User Productivity
- § Site Owner Productivity
- § Developer Productivity
- § C...

QUESTIONS?





Thank You



Additional Information and Resources

§ Websphere Portal and Workplace Catalog:

4 <http://www-3.ibm.com/software/genservers/portal/portlet/catalog>

§ Webspere Portal Product Information:

4 <http://www-306.ibm.com/software/genservers/portal/enable/>

§ WebSphere Portal Information Center documentation

4 <http://www-106.ibm.com/developerworks/websphere/zones/portal/proddoc.html>



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