

IBM Inter-University Programming Contest 2012 Training

Chapter : 5 IBM WebSphere Portal



IBM Inter-University **Programming Contest** **2012**

February 11, 2012 (Saturday)
Cliftons, Hong Kong



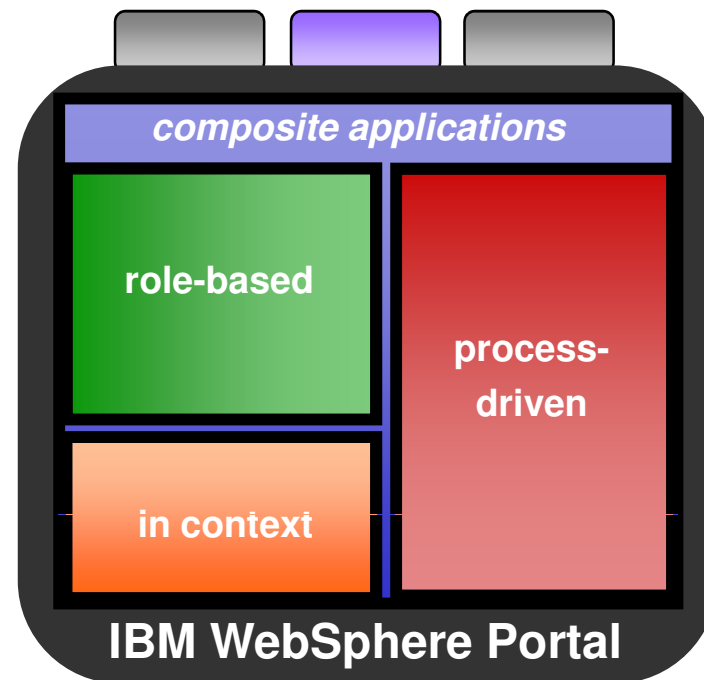
Agenda

- Value Proposition of a Portal
- What is a Portal?
- WebSphere Portal V7.0 Architecture
- Methods to quickly populate your Portal with existing content and applications
 - Feeds
 - Static HTML
 - Dynamic web applications
- WebSphere Portal delivers Exceptional Mobile Experience

WebSphere Portal – What it Does

WebSphere Portal:

- provides a **framework**,
- for delivering **role based, contextual & process driven composite applications**,
- that make **more people, more productive**,
- in the **context** of what they do everyday.



WebSphere Portal Strategy

Delivering Exceptional User Experiences:

- Deliver the **user experiences they choose** to their partners, employees, customers, or citizens, with **flexibility** for change and based on **open standards**.
- **Quickly leverage existing investments**, through market-leading composite application tooling and robust framework
- **Create highly personalized applications** that adapt to users' context, community, role, actions, location, and preferences
- **Interact with information** from the user's device of choice
- **Deliver a front-end to SOA**, enabling business flexibility and agility
- **Speed time to value** with Prebuilt Portal snapshots for specific business problems



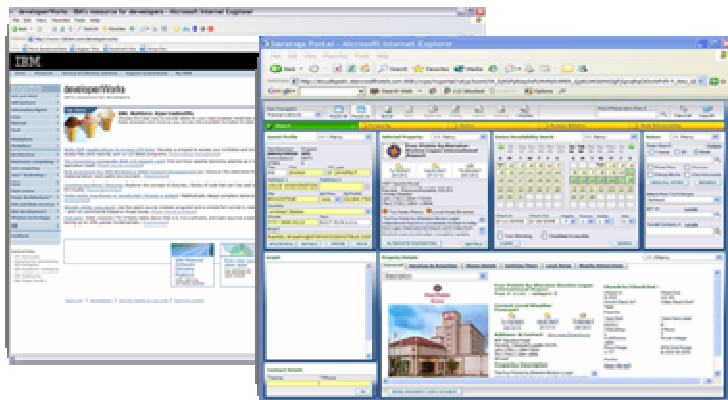
WebSphere Portal



Exceptional User Experience

IBM enables organizations to quickly deliver rich, personalized web sites that optimize business goals and generate loyalty.

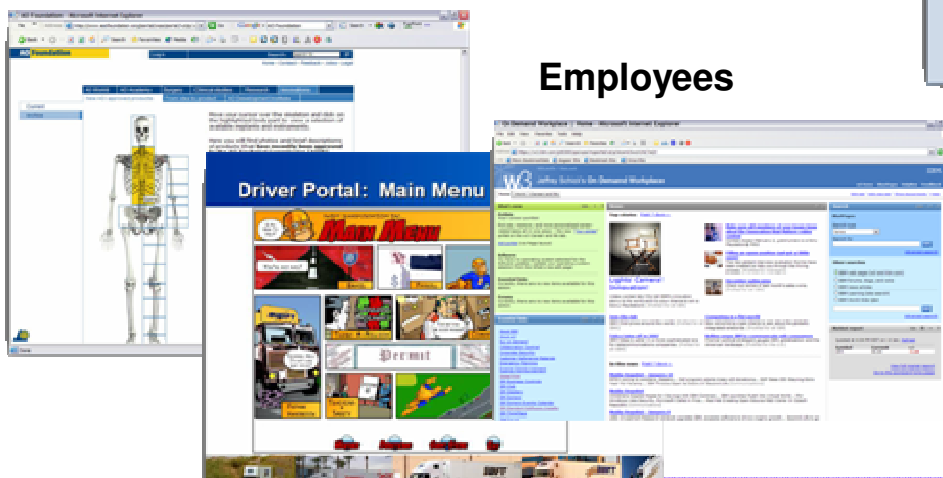
Partners



Customers



Employees



One Platform -- Many Different Business Needs

Exceptional “User Experience” Drives Productivity

- Contemporary, Fresh Look and Feel
- Fly Out Menus and Page navigation
- Drag & drop support
- Portlet Palette
- Search
- Menus delivered “in context”
 - Appropriate actions based on the portal object
 - Only shows the “actions” allowed by the “User Role” (Security)
- Super-responsive, rich and interactive portlets, content and applications



On Demand Workplace: Manager Portal

Seamless “Work With Your Employee” Tools

Personalized Manager Content

Manager Resources Portlet

Work-embedded Learning

Act Now Calendaring Functions

Work with your employees

Select an employee and choose an action you want to take with that employee. You may also click the employee's name to view their entry in Bluepages.

Management line: **Winters, Victoria**

Select	Employee	Serial	Band	Dept	Status	People managed
<input type="radio"/>	Collins, Barnabas	192119	8	ZY00		
<input type="radio"/>	Deldago, Susan	1A2567	9	ZY00		View
<input type="radio"/>	Epworth, Ryan	654321	7	ABCD	Int'l assignee	
<input type="radio"/>	Fachner, Gustav	323231	6	ZY00		
<input type="radio"/>	Gentner, Emilie	181811	9	ZY00		View
<input type="radio"/>	Milgram, Stanley	010101	8	ZY00		
<input type="radio"/>	Wundt, Wilhelm	066600	7	ZY00	On leave	
<input type="radio"/>	Wolf, Rod	006488	6	ZY00		
<input type="radio"/>	Williamson, Jack	121212	6	ZY00		
<input type="radio"/>	Xavier, Charles	126010	7	ZY00		
<input type="radio"/>	Yang, Yin A.	2A2789	8	ZY00		

Employees 12-23 of 30 [Previous](#) | [Next](#)

Action: [Open About Your Employees](#)

Working knowledge

Working knowledge delivers personalized content based upon your Work-related information settings and your Working knowledge settings. To receive timely content from our Working knowledge, please keep these settings current.

All IBM

[IBMers establish themselves as authors for software handbook](#) Guide [Part 7 days >](#)

IBM Global Services

[IGS leads all other outsourcing vendors in North America](#) Consultant Analysis [Part 7 days >](#)

[View additional content](#) | [Working knowledge archive](#)

Assets and expenses

My assets and expenses for January 2004

My monthly IT expense breakdown

For pie chart and table description, use the Help(?) icon above. Find more information by going to the [Assets & Expenses portal](#).

Category	Percentage
Notes Client	59%
Telephony	32%
Remote Access	7%
Other I/T	3%
VM Expense	0.02%

Act Now

- [Base Pay Planning submissions due May 15](#)
- [Review all of your employees IDPs by June 1](#)

[Selling for IBM](#)

Projected Impact * (2006 – 2008)

- 12 hours annual time saving per manager
- \$571 annual savings per manager
- \$16M total savings for all Mgrs
- \$1.3M hard savings from website reductions

Service Oriented Architecture: The Blueprint for Change



An on demand business is an enterprise whose **business processes**—integrated end-to-end across the company and with key partners, suppliers and customers—**can respond with speed to any customer demand, market opportunity or external threat.**

Why SOA?

- Flexibility
- Facilitates re-use of existing applications
- Supports effective business process implementations
- Designed for change



Portal is the front end of SOA

Aligns Business and IT goals to grow revenue and contain costs

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 - Feeds
 - Static HTML
 - Dynamic web applications
- WebSphere Portal delivers Exceptional Mobile Experience

Portal Principle

- Combines portlets together into one unified presentation
- Delivers a highly personalized experience, considering role, personal settings, and device settings
- Separates
 - site design
 - site/page assembly
 - administration
 - application design
- Provides application integration, collaboration, single sign-on services and much more

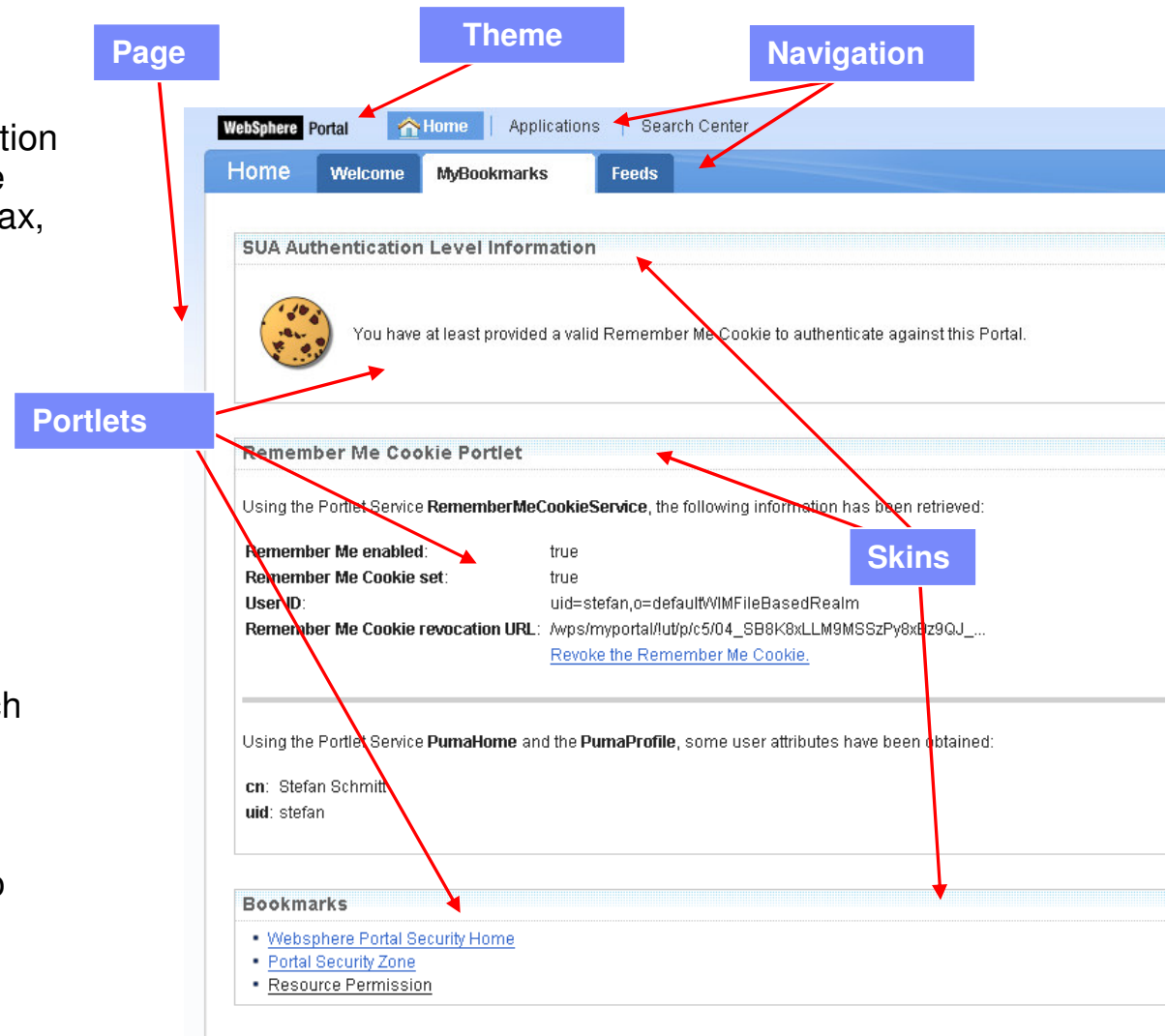


Pages and Portlets

- A portlet is a “window” on a page
 - Each portlet is a separate application
 - Can be placed anywhere on page
 - Each portlet has it’s own state (max, min, edit, etc)
 - Dynamic deployment and configuration
 - Supports multiple markups
 - Business logic can be shared between portlets
 - Can be rendered independently

- A theme is the overall design and navigation for a page
 - Includes “Web 2.0” capabilities
 - Enforces branding, style
 - Can Include functions, e.g., search bar

- A skin is the border of a portlet
 - Can be invisible to user
 - Presents customization options to user
 - Also enforces branding, style



IBM Incorporates Open Standards



The Dojo Toolkit is a leading open source JavaScript toolkit. Endorsed by companies including IBM, AOL, and Sun Microsystems, Dojo allows you to create world-class user experiences.



OASIS WSRP Wiki WSRPv2 Executive Summary

What is new in WSRP v2.0?

WSRP v1.0 defined the base functionality for discovering, accessing and routing user interactions to remote portlets. WSRP v2.0 extends these definitions to cover the following additional use cases:

- Coordinating portlet response to user actions
- Leasing of resources
- Means to move customizations across various protocol boundaries
- Means to declare and define protocol extensions

Designed for humans first and machines second, microformats are a set of simple, open data formats built upon existing and widely adopted standards.



JSRs: Java Specification Requests

JSR 286: Portlet Specification 2.0

Specification Lead

★ Stefan Hepper IBM

Version 2.0 of the Portlet Specification plans to align with J2EE 1.4, integrate other new JSRs relevant for the portlet, and align with the WSRP specification V 2.0.

Status: Final

Final Release

12 Jun, 2008

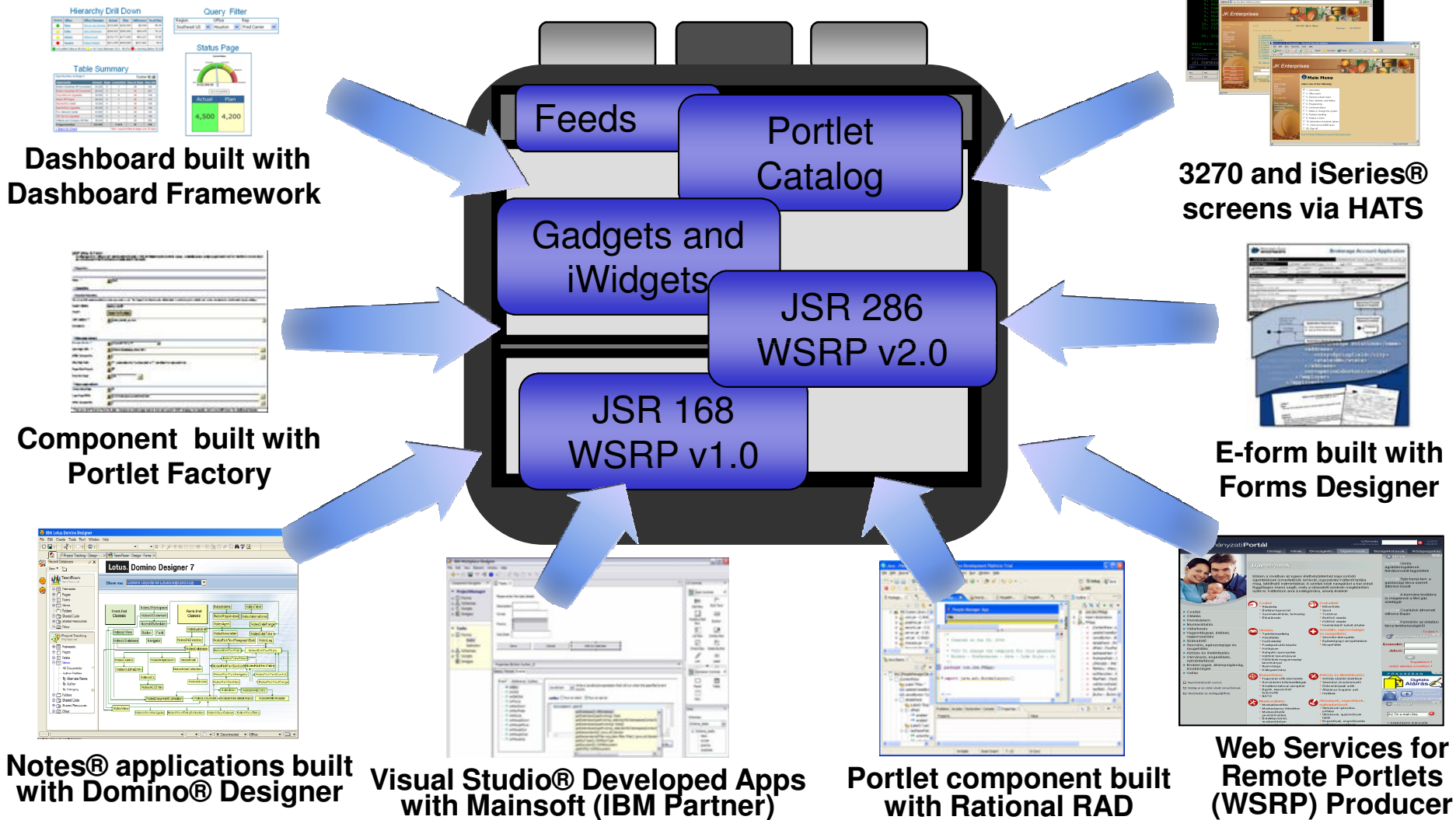


iWidget

"A web widget is a portable chunk of code that can be installed and executed within any separate HTML-based web page by an end user without requiring additional compilation. They are derived from the idea of reusable code that has existed for years."

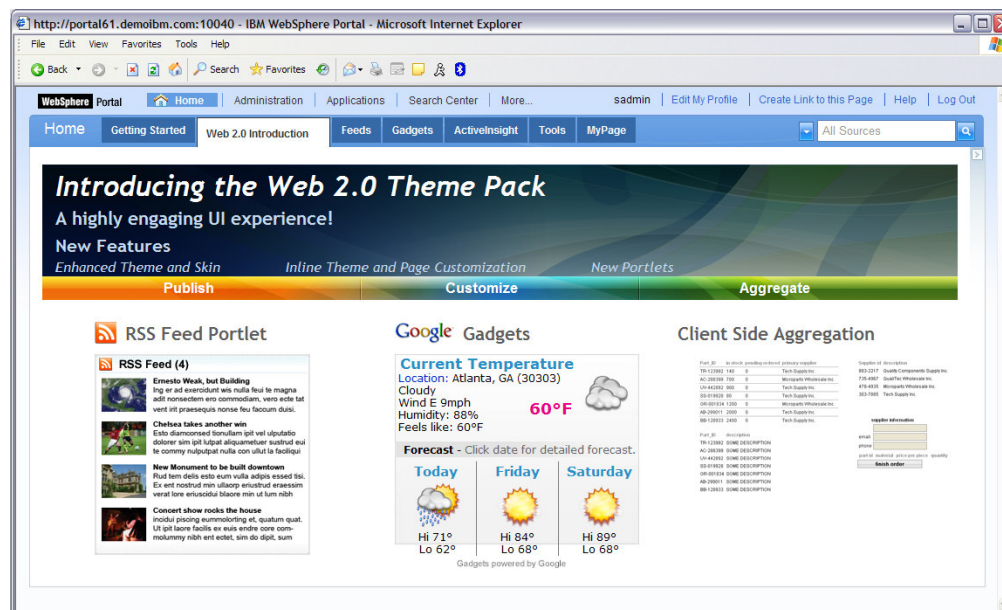
Leverage Your Investments to Populate Portal

Tremendous Flexibility and choice



Putting Pages, Applications & Other Content into Portal

1. **Display Existing HTML/Web Apps**
Web Clipping, Web Application Integrator
2. **Install Existing Portlets Out-of-the-Box or from the Portlet Catalog**
Enterprise Resource Planning (ERP), Customer Relationship Management (CRM), eMail, Green Screen, Dashboard, etc. (drag and drop on to pages)
3. **Use HTML tools (“Static Pages”)**
Build HTML/CSS with HTML editor. Add portlets, live text, instant messaging, etc.
4. **Lotus Web Content Management**
HTML/JS content, Personalization, Web Content Integrator, Doc Libraries*
5. **Use Built-in Web 2.0 Services**
Semantic Tagging (Live Text), Client-Side aggregation, AJAX, REST
6. **Incorporate Collaboration**
Awareness, Instant Msg, Team spaces, etc.
7. **Consume a Web Service or WSRP**
Standards based integration, WSRP 2.0
8. **Build Composite Applications, eForms & Business Processes**
C2A*, Cooperative portlets, HATS, App templates, Process Portal, Lotus Forms



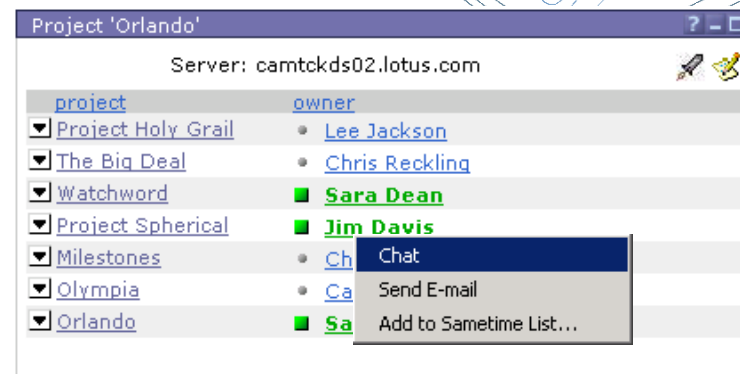
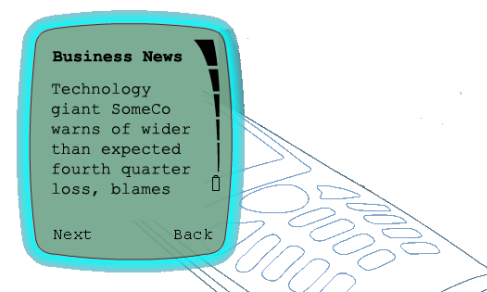
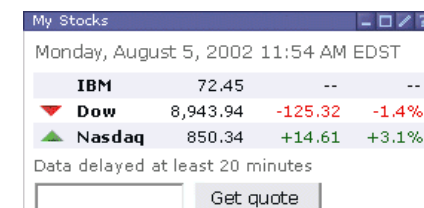
9. **Develop Custom Portlets**
Portlet Factory, RAD, (Java™, JSPs, Web Services, REST*, AJAX*, Java Specification Request (JSR 286*))
Run .net apps as Java apps (Mainsoft®)
10. **Extend the Browser**
Utilize rich/remote/mobile clients, e.g. Expeditor, Citrix® portlets, Mobile Portal

Portlets

Provided with WebSphere Portal 7

- Mail / PIM Solutions - Lotus Notes®, Exchange, IMAP/POP3
- Web Apps Integration: Bookmarks, Banner, Quicklinks, Webpage, Web Clipper, Really Simple Syndication (RSS), File Server, Java Server Page (JSP) Server, Servlet Invoker, Web Services (producer and consumer)
- Personal Organization: Reminder, PDF Document Viewer, World Clock, My SQL Query Reports, Retirement Planner, Currency Calculator, My ToDo's, Comma Separated Values (CSV) file viewer
- News and Information: Events, News, Links, My Weather, My Vertical News, My Stock, Company Tracker.
- Administration Portlets – Site Management, Manage Pages, Manage Portlets, Themes and Skins, Web Services, Manage Search, Web Content Libraries, Syndication, Virtual Portal manager, etc.
- Collaboration: Lotus Instant Messaging Contact List, Who Is Here, People Finder, My Team Workplaces, Web Conferencing, Domino Web Access, Domino Document Manager, NotesView, Notes Mail, Calendar, Tasks, ToDo, Discussion, Teamroom
- Utility Portlets: Login, Profile Management, About WebSphere Portal, Directory Search, Search Center, Instant Messaging connect
- Search: Document Search, Search Center, Suggested Links
- Content Integration: Web Content Management, Productivity Components, converters and viewers
- Business Process Integration: My Tasks and process portlets
- Sample Portlet Applications: Basic, Struts framework, cooperative portlets

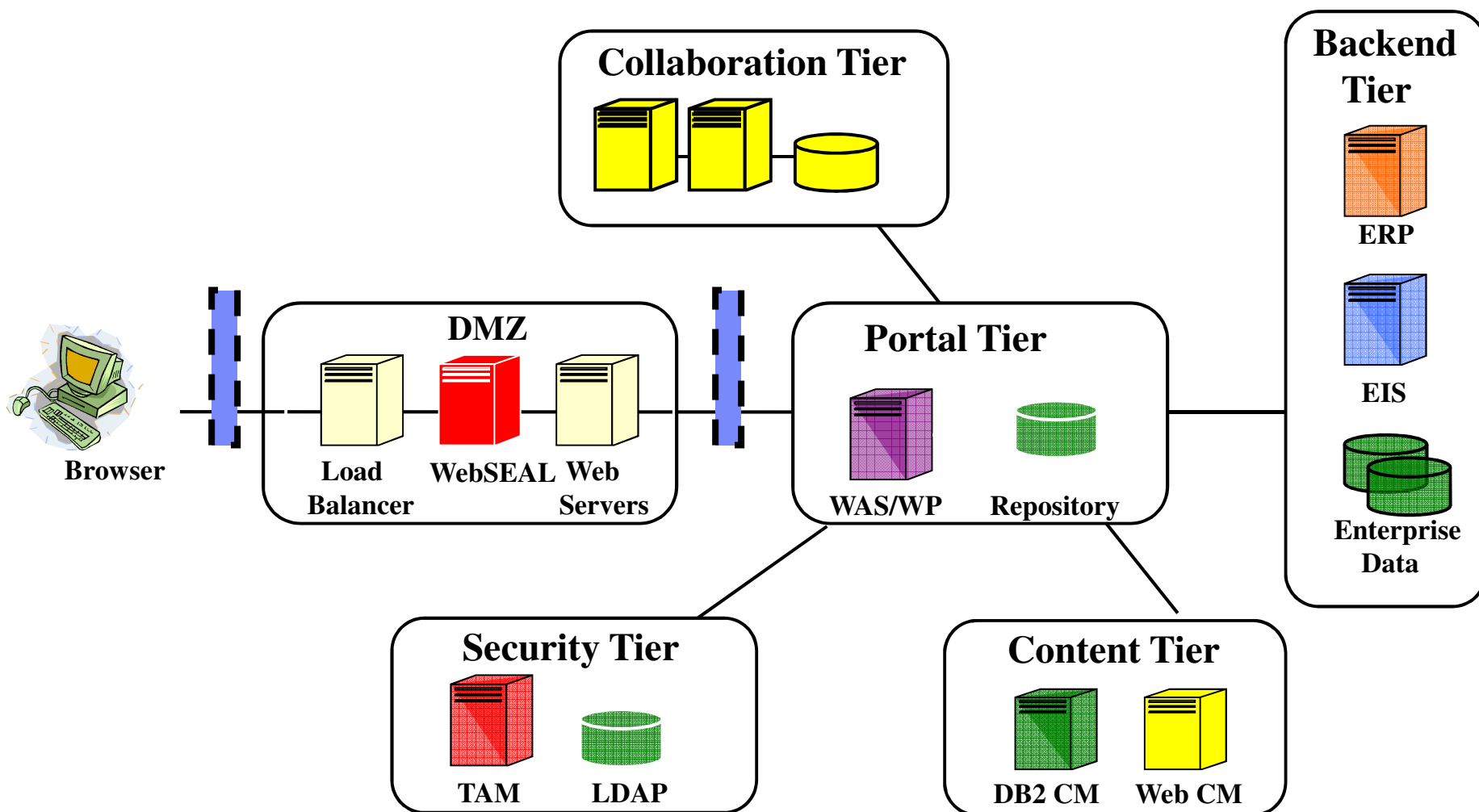
Title	API Type	Unique name
Login	JSR 168	wps.p.Login
Profile Management	JSR 168	wps.p.Selfcare
WSRP Proxy Portlet	JSR 286	wps.p.wsrp.proxyportlet
About WebSphere Portal	IBM API	wps.p.Welcome
Search Sitemap	JSR 168	wps.p.Sitemap



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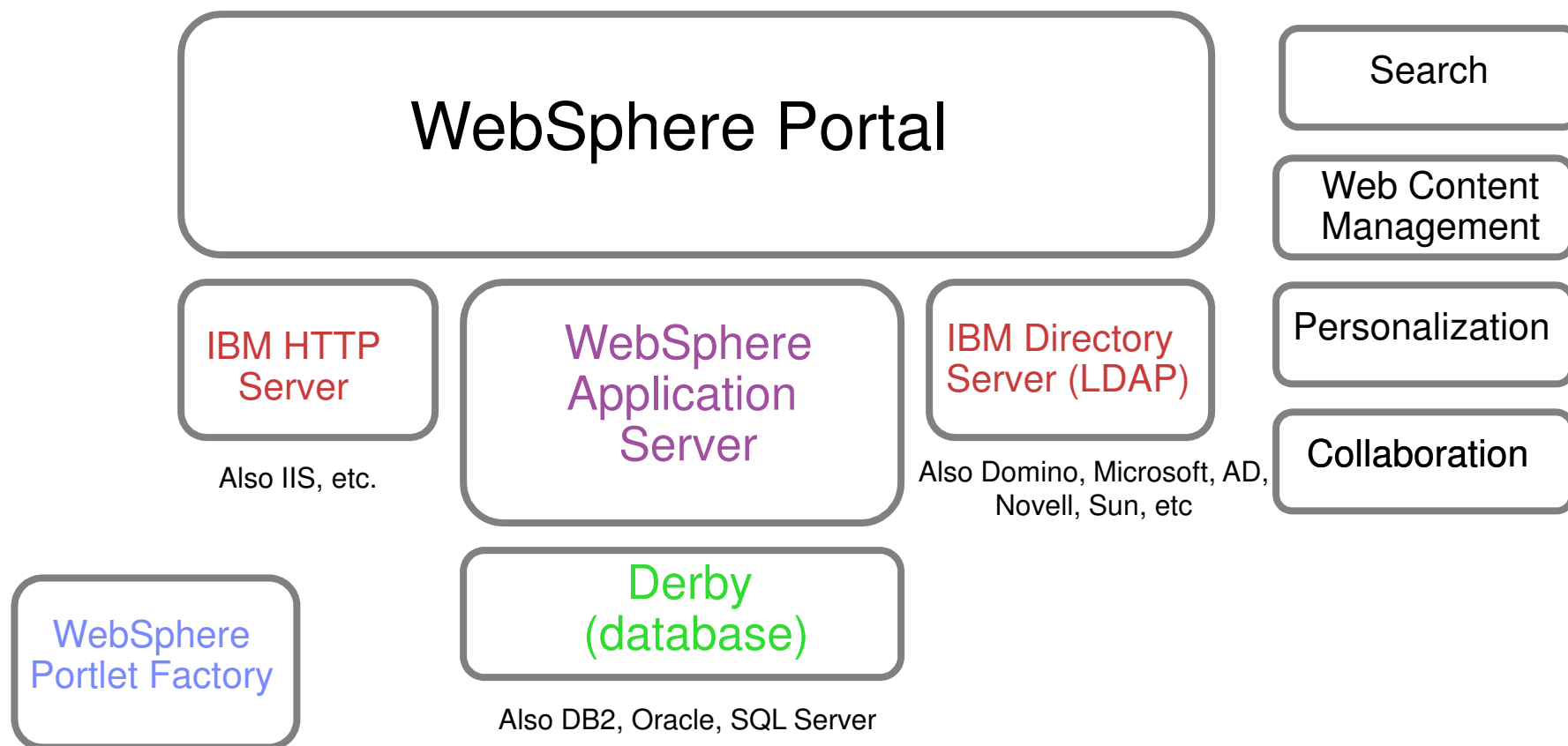
WebSphere Portal Production Architecture



Works with your Environment

- Platforms
 - AIX®, i5/OS®, RHEL and SLES Linux® (Intel®, pSeries®, zSeries®), HP-UX, zOS® (native), Solaris™ and Windows®
- Databases
 - IBM DB2®, Oracle®, SQL Server®, Derby (Cloudscape®)
- Directories
 - Microsoft® Active Directory, Novell® eDirectory, Sun™, Domino®, IBM Directory Server, Custom User Registry
- External Security Manger
 - Tivoli® Access Manager, SiteMinder
- HTTP Web Servers
 - IBM, Apache, Microsoft, Sun
- Browsers
 - Microsoft Internet Explorer, Firefox®

WebSphere Portal Main Components



Portlet Perspective

- To an End User: a portlet is a window to display their preferred content
- To a Content Provider: a means for targeting content to the end user.
- Portal Administrator: a WAR file
- Portal Server: a component rendered and aggregated into one of its pages
- Developer: a java application whose lifecycle is managed by the container

The screenshot displays a web portal for Delta Pacific Bank. The main header includes the bank's name, a user greeting 'Welcome Cathy Robins!', and navigation links like 'Home', 'HR', 'Collaboration Center', 'Working Campus', and 'Help Desk'. The central area is titled 'Collaboration Center' with the tagline 'Helping You Work Together'. It features several portlets:

- Collaboration Tools:** A sidebar menu with options like 'Reservations', 'Conference Rooms', 'Teleconference', and 'Video Conference'.
- Lotus Web Conferencing:** A section for finding and scheduling meetings, showing a list of 'Active Meetings' for 09/17/2002, including a meeting at 11:00 am with Jane, Cathy Robins, and Marie DePaul.
- My Team Workplaces:** A section for searching and viewing quick places, listing items like 'Prospects QuickPlace' and 'BBB Acquisition War Room'.
- People Finder:** A search tool for finding people, with fields for 'Search In', 'Search for', and 'Search Site'.
- My Calendar:** A calendar view for September 2002, showing meetings such as 'Review BBB report with Jane' and 'BBB Review Team Meeting'.
- Lotus Sametime List:** A list of contacts under the 'Work' category, including names like Gerald Brett, Mary LeRose, and Dave Connolly.

Portlet Standards

- Java™ Specification Request (JSR) 286 – Java Portlet Specification V2.0
 - ▶ IBM is leading this JSR, all major Java technology portal (commercial and open source) vendors represented
 - ▶ Approved: March 04th 2008 (WebSite complete April 9th)
- Web Services for Remote Portlets (WSRP) V2.0
 - ▶ Standard protocol for accessing portlets as web service
 - ▶ Defined at OASIS, chaired by IBM, Approved: March 31st 2008
- Common goals
 - ▶ Enable coordination between portlets and allow building composite applications based on portlet components (events and render context (e.g. public render parameters))
- WebSphere Portal seamlessly integrates JSR168, JSR286 and WSRP 2.0 Portlets.
 - Also integrates IBM Portlet API and WSRP 1.0

JSR #286 Portlet Specification 2.0 Final Approval Ballot

These are the final results of the Final Approval Ballot for JSR #286. [The Executive Committee for SE/EE](http://www.oasis-open.org/committees/ballot.php?id=1431) has approved this ballot.

Votes 04.03.2008: <http://jcp.org/en/jsr/detail?id=286>

SE/EE		Icon Legend	
Apache Software Foundation <input type="checkbox"/>	BEA Systems <input checked="" type="checkbox"/>	Eclipse Foundation, Inc. <input checked="" type="checkbox"/>	Fujitsu Limited <input checked="" type="checkbox"/>
Google Inc. <input checked="" type="checkbox"/>	Hewlett-Packard <input checked="" type="checkbox"/>	IBM <input checked="" type="checkbox"/>	Intel Corp. <input checked="" type="checkbox"/>
Lea, Doug <input type="checkbox"/>	Nortel <input checked="" type="checkbox"/>	Oracle <input checked="" type="checkbox"/>	Red Hat Middleware LLC <input checked="" type="checkbox"/>
SAP AG <input type="checkbox"/>	SAS Institute Inc. <input checked="" type="checkbox"/>	Suleiman, Hani <input checked="" type="checkbox"/>	Sun Microsystems, Inc. <input checked="" type="checkbox"/>

Ballot Details 31.03.2008: <http://www.oasis-open.org/committees/ballot.php?id=1431>

Approve WSRP v2.0 as an OASIS Standard	
Should the WSRP v2.0 Committee Specification from the OASIS Web Services for Remote Portlets Technical Committee be approved as an OASIS standard?	[] Yes [] No
Opening: Sunday, 16 March 2008 @ 15:00 ET Closing: Monday, 31 March 2008 @ 23:45 ET Group: OASIS organizational voting	Ballot has closed.

Voting Results		
Voting Summary		
Options with highest number of votes are bold		
Option	# Votes	% of Total
Yes	50	100%
No	0	0%

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Various Methods to Display Portal Content

- Provide links to existing content*
- Display existing static pages*
- Include dynamic web applications*
- Leverage feed sources*
- Build custom portlets
- Supplied email and Lotus portlets
- Download vendor portlets from IBM® Portal Catalog
- Render Web Services for Remote Portlets (WSRP)
- Web Content Manager
- Others?

* We will cover these during this presentation

The screenshot displays the IBM w3 portal interface for Jon G. Temple's On Demand Workplace. The page is organized into several sections:

- Navigation:** Home, Work, Career and life, and a Help link.
- MyNews:** A section for news items, currently showing "There are no new MyNews items for your currently subscribed channels." with links to "View all today's MyNews" and "MyNews archive index".
- Essential links:** A list of quick links including e-Meetings, Customer Reference Materials, Expense Accounts, IBM Americas Intranet, IBM Global Campus, IBM Global Services Knowledge Portal, IBM SiteServ, IBM Standard Software Installer, IBM Travel, Team Central, Assets & Expenses, Sam's w3 Pages, About IBM, and About w3.
- Work with your employees:** A section for managing employees, featuring a table with columns for Employee, Serial, Band, Dept, Status, and People managed. The table lists several employees, including Collins, Barnabas, Daldago, Susan, Epworth, Ryan, Fehner, Gustav, Gentner, Emilio, Milgram, Stanley, Wundt, Wilhelm, Wolf, Rüd, Williamson, Jack, Xavier, Charles, and Yang, Yin A.
- Search:** A search bar with options for "Name only (smith, jo*)" and "Entire profile ('grid computing')".
- Working knowledge:** A section for personalized content based on work-related information settings.
- All IBM:** A section for IBM-related news, including "IBMers establish themselves as authors for software handbook".
- IBM Global Services:** A section for global services, including "IGS leads all other outsourcing vendors in North America".
- Assets and expenses:** A section for assets and expenses, including a pie chart titled "My monthly IT expense breakdown" showing the following data:

Category	Percentage
Notes Client	59%
Telephony	32%
Remote Access	7%
Other I/T	3%
VM Expense	0.02%
- Manager resources:** A section for manager resources, including "Work With Your Employees" and "Manager Quick Links".
- Act Now:** A section for urgent actions, including "Base Pay Planning submissions due May 15" and "Review all of your employees IDPs by June 1".

Feed Reader Portlet

- Supplied out-of-the-box
- Supports ATOM and RSS

Feed Reader Portlet

Feed settings

Feed URL:

Feed name:

Feed description:

Number of feed entries per page:

- Show feed sidebar
- Show author of feed entries
- Show date of feed entries
- Show headlines only (no images)


Feed Reader Portlet

Sports

From Yahoo

[AL wins All-Star game 4-3 in 15 innings \(AP\)](#)

Wednesday, July 16, 2008 5:37:34 AM



J.D. Drew wondered whether he'd be pitching soon. Clint Hurdle sounded out David Wright about his mound prowess. It was the 15th inning of the final All-Star game at Yankee Stadium, and the bullpens were empty. As goodbyes go, this was a long, long one. "It was just crazy how it seemed like it lasted forever," Texas second baseman Ian Kinsler said.

[Refresh Feed settings](#) [Provide Private Credentials](#)

About this feed

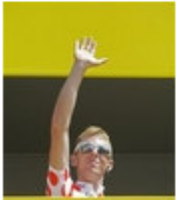
Name: Sports

Description: From Yahoo

URL: <http://sports.yahoo.com/t>

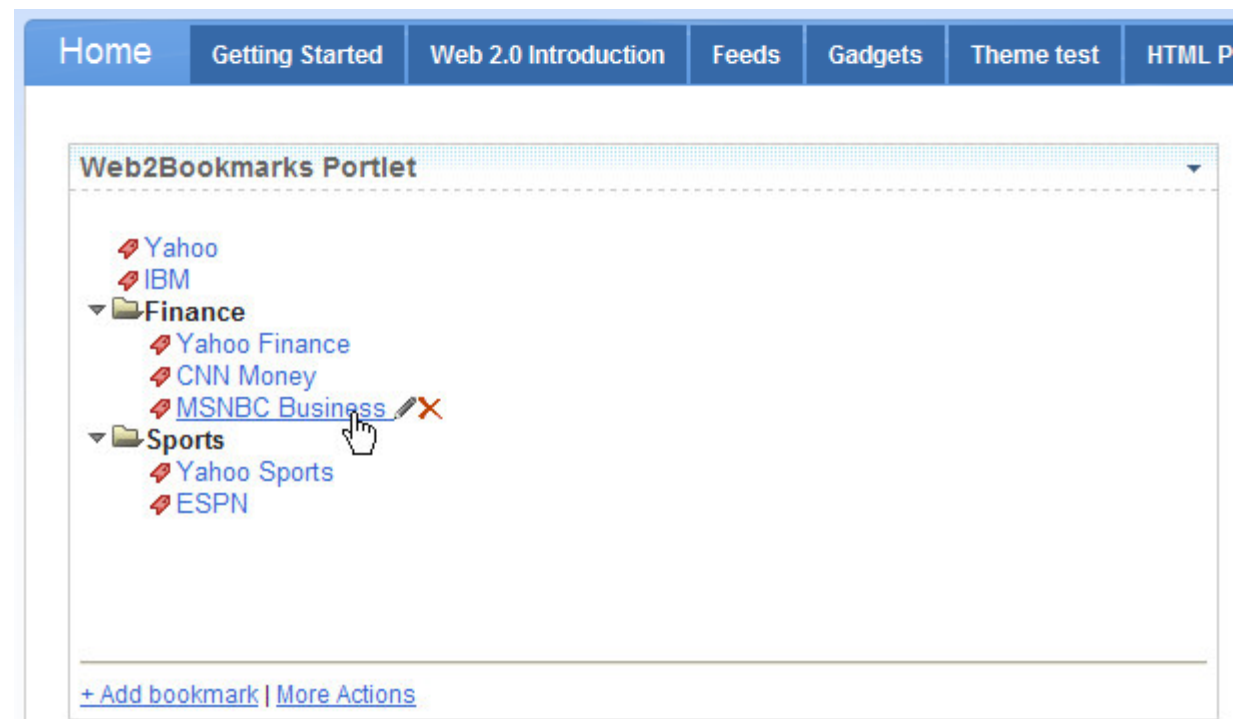
[Doping plagues Tour de France again \(AP\)](#)

Wednesday, July 16, 2008 8:30:28 AM



Links and Bookmarks

- New Web 2.0 Bookmarks Portlet
- Supplied out-of-the-box
- Web 2.0 user interface makes it fast and easy to use!
- Can bookmark external URLs and internal Portal pages



Google Gadgets

- Place any Google gadget on a page
- Download the IBM Portlet for Google Gadgets™ from the Portal catalog
- Seamless integration with thousands of web-based solutions

The screenshot shows a Yahoo! Sports article titled "The long goodbye: AL wins All-Star game 4-3 in 15" by Ronald Blum. An IBM Portlet for Google Gadgets is overlaid on the page, displaying a list of news items. The first item, "AL wins All-Star game 4-3 in 15 innings (AP)", is highlighted in yellow. A mouse cursor is pointing at this item. Below the list, a "view link" button is visible. The main article content is partially obscured by the portlet's overlay.

IBM Portlet for Google Gadgets

- AL wins All-Star game 4-3 in 15 innings (AP)
- Nevado tests positive for EPO at Tour (AP)
- R...
- H...
- F...
- D...
- B...
- A...
- Y...

view link »

IBM Portlet for Google Gadgets

Yahoo! | My Yahoo! | Mail | More

New User? Sign Up Sign In | He

YAHOO! SPORTS

Sports Search

Home NFL **MLB** NBA NHL College ▾ NASCAR Golf MMA Boxing Soccer Tennis Olympics Action Sp

MLB Home Scores & Schedule Standings Stats Teams ▾ Players ▾ Injuries Odds Video Rum

The long goodbye: AL wins All-Star game 4-3 in 15

By RONALD BLUM, AP Baseball Writer
1 hour, 14 minutes ago

NEW YORK (AP)—J.D. Drew wondered whether he'd be pitching soon. Clint Hurdle sounded out David Wright about his mound prowess.

It was the 15th inning of the final All-Star game at Yankee Stadium, and the bullpens were empty. As goodbyes go, this was a long, long one.

"It was iust crazy how it seemed like it lasted forever." Texas second baseman

Buzz Up Print

IBM Corporation

Web Application Integrator

- Centralizes access to external web applications within the enterprise
- Integration of web applications occurs by injecting Portal navigation into external web applications themselves
- No portlet development required
- Does NOT use an iFrame element
- Portal markup is “injected” into an external web application by adding an HTML <script> tag to the web app
- User believes he/she is still within the Portal environment
 - In reality, they are natively browsing the external web application
- The integrated web application can use any technology (e.g. .NET, Ruby on Rails™, PHP, PEARL, Domino®, J2EE, etc.)
- Download this portlet from IBM Portal catalog

Web Application Integrator

Three easy steps:

- 1) Create a standard Portal URL page, specifying the URL to the external web application
- 2) Use the new *WebAppIntegrator* portlet to generate an HTML `<script>` tag for your web application
- 3) Add the script tag to the header component of the web application. For some themes, the script tag must also be added to the footer component.

```
<!-- BEGIN PORTAL NAVIGATION INTEGRATION -->  
  
<script type="text/javascript"  
src="http://192.168.123.107:10040/wps/myportal/!ut/p/c5/04_SB8K8xLLM9MSSzPy8xBx9v_LU  
JMeCAs-  
8ktT0osSS_CJVA3QR_YJ0RUUA0g1fLw!!/?Portal_Page_ID=6_CGAH47L00073F02R4B955S1007">  
</script>  
  
<!-- END PORTAL NAVIGATION INTEGRATION -->
```

Web Application Integrator

- After “injection”, the web application works both inside and outside the Portal

Address Go Links




Welcome to the WebSphere Portal V6.1 POT Sample Application
 This is intended to be used as a sample java dynamic web application.

Current time is Wed Jul 16 14:35:57 EDT 2008
[page1.jsp](#)
[page2.jsp](#)

WebSphere Portal Home Administration App

Home Getting Started Web 2.0 Introduce

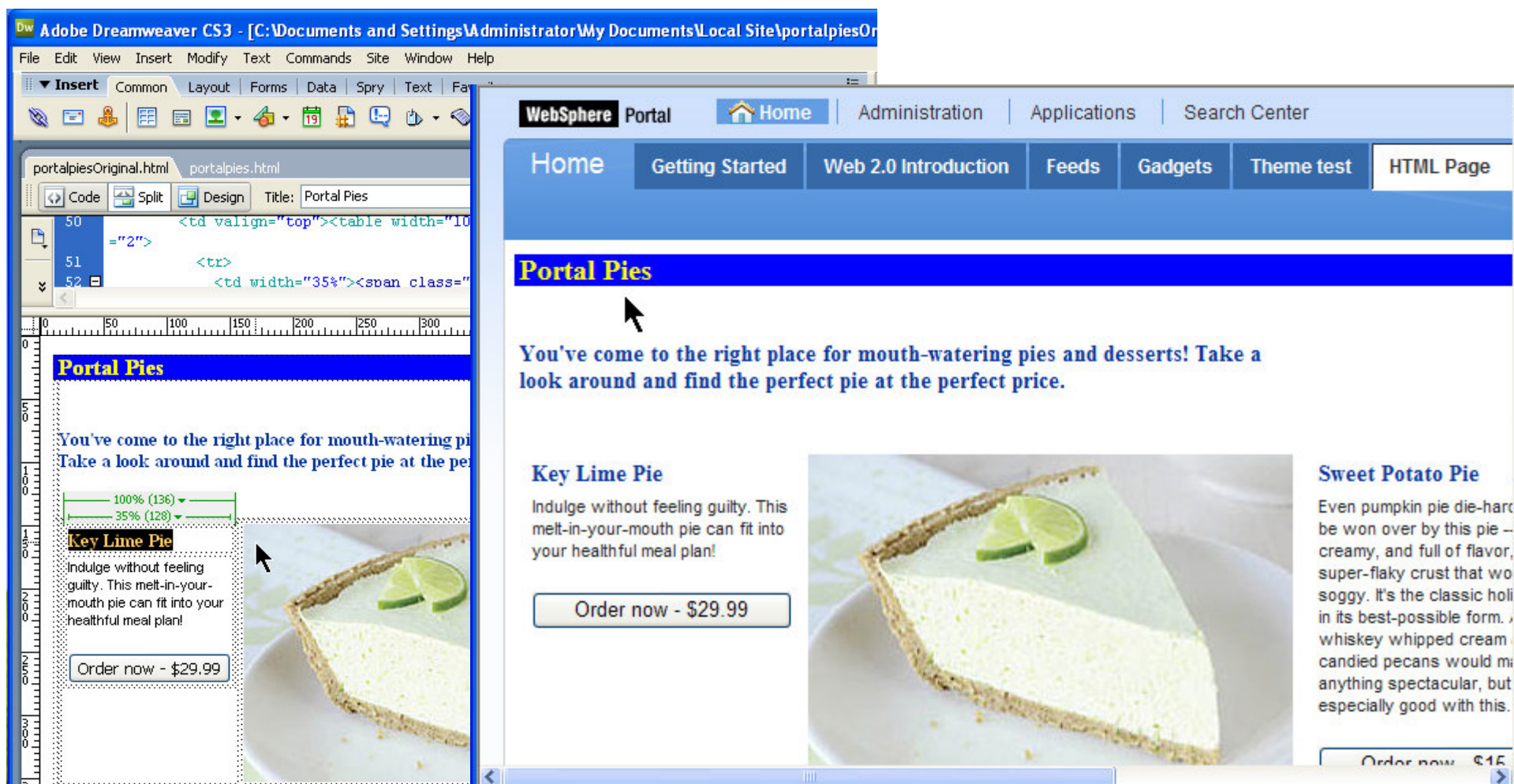


Welcome to the WebSphere Portal V6.1 POT Sample Web Application
 This is intended to be used as a sample java dynamic web application.

Current time is Wed Jul 16 14:35:21 EDT 2008
[page1.jsp](#)
[page2.jsp](#)

Static Web Page Integration

- Create in Adobe® Dreamweaver®
- View inside WebSphere Portal



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Why Leverage a Portal Framework for Mobile Solution Delivery?

To create mobile applications that:

- 1 **Integrate** with your back-end systems, including web content management
- 2 Are **personalized** to a user's role, preferences, and behavior
- 3 Support **end-user customization**
- 4 Are **secure**
- 5 Can be measured and optimized using **analytics**
- 6 **Can adapt** their presentation and functionality according to the device



One common framework for mobile & web applications

Websphere Portal Themes for Smartphones

Extend Portal web experience to mobile devices though the use of Portal themes for smartphones

- Optimizes look & feel for smaller screens (site branding, navigation, page layout)

- Optimizes page download size for mobile connections

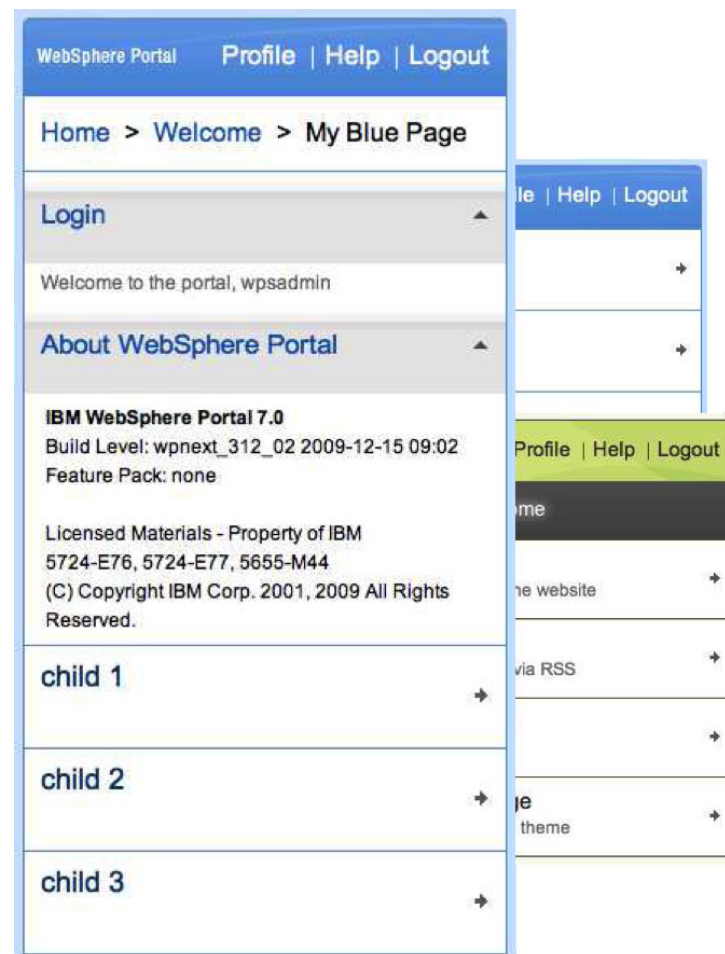
Create native-looking smartphone Portal themes using familiar technologies and skillsets (HTML, CSS, Javascript)

Two mobile theme options provided:

- Dedicated mobile themes can serve dedicated mobile pages and content
- Single theme can detect the device and serve mobile presentation or full site and content.

Sample themes can be downloaded on Portal Solutions catalog

<https://greenhouse.lotus.com/plugins/plugincatalog.nsf/assetDetails.xsp?action=editDocument&documentId=3148931F1C482700852576AC0050BD8C&Login>



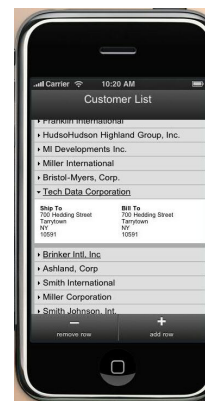
Mobile Portal Accelerator

WebSphere Portal extension that delivers online content and applications to virtually all mobile devices.

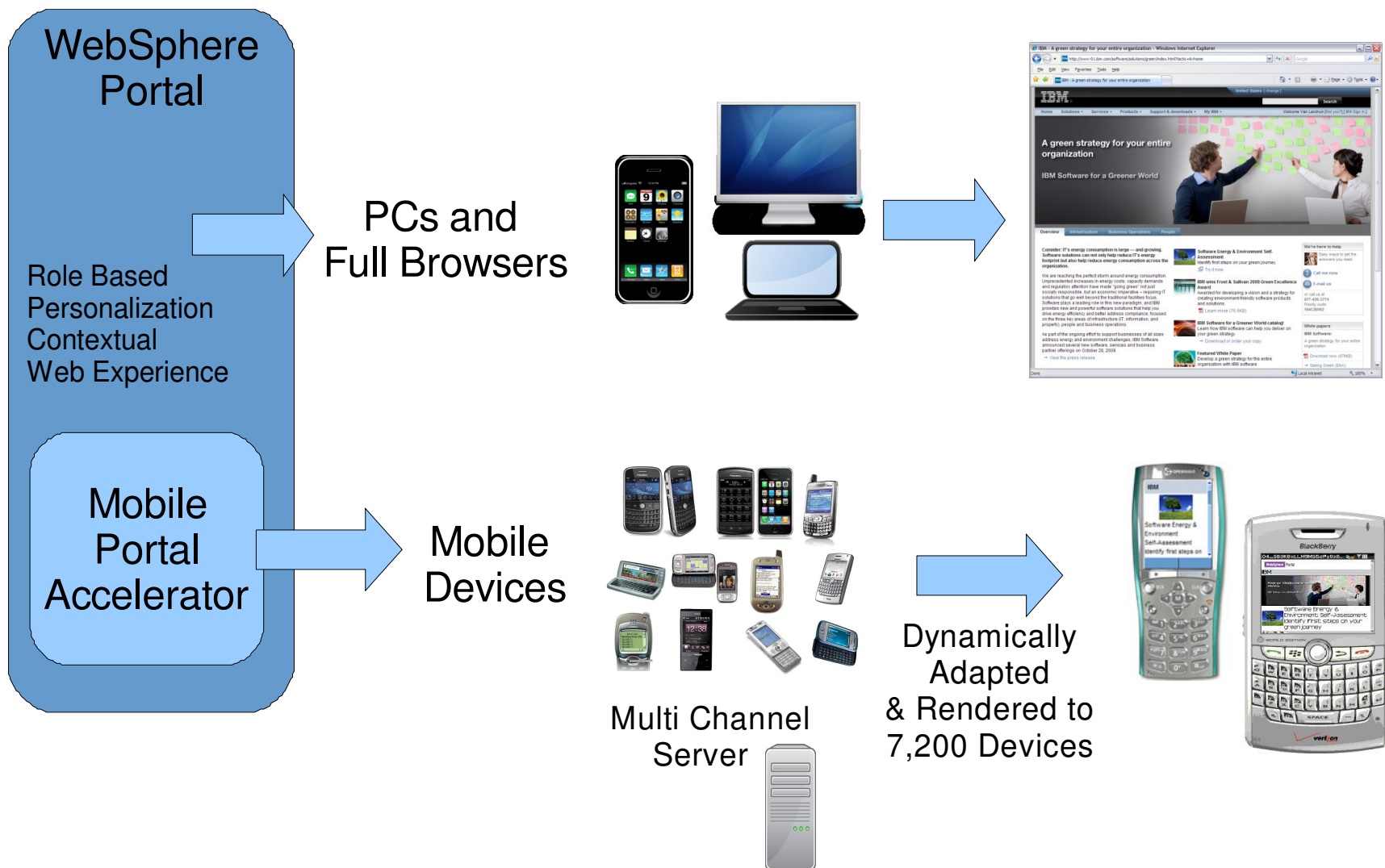
Adapt your content to over 7,200 mobile devices. MPA provides intelligent Multi-Channel Server capabilities that dynamically renders content to specific device characteristics and capabilities.

Speed your development with Mobile Portal Toolkit which enables both the development and testing of XDIME (XHTML with Device Independent Markup Extensions) portlets in IBM Rational Application Developer.

Keep pace with the latest mobile devices with IBM Mobile Portal Accelerator Device Update. Provides regular updates to mobile device definitions as they become available from device manufacturers.



Mobile Portal Accelerator - Mobile Multi-Channel Capabilities



Reference materials

- **WebSphere Portal Wiki**
 - <http://www-10.lotus.com/ldd/portalwiki.nsf>
- **Portal Zone on developerWorks**
 - <http://www-128.ibm.com/developerworks/websphere/zones/portal/>
- **Portal Business Solutions Catalog**
 - <http://catalog.lotus.com/wps/portal/portal>
- **WebSphere Portal Product Information**
 - <http://www-306.ibm.com/software/websphere/portal/>
- **WebSphere Portal Information Center**
 - <http://www.ibm.com/developerworks/websphere/zones/portal/proddoc.html>
- **Self-Help Central for Portal**
 - <http://www.ibm.com/support/docview.wss?rs=688&uid=swg21283691>
- **Migration Central for Portal and Web Content Management**
 - <http://www-1.ibm.com/support/docview.wss?rs=688&uid=swg21296071>
- **IBM Software Events**
 - <http://www.ibm.com/software/sw-events/>

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Questions
&
Answers