

IBM Workplace and WebSphere Portal

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Agenda

- Workplace and Portal
- WebSphere Portal
- Development Tools for IBM Workplace
- Summary





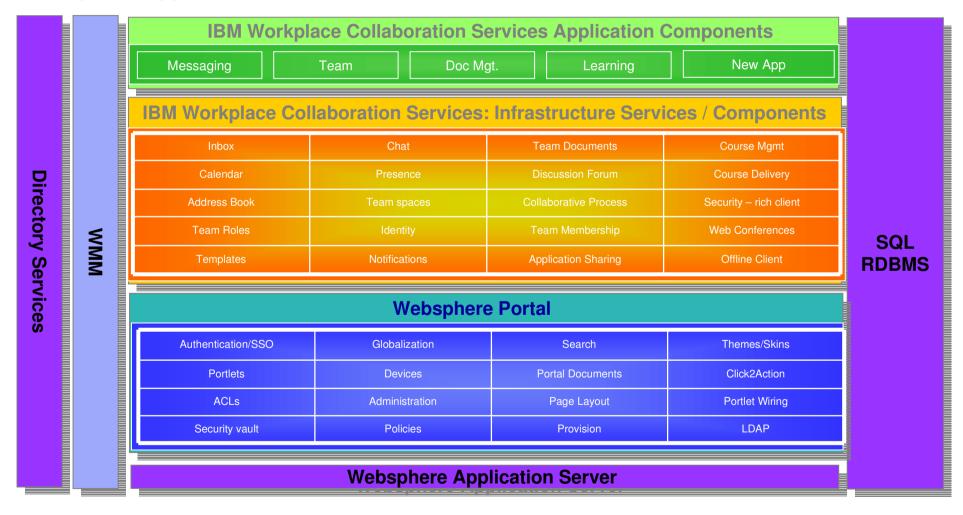
Workplace and Portal





Workplace Software Stack

Workplace builds on WebSphere Portal, which in turn is based on WebSphere Application Server



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BM Software Group



IBM Workplace is...

A family of products, solutions and technologies for transforming the way people work

Only Workplace provides:

Unified, consistent access to people, resources and tools needed, in the context of a user's role -- in order to make more informed decisions, faster

IBM Workplace family includes:

Portal technology

WebSphere Portal

Collaboration tools

Workplace Collaboration Services

Lotus Notes & Domino

Sametime

Tools & Technology

Workplace Templates, Workplace Designer Lotus Domino Designer

Workplace Managed Client

WebSphere Everyplace Deployment (WED)

Solutions

IBM Workplace for....Business Controls & Reporting, Branch Bank, etc...





Portal Technology Provides Key Integration Services

Access Based on "Who You Are"

Integration at the glass, common navigation

Portlet based user experience

User experience for service-orientedarchitectures (SOA)

Integration of infrastructure for B2E, B2B, B2C

Content, information & application aggregation

Domino, Microsoft Office, Web content, Custom applications, Host/Legacy applications, SAP, Siebel, PeopleSoft, Oracle, JD Edwards, etc...

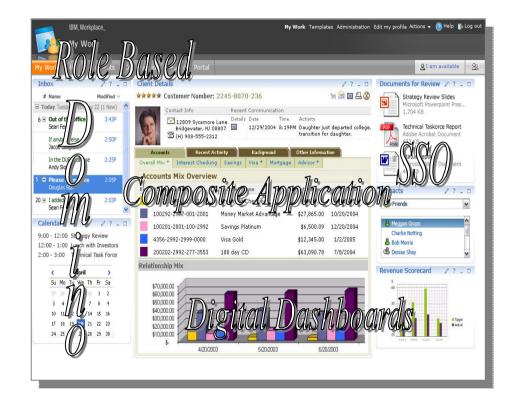
Self Service Model

Single Sign-on

Enables Collaboration in Context

Basis for creating new composite applications

Incorporate existing assets and create new ones





WebSphere Application Server

Deployment Manager, Node Agent, Clustering

Async Beans, Application Profiles, etc.

Web-based Administration, Web Services

EJB Container, Messaging

Web Container (Servlets, JSPs, XML)

Java Virtual Machine

- Provides standards-based environment for WebSphere Portal
 - Runtime environment through Java Virtual Machine
 - Data access and logic through Enterprise Java Beans and Messaging
 - User Interface components through Servlets and Java Server Pages
 - Communication to other applications and portals through Web Services



IBM Workplace Collaboration Services Extends Portal





WCS = Out-of-the-box Collaboration



Portal = Infrastructure

WCS is composed of a set of portal-based collaboration services delivered as pre-built portlets

Extensible: can be customized and plugged-in into composite applications

Tools for extending and integrating with WCS & Portal:

- WCS Templates & Lists
- IBM Workplace Designer
- Rational Application Developer (RAD)

Common programming model in next releases

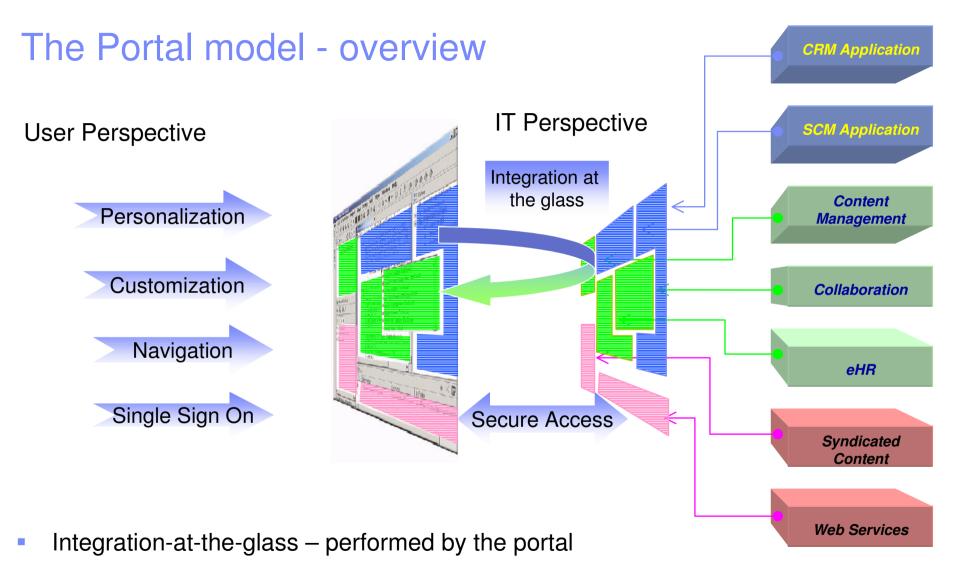




WebSphere Portal



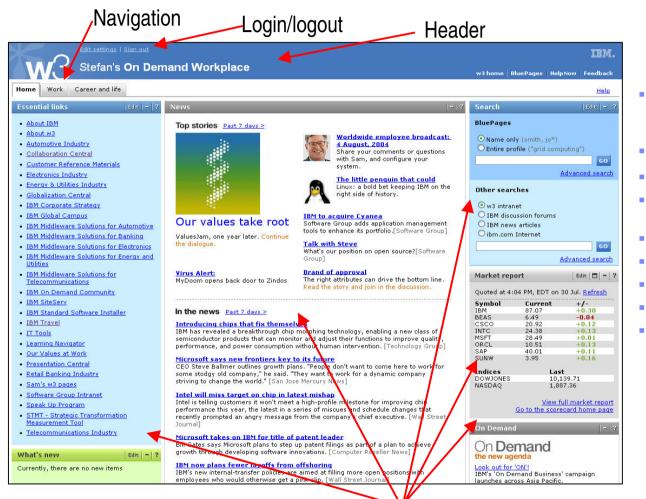




Components may or may not work on the same backends



Portal model – portal page



Portlets

- Combines application user interfaces together into one unified presentation
- User registration
- Authentication and Authorization
- Pluggable portal components: Portlets
- Personalization based on profiles
- Customization of pages by users
- Search
- Content Management
- Administrators can either lock or open up areas of the page for end users to customize



Themes and Skins

- Portal user interfaces are rebrandable by design: *Themes* and *Skins*
- Themes and skins control every element of how the page looks: colors, fonts, spacing, images, navigation, rows, columns, and portlets
- Themes and skins can be applied to any group of pages, any time
- Themes do most of the hard work for cross-browser support and accessibility e.g. through braille readers



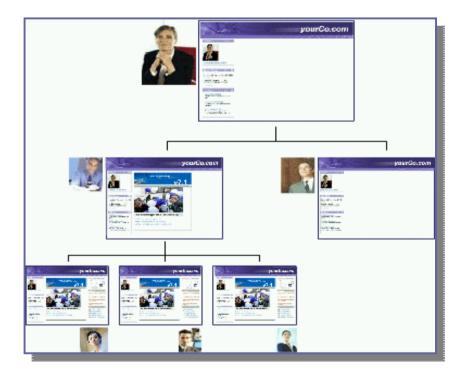
→ You can fully customize the entire appearance and look and feel of the portal to your specific needs using custom themes and skins





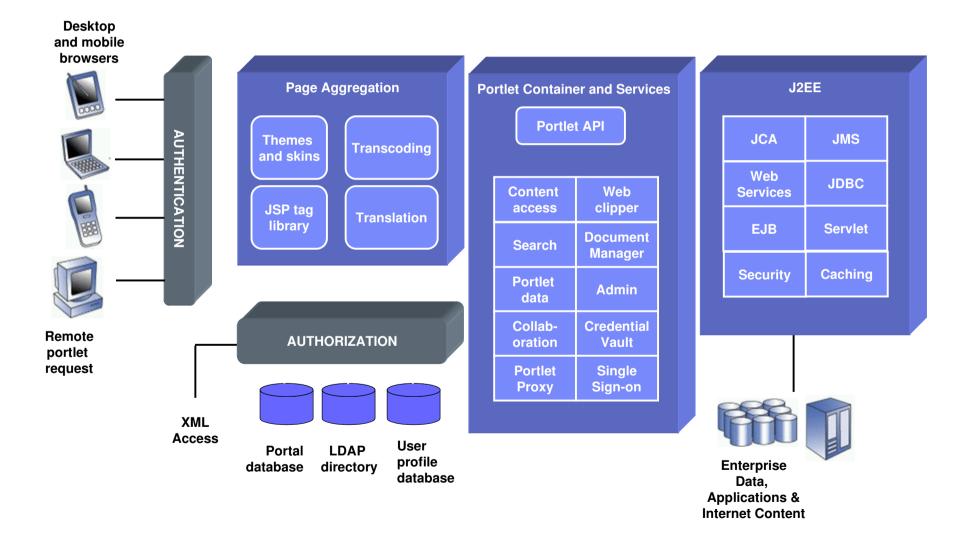
Cascading Page Definitions

- Different administrators control different areas of the page
 - They can lock areas to prevent others from making changes
 - They can also delegate responsibility for certain areas to others
- The end user sees the aggregated result
- Future changes are propagated
- Helps organizations enforce policies and consistency, and create region specific portals with some centrally managed content



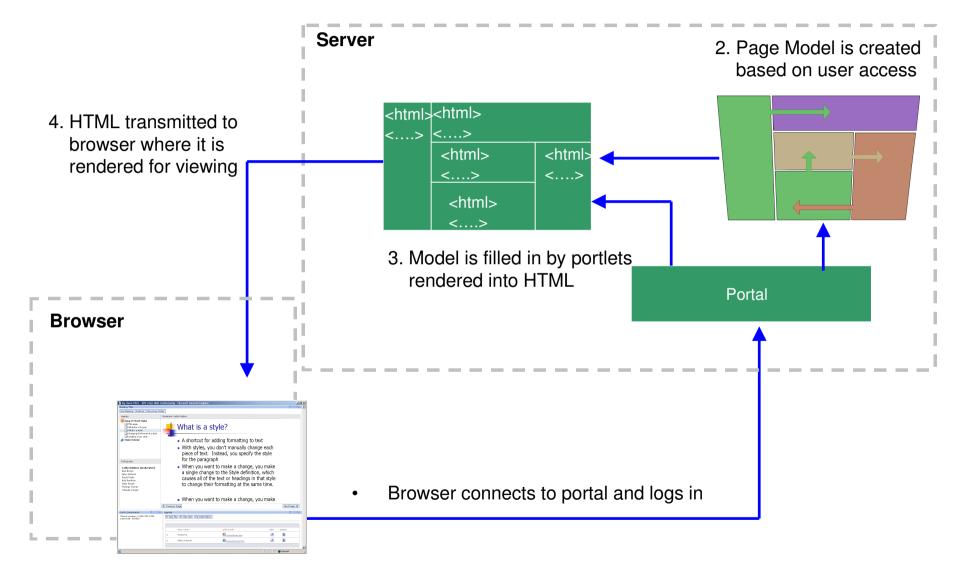


WebSphere Portal Server – High-level Architecture



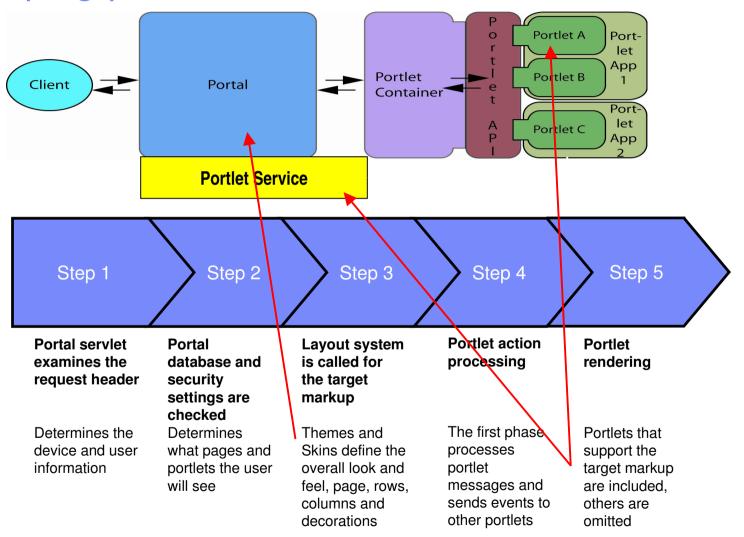


Building a Page –HTML Browser





Portal plug-points





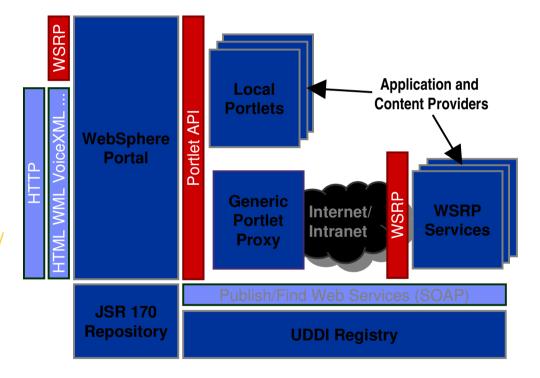


Key Portal Standards

The Java Portlet API (JSR 168) defines the API for local portlets, Spec Leads: IBM and Sun see http://jcp.org/jsr/detail/168.jsp

WSRP (Web Services for Remote Portlets) deals with visual web services in portals, IBM provides Chairman and Spec Editor, for more information see http://oasis-open.org/committees/wsrp/

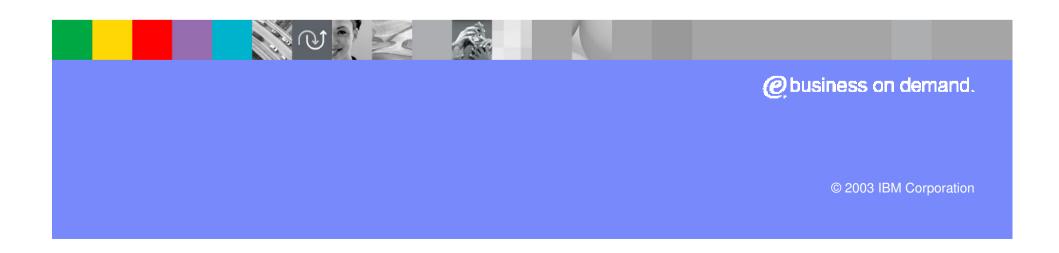
JSR 170 defines a common interface for access to content management systems.





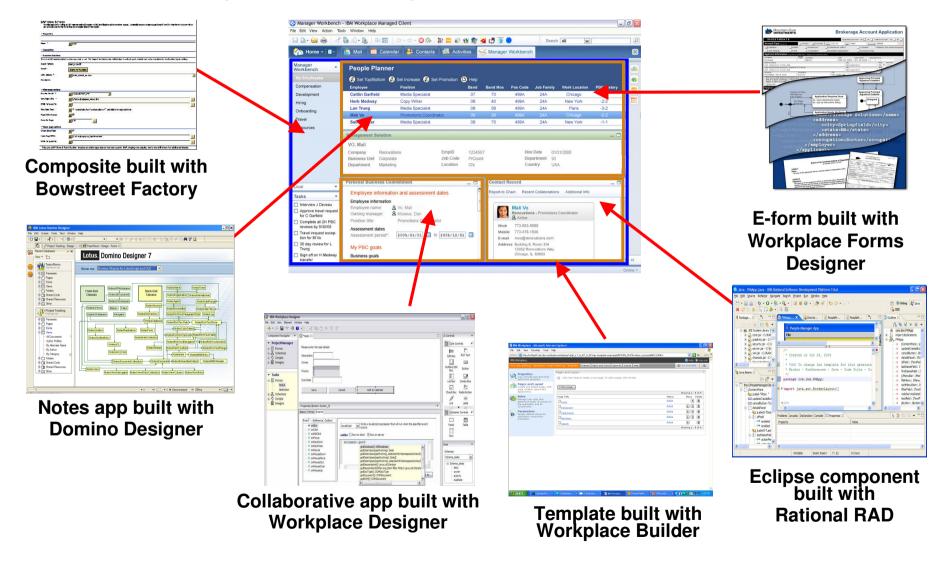


Development Tools for IBM Workplace



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Tools for Workplace Development





Workplace Builder

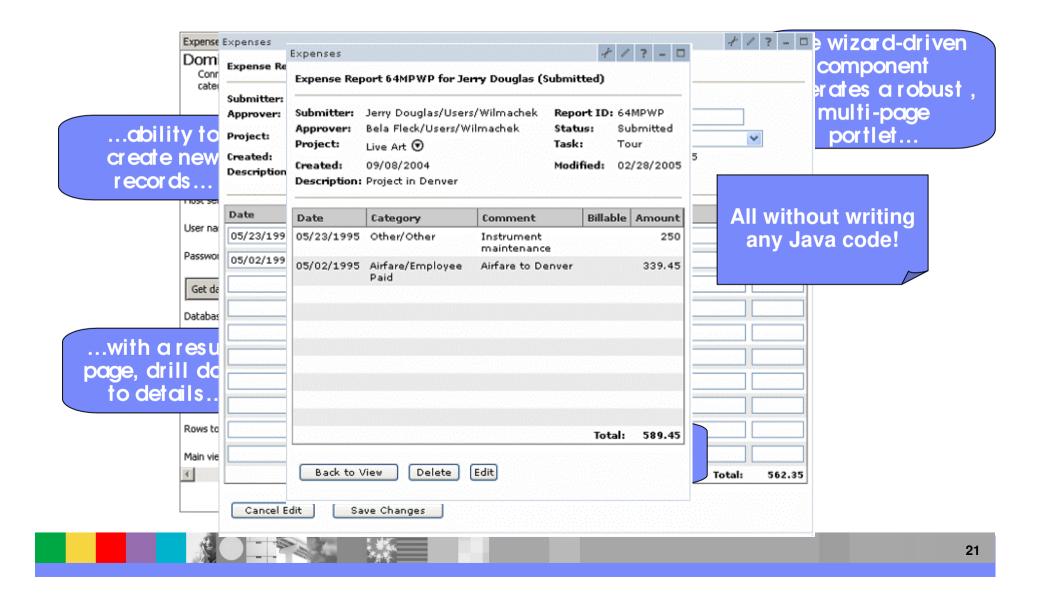
- Customize and create new Workplaces, templates or forms for specific business purposes
- Self-service tool designed for business users to:
 - easily work with the Workplace templates included with a specific product
 - assign access controls
 - create new forms
 - ...without having to rely on IT

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Bowstreet Portlet Factory for WebSphere





Workplace Designer

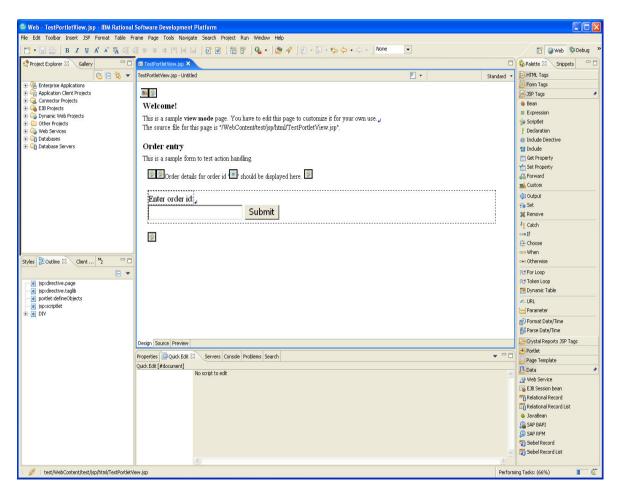
- Easy-to-use:
 - Visual development of applications and components
 - Forms, views, scripts, etc.
 - Components that Builder can assemble
- Provide path for Domino Designer and Visual Basic skilled developers
- Provide flexible path to Rational tools
 - Users can move easily to Rational tools from Designer, if desired
- Create components to render to multiple targets
 - Browser or Workplace Client

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Rational Application Developer

- Current version 6.0.1 with support for portal application development
 - Struts and JSF Portlet creation
 - Support of the JWL JSF widget library with client side capabilities
 - Support major portlet programming model - Clickto-Action, People Awareness, Portlet Messaging
 - Standard Support for Portlet
 JSR 168 Portlet APIs
 - Portal page and site design
 - Business portlet creation
 - ...and more!





Summary

- IBM Workplace Technology
 - IBM WebSphere Application Server provides a scalable J2EE environment for use by Portal
 - WebSphere Portal provides the runtime environment for IBM Workplace
 - IBM Workplace provides applications and rich collaborative APIs to end users and programmers
- WebSphere Portal
 - WebSphere Portal offers application aggregation and a customized user experience
 - > The look and feel of portal page can be customized via Themes and Skins
 - > The content of portal pages can be customized via portlets.
- Development Tools
 - > There is a wide assortment of development tools for IBM Workplace products
 - Workplace Builder allows business users to create applications through visual programming
 - Workplace Designer supports scripting and visual programming to create components
 - Rational Application Designer provides support for portlet programming and more









- Please use this information to contact me:
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More Information

Useful Links and Resources

www.software.ibm.com/websphere	WebSphere Portal product informationLatest Info CenterWhite Papers
www.redbooks.ibm.com	 In-depth, how-to books
www7b.software.ibm.com/wsdd	WebSphere Developer's DomainBest practices for WebSphere applications
www.ibm.com/developerworks	 Technical information written by developers for developers Over 80 technical articles about portal alone

- www.sys-con.com/websphere
- Monthly technical journal about WebSphere

