# Create An Exceptional Multi-Channel Web Experience Using IBM Rational Application Developer for WebSphere Portal

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# Agenda

Exceptional Web Experience Overview

Rational Application Developer Overview

Rational Application Developer Portal Tool Kit Overview

Demonstration of Rational Application Developer Portal Tool Kit

Question and Answer Session

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# An Exceptional Web Experience...

*Generates strong customer loyalty*

*Has a wow factor*

*Is adaptable to changing markets*

*First Impression of your business lends credibility*

*All built on a technology foundation you can trust*

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# Our customers are telling us they need to...

Build brand, revenue, and customer satisfaction using online properties

Drive higher value customer interactions via lower cost channels

Increase business responsiveness by consolidating sites

IT business analyst

IT Director of web architecture

Director of online marketing

VP of online sales

VP of customer support

Creative agency

Public Information Officer (Government)

VP of Direct-to-consumer Marketing (Insurance)

Chief Medical Informatics Officer (Healthcare)

# IBM Project Northstar
## Leading the way in exceptional customer experiences

*Vision* about the "art of the possible" for engaging Customers on the web.

*Multi-year* IBM strategy to deliver the capabilities for our customer to excel at customer-facing experiences.
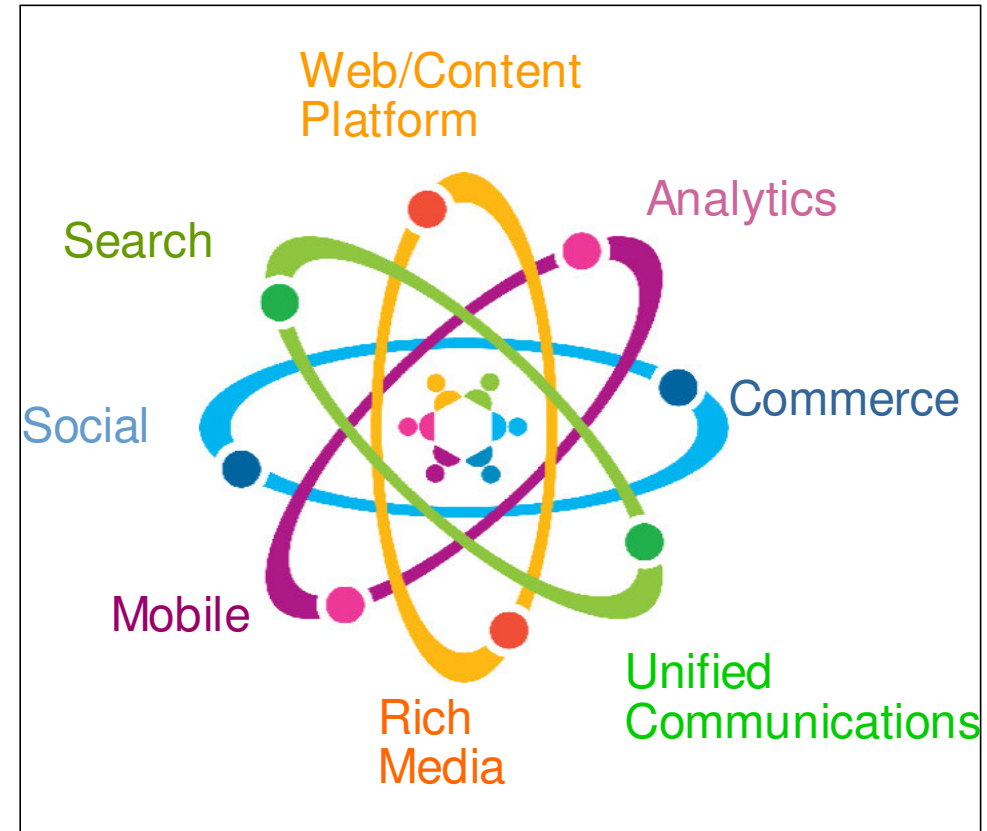
*Context is key.* The best Web experiences make all users feel like the experience was custom fit for them – based upon their preferences, device, location, social networks, and behaviors.

*Social is everywhere and everywhere is social*. Organizations hoping to meaningfully interact with, and listen to, customers must transform their online experience beyond one-way information sharing or "brochure sites". A more socially-infused experience is now expected, one that supports true dialogue with, and between, customers.

*Web Experiences* can be both visually pleasing and flexible. You don't need to sacrifice scalability, flexibility, and manageability to create a graphical, persuasive, and responsive web experience.

*Integration must be easy*. To create a truly interactive, context-aware Web experience, you must be able to easily leverage and extend existing data sources like CRM systems, social media sites, and back-end applications, as well as other product or cloud-based service you acquire in the future.

*Proper measurement can lead to co*mpetitive advantage. At a tactical level, analytics are key to determining if you are meeting your business objectives and properly engaging customers. At a more strategic level, analytics are also fundamental to gathering enough information about your customers to truly understand them, making it possible to deliver user-optimized Web experiences that deliver more to your bottom line.

Web/Content Platform

Analytics

Search

Social

Commerce

Mobile

Unified Communications

Rich Media

*People are at the center of an exceptional experience; Capabilities are employed as necessary to help achieve experiences that meet/exceed the expectations of the intended user(s)*

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# WebSphere Portal: Key value propositions and capabilities

**User Expectation & Appeal**

**Integration of Web 2.0 features** for a richer, more responsive, and modern user interface

Full **personalization of user experience**

Recommendation engine for **cross-selling and customer monitoring**

**Multi language**, disability access

**Universal access** (PCs, Mobile phones, TV) for new entry points to service and access

**Speed to Market & Reduced Costs**

Component based model for **faster development, re-use, and cost effective deployment**

**Parallel development** of service and application components

Shared 'plumbing' code so more time **spend creating business function not reinventing**

**Powerful customization** capabilities to change look & feel of website **without coding**

**Flexibility & Agility**

Flexible **integration of 3rd party content and applications**

Give **LOB and business users control over their website content and processes** while maintaining IT control over standards and best practices

**Separation of content from presentation**

Increased **content re-use and reconfiguration** vs hard coding

**Easy integration** of web content management and On-line Forms capabilities

Support for **leading portal standards** to maximize **reuse and investment protection**

**Performance & Scalability**

A set of **best practices on building web platforms**, developed and **refined over 6 years** by industry leading portal platform vendor

Proven to **scale for large numbers** of customers and users

**Extendable** to other enterprise portal environments

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# Business challenges to the effective delivery of software
## *A history of cost overruns, schedule slips and quality issues*

We need to deliver new and custom applications faster

Cost of development is rising but budgets are declining

Too many re-writes and failed launches

Overwhelming application complexity

¨ime wasted integrating piecemeal, multi-vendor solutions

*Too many problems late in the cycle getting to production*

Hard to stay current on new technologies.

IBM

# Rational Application Developer for WebSphere Software
## *Streamlined development for WebSphere Application Server and WebSphere Portal*

*Optimized for WebSphere* — Complete Support

Leverage your investment with the award winning tools built for WebSphere runtime

*Increase Productivity* — Speed & Agility

Eliminate mundane tasks to allow developers to be innovative
Shorten the learning curve

*Improve Quality* — High Quality

Find and fix problems early in the development cycle

*Built on Eclipse* — Extensibility

Provide unique capability on top of a flexible and extensible platform

*Mission Critical Ready* — Reliability

Award winning! – 2009 Evans Data Users Choice: Software Development
24 X 7 / 5 + 3 years of support

# *Customers use RAD to build Enterprise Java IT applications*

**1st Tier**
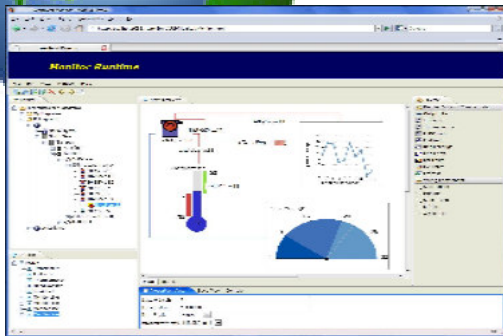
**2nd Tier**

**3rd Tier**

Web Clients

JavaScript

JSF

Portal Client

Rich Java GUI Client
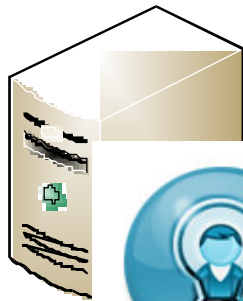
REST style Services

Web Services

SCA

EJB
JPA
POJO

**WebSphere Portal**

InfoSphere MashupHub

Tomcat

JBoss

IBM CICS Transaction Server

IBM InfoSphere DB2

Oracle

IBM InfoSphere IMS

SAP PeopleSoft

...

DB2

IMS

**12**

# RAD accelerates SOA, Java EE, Web 2.0 and Portal development

**Evans Data IDE User Choice Award**

Evans Data Corporation EDC
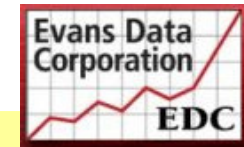
## Web 2.0

Extend SOA and Java EE assets to the glass via dynamic, rich JSF and DOJO applications

## Team Collaboration

Rational Team Concert: Collaborate, Problem Determination

## SOA

Assemble Web services and SCA components into heterogeneous business applications

*Quick Fix*

RAD

*Visualize*

*Validate*

*Analyze*

*Refactor*

*Deploy*

*Annotate*

*Test*

Portal

*Debug*

*Refine*

## Java EE 6 and OSGi

Develop, test and componentize Java EE 6 applications with annotation based programming

## Smart Phone Applications

Build and test smart phone applications

www.blackberry.com/developers/ibmrad

## Portal

Visually design portal sites and portlets for WebSphere Portal Server

Apache ARIES

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# *Increase Productivity*
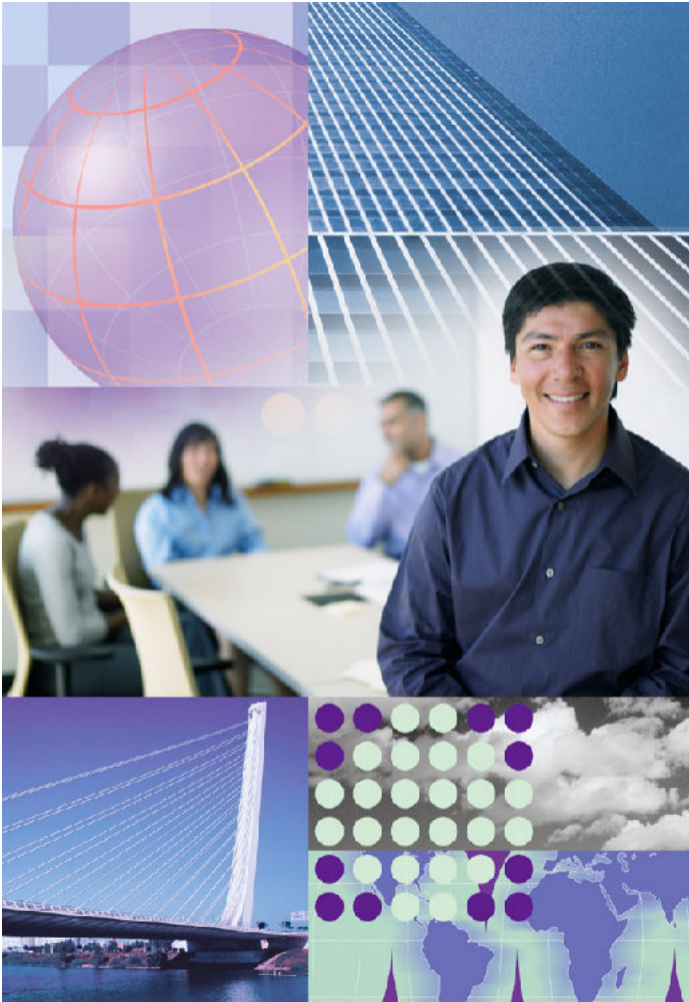
Eliminating mundane tasks through wizards, visual development, and editors that provide assistance as you develop

- Suggest ways to complete the code you're writing, look up APIs for what you've typed, validate your code as you type, suggest solutions to errors in the code

Improve application understanding through Code Visualization.

- Help resolve the: "I just inherited this code, and I have no idea what it does"

Support developers adopting agile and iterative development styles

- Design, code and test incremental parts of the application.
- Help manage changes you need to make.

Make new technologies easier to learn, and faster to implement, with less bugs.

# *RAD Portal Toolkit V8.0.x: At a glance*

Support for WebSphere Portal V 7

    CSA2 or pagebuilder theme support

Developer Experience Enhancements

PTK Usability Improvements

    Portal run-time segregation for WAS/WID

JSF Best Practices & Performance study

JSF 1.2 support

JPA enabled portlets

JAX-WS for Portal V7

Eclipse 3.6
- Upgrade in place
- Clean Install

Additional Enhancements to PTK Web 2.0 Features

Cloud support

Multi-channel device development

PTK - Portal Dojo Library (dijit support)
- Easily build compelling, highly interactive portlets
- Create client-side charts and graphics

PTK - iWidget Support (v1.1, v2.0)
- Creation wizard
- Consume iWidgets and static pages in portal
- Publish iWidgets and Pages to Portal
- Test using Mashup enabler v2.0

PTK – Portal Site Designer Tool
- Manage layout and content of your Portal site from within RAD
- Faster than ever preview of Portlets and iWidgets

# Optional and Flexible Installation of Portal Stubs

```
Features
  ☐ ☑ 📁 Portlet and Portal development tools
      ☐ ☑ 📁 WebSphere® Portal Server, version 6.1
          ☑ WebSphere® Portal Server, version 6.1 development tools
          ☐ Tools for developing applications without a local server installation
      ☐ ☑ 📁 WebSphere® Portal Server, version 6.1 on WebSphere Application Server, version 7.0
          ☑ WebSphere® Portal Server, version 6.1 on WebSphere Application Server, version 7.0 development tools
          ☐ Tools for developing applications without a local server installation
      ☐ ☑ 📁 WebSphere® Portal Server, version 7.0
          ☑ WebSphere® Portal Server, version 7.0 development tools
          ☐ Tools for developing applications without a local server installation
  ☐ IBM Workload Deployer development tools
  ☐ XML development tools
```

Install only the Portal version that's required;

No need to install Portal Stub if Portal server is installed on the local machine

**Advantage**: reduced hard disk footprint **(by ~38%)**

Ability to shell share with other Eclipse based products which helps developers manage the life cycle of their applications on their desktop

Download & footprint improvements for the WebSphere test environment

Enterprise install capabilities for simple maintenance and provisioning of your own standardized install configurations. Create response files for what install configuration you need.

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# *Building Skills Quickly – Wide Range of Help*
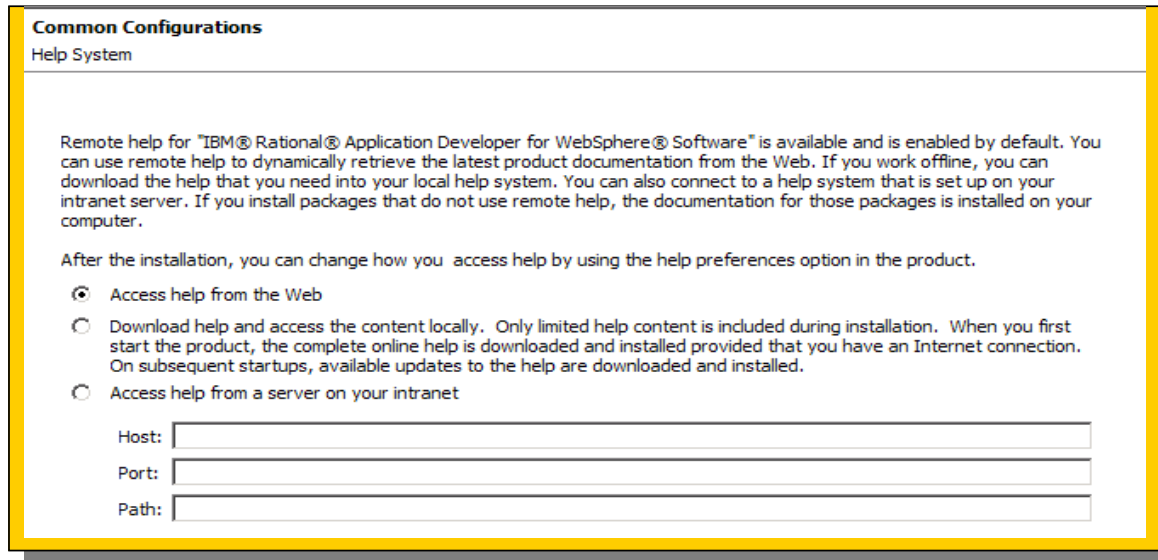


Various install options to manage your desktop configuration better

Can be installed on a Enterprise wide common infrastructure

**Advantage**:

> Available on internet – regular updates

> And even more reduced hard disk footprint

Tutorials

> Watch & Learn

> Do & Learn

Samples

> Application Samples

> Technology Samples

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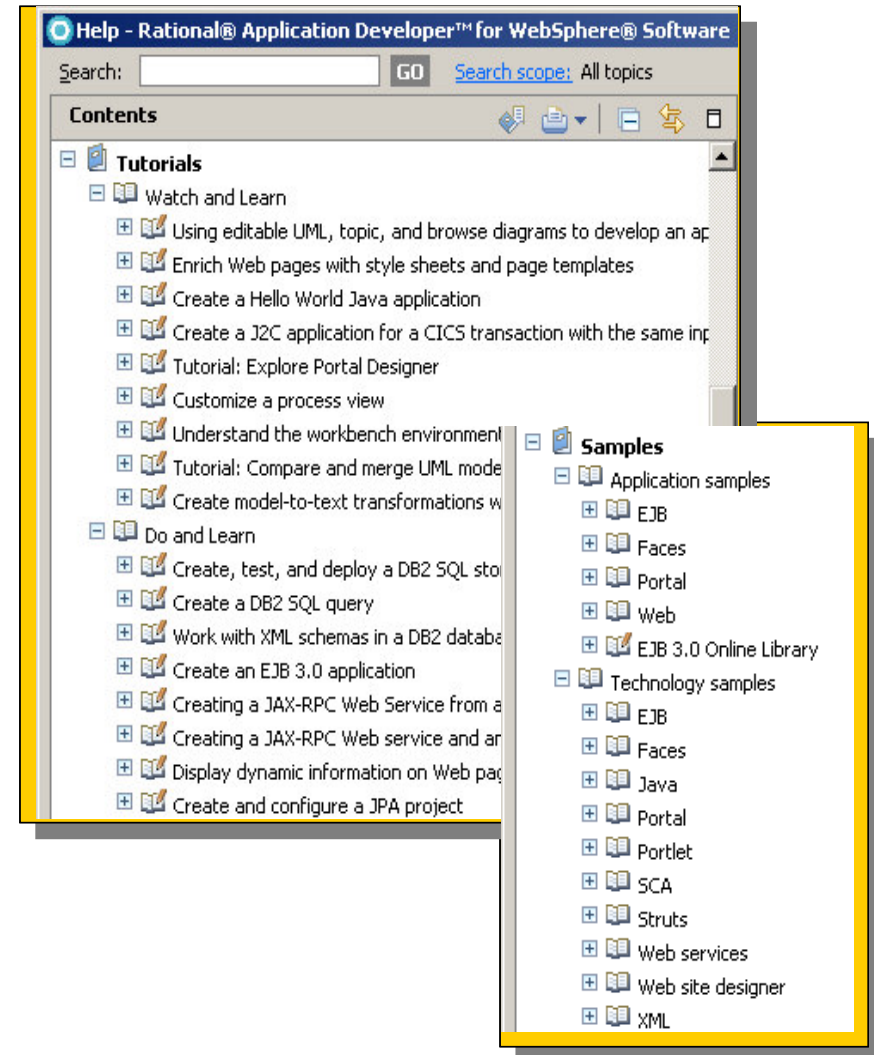
# Portal Toolkit: an end-to-end Integrated Development Environment



**Explore**

**Implement**

**Manage**

**Package**

**Run**

**Debug**

**Create**

**Configure**

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# *WebSphere Portal Server 7 Support*

WP 7 Server Support

  Updated Wizard Steps

  Ability to test connection with credentials

  Updates to Server configuration editor to help
      manage deployment option local to Rational
      Application Developer

      Portlet Settings

      Publishing options

WP V7 Stubs Support

  contain all jars necessary for compilation of a
      JSR286, JAX-WS, and other portal
      features portal/portlet project

Workspace migration from Rational Application
      Developer v6.1, v7 and v7.5.x to v8

Incremental publish saves deployment time by an
      average of 80%

Integrated debugging, menu items for admin
      console, ability to launch WSADMIN, application
      client launcher

**New Server** _ □ ×

**Define a New Server**
Choose the type of server to create

Download additional server adapters

Select the server type:

type filter text

WebSphere Application Server v6.1
WebSphere Application Server v7.0
WebSphere Application Server v8.0 Beta
WebSphere Portal v6.1 Server
WebSphere Portal v6.1 Server on WAS 7
WebSphere Portal v7.0 Server
JBoss

WebSphere Portal v7.0 Server

Server's host name:         localhost

Server name:            WebSphere Portal v7.0 Server at localhost

Server runtime environment:  Create a new runtime environment ▼ Add...

Configure runtime environments...

?         < Back    Next >    Finish    Cancel

# WebSphere Portal 7.0 and Client Side Aggregation 2.0 Support

RAD 8.0.1 supports WebSphere Portal 7.0*

- as a new target runtime
- Full feature support including CSA 2.0
- Portlet and iWidgets can now be placed on same portal page
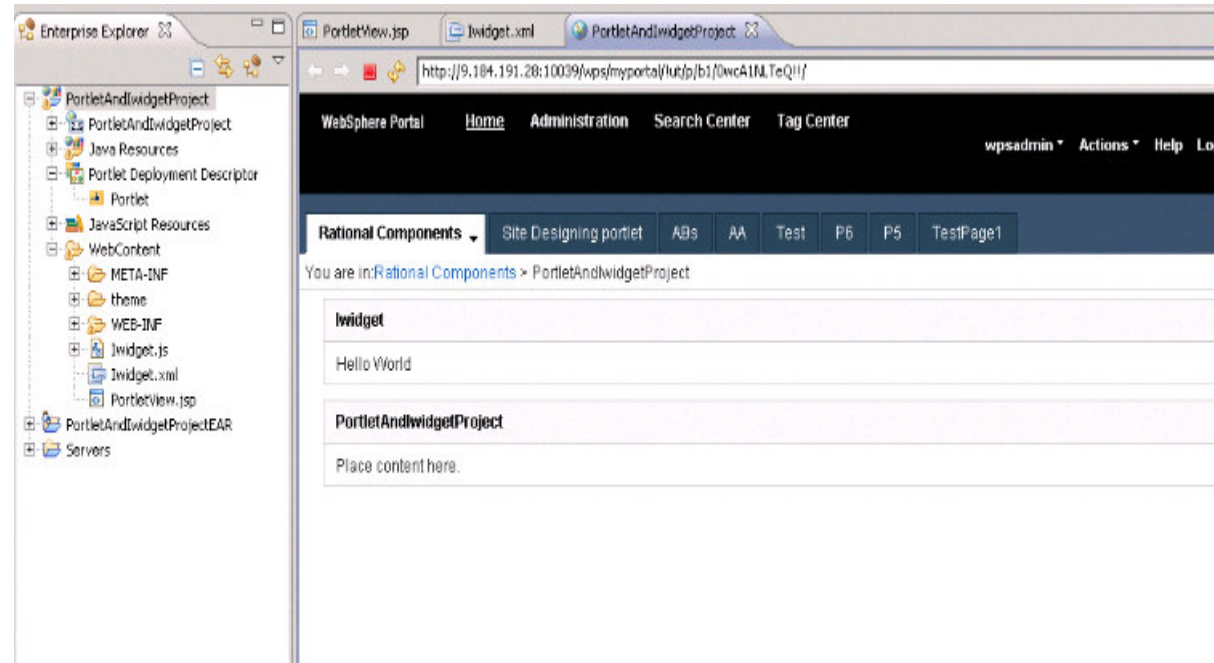
*\* RAD 8.0 supports WebSphere Portal Beta which was publically available at RAD 8.0 eGA*

# *WebSphere Test Environment support*

**Publishing to WebSphere Portal**

Support for exporting and publishing to WebSphere Portal

Support for hot deploy

Ability for WebSphere Portal to recognize a change to the archive file and automatically update the server

**Server Tuning Options**

Be aware of the different server options

Can also run the server on a different machine



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# WebSphere Application Server vNext support

WAS vNext Server Support

    Updated Wizard Steps

    Ability to test connection with credentials

    Updates to Server configuration editor to help manage deployment option local to Rational Application Developer

        Portlet Settings

        Publishing options

Workspace migration from Rational Application Developer v6.1, v7 and v7.5.x to v8

Incremental publish saves deployment time by an average of 80%

Integrated debugging, menu items for admin console, ability launch WSADMIN, application client launcher

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# Enhanced Performance Optimization for Development

`ConfigEngine.bat enable-develop-mode-startup-performance`

For development purpose

Reduces portal start up time

JVM is optimized for development

One click

   Activation

   Deactivation

No need to remember various portal config params

Less chance of human error



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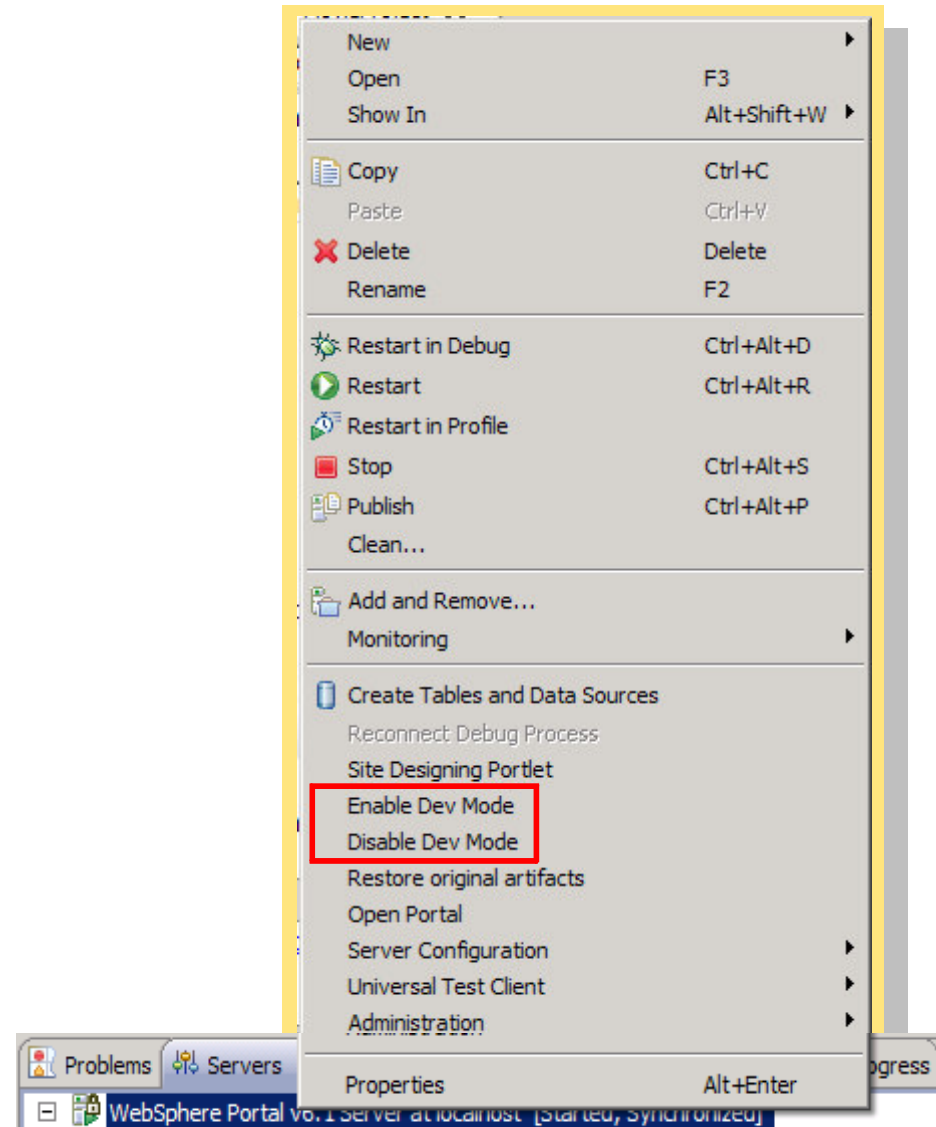
# Cloud Computing Support

*Reduced Cost*; self service provisioning

*On Demand Provisioning*; accelerated development

*Reduced Storage*; on local infrastructure

*Highly Automated*; centrally managed

*Ready to use*; no need for installation

In built support of IBM Smart Cloud

Directly publish to a WebSphere Portal instance hosted on cloud

**IBM Smart Business**

## Development & Test

IBM offers choices to deploy workloads that matter to you for greater efficiency, productivity and control.



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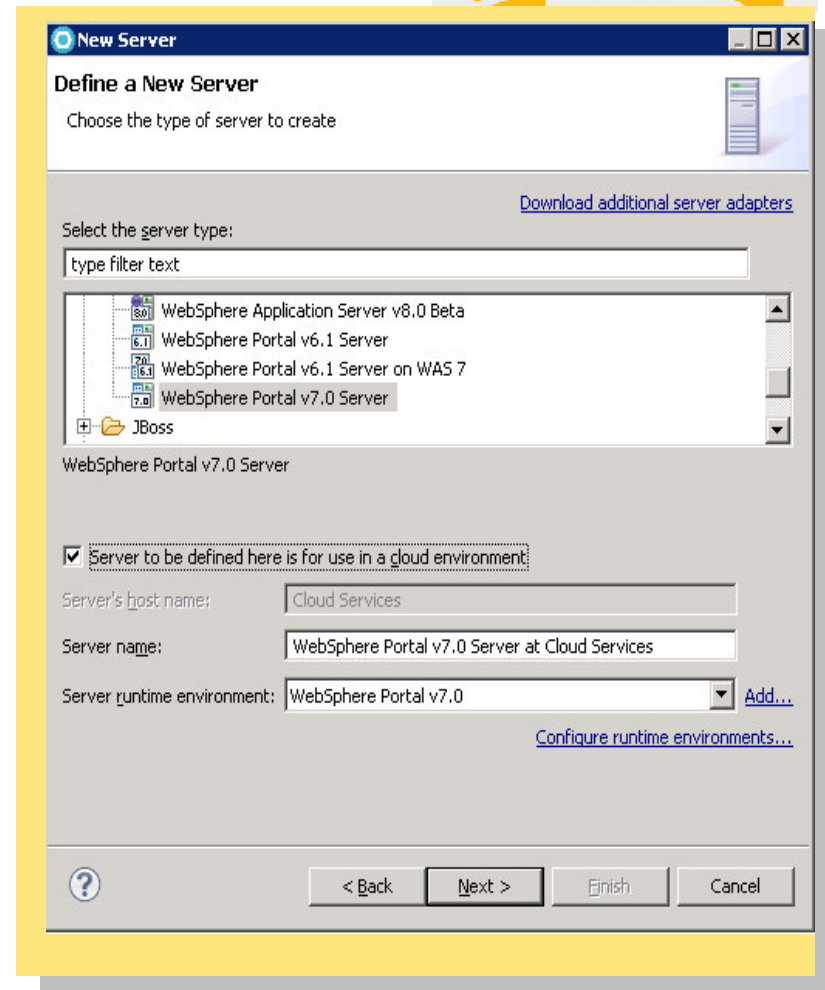
# *Multi-channel device development*

Enhanced portlet project creation wizard, that allows device support

Direct publishing on portal, that can be tested on smart phone device simulator as well

Developers can leverage RAD tools to create JEE based web apps, and target them for different devices





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# Active Site Analytics



Markup is generated for every asa enabled screen without explicitly specifying what the name of the tag and value of the tag is.

Select the Active site analytics checkbox to enable ASA support for this project



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# Active Site Analytics  - modification to the resource bundle and portlet JSP

ASA Portlet Screen metadata is added to every auto generated portlet modes jsp if ASA is enabled for the project.

Bundle lookup code is auto generated to read the JSP title from the resource bundles depending on locale.

The jsp filenames are used as the default values for ASA Screen title tags.

Unique ASA Screen ID asa.portlet.screen.id is auto-generated by tooling for every auto generated portlet modes jsp.

```
# Default Resource Bundle
#
# filename: ShoppingCartPortletResource.properties
# Portlet Info resource bundle example
javax.portlet.title=ShoppingCart
javax.portlet.short-title=ShoppingCart
javax.portlet.keywords=ShoppingCart

# ASA : Title for the JSP file to be rendered on the view mode
asa.portlet.screen.ShoppingCartPortletView.title=ShoppingCartPortletView
# ASA : Title for the JSP file to be rendered on the edit mode
asa.portlet.screen.ShoppingCartPortletEdit.title=ShoppingCartPortletEdit
# ASA:  Title for the JSP file to be rendered on the help mode
asa.portlet.screen.ShoppingCartPortletHelp.title=ShoppingCartPortletHelp
# ASA: Title for the JSP file to be rendered on the configure mode
asa.portlet.screen.ShoppingCartPortletConfig.title=ShoppingCartPortletConfig
# ASA: Title for the JSP file to be rendered on the edit_defaults mode
asa.portlet.screen.ShoppingCartPortletEditDefaults.title = ShoppingCartPortletEditDefaults
```

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# Active Site Analytics – Instrument ASA tags at portlet level



Markup is generated for every ASA enabled screen without explicitly specifying what the name of the tag and value of the tag is.

Select the Active site analytics checkbox to enable ASA support for this portlet.



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# Active Site Analytics – Instrument ASA tags at portlet screen level

Select the Active site analytics checkbox to enable ASA support for this portlet jsp.

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30
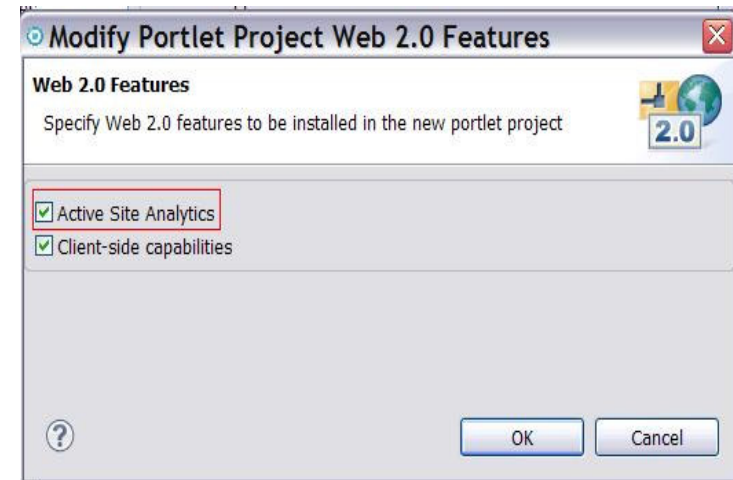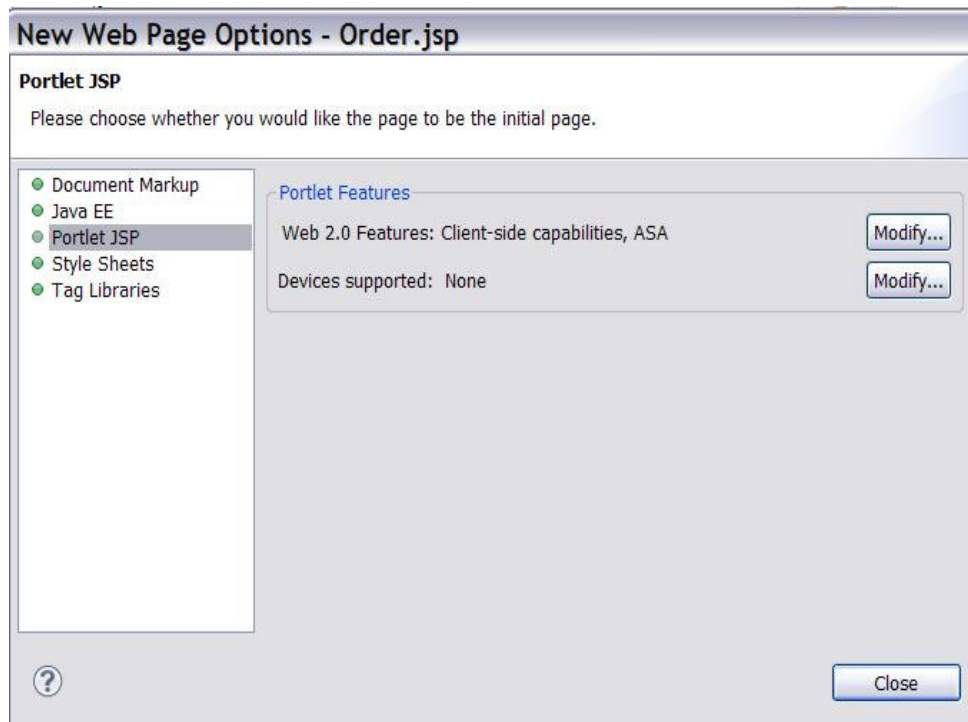
# JSF Portlet Bridge improvements

The IBM JSF portlet bridge supports JSR 168 Faces Portlet applications based on JSF 1.2

Automatic update of the JSF portlet bridge when a JSF Portlet Project is migrated from IBM Rational Application Developer V7.0.0.x to RAD V8

In case of migration of JSF Portlet projects from IBM Rational Application Developer V7.5.x to RAD V8 quick fix option to update the JSF portlet bridge.
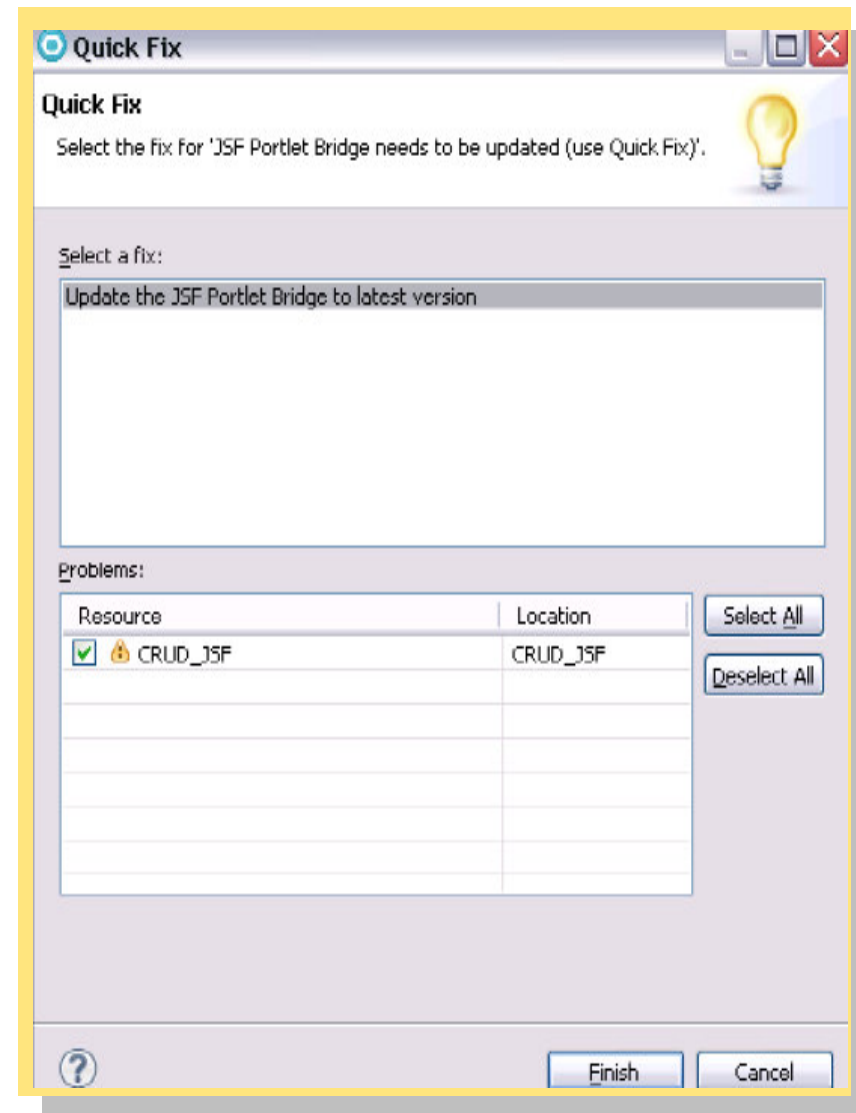
# JSF 1.2 Support

IBM JSF Portlet Bridge is enhanced
for JSF 1.2 specification

RAD Portal Tools allow integration of
third party JSF bridges*



*third party bridge is considered as application code*

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# Improved Portlet project Creation Wizard

Hassle free feature selection

# Site Designing Portlet Tool – Desktop application like experience

Light Weight

Desktop like compelling
 usage

Web2.0 Ajaxified interface

Universal Catalog

Portlet Design View

  Page Navigation

  Site Designing
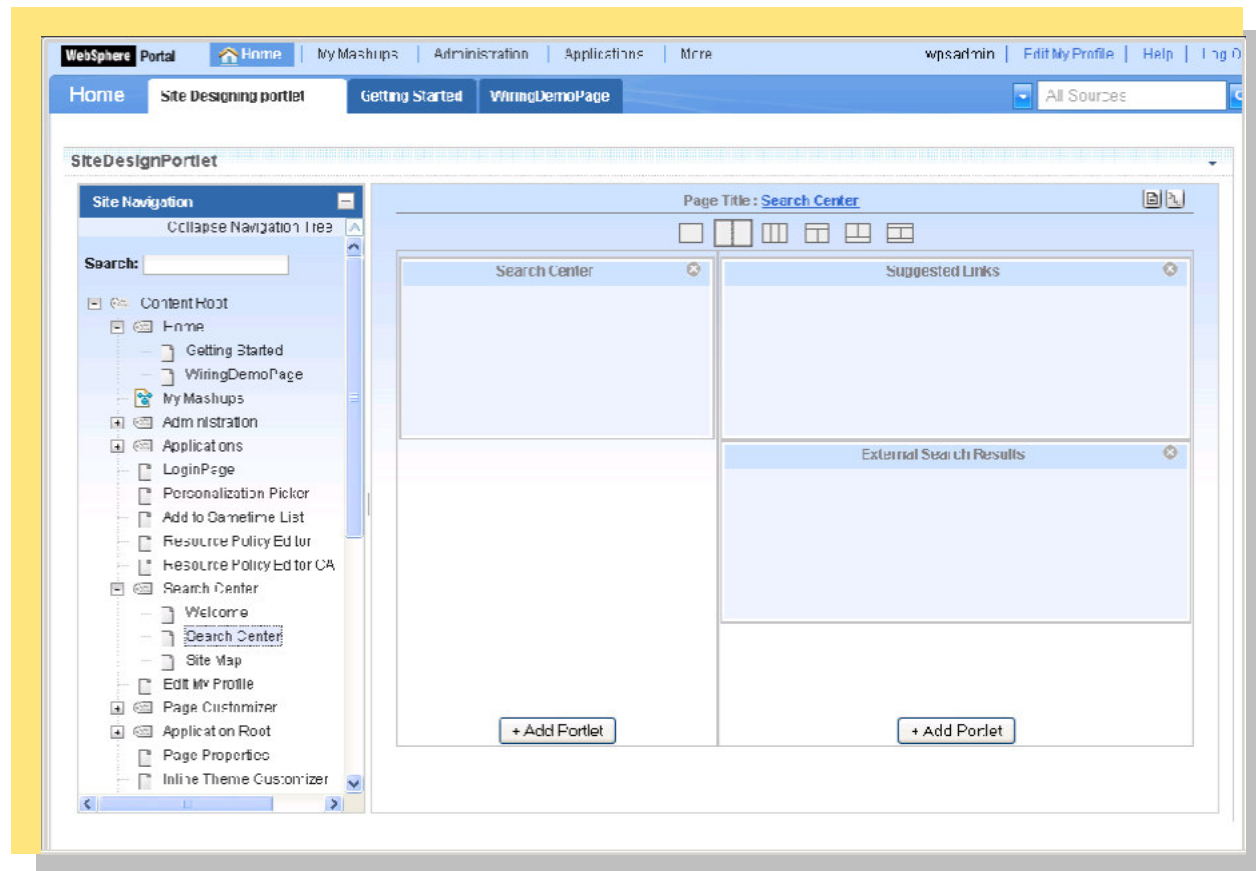
# JPA Support for Portlet Projects

Wizards to create
      Entities from DB
      JPA Manager Bean
      Query Method

Page Data View
      Tree structure to represent the Entity
      Auto generation of UI elements
Create and automatically initialize mappings:
      Top-down: Create new database tables from existing entity beans.
      Bottom-up: Create new entity beans from existing database tables.
      Meet-in-the-middle: Define mappings between existing database tables and entity beans.

**Generate Entities**

**Filter Results**

**Browse Entity**

**Create Manager Beans**

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# *Portal Toolkit is all about Web 2.0 features*

Use RAD to build rich internet applications to improve online user experience and increase customer satisfaction

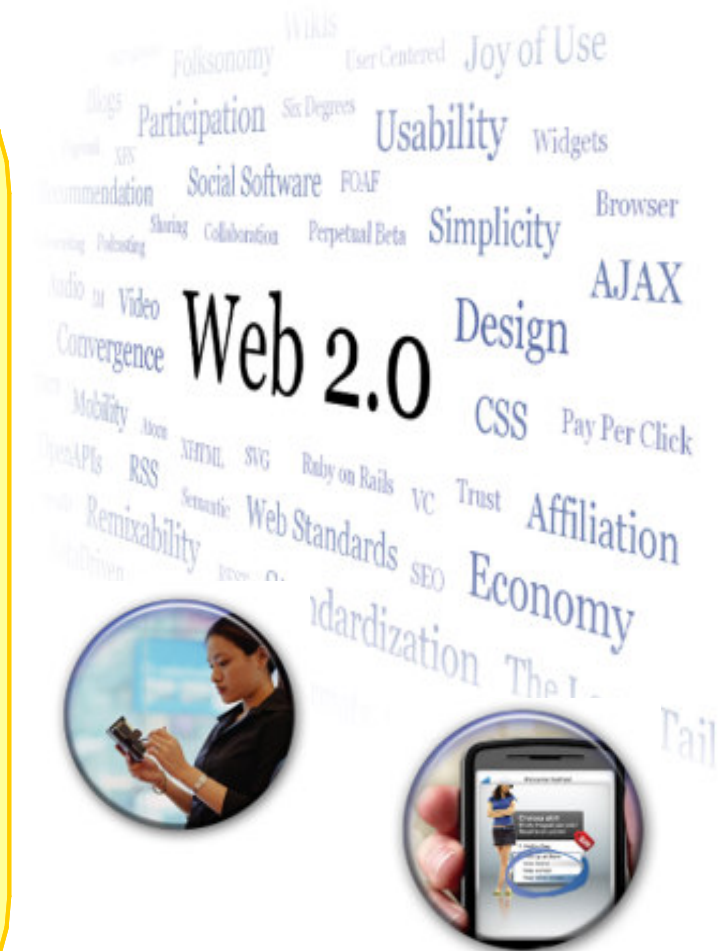Lower the barriers of adoption of Web 2.0 technologies
  Visual development of Web 2.0 pages
  Source level tools to aid with Javascipt and dojo development
  Debug capabilities with Firebug integration
  Expose server side assets as Web 2.0 consumable services

Lightweight Ajax test server to rapidly preview web pages that include images, scripts, services, and data

# *End to End iWidget development*

Create an iWidget with few clicks
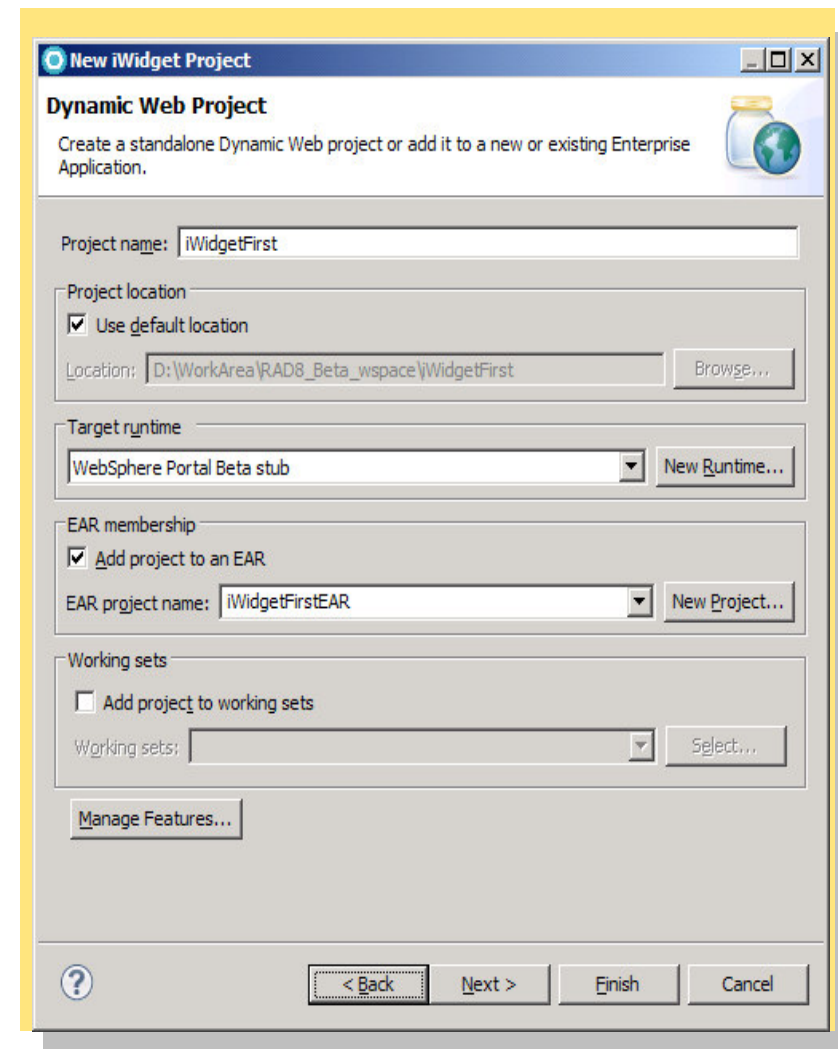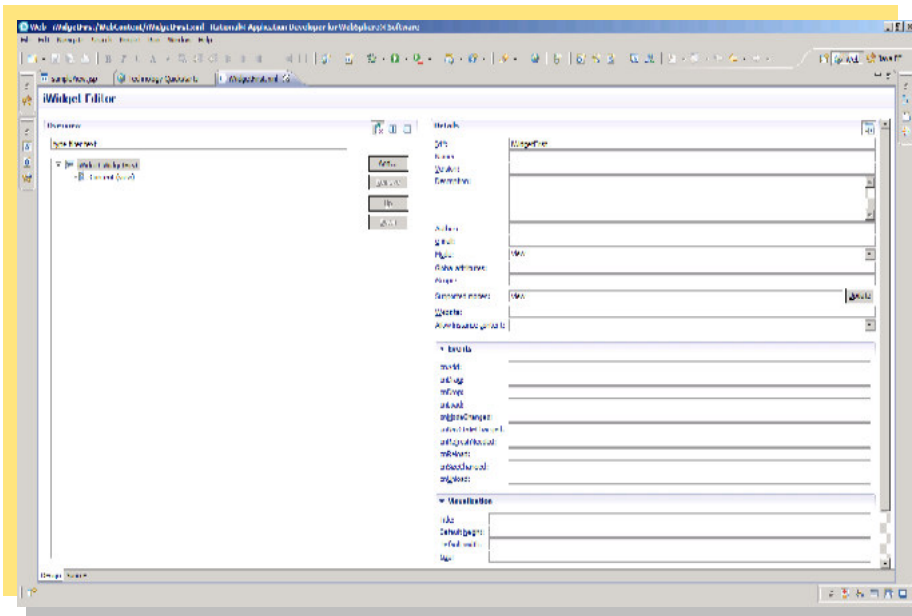
Option to create

Event emitting iWidget

Event consuming iWidget

WYSIWYG editor for iWidget XML that includes validation

Deployment tools

Direct placement on server catalog





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# *Easily create powerful ReST Services from server side code using RPC*

A handy way of exposing any server side code as ReST service that enables Web20 portal application creation

Single click invocation of wizards that takes away all your coding worries - no coding required, no testing of generated code required

Exposes your POJOs, session beans methods to be directly callable from JavaScript or client side code

Very intuitive and simple access to direct URLs of methods exposed

URLs generated as per portlet specifications for applications targeting Portal
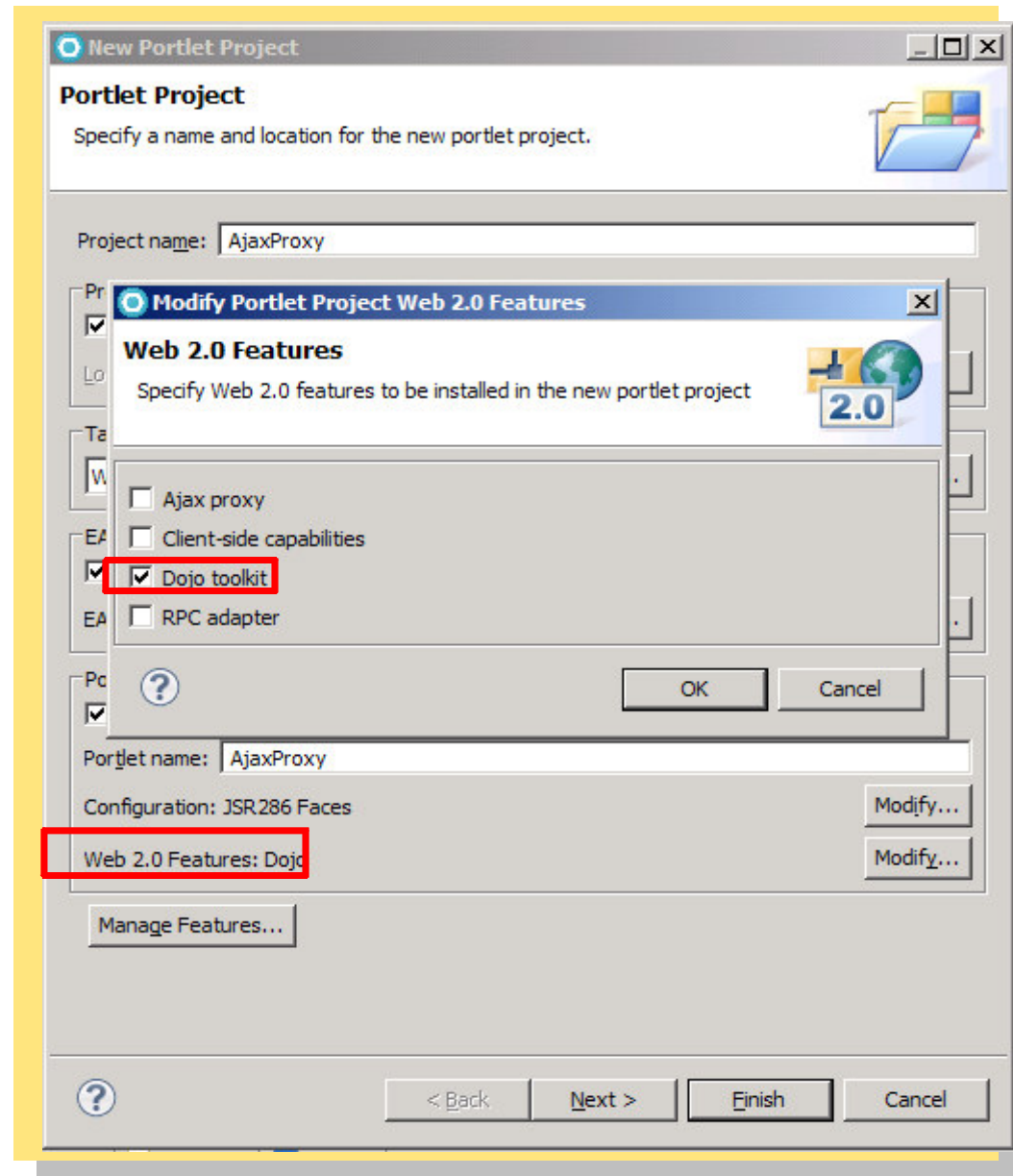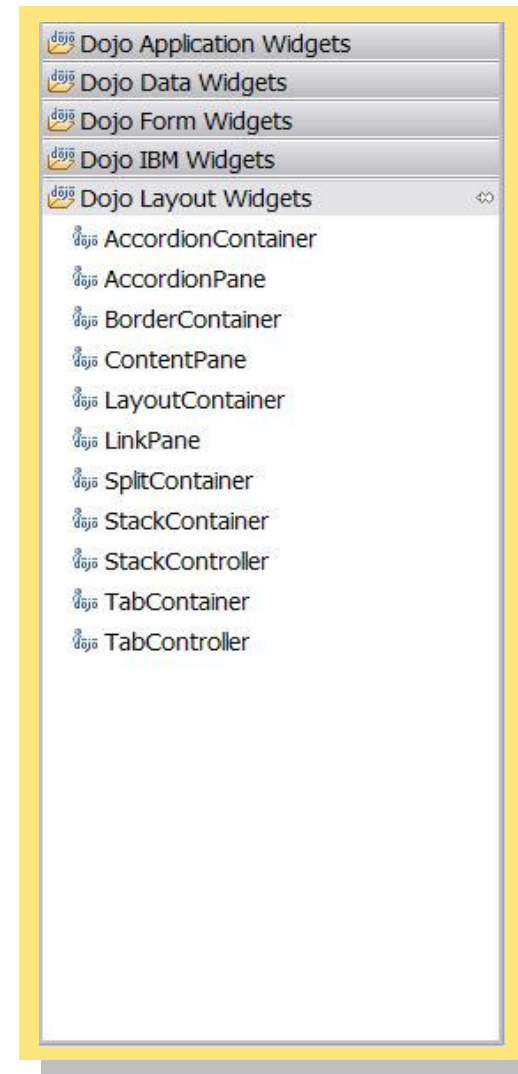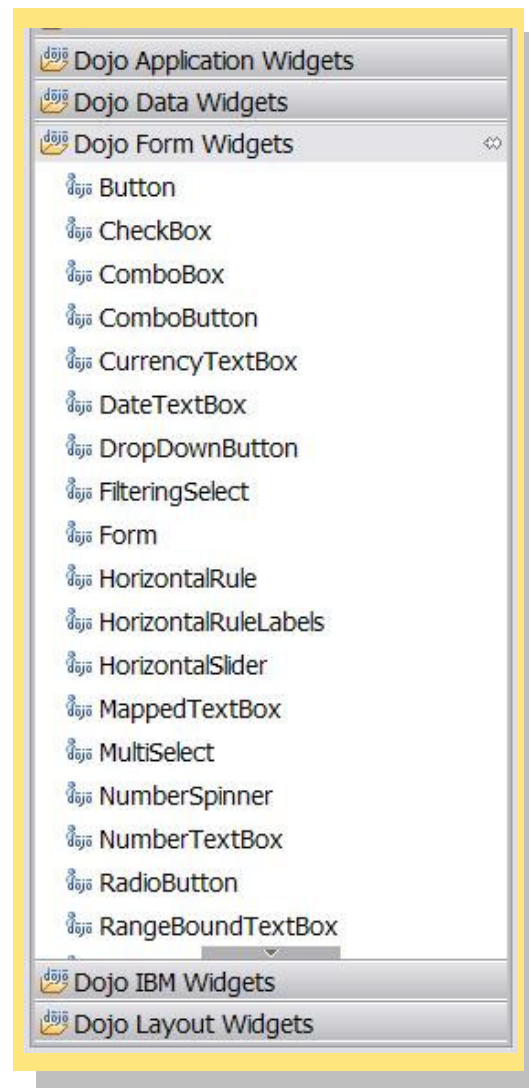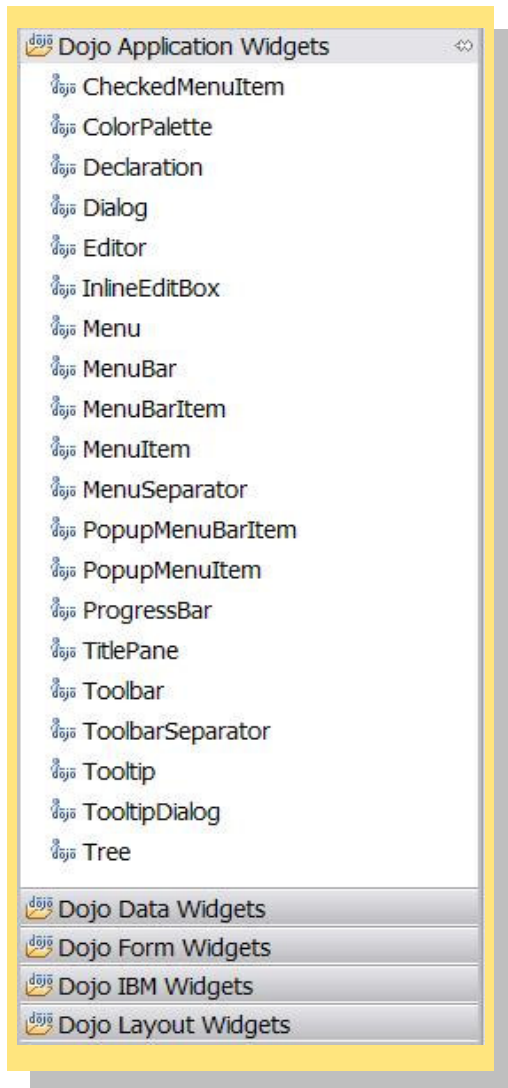
38
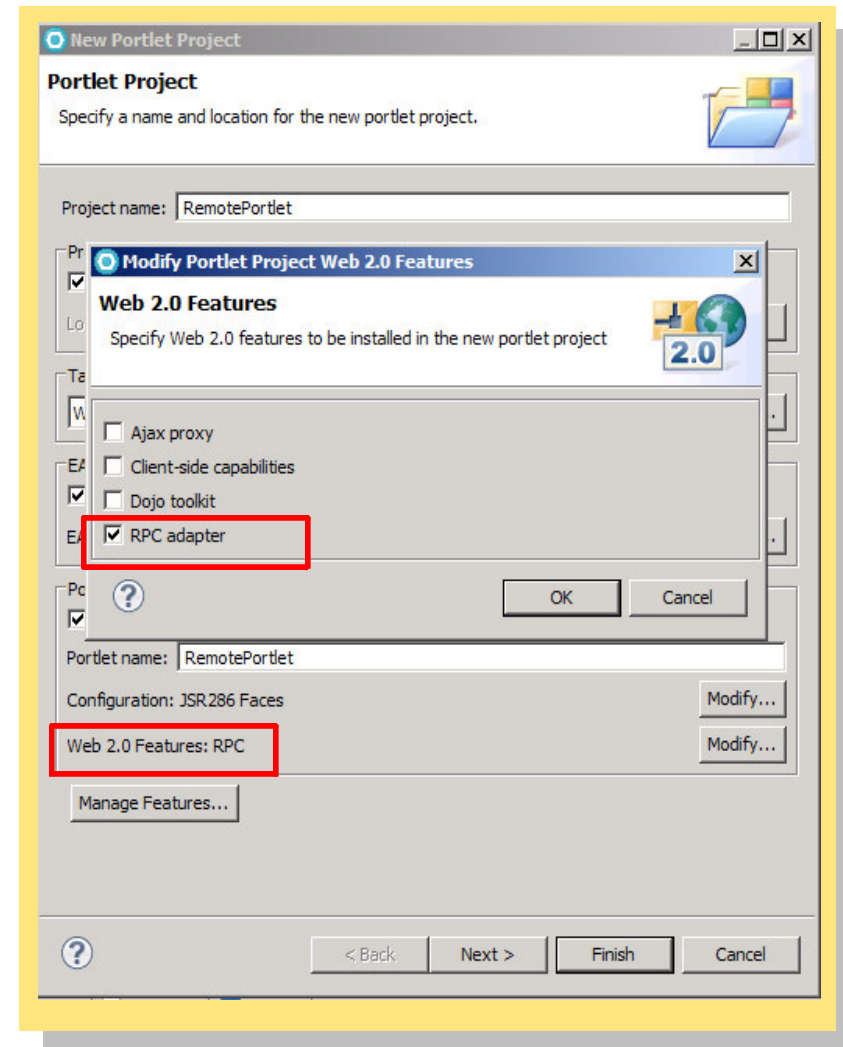
# *Create Exceptional Web Experience using Dojo tools*

Rational Application Developer allows to configure and use various versions of Dojo library.

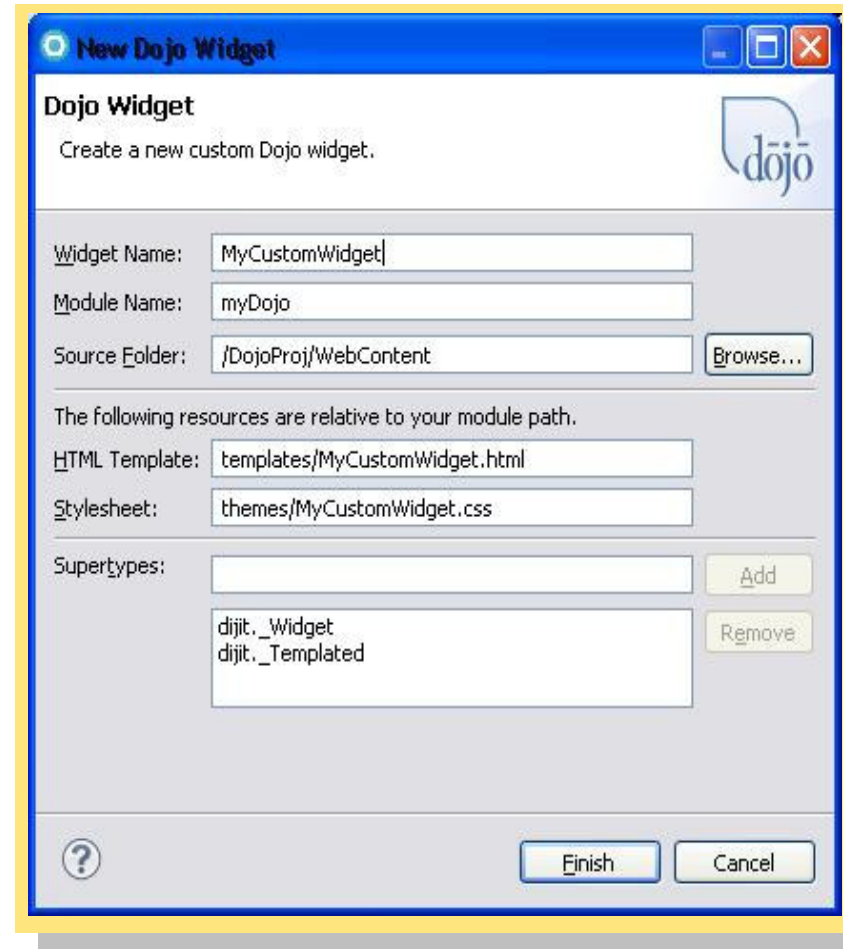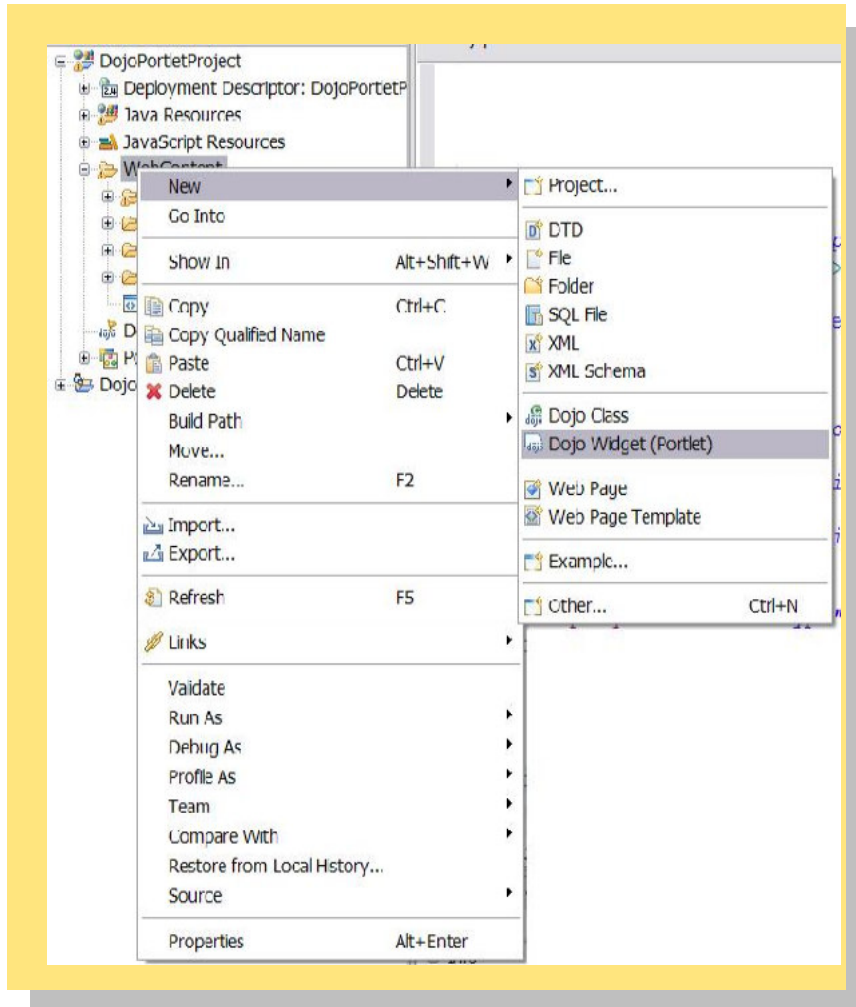Solves challenges for Dojo development on Portal

Incorporates best practices for Dojo and JavaScript

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# Dojo Widgets in RAD Palette: Easily create Exceptional Web Experience

**Dojo Application Widgets**
- CheckedMenuItem
- ColorPalette
- Declaration
- Dialog
- Editor
- InlineEditBox
- Menu
- MenuBar
- MenuBarItem
- MenuItem
- MenuSeparator
- PopupMenuBarItem
- PopupMenuItem
- ProgressBar
- TitlePane
- Toolbar
- ToolbarSeparator
- Tooltip
- TooltipDialog
- Tree

**Dojo Data Widgets**
**Dojo Form Widgets**
**Dojo IBM Widgets**
**Dojo Layout Widgets**

**Dojo Application Widgets**
**Dojo Data Widgets**
**Dojo Form Widgets**
- Button
- CheckBox
- ComboBox
- ComboButton
- CurrencyTextBox
- DateTextBox
- DropDownButton
- FilteringSelect
- Form
- HorizontalRule
- HorizontalRuleLabels
- HorizontalSlider
- MappedTextBox
- MultiSelect
- NumberSpinner
- NumberTextBox
- RadioButton
- RangeBoundTextBox

**Dojo IBM Widgets**
**Dojo Layout Widgets**

**Dojo Application Widgets**
**Dojo Data Widgets**
**Dojo Form Widgets**
**Dojo IBM Widgets**
**Dojo Layout Widgets**
- AccordionContainer
- AccordionPane
- BorderContainer
- ContentPane
- LayoutContainer
- LinkPane
- SplitContainer
- StackContainer
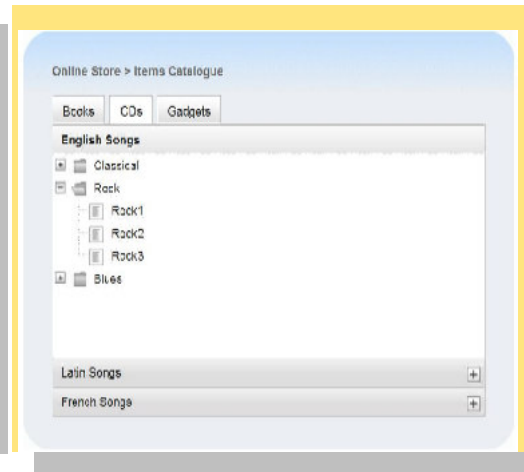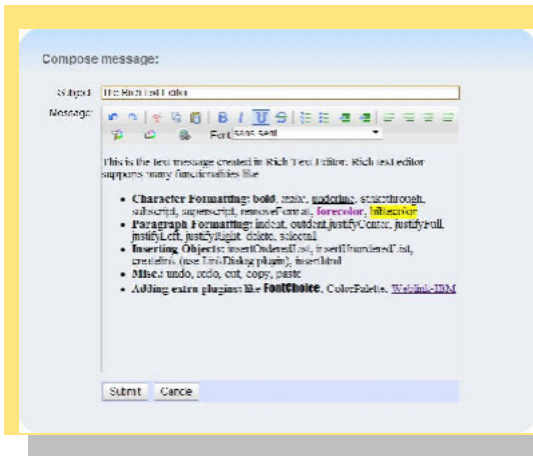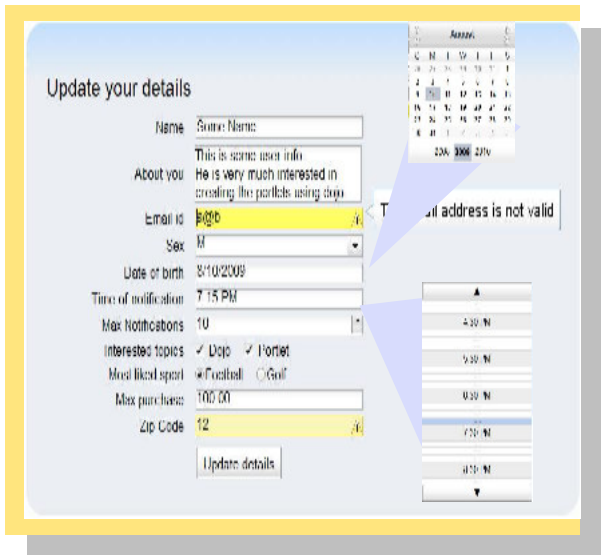- StackController
- TabContainer
- TabController

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# Wizards to help create custom dojo widgets

# *Exceptional User Interfaces* with Dojo Widgets: Delivered!

*Easily Drag and Drop from palette any Widget to create exceptional web experiences*

# Advance Dojo Features: Exclusively in RAD Portal Toolkit V8.0



**Client-side Inter Portlet Communication (IPC)without page refresh to create exceptional web experiences**

# Client side IPC using Dojo

## Wizard to create Event Subscriber
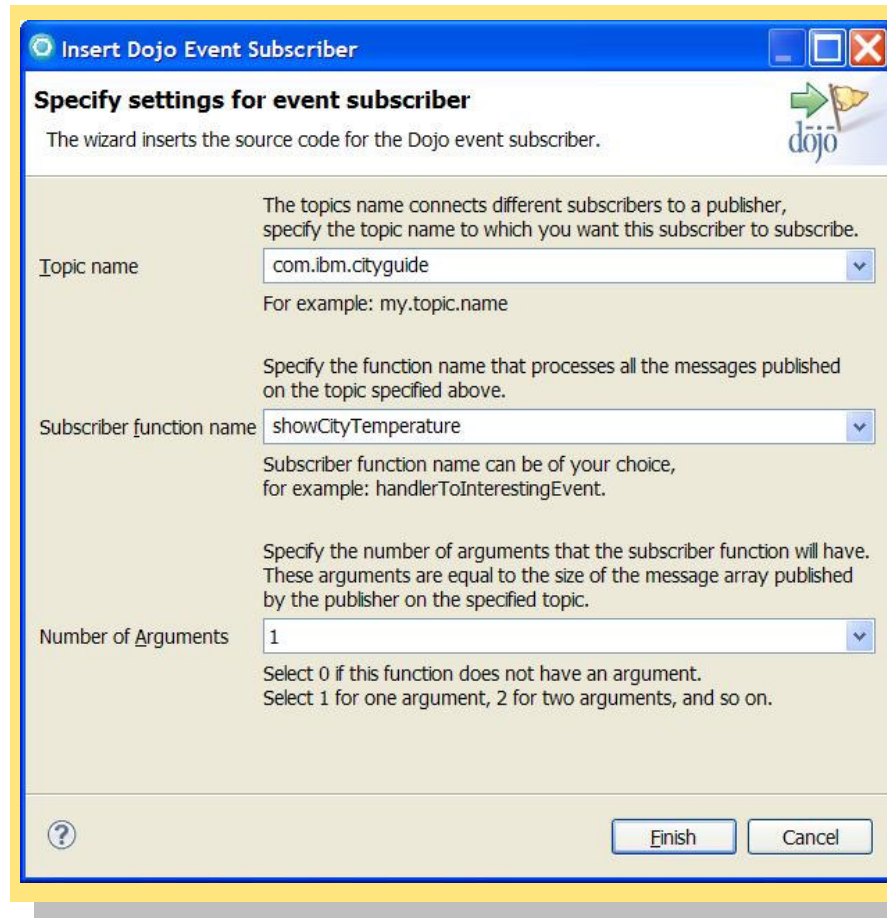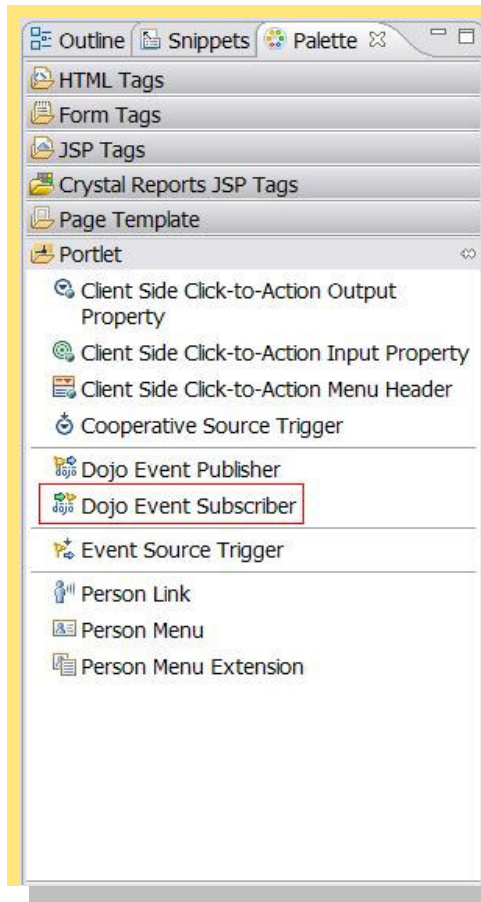
# *Client side IPC using Dojo*

Node Decorators to demark

Topic

Event

Auto-code generation

Connections are created for

publishers

subscribers

Placeholder JS functions generated for

publishers
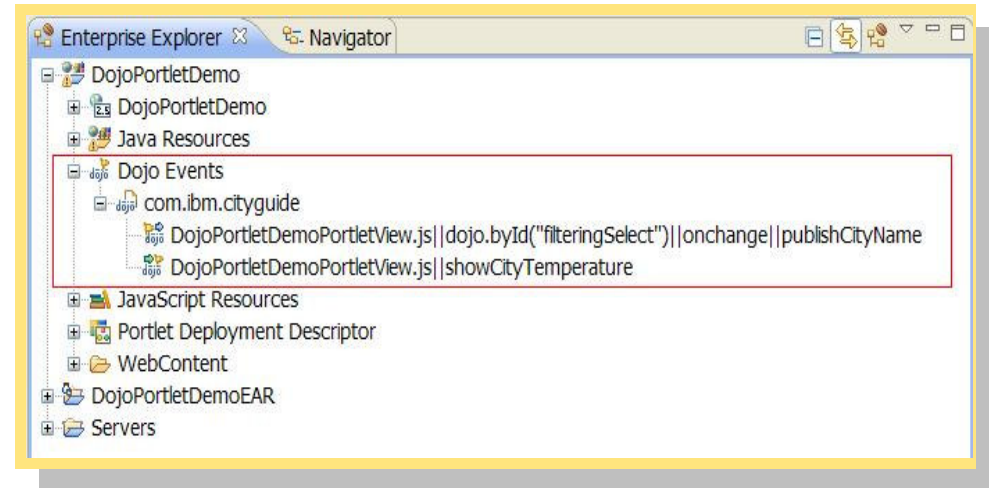
subscribers



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# Agenda

Exceptional Web Experience Overview

Rational Application Developer Overview

Rational Application Developer Portal Tool Kit Overview

Question and Answer Session

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**www.ibm/software/rational**

# Easily create cohesive business applications



Web Services exposed by MS SharePoint
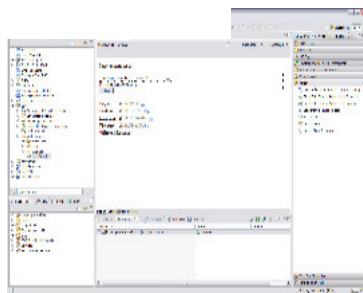
HTTP request/ response

SDO or JPA beans to access data from RDBMS

HTTP request/ response

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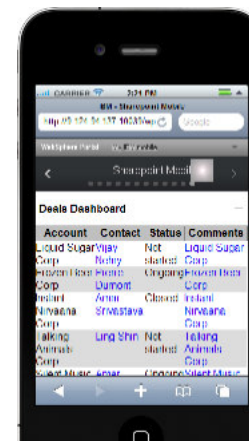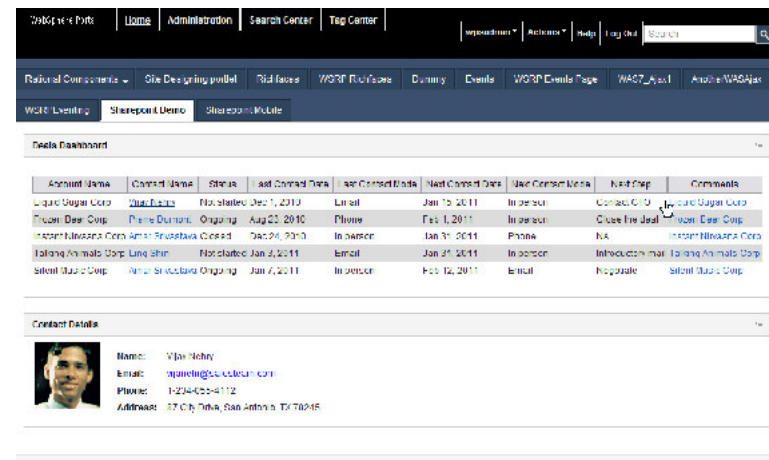
# Additional IBM Rational Application Developer Information and Resources

**Rational Application Developer Portal Toolkit Wiki Page:**

http://www.ibm.com/developerworks/wikis/display/rad/Portal+tools

**Rational Application Developer Portal Toolkit Developer's Forum:**

http://www.ibm.com/developerworks/forums/forum.jspa?forumID=430&start=0

**Rational Application Developer on developerWorks:**

http://www-128.ibm.com/developerworks/rational/products/rad/

**Rational Application Developer Release Notes Quick Links:**

http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=Q037376H41907N67

**Rational Licensing Home Page:**

http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=R107288S44149G18

**Rational Application Developer Beta Home Page:**

https://www14.software.ibm.com/iwm/web/cc/earlyprograms/rational/radob/index.shtml

**Rational Application Developer Beta Release Notes:**

http://publib.boulder.ibm.com/infocenter/radhelp/v8/index.jsp?topic=/com.ibm.rad.install.doc/topics/
rad_releasenotes.html

**Rational Application Developer Beta What's New:**

http://www.ibm.com/developerworks/wikis/display/rad/Rational+Application+Developer+Version+8.0+Open+Beta

**Rational Application Developer Beta Infocenter:**

http://publib.boulder.ibm.com/infocenter/radhelp/v8/index.jsp

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# Additional IBM WebSphere Portal Information and Resources

**WebSphere Portal – IBM Site**

http://www-3.ibm.com/software/genservers/portal/

**WebSphere Portal Business Solutions Catalog**

http://catalog.lotus.com/wps/portal/portal

**Websphere Portal Developer's Zone**

http://www-106.ibm.com/developerworks/websphere/zones/portal/

**Product Documentation and WebSphere Portal Wiki**

http://www-3.ibm.com/software/genservers/portal/library/

http://www-10.lotus.com/ldd/portalwiki.nsf

**Education**

http://www-01.ibm.com/software/lotus/training/portalofferings.html

**WebSphere Portal Blog**

https://www.ibm.com/developerworks/mydeveloperworks/blogs/WebSpherePortal/

**Websphere Portal Business Solutions Catalog:**

http://catalog.lotus.com/wps/portal/portal

**Webspere Portal Product Information:**

http://www-306.ibm.com/software/genservers/portal

**WebSphere Portal Information Center Documentation:**

http://www.ibm.com/developerworks/websphere/zones/portal/proddoc.html

# *Additional Rational Application Developer Resources*

**Rational Application Developer on developerWorks:**

http://www-128.ibm.com/developerworks/rational/products/rad/

**Rational Application Developer Release Notes Quick Links:**

http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=Q037376H41907N67

**Rational Licensing Home Page:**

http://w3-103.ibm.com/software/xl/portal/viewcontent?type=doc&srcID=R9&docID=R107288S44149G18

**Rational Application Developer Zone on DeveloperWorks:**

http://www.ibm.com/developerworks/rational/products/rad/

**Rational Application Developer Red Books**

http://www.redbooks.ibm.com/abstracts/SG247501.html?Open?S_TACT=105AGY82&S_CMP=GENSITE

# Platforms Supported by Rational Application Developer

**Linux®:**

Red Hat Enterprise Linux Version 4.0 AS / ES (x32 / x64)

Red Hat Enterprise Linux Version 5.0 AS / ES (x32 / x64)

Red Hat Enterprise Linux Desktop Version 4.0 (x32)

Red Hat Enterprise Linux Desktop Version 5.0 (x32)

SUSE Linux Enterprise Server (SLES) Version 9 (x32 / x64)

SUSE Linux Enterprise Server (SLES) Version 10 (x32 / x64)

SUSE Linux Enterprise Desktop (SLED) 9 (x32)

SUSE Linux Enterprise Desktop (SLED) 10(x32)

**Microsoft® Windows®:**

Windows Server 2003

Windows XP

Windows Vista Business/Enterprise

Windows Server 2008

**Application Server Test Environment:**

IBM WebSphere Application Server Unit Test Environment v6.0, v6.1, v7.0

WebSphere Portal Server V6.1 (also compatible with v6.0 but not included)

Supports WebSphere Feature Packs: Web 2.0, Web Services, EJB 3.0

**Hardware:**

Display, minimum requirements: 1024 x 768

1GB RAM minimum; 2 GB RAM works well

Disk space requirements: 3.5 GB minimum for installing Rational Application Developer and additional disk space for development resources (minimum disk space can be reduced if optional features and run times are not installed).

Linux only supported on x86 architecture

Intel® Pentium® III 800 MHz or higher recommended

# *Additional reasons why to use Rational Application Developer Portal Tools Kit?*

IBM Rational Application Developer (RAD) is the most complete Java and Web IDE on the market.

Rational Application Developer's integrated set of Eclipse-based tools and best practices, as well as its local presence and expertise worldwide, minimizes development risks and maximizes return on investment.

By teaming directly with the WebSphere Application Server and WebSphere Portal Server teams Rational Application Developer provides industry leading capabilities for both runtimes.

Rational Application Developer can extended using both third party Eclipse plug-ins as well as Rational specific plug-ins provided by IBM and its partners.

Rational Application Developer provides a reliable, robust and customizable set of tools, the IBM Software Development Platform, which is built on top of Eclipse .

Rational Application Developer integrates with various Rational solutions including Rational Team Concert, which transforms Rational Application Developer into a collaborative JEE development environment which such capabilities as "Collaborative Debugging"

Rational Application Developer leverages the IBM Installation Manager which provides enterprise-wide deployment capability for your organization.

**The standard ECLIPSE Vs RAD PTK customer objection**

*Most Common Customer Question:* I already have Eclipse for my Java coding – what more do I need?

*My Response:* If you're doing JEE development, your developers are spending a lot of time dealing with low-level infrastructure tasks such as directly editing the deployment descriptors, manually creating the mapping descriptors, writing code to test EJBs and more.

Rational Application Developer adds a wealth of productivity features for the J2EE and Portal/Portlet developer over and above the base Eclipse platform.

# For More Information (1)

**WebSphere Portal – IBM Site**

http://www-3.ibm.com/software/genservers/portal/

**WebSphere Portal Information Center**

http://www.ibm.com/developerworks/websphere/zones/portal/proddoc.html

**WebSphere Portal Business Solutions Catalog (on Lotus Greenhouse)**

https://greenhouse.lotus.com/catalog/home_full.xsp?fProduct=WebSphere%20Portal

**WebSphere and Lotus Web Content Management Portal Open Beta**

https://www14.software.ibm.com/iwm/web/cc/earlyprograms/lotus/portalopenbeta/

**WebSphere Portal Blog**

https://www.ibm.com/developerworks/mydeveloperworks/blogs/WebSpherePortal/

# For More Information (2 )

**IBM Lotus Connections**

http://www.ibm.com/software/lotus/products/connections

**IBM Lotus Forms**

http://www.ibm.com/software/lotus/forms

**IBM Lotus Quickr**

http://www.ibm.com/lotus/quickr

**IBM Lotus Sametime**

http://www.ibm.com/lotus/sametime

**WebSphere Commerce**

http://www.ibm.com/websphere/commerce

**WebSphere Process Server and Business Process Automation**

http://www.ibm.com/software/integration/wps

**www.ibm/software/rational**

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to receive your free conference t-shirt!

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