



IBM Software Group

IBM Rational Team Concert

What's new in Release 3.0?

“Any Plan, Any Process, Any Platform”

Announced: November 9th, 2010



Rational software



Innovation for a smarter planet

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What's new in RTC 3.0?

- ***Simplified RTC 3.0 Packaging***

- ▶ *Single Release for All Platforms*
- ▶ *Server License Included with each RTC User License*
- ▶ *Simple Role Based User Licensing*
- ▶ *New Flexible pricing models*
 - *On Demand*
 - *Floating Token Based*

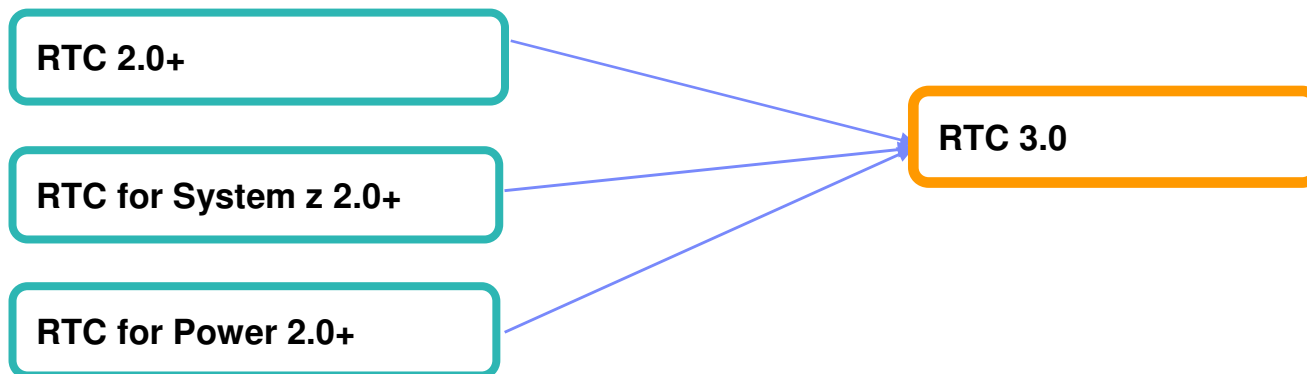


Driving Business Differentiation



One release of RTC for System z, Power and Distributed Platforms

- **All platforms are supported with a single release of RTC 3.0**
 - ▶ A new RTC Developer for IBM Enterprise Platforms contains advanced features focused on the needs of z/OS and IBM i development teams



The server license is included with any RTC 3.0 User License

- **Customers can now install as many servers as RTC 3.0 user licenses purchased on any platform for any purpose!**

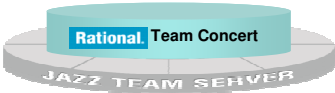
- Customer Benefits:
 - ▶ **Jazz Team Servers in RTC 3.0 can run on ANY supported platform**
 - (System z, System i, Windows, Linux, Unix)

 - ▶ **For ANY purpose**
 - Support disaster recovery installations
 - Maintain separate test or training configurations
 - Move servers between platforms w/o additional license fees
 - Enables teams who need many servers for physical security isolation
 - Makes Cloud/SaaS models more cost effective
 - Simplifies trade-ups from other Rational products

 - ▶ **Easily change and grow your server topology without a licensing transaction**



Simplified User Licensing – Rational Team Concert 3.0



	Stakeholder Customers	Contributor Collaborative CM Or Developers w/ an alternate SCM	Developer for Workgroups* Developers Team	Developer Developers Team of Teams	Dev. for IBM Ent. Platforms z/OS / Power Developers
Collaboration Platform	✓	✓	✓	✓	✓
View Project Status	✓	✓	✓	✓	✓
Work Items	✓	✓	✓	✓	✓
Planning: Agile, Formal, Hybrid		✓	✓	✓	✓
Report Customization		✓	✓	✓	✓
Continuous Integration - Builds			✓	✓	✓
Advanced Source Control			✓	✓	✓
Distributed SCM**				✓	✓
Advanced System Z and Power Features					✓
Floating or Token Licensing	Yes	Yes	No	Yes	Yes

*Developer for Workgroups has a limit of 50 authorized user licenses per licensed Jazz Team server group.

**Mixing Developer 10-C (community) or Developer for Workgroups licenses with Developer or Developer for IBM Enterprise Platform licenses will result in Distributed Source Control Management (SCM) capability being disabled for all licenses



New Flexible Pricing Models

- In addition to today's perpetual license with annual support, RTC 3.0 provides:
 - ▶ **New On Demand Pricing - Fixed Term Rental Model**
 - Allows the purchase of fixed term annual licenses
 - Provides flexible, annual rental model and lower initial cost

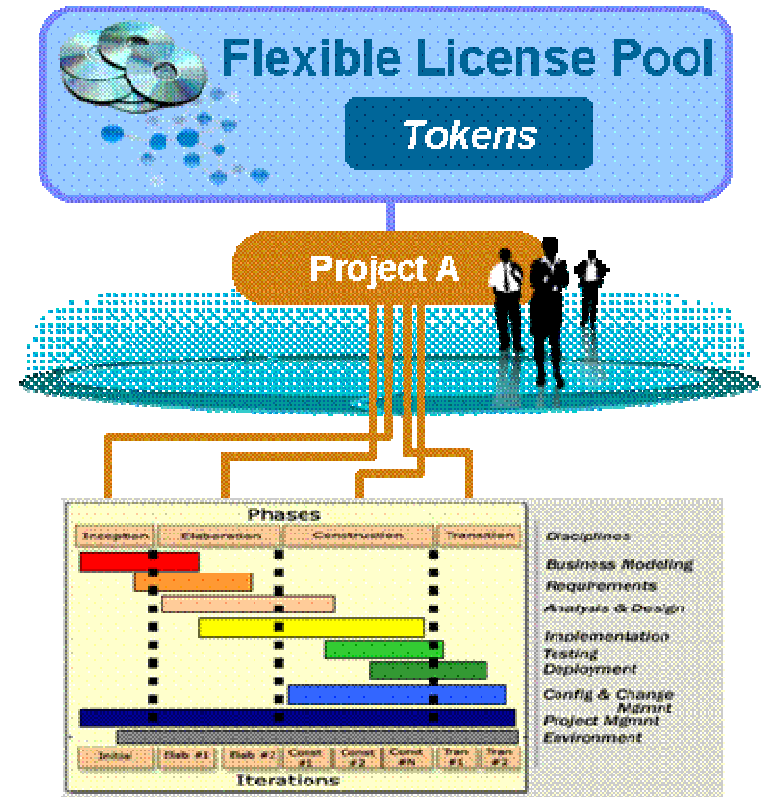
 - ▶ **New Token Licensing – Unique Investment Protection**
 - A floating fixed term license that floats across Rational products
 - Provides unique investment protection for customers

 - ▶ **And we still have a 10 “free” RTC Developer 10-C license with Community Support**
 - Customers who want full IBM support need to buy user licenses to get IBM support
 - Mixing Developer 10-C licenses with other licenses results in the entire server being eligible for only Jazz.net community support



Rational Token Licensing

- **What are Tokens?**
 - ▶ Tokens are a form of floating fixed term license but are more flexible in that they allow the customer to mix the different products in real time.
- Tokens provide licensing **flexibility** and **insurance** against choosing the wrong product
 1. **Flexible use of Rational solutions:** Use the right tool at the right time
 2. **Streamline License Management:** Eliminate “unused” software as the project moves from one development phase to the next
 3. **Simplify License Purchasing:** Customer can add/try new software during project, without new PO or evaluation process



What's new in RTC 3.0?

■ **Advanced Planning for Formal and Agile Teams**

- ▶ *Formal Project Management Process Template*
- ▶ *New Risk types with Risk Actions*
- ▶ *Visualize Plans Based on a Timeline*
- ▶ *Resource Allocation and Scheduling*
- ▶ *Plan Snapshots*
- ▶ *Redesigned Scrum Task Board*

■ **Flexible Customization and Configuration**

- ▶ *Work Item Customization and Configuration*
- ▶ *Enhanced Access Control for Work Items*
- ▶ *Smart Card Authentication*
- ▶ *Shared Master Project Areas*



Driving Business Differentiation



Customers want flexible planning : Traditional, Agile, Hybrid

- ***“I have more traditional planning teams using change requests, risks, and a more formal planning and scheduling process. Change is more formal and controlled.***
 - ▶ *RTC 3.0 has a new Formal Project Management Process Template out of the box*

- ***“Some of my teams are interested in agile but they want to customize that to support more traditional methods like managing risks and risk actions.***
 - ▶ RTC 3.0 has a common planning engine that support BOTH agile and formal
 - We have always had the richest process customization for teams, but now we can also attract traditional teams who may wish to “flirt with agile” or mix and match some traditional and agile techniques.
 - Example: Use scrum but add risks and risk action work item type to it.

- ***“How do I get started bringing in my existing data?”***
 - ▶ RTC 3.0 supports Microsoft Project Task Import and Export



Formal Project Management Process Template

Formal Project Management process template

- ▶ The Formal Project Management template includes a single timeline with a release and backlog that is divided into more traditional project phases. It includes new work item types, features, and views in the template such as risks and risk actions

Timelines

The project timeline defines a start and end date along with an iteration breakdown. Additional timelines can be defined to track secondary activities.

- Main Development [Project Timeline]
 - Release 1.0 [5/10/10 - 8/8/10]
 - Requirements [5/10/10 - 6/9/10]
 - Design
 - Implementation
 - Testing
 - Backlog

Work item types:

- Defect
- Task
- Change Request
- Issue
- Plan Item
- Risk
- Risk Action



Risk and Risk Action Work Item Types

■ Risks and Risk Actions

- ▶ Every project has some known and unexpected risks. As a project manager, you can define risks, add strategies, and create work items to take action against risks. The risks work items are available in the Formal Project Management process template.

Overview
Links
Approvals
History

Details

Type:	Risk	Probability:	40% - Unlikely
Creation Date:	Jun 1, 2010 11:58 AM	Impact:	Major
Created By:	ADMIN	Exposure(%):	24
Project Area:	Formal Project Management Project		
Team Area:	Development		
Filed Against *	Development		
Tags:	<input type="text"/>		
Owned By:	Unassigned		
Priority:	Unassigned	Precision:	Medium
Risk Category:	Cost Control	Consequence Cost:	0
Identification Date:	<input type="text"/>	Probability Cost:	0
Occurrence Date:	<input type="text"/>		



New Schedule View - Gantt Charts

- **Now you can visualize a plan based on a timeline**
 - ▶ Gantt charts for traditional planning based on schedule constraints and dependencies
 - ▶ Shows work breakdown and schedule

Phase Plan Auto-Save Save

Plan Details Edit

Planned Items | Links | Snapshots | Resources | Notes

View As: Work Breakdown and Schedule

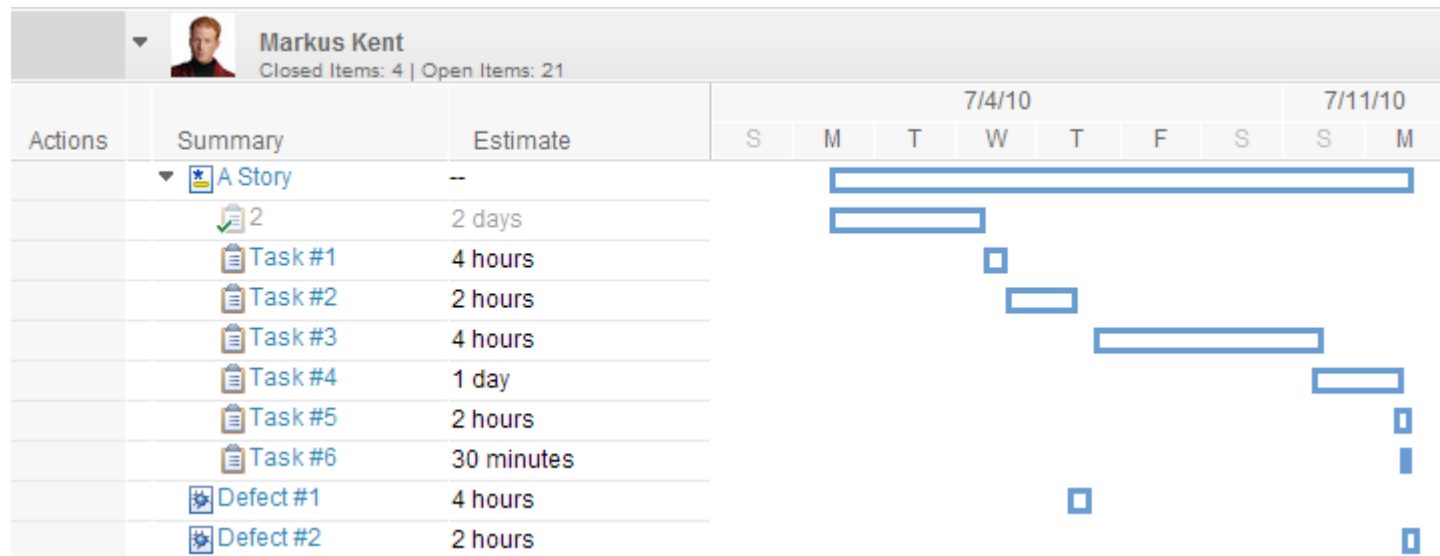
Actions	Summary	Owned By	Effective Estin	Predecessor	Id
	Write the rules down	Jean-Miche	1 day	-	28
	Add more items to our list	Heather Fr	1 day	-	22
	Create the schedule for the team	Jean-Miche	3 days	-	23
	Write the requirements	Heather Fr	2 days	Task <03:3	21
⚠	Prepare the milestone plans	Heather Fr	2 days	-	24
⚠	Setup more work for the team	Heather Fr	1 week	24: Prepare	26
⚠	WAN access from WTP site is slow - need to invest	Jean-Miche	1 day	-	27



New Schedule View - Roadmap Charts

■ Designed for agile teams

- ▶ Shows a time projection of a roadmap based on iterations
- ▶ The scheduled time of work items can now be shown as a roadmap on a timeline.
- ▶ The roadmap can also show blocking or depends on relationships between work items



Resource Allocation and Scheduling

Resource Allocation

- ▶ Search and add a resource to your plan based on availability
- ▶ You can now allocate ranges of availability to a project or team.

The screenshot shows the 'Phase Plan' interface with a 'Resources' tab selected. It displays resource allocation for Heather Fraser-Dube and Jean-Michel Lemie. An 'Add Users' dialog box is open, allowing the user to search for and select users for availability search. The dialog includes fields for 'Start date', 'End date', and 'Hours required', and a 'Check Availability' button. A table below the dialog shows the availability results for Andrew Hoo, with 80.00 available hours from Oct 15, 2010 to Oct 28, 2010 at 100% allocation.

Work Allocations

Associate resources to teams and timelines:

Team	Allocation	Allocation Dates	Actions
Agile Project		(No Date Restriction)	
Main Development *	16 %	(No Date Restriction)	
Analysis		Oct 11, 2010 - Nov 26, 2010	
Main Development	5 - 16 %	Oct 11, 2010 - Nov 26, 2010	
Allocation	16 %	Oct 11, 2010 - Nov 15, 2010	
Allocation *	5 %	Nov 15, 2010 - Nov 26, 2010	



Plan Snapshots - Compare plans over time

How has my plan changed over time?

- ▶ What is the quality of our planning?
- ▶ Did we make our date because we changed the plan and/or our estimates?

Planned Items Links **Snapshots** Resources Notes

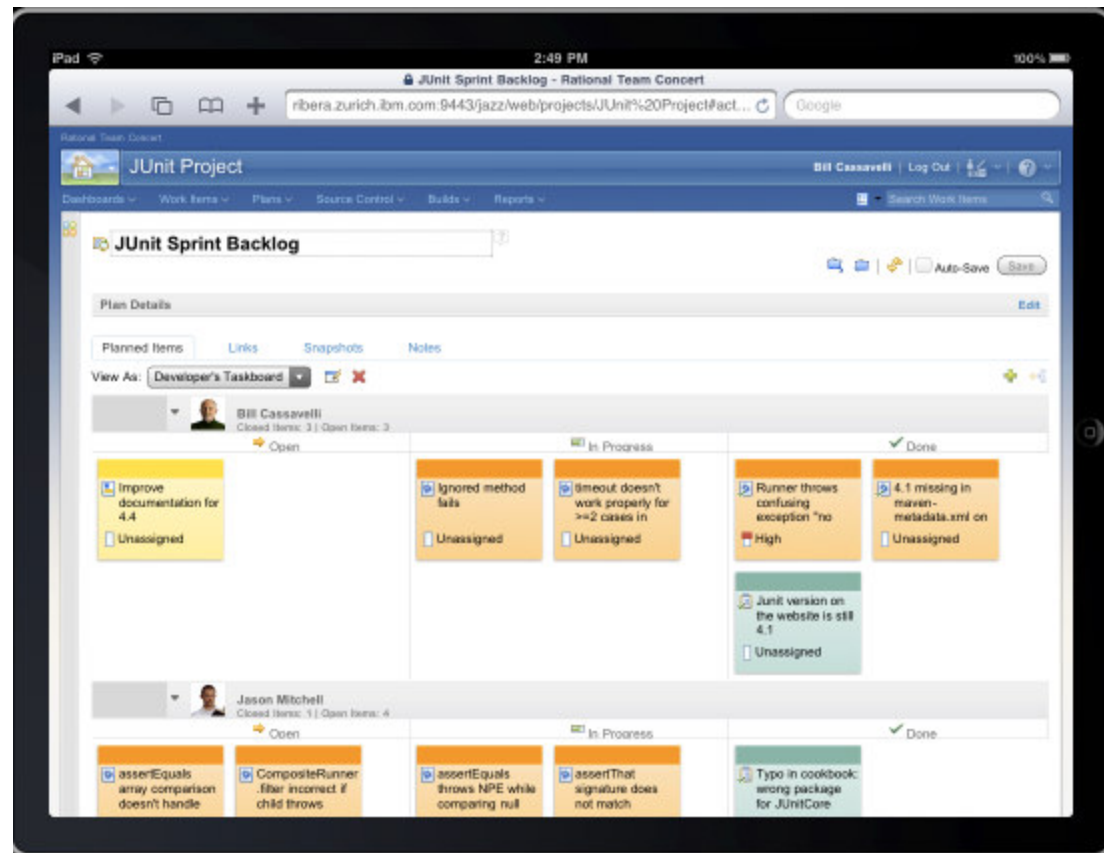
[Back to Snapshots](#)

	Comparison - Oct 15, 2010 4:53:52 AM	End - Oct 15, 2010 4:53:45 AM	Start - Oct 15, 2010 4:44:47 AM
Overview			
Start Date	0	Oct 15, 2010	Oct 15, 2010
End Date	8 weeks 3 days 1 hour	Oct 25, 2010	Dec 23, 2010
Work Items Total	2	5	7
New	2	4	6
In Progress	0	0	0
Closed	0	1	1
Work Done	6 hours	1 day	1 day 6 hours
Work Estimated	2 weeks 2 days 4 hours	2 days 4 hours	3 weeks
Progress	–	8/20 h	100% 14/120 h
Work Items			
	Modified Items	Added Items	Removed Items
	Write the requirements	–	Create the schedule for the team
	Add more items to our list	–	WAN access from WTP site is slow - need to
	Setup more work for the team	–	–
	Prepare the milestone plans	–	–



Redesigned Scrum Task Board – More Data, Less Space

- Shows More Data with “Sticky Note” format
 - ▶ Bonus: Works well on an iPad with touch screen drag and drop of sticky notes



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- ▶ *Plan Snapshots*
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■ **Flexible Customization and Configuration**

- ▶ *Work item customization and configuration*
- ▶ *Enhanced Access Control for Work Items*
- ▶ *Smart Card Authentication*
- ▶ *Shared Master Project Areas*



Driving Business Differentiation



Advanced Work Item Customization

- **Easily customize work items, even from the web UI:**
 - ▶ Validate data entry with regular expressions or number ranges
 - ▶ Configure enumerations whose value depends on the value of another enumeration
 - ▶ Configure default values for any attribute
 - ▶ Perform customization of workflow from the web-UI

Attribute Validations

Configuration

Severity:

Message:

Regular Expression:

Case sensitive

Match line breaks (for ^ and \$)

The expression matches the text

Dependent Enumerations

Configuration

Source Enumeration:

Dependent Enumeration:

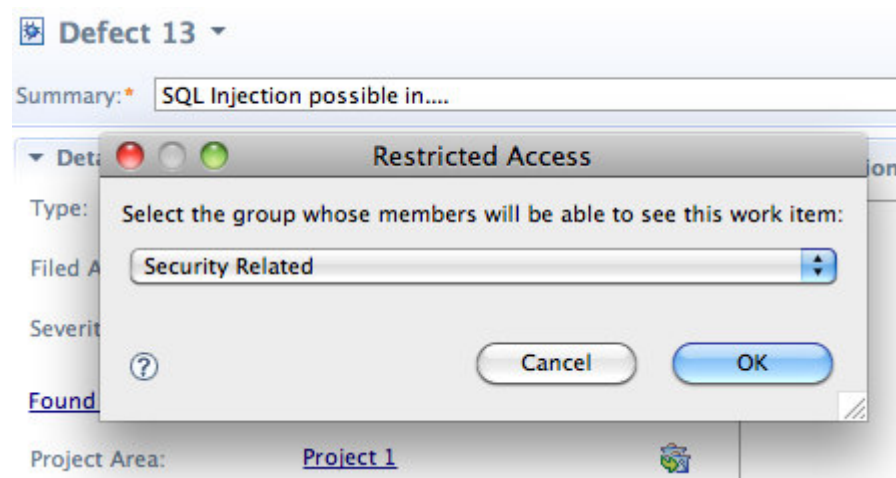
OS X
Windows
Linux

Firefox
 Safari
 Internet Explorer
 Chrome



Enhanced Access Control for Work Items

- **Enhanced Access Control for Work Items**
- Read access for work items could previously only be configured for all or no work items in a project area. Now you can set the project area governing read access on a per work item basis. This project area is independent of the project area where the work item was created.



- Depending on how often individual read access has to be configured, you can use the action in the Work Item Editor header or configure a presentation that exposes the "Restricted Access" attribute right within the editors. Queries and bulk modification are also supported.



Smart Card Authentication

- **RTC 3.0 meets the needs of high security environments**
- **CLI - Smart Card and Certificate Authentication support in the command line**
- The CLI login command now supports additional authentication flags. Users can authenticate to the server using a pki Certificate file via the --certificate switch. Users can also authenticate with a SmartCard attached to the machine via the --smartCard switch.
- **Jazz Build Engine Support**

```
jbe --smartCard --userid <user id> ...
```

```
jbe -certificateFile <certificate file path>
```



Shared Master Project Areas

- **Easily share a process across multiple RTC projects**
 - ▶ Increase governance on process configuration and changes allowed.

Process Sharing

Roles, permissions, preconditions and configuration data can be shared between project areas. A project area can choose to provide this information, consume this information, or not participate in sharing.

- Do not share this project area's process
- Allow other project areas to use this project area's process
- Use the process from another project area for this project area



What's new in RTC 3.0?

- **Distributed SCM**
 - ▶ *Cross Repository SCM Operations*
 - ▶ *More Flexible Change Set Linking Across Servers*
- **Enterprise Build Support**
 - ▶ *Out of the box Rational Build Forge Integration*
 - ▶ *Multiple Build Engine Types*
- **Enterprise Platform Enhancements (z and p)**
 - ▶ *ISPF "Green Screen" SCM Client*
 - ▶ *Dependency Based Builds / Impact Analysis*
 - ▶ *Promotion Models and Deployment*



Driving Business Differentiation



Customers want to share code changes across businesses

- ***“I need to work with other lines of business and even outside suppliers who need to share component code changes across RTC servers.”***
 - ▶ RTC 3.0 supports Distributed SCM across multiple RTC 3.0 servers.
 - ▶ Remote Development Pattern works across RTC 3.0 servers now

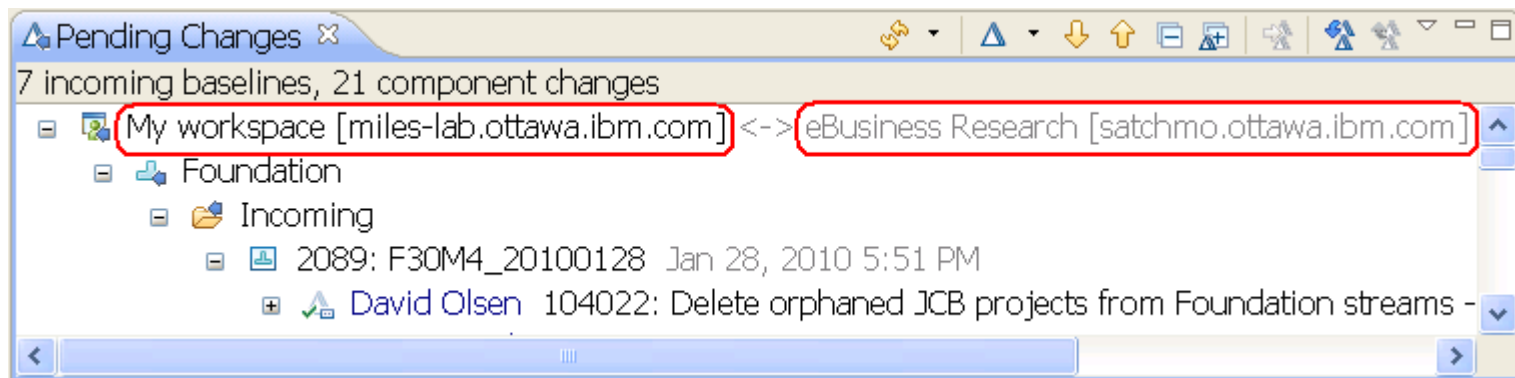
- ***“I need cross repository work item associations for my scm change sets.”***
 - ▶ *RTC 3.0 can now associate scm change sets with any work items in any RTC server or with ClearQuest (since it is an OSLC Change Management provider)*



Distributed SCM – Cross Repository SCM Operations

▪ Distributed source control

- ▶ You can now flow components and change sets between workspaces and streams hosted on different repositories. In the Pending Changes view, select a workspace and pick "Change Flow Target". The dialog now lets you pick a stream or a workspace from any repository you are connected to.
- ▶ You can turn this feature on or off on a per RTC server basis.
 - Web UI Server Configuration Advanced Properties page / Enable Distributed SCM property.



Rational Build Forge Integration with Flexible Build Engine Types

■ Support for Multiple Build Engine Types

- ▶ There are now multiple types of build engines: Jazz Build Engine, Rational Build Forge, and Rational Build Agent
- ▶ This allows the engine and its configuration to be shared across multiple definitions, and for definitions to support multiple engines. Different projects may now define their own engines.

New Build Engine

General Information
Choose an ID and engine type for the new build engine.

ID:

Description:

Available build engine types:

- Jazz Build Engine
- Rational Build Agent
- Rational Build Forge**

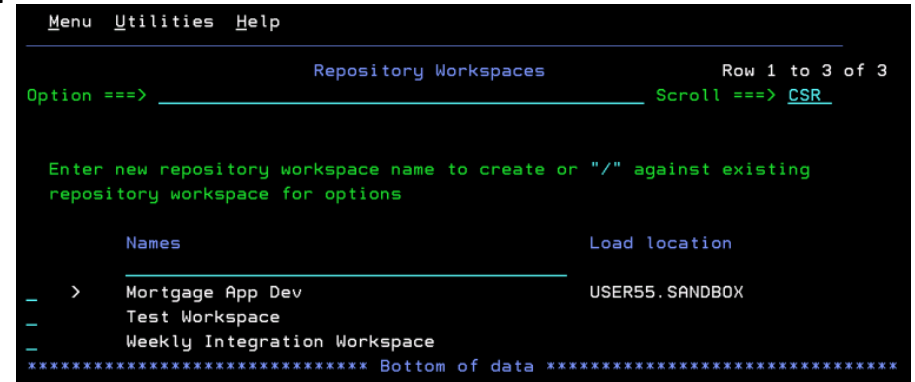
Description:
This build engine registration represents a connection to Rational Build Forge.

? Help < Back Next > Cancel Finish

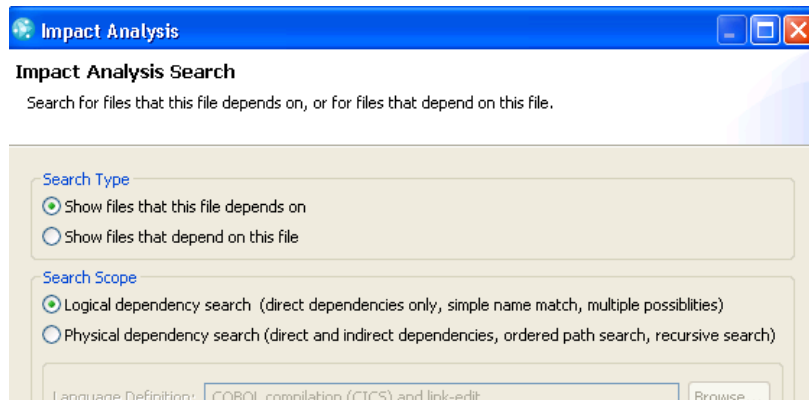


IBM Enterprise Platforms Enhancements (System z and Power)

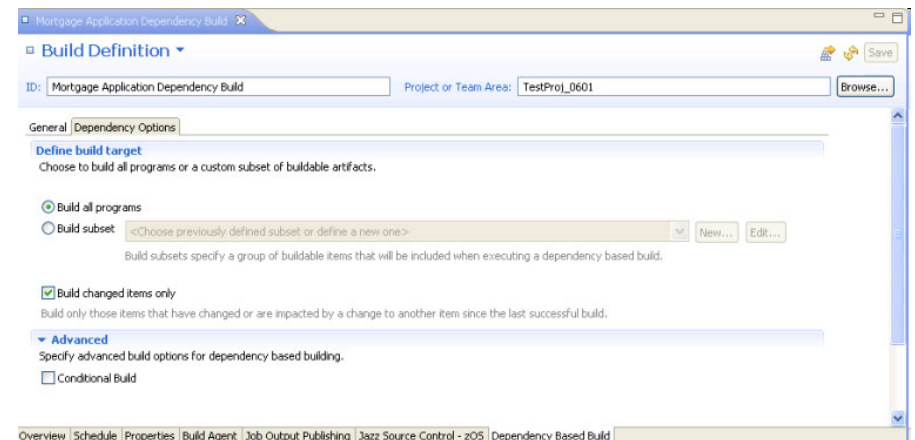
- UI for “Green Screen” ISPF RTC SCM client users (in all variants of RTC Developer)
- Build dependency and impact analysis for z/OS and IBM i development
- Support promotion through a development hierarchy (z/OS and IBM i)
- Deployment Support for z/OS, IBM I, UNIX and Linux systems



ISPF SCM Client



Impact Analysis



Dependency based build



What's new in RTC 3.0?

■ **Enhanced RTC Client for Microsoft Visual Studio IDE**

- ▶ *Team Advisor; Rich History with Visual Merge*
- ▶ *Annotate Support; Pre-Built Build Templates*
- ▶ *Static Analysis integrations with FxCop*
- ▶ *And much more...*



Driving Business Differentiation

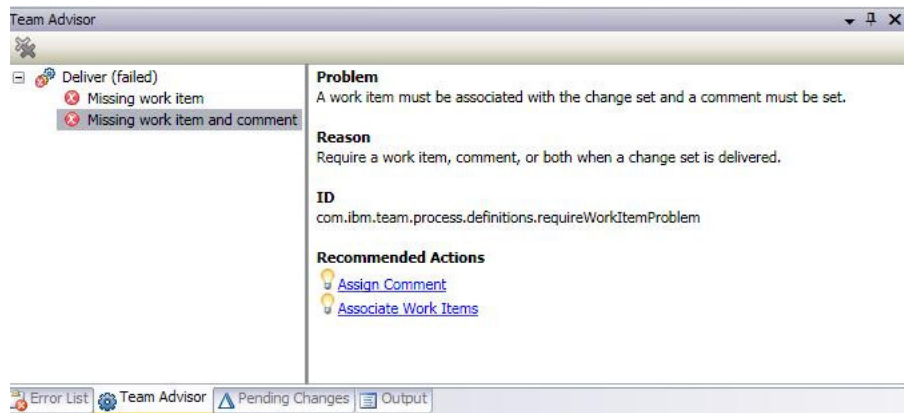
■ **Open Integrations to Your Existing Tools**

- ▶ *Extending CLM to DOORS 9.3 using OSLC*
- ▶ *Base ClearCase and Dynamic View Support*
- ▶ *OSLC Based ClearQuest Bridge*
- ▶ *Open Dashboard Mashups*
 - *Integrate with any Open Social Gadget*

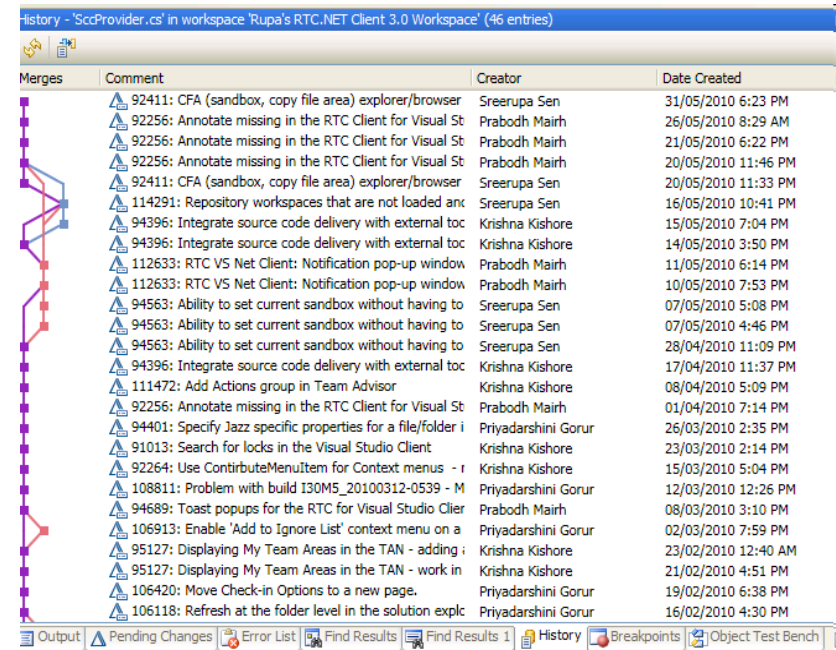


Enhanced RTC Client for Microsoft Visual Studio IDE

- Team Advisor Support
 - ▶ Pre-built rules – Static Analysis FxCop
- Rich History with Visual Merge



Team Advisor Support – with Guidance



Rich history view in VS client (Merge info displayed)



Jazz Build for Microsoft Visual Studio Solution

- Pre-Built Build Template
 - ▶ Choose MS-Build or Devenv
- Post Build Unit Testing
 - ▶ NUnit
 - ▶ MSTest
- Compile log and test results
 - ▶ Published back to build result

The screenshot shows the 'Build Definition' configuration window for a build named 'build.my.solution'. The 'Project or Team Area' is set to 'Build'. The 'Microsoft Build properties' section is expanded, showing the following configuration:

- Build Command:** Devenv (devenv.exe) MSbuild (msbuild.exe). The description is 'The build command to run (devenv or msbuild).'.
- Path to build command:** An empty text box. The description is 'Optional location of the build command (provide the location if the build command is not on the path).'.
- Solution file name:** . The description is 'Name of the solution file to build.'.
- Build Configuration:** . The description is 'Configuration to build.'.
- Build Type:** Build ReBuild. The description is 'Type of the build to run (example: Build, ReBuild).'.
- Build Log:** . The description is 'Specify the file to store the build log.'.

At the bottom, there is a navigation bar with tabs: Overview, Schedule, Properties, Jazz Source Control, Microsoft Build, NUnit Configuration, and MSTest Configuration. The 'Microsoft Build' tab is currently selected.



Extending CLM with a new DOORS 9.3 and RTC 3.0 integration

- DOORS 9.3 Integration for Requirements Change Management and Requirements Driven Development
- OSLC based integration with rich hover support.

The screenshot shows the DOORS 9.3 interface with a rich hover tooltip. The tooltip displays the following information:

Status	Resolution	Summary
New		Demonstrate linkage to DOORS

Details

Type:	Task	Tags:	
Severity:	Normal	Owned By:	Unassigned
Found In:	Unassigned	Priority:	Unassigned
Creation Date:	October 7, 2010 1:54 PM	Planned For:	Unassigned
Created By:	Brian Steele	Estimate:	
Project Area:	Demonstration	Time Spent:	
Filed Against:	Demonstration	Due Date:	Unassigned

Quick Information

- Subscribers (1): BS

Description

Now with Rich Hover!

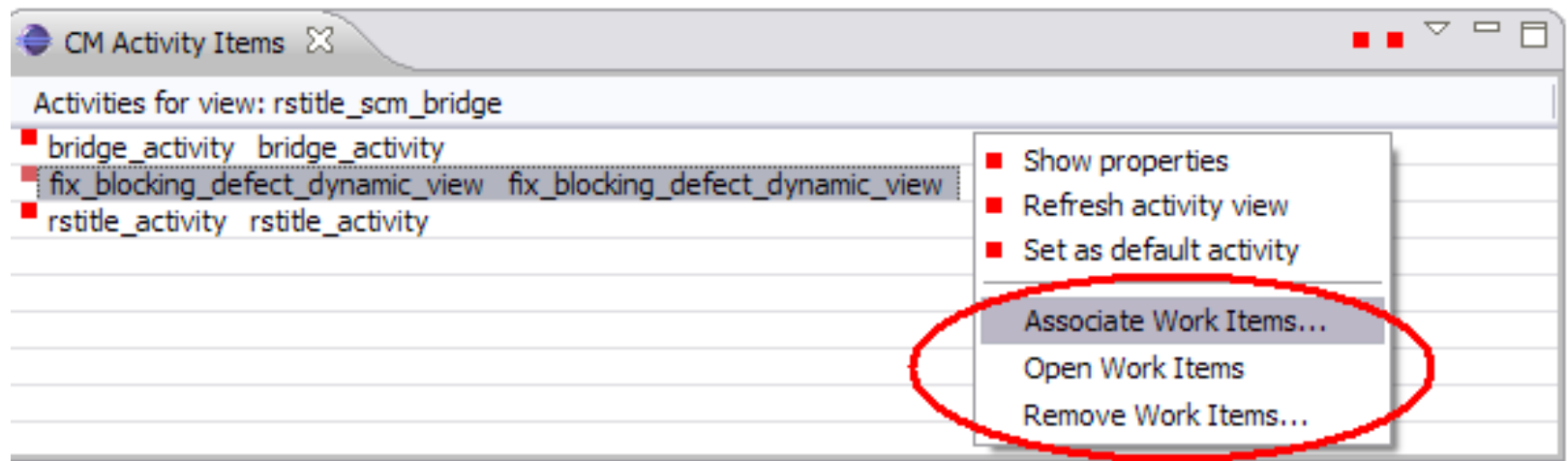
Open... [Details >>](#)

Rich hover in DOORS showing a related Work Item



Enhanced ClearCase and ClearQuest Bridges

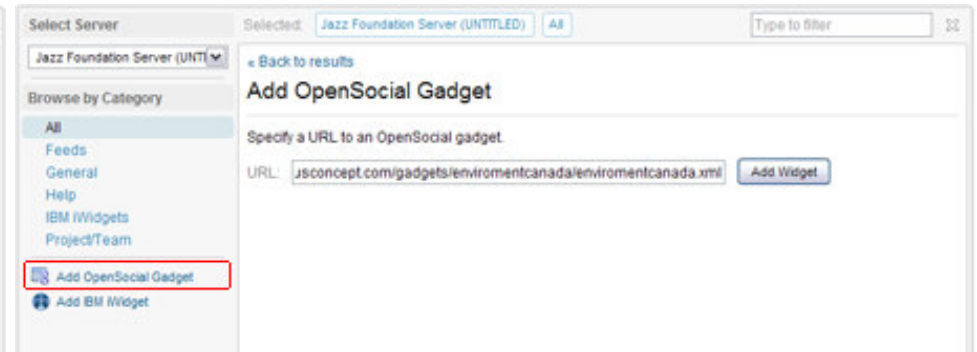
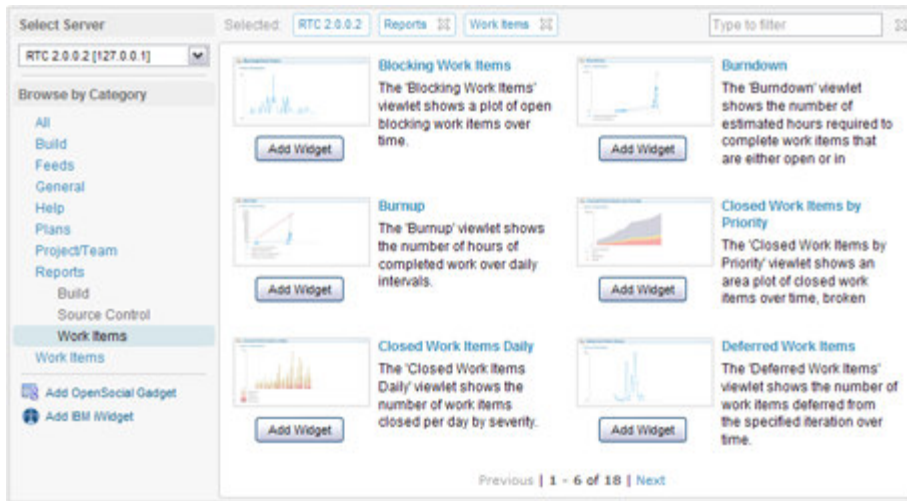
- Base ClearCase and Dynamic View Support
 - ▶ Enables ClearCase developers to use RTC work items and planning / project status
- OSLC based ClearQuest Bridge with rich hover support
 - ▶ RTC SCM change sets can link to ClearQuest tasks



ClearCase Dynamic view and RTC Work Item Association



Open Dashboard Mashups – Open Social Gadget support



▶ Rational Team Concert can integrate with any product that supports Open Social Gadgets (Google Gmail, etc..)

▶ Rational Asset Manager integrates with RTC using dashboard mashups.



Summary of RTC 3.0

- Any Plan
 - ▶ **Advanced Planning for Formal and Agile Teams**

- Any Process
 - ▶ **Flexible Customization and Configuration**
 - ▶ **Distributed SCM**
 - ▶ **Enterprise Build Support**

- Any Platform
 - ▶ **A single release for all platforms**
 - ▶ **Enterprise Platform Enhancements (z and p)**
 - ▶ **Enhanced RTC Client for Microsoft Visual Studio IDE**
 - ▶ **Open Integrations to your Existing Tools**

- With simple user based licensing and more flexible pricing options



Driving Business Differentiation



For more information/details ...

- See more details on new capabilities in Rational Team Concert 3.0 download pages at www.jazz.net
 - ▶ <https://jazz.net/downloads/rational-team-concert/latest>
- For the latest Collaborative LifeCycle Management information see:
 - ▶ <http://jazz.net/projects/rational-workbench-for-clm/features/>
- Try out the latest RTC in our sandbox (requires registration at jazz.net)
 - ▶ <https://jazz.net/sandbox/setup/web>



Driving Business Differentiation

