

IBM Software

UK Innovate 2010

The Rational Software Conference



Smarter software for a smarter planet.



IBM Software

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The Rational Software Conference

Collaborative Lifecycle Management Blazing the Trail with CLM

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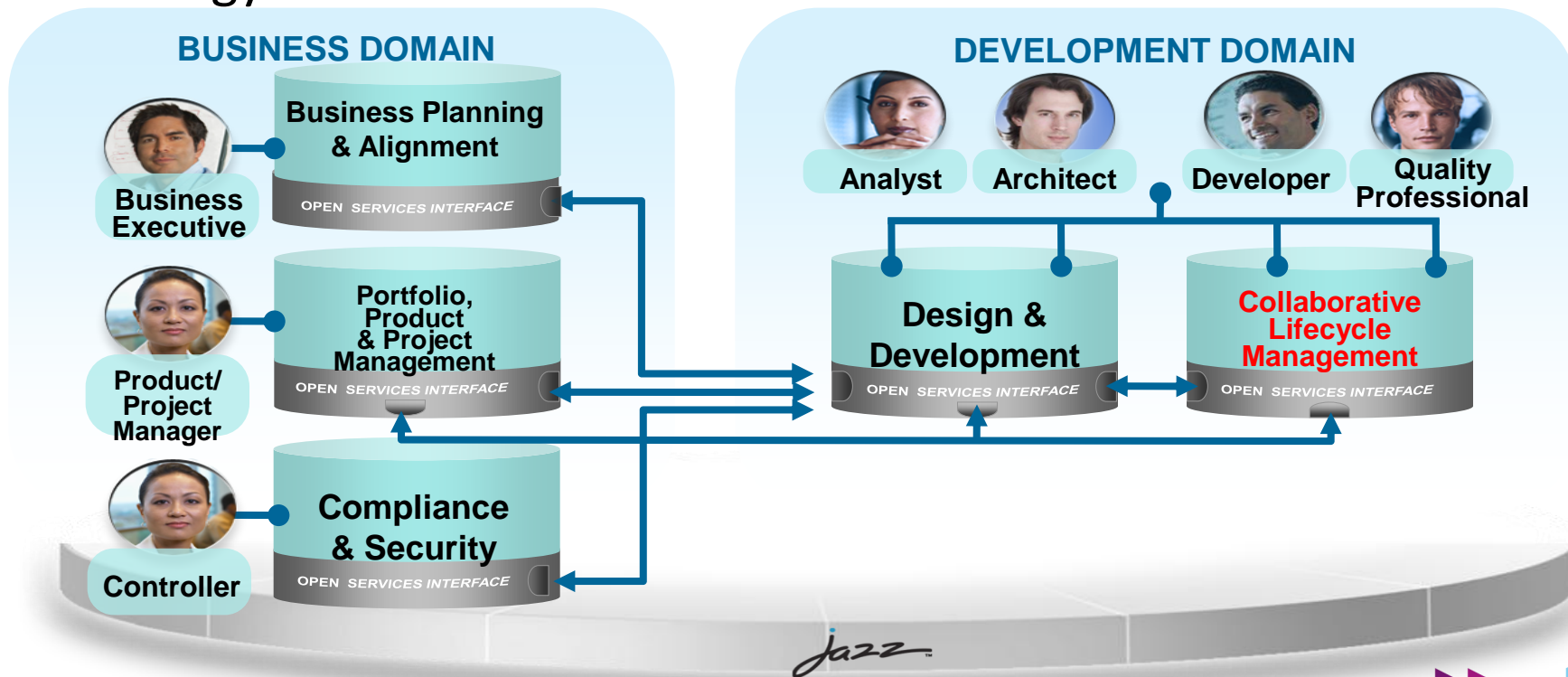
Smarter software for a smarter planet.



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Successful software delivery requires alignment of business and technology domains...



What is Collaborative Lifecycle Management?

Collaborative lifecycle management coordinates people, processes, and information in an iterative cycle of software and systems delivery activities that:

- ✓ **Meets domain-specific needs** while enabling a real-time flow of information and ideas
- ✓ **Improves collaboration across teams and geographies** by providing consistent access to team process, workflow and artifacts
- ✓ **Helps meet compliance requirements** through asset traceability and approval workflows
- ✓ **Provides the foundation for continuous capability improvement** through flexible, rules-based process enforcement, real-time reporting and integrated best practices
- ✓ **Reduces total cost of ownership** through streamlined and enterprise-ready deployment, security and administration.



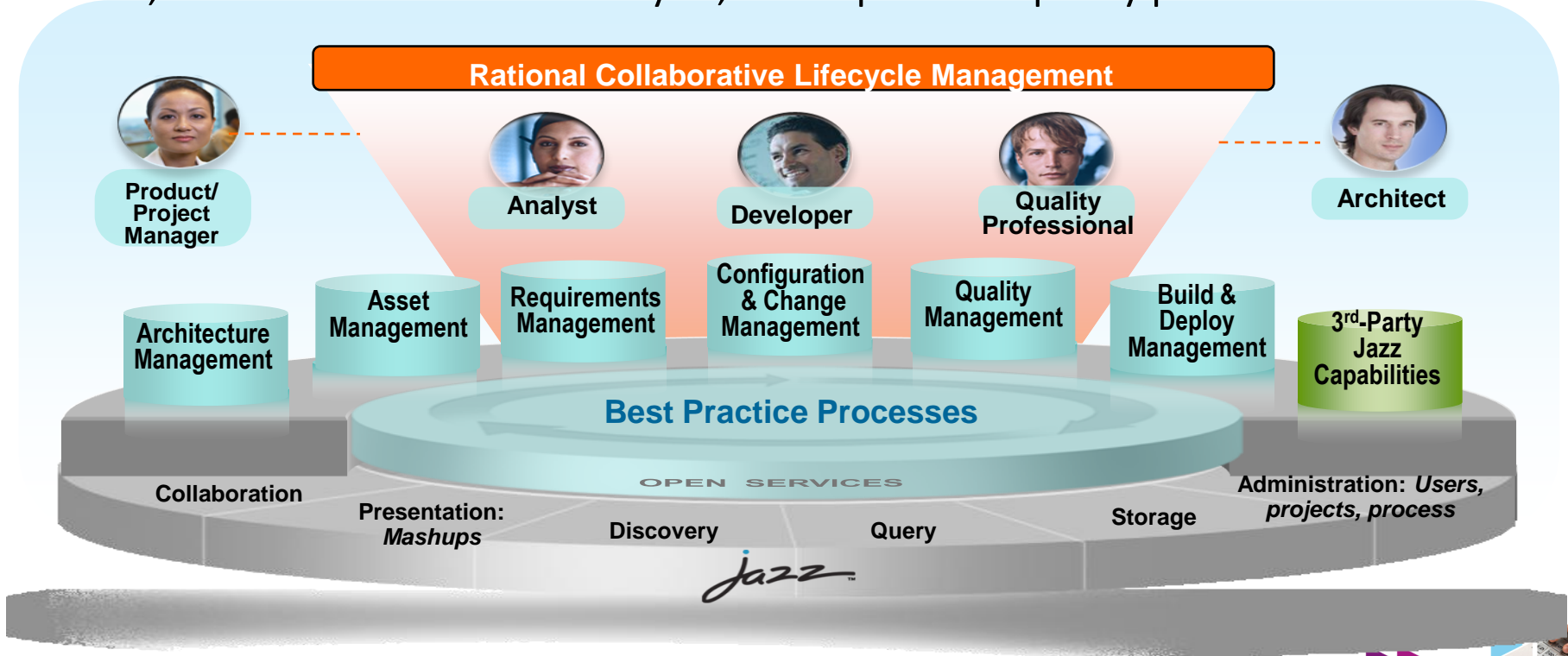
Feedback on our current CLM products

- By the end of 2009, we have shipped three major new Jazz-based products to coordinate the software development activities across requirements, development, build and test.
- Here is the feedback you gave us...
 1. *Simplify the packaging and licensing*
 2. *Simplify installation of multiple products*
 3. *Provide flexible deployment options*
 4. *Harmonize platform and language support*
 5. *Provide unified administration across the products*
 6. *Strengthen the scenario-based integrations*



Rational Collaborative Lifecycle Management

A robust, extensible solution for analysts, developers and quality professionals



Feedback we are addressing in 2010



- Simplify the packaging and licensing
- Simplify installation of multiple products
- Provide flexible deployment options
- Harmonize platform and language support
- Provide unified administration across the products
- Strengthen the scenario-based integrations



What we want to avoid...

Here Be Dragons

Added by Sarah Maddox [Atlassian Technical Writer], last edited by Andrew Lui [Atlassian Technical Writer] on Feb 10, 2010 (view change)



Beware, all ye who enter, for here be dragons! This is the starting point for the Atlassian Dragon Quest.

By the time you reach the end of this set of instructions, you will have an awesome Atlassian integrated development suite (details [below](#)). There's a good chance that the Atlassian Integration Dragon will scorch the clothes off your back somewhere along the way, so we'll also send you a free, limited-edition [Atlassian DragonSlayer T-shirt](#) when you have completed all the steps.

The Wins

When you have completed the final stage, you will have set up these Atlassian applications and features to work with each other:

- [JIRA](#) for bug tracking.
- [GreenHopper](#) for agile project management.
- [Confluence](#), the enterprise wiki.
- [FishEye](#) to open up your source repository.
- [Bamboo](#) for continuous integration.
- [Crowd](#) for user management and single sign-on.
- [Atlassian Gadgets](#).

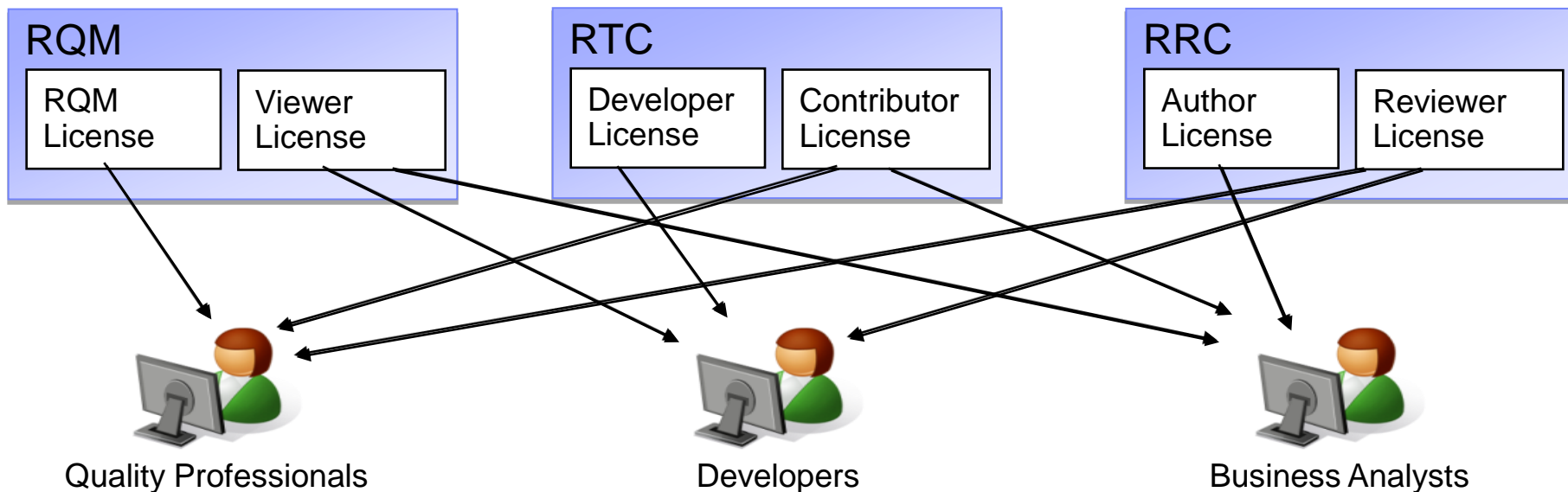
If you slay the dragon, you win a free, limited-edition [Atlassian DragonSlayer T-shirt](#) too.

How Long Will It Take to Slay the Dragon?

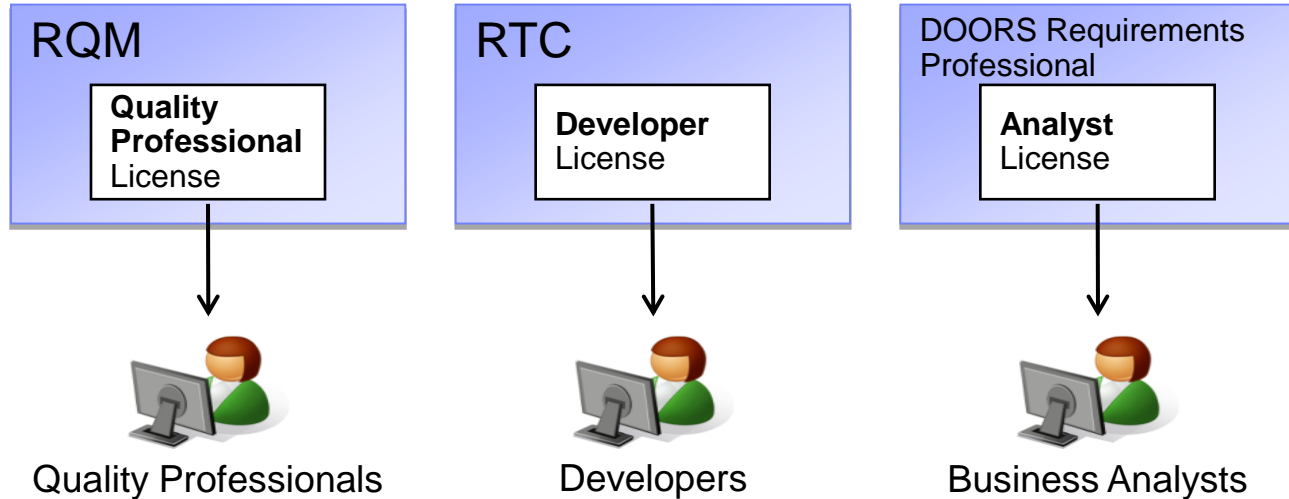
We estimate that it will take **5 hours** to complete all the stages.

Simplify the packaging and licensing:

- In the 2.0 products, creating a cross-domain CLM solution requires the purchase and administration of multiple licenses for each user



Simplified licensing across the CLM products



In this picture, just buy corresponding primary product license for members on the team

Each team member has read/comment access to the other two products

Floating licenses can be used to allow flexible full multi-product access

Idea: We are considering a Multi-role license that enables full access to all three products



Simplify the packaging and licensing: Normalizing license names and capability

License Type	Rational Team Concert	Rational Quality Manager	Rational DOORS Requirements Professional*
Developer	✓		
Quality Professional		✓	
Analyst			✓
Contributor	✓	✓	✓
Stakeholder	✓	✓	✓

All 3 products will share a single install

Contributor and Stakeholder roles are identical in all 3 products

* DOORS Requirements Professional is a placeholder name

Simplify the packaging and licensing



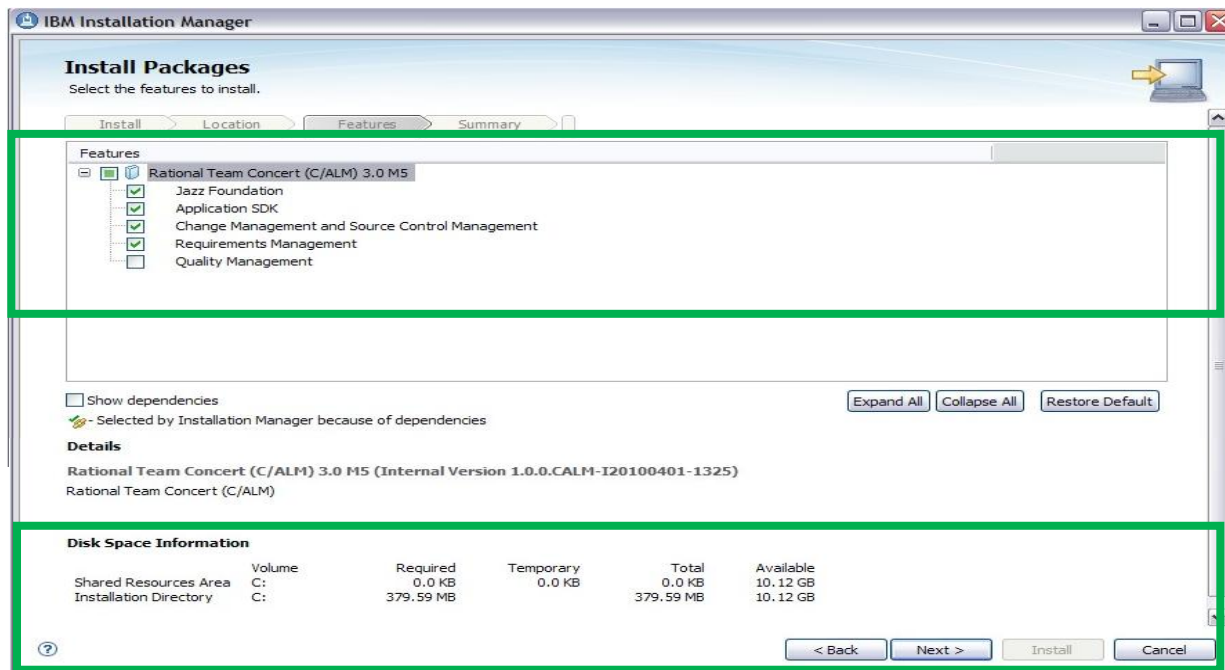
- Today we have multiple server editions (Express, Standard, Enterprise), with different capacity limits and prices and limitations on which CAL's can be used on which server edition. Need to track both client access licenses and server licenses.
- **Idea:** What if you only needed to track client access licenses? What if you had the flexibility to set up as many or as few servers as you needed in any configuration you wanted?
- **Idea:** What if there was only 1 server edition with no predefined limit, with entry pricing for small teams, all CAL's work on all servers, and smooth growth path without big price bumps?



Simplify the Installation

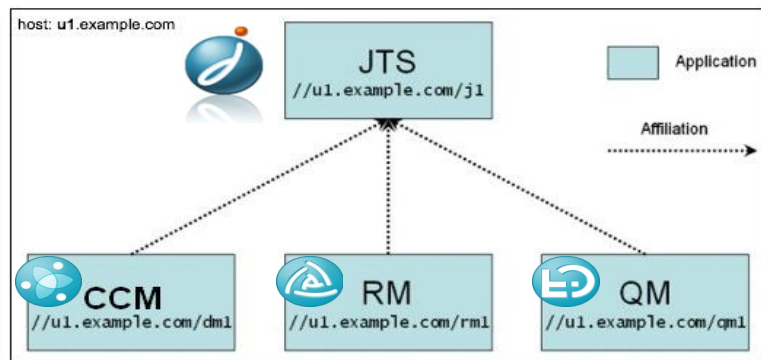
Provide flexible deployment options

- ▶ The Rational CLM products will have a single common server install
- ▶ Common services are shared
- ▶ Default:
 - ▶ Install on a single physical server and deploy the services onto a single Jazz Team Server as an “application group”.
- ▶ Advanced
 - ▶ Install Jazz Team Server separately
 - ▶ Deploy one or more services onto same or different physical servers, and associate them with a Jazz Team Server to create the complete application group

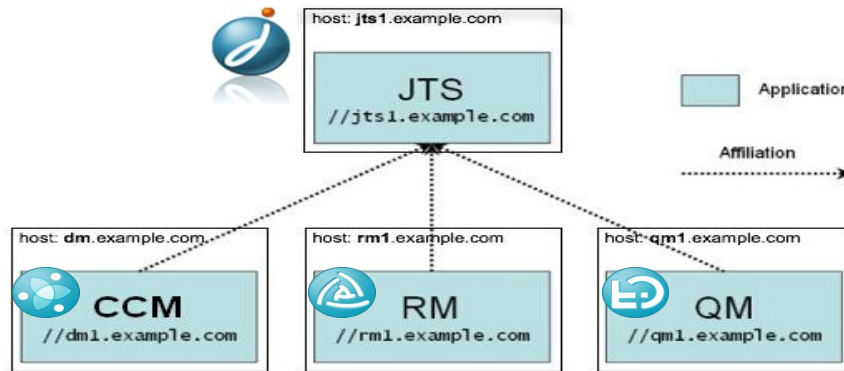


Provide flexible deployment options

- In the 2.0 products, each product includes its own Jazz Team Server
- In the future, the products can share a single Jazz Team Server



Deployment into a single application server



Deployment onto multiple application servers for increased scalability

- User accounts and licenses are managed centrally



Harmonize platform and language support

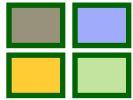
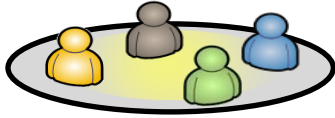
- The Rational Collaborative Lifecycle Management products will support the same:
 - Server operating systems
 - Application servers
 - Databases
 - Client operating systems
 - Eclipse versions
 - Web Browsers
 - International languages and locales



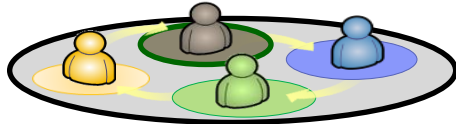
Inset: Team Topologies



Vertically aligned
> Centralized ALM Solution

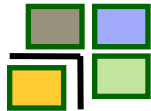


Divided by Function
> Integrated ALM Cloud

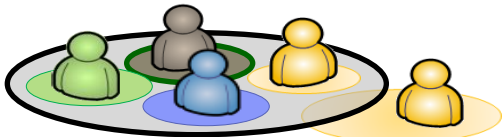


◀ **Integrated team with collaborative, transparent and automated workflows.**

◀ **Functional separation, organized by discipline and line organization**



Outsourced
> Secure and Connected

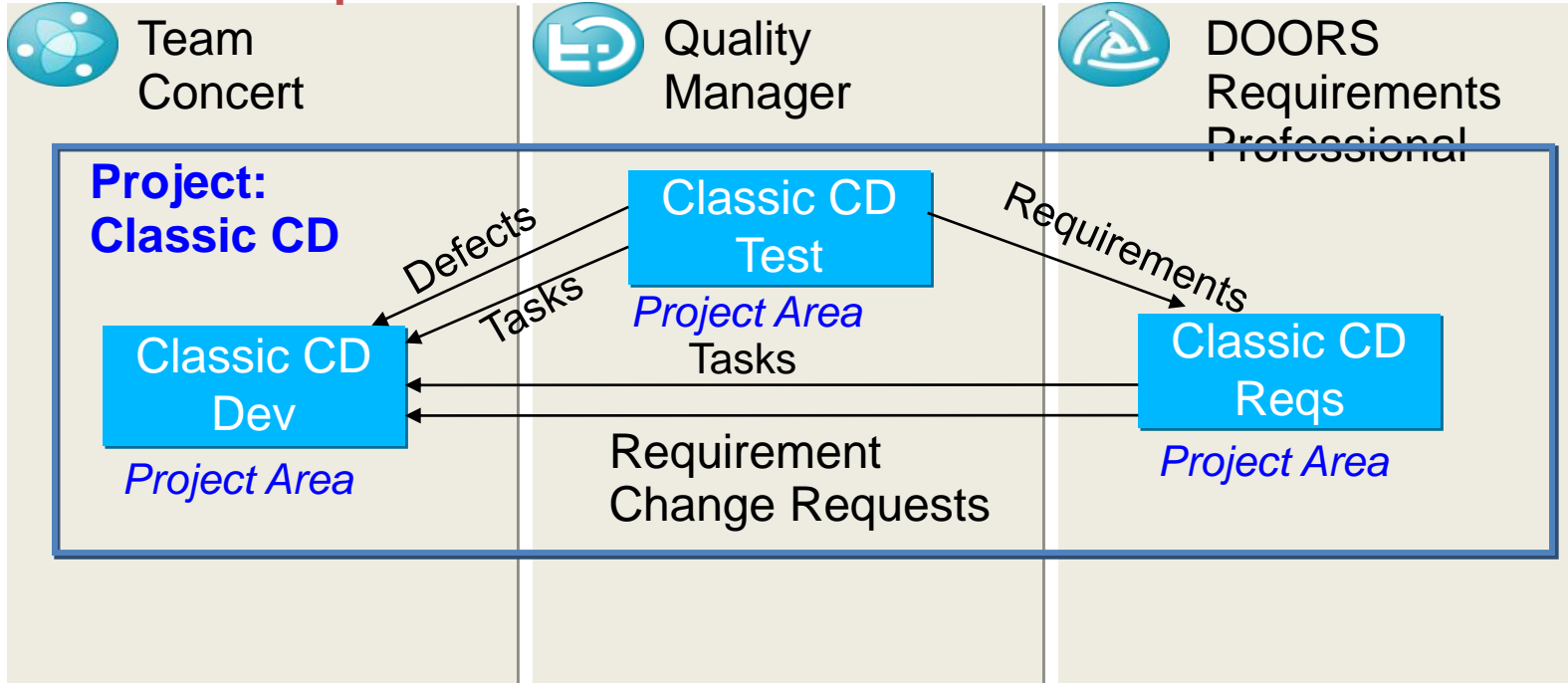


◀ **Organizations depending on functions and contributors outside corporate boundaries**



Demo Setup – Integrated Team – Shared Tasks

Host: **elba.example.com**



Provide unified administration across the products

In 2.0, you had to administer each product **separately**

- Link and associate each project area separately

In the future, there is **centralized:**

- Users/roles administration
- Project administration
- License administration

The screenshot displays the 'Common Project Administration' interface. At the top, there is a navigation bar with 'Projects', 'Members', and 'Templates'. Below this, the 'All Projects' section is visible. The first project listed is 'Classic CD'. Underneath it, there are links for 'Members: (show project members)', 'Configured Capabilities:', and a list of capabilities: 'Development', 'Quality Management', and 'Requirements Management'. A mouse cursor is hovering over 'Requirements Management', which has triggered a tooltip. The tooltip contains the following information: 'Context: Classic CD', 'Requirements Management Capability', 'Service providers:', 'Tasks: Classic CD', 'Requirement Change Requests: Classic CD', and 'Quality Management (Requirements): Classic CD'. Below 'Classic CD' is another project, 'CPAProject1', which also has a 'Members: (show project member)' link and a list of capabilities: 'Development', 'Quality Management', and 'Requirements Management'. The third project, 'Innovate Scheduler', also has a 'Members: (show project members)' link and a list of capabilities: 'Development', 'Quality Management', and 'Requirements Management'.

Create Projects from Templates

The screenshot shows the 'Common Project Administration' web interface. At the top, there is a navigation bar with 'ADMIN' and 'Log Out' links. Below the navigation bar, there are tabs for 'Projects', 'Users', 'Applications', and 'Templates'. The 'Templates' tab is selected, and the page title is 'Templates'. On the right side of the templates list, there are three buttons: 'Import Template', 'Deploy Predefined Templates', and 'Download Draft'. The main content is a table with three columns: 'Name', 'Summary', and 'Actions'. The table lists five templates, each with a 'Create' and 'Delete' link in the 'Actions' column. Below the table, there is a notification box with a blue header and a green footer. The blue header contains an information icon and the text 'Please wait while creating sample 'Rational Workbench for CLM'...'. The green footer contains a checkmark icon and the text 'Successfully created the sample 'Rational Workbench for CLM'. The following projects got created:'. The notification box also contains a list of three items, each with a checkmark icon and a description of a project area being created on a specific URL.

Common Project Administration ADMIN | Log Out

Projects Users Applications Templates

Templates

[Import Template](#) [Deploy Predefined Templates](#) [Download Draft](#)

Name	Summary	Actions
Rational Workbench for CLM	A template for projects with requirements management, quality management, and change and configuration management.	Create Delete
Rational Quality Professional-Integrated Team	A template for projects where the testing team is integrated into the development team with a separate requirements team.	Create Delete
Rational Quality Professional	A template for projects where the testing team is independent of the the development team with a separate requirements team.	Create Delete
Rational Workbench for Agile	A template for projects where the testing team is integrated into the development team.	Create Delete
Sample: Money that Matters	A template instantiating a full CLM sample application.	Create Delete

i Please wait while creating sample 'Rational Workbench for CLM'...

- ✓ Setting up cross server communication
- ✓ Creating project area 'Example Project' on 'https://jazzsandbox:9443/jazz'
- ✓ Creating project area 'Example Project' on 'https://jazzsan
- ✓ Creating project area 'Example Project' on 'https://jazzsan

Setting up project links

✓ Successfully created the sample 'Rational Workbench for CLM'. The following projects got created:

- [Example Project](#) on https://jazzsandbox:9443/rqm
- [Example Project](#) on https://jazzsandbox:9443/jazz
- [Example Project](#) on https://jazzsandbox:9443/rtc





To improve coordination and visibility, look for ways to **collaborate** across the software delivery process

Collaborate
Drive organizational consensus on priorities and improve workforce productivity

- Collaborate on plans
- Shared tasks
- Traceability for everyone
- Transparency for everyone

The Business Process of Software & Systems Delivery



Strengthen the scenario-based integrations

- Collaborate on plans
 - Link Development Plans, Test Plans and Requirements Collections
- Collaborate throughout iterations
 - Share development, quality tasks, defects, requirements change requests
 - More link types for establishing artifact relationships (in addition to implements, tests, validates link types)
- Collaborate on determining when you are done
 - Improved traceability views, reports, queries
 - In-context link previews
- Be more open
 - OpenSocial and IBM iWidget support in dashboards
 - Host a CLM dashboard gadget in an OpenSocial container





Sharable Gadgets

Work items gadget in Open Social Containers (iGoogle, gmail)



Google Search

I'm Feeling Lucky

Show this page every time I start to browse the web. [Make iGoogle my homepage](#)

Home

- Google Calendar
- CNN.com
- Weather
- IBM Stock
- Jazz Community Ne...
- All Open

Another Tab

- Date & Time
- gm_countdown.xml

Updates

- Friends

Chat

Search, add, or invite

Dejan Glozic

Set status here

Chat with friends in iGoogle!

Rather stay

All Open

- 3: CompositeRunner.filter incorrect if child throws NoTestsRema
- 4: BaseTestRunner.getTest() requires class to extend TestCase
- 8: assertThat signature does not match Matcher
- 9: assertThat fails with Class tests (documentation problem)
- 10: Who's responsible to deploy in maven central repository?
- 11: No download link to latest version
- 12: timeout doesn't work properly for >=2 cases in junit4.3?
- 13: Tests on protected methods fail
- 18: distribution cookbook out of date
- 23: suite() method should not matter for JUnit 4 tests

Page 1 of 3

Google Calendar

June 2010						
S	M	T	W	T	F	S
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

Today (Tue, Jun 1)

- 9:00am Jazz Foundation Deep Dive

Tomorrow (Wed, Jun 2)

- 8:00am Jazz Foundation PMC

Wed, Jun 9

- 8:00am Jazz Foundation PMC

Tue, Jun 15

- 9:00am Jazz Foundation Deep Dive

[Today](#) | [Add](#) | [Options](#)

Gmail | [Calendar](#) | [Documents](#)

- [Compose Mail](#)
- Inbox**
- [Buzz](#)
- [Starred](#) ★
- [Sent Mail](#)
- [Drafts](#)
- [Personal](#)
- [Travel](#)
- [6 more](#)
- [Contacts](#)
- [Tasks](#)

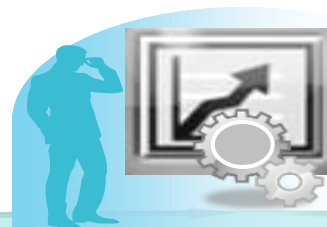
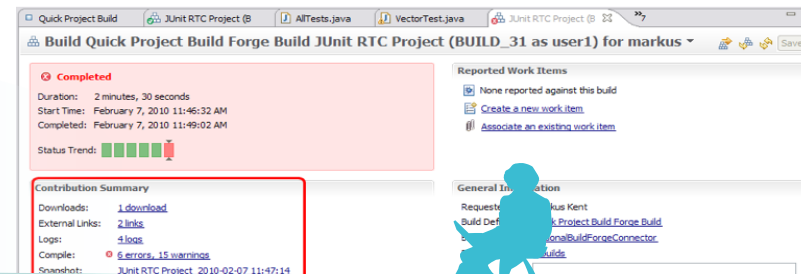
+ Dejan Glozic

Search, add, or invite

All Open

- 3: CompositeRunner.filter incorrect if child throws NoTestsRema
- 4: BaseTestRunner.getTest() requires class to extend TestCase
- 8: assertThat signature does not match Matcher
- 9: assertThat fails with Class tests (documentation problem)
- 10: Who's responsible to deploy in maven

To increase efficiency, look for ways to *automate* the business process of software delivery



Automate
Lower costs and improve quality by automating workflow based on real-time information

The Business Process of Software & Systems Delivery



Improving how you Build - deepening the integration with Build Forge

- Embedded Build Forge client and server plug-in
 - The UI and integration is just "in" RTC.
 - You no longer have to unzip the BuildForgeConnectorServer.zip on the server side or go into Software Updates on the Eclipse client.
- Build Forge can run your existing RTC build tasks
- Use the Build Forge engines and delegate to other build engines

New Build Definition

General Information
Choose an ID, description, and build template for the new definition.

ID:

Description:

Available build templates:

- Ant - Jazz Build Engine
- Command Line - Jazz Build Engine
- Generic
- Maven - Jazz Build Engine
- Rational Build Forge**

Build Quick Project Build Forge Build JUnit RTC Project (BUILD_31 as user1)

Completed
Duration: 2 minutes, 30 seconds
Start Time: February 7, 2010 11:46:32 AM
Completed: February 7, 2010 11:49:02 AM
Status Trend:

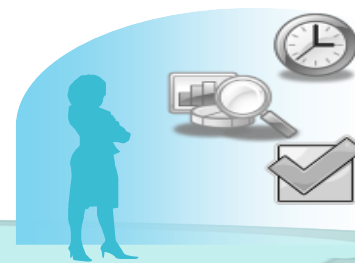
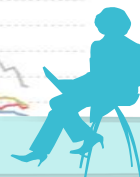
Contribution Summary

- Downloads: [1 download](#)
- External Links: [2 links](#)
- Logs: [4 logs](#)
- Compile: [6 errors, 15 warnings](#)
- Snapshot: [JUnit RTC Project_2010-02-07 11:47:14](#)
- Work items: [2 included in build](#)
- Changes: [Show changes](#)

General Information

Requested by: Markus Kent
Build Definition: [Quick Project Build](#)
Build Engine: [RationalBuildForge](#)
Build History: [6 builds](#)
Tags:
 Deletion allowed

To ensure progress towards business outcomes,
look at how to **report** on the software delivery process



Traceability reports for requirements, development and test

Report
Continuously improve by measuring progress against desired business outcomes

The Business Process of Software & Systems Delivery



Reporting Overview

- Includes a common data warehouse for cross-product reporting
 - Converges Insight and RTC schemas
- Reporting components will be delivered in two packages:
 - Small footprint base package included in Jazz Foundation Server install
 - BIRT engine
 - Rational Publishing Engine
 - Large footprint optional package for Cognos BI reporting
 - provided as separately downloadable install



Cross Product Report Example - BIRT

Traceability from requirements to test execution to defects

Rational Quality Manager Your Server Trial License expires in 10 days | tony | Log Out | Type to Search

Admin | Preferences | Classic CD Test project

Dashboards | Reports | **Traceability - Requir...**

Traceability - Requirement, Test Plan, Test Case, TER, Defect

Traceability report

Requirement	Test Plan	Test Case	TER	TER Result	Defect	Defect State
Add CD to Cart	Classic CD V3.1	Add CD to Cart	Add CD to Cart_windows 2003_DB 2	Failed	Failing Test Case "Add CD to Cart" when executing Test Execution Record "Add CD to Cart_windows 2003_DB 2"	New
Checkout	Classic CD V3.1	Checkout	Checkout_windows 2003_DB 2	Failed	Failing Test Case "Checkout" when executing Test Execution Record "Checkout_windows 2003_DB 2"	New
Order Status	Classic CD V3.1	Order Status	Order Status_windows 2003_Oracle 10g	Passed		
Remove CD from Cart	Classic CD V3.1	Remove CD from Cart	Remove CD from Cart_windows 2003_SQL server 2005	Failed	Failing Test Case "Remove CD from Cart" when executing Test Execution Record "Remove CD from Cart_windows 2003_SQL server ..."	New
					Failing Test Case "Remove CD from Cart" when executing Test Execution Record "Remove CD from Cart_windows 2003_SQL server ..."	New

- Requirements
- Planning
- Construction
- Lab Management
- Builds
- Execution
- Reports
- Defects

Cross Product Report Example - Cognos

Traceability from requirements to test execution to defects

Rational Quality Manager Your Server Trial License expires in 10 days | tony | Log Out | Type to Search

Admin | Preferences | Classic CD Test project

- Requirements
- Planning
- Construction
- Lab Management
- Builds
- Execution
- Reports
- Defects

Dashboards |
 Reports |
 Traceability - Requir...

Traceability in CALM - Requirement, Test Case, TER, TER Result, Defect

Parameters

Project Area: RQM
 Test Plan: Classic CD V3.1

Traceability - Requirement, Test Case, TER, TER Result, Defect

Requirement	Test Case	Test Plan of TER	TER	Execution Result	Defect	Defect State
Add CD to Cart	Add CD to Cart	Classic CD V3.1	Add CD to Cart_windows 2003_DB 2	Failed	Failing Test Case "Add CD to Cart" when executing Test Execution Record "Add CD to Cart_windows 2003_DB 2"	New
Checkout	Checkout	Classic CD V3.1	Checkout_windows 2003_DB 2	Failed	Failing Test Case "Checkout" when executing Test Execution Record "Checkout_windows 2003_DB 2"	New
Order Status	Order Status	Classic CD V3.1	Order Status_windows 2003_Oracle 10g	Passed		
Remove CD from Cart	Remove CD from Cart	Classic CD V3.1	Remove CD from Cart_windows 2003_SQL server 2005	Failed	Failing Test Case "Remove CD from Cart" when executing Test Execution Record "Remove CD from Cart_windows 2003_SQL server ..."	New
					Failing Test Case "Remove CD from Cart" when executing Test Execution Record "Remove CD from Cart_windows 2003_SQL server ..."	New

About This Report

This report shows the traceability of Requirements that are associated with Test Cases, TER, current TER result, the summary and status of the defects filed on executing the TER. The requirements are from RDRP and defects are from RTC.



We are all connected



Rational Asset Manager – Integrated with Jazz

re the repository with asset types, category schemas, review processes, and user roles.

Credit Verification Service Release

Credit Verification Service Release

Version: 1.0

State: Submitted

Community: Sample Application Development

Type: Release

Summary: The service verifies the customer's credit who wants to open an insurance policy with the company.

Owners: Timothy J. Hahn
Jim Caldwell

Related: Specification (1), Release For (2), Test (1), Design (1), ...

Show More

Service discovery

Recent Submissions

- Credit Verification Service Release
- Customer Care Business Application
- Credit Ver... Credit Verification Service Release
- Test
- Test
- Vote Test
- WebSphere Application Server 7.0 Fix Pack 7 (32-bit)
- Rational Team Concert 2.0.0.2 iFix 1
- Log-4j
- Credit Verification Service Implementation (Windows)

Compact rendering

Links

Selection Dialogs

- Test Case Selection
- Test Plan Selection

Creation Dialogs

- New Test Case
- New Test Case
- New Test Plan
- New Test Plan

Connections

- RQM VM Connection ▶ Service Providers
- RTC VM ▶ Quality Manager ▶

The service verifies the customer's credit who wants to

Jun 1, 2010

<http://www.jkhle.com/creditverification/coo.html>

- 1: Credit Service Test Plan
- 66: Create Specifications for Credit Verification Service

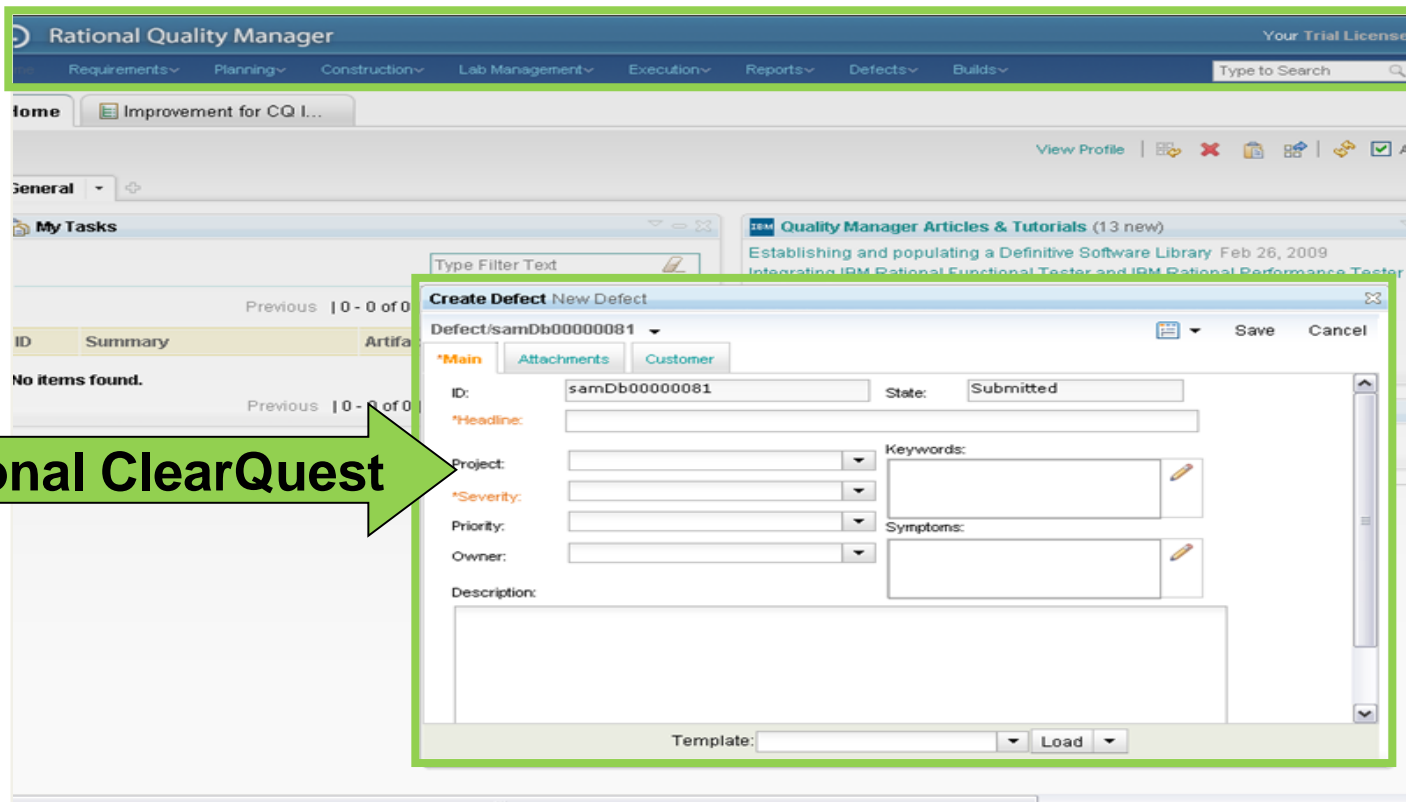
Add link to resource...

Add link...

Add link...



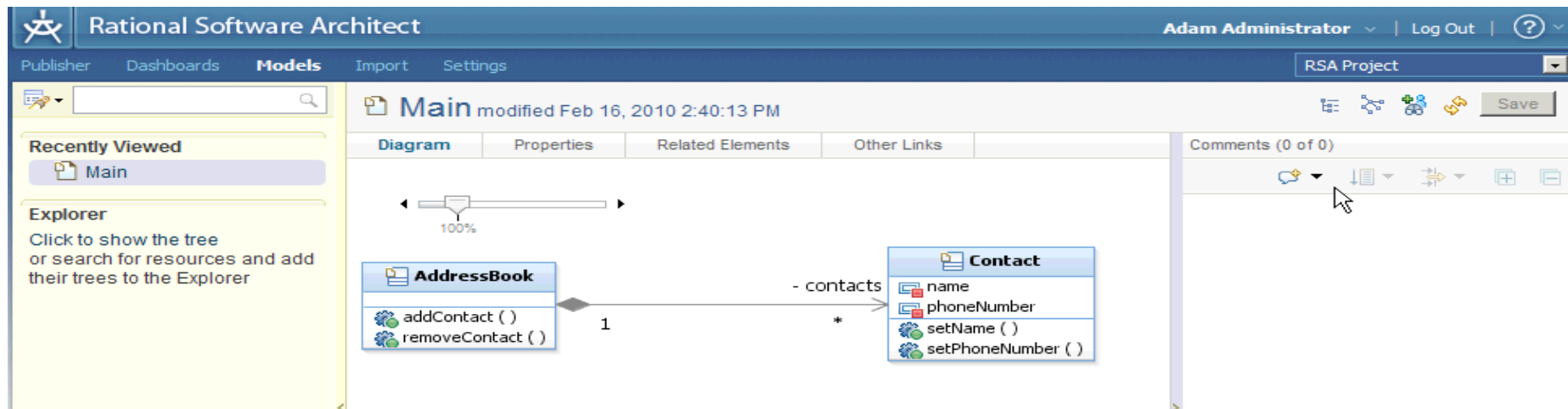
ClearQuest is Integrated with Jazz



IBM Rational ClearQuest



Collaborative Architecture Management – Built with Jazz



Links to Team Concert

The screenshot displays the Rational Software Architect interface with several key components:

- Work Item Selection Dialog:** A yellow callout box labeled "Link creation" points to this dialog. It shows a search for work items with the criteria "Work Item ID or Words Contained in the Text: **". The results list includes:
 - 3: Share code with Jazz Source Control
 - 7: Define vision
 - 6: Define team members
 - 4: Define iterations
 - 5: Define categories and releases for work items
 - 2: Define a new build
 - 8: Define permissions
 - 1: Define an iteration plan
- Add Link Dialog:** A red-bordered dialog box titled "Add Link" is shown. It has fields for "Server" (set to "Rational Team Concert (rtc1:9443)"), "Project" (set to "Sample Project"), and "Link To" (with a "Browse" button). There is also a "Description" text area and "OK" and "Cancel" buttons.
- 7: Define vision Work Item Detail:** A yellow callout box labeled "Compact rendering" points to the details of work item "7: Define vision". The details are presented in a compact, structured layout:

Status	Resolution	Summary
New	New	Define vision

Details

Type:	Task	Tags:	
Severity:	Normal	Owned By:	Project Administrator
Found In:	Unassigned	Priority:	Unassigned
Creation Date:	May 12, 2010 1:20 PM	Planned For:	Unassigned
Created By:	Project Administrator	Estimate:	
Team Area:	Sample Project Team / Sample Project	Time Spent:	
Filed Against:	Sample Project	Due Date:	Unassigned

Quick Information

 - Subscribers (1): PA

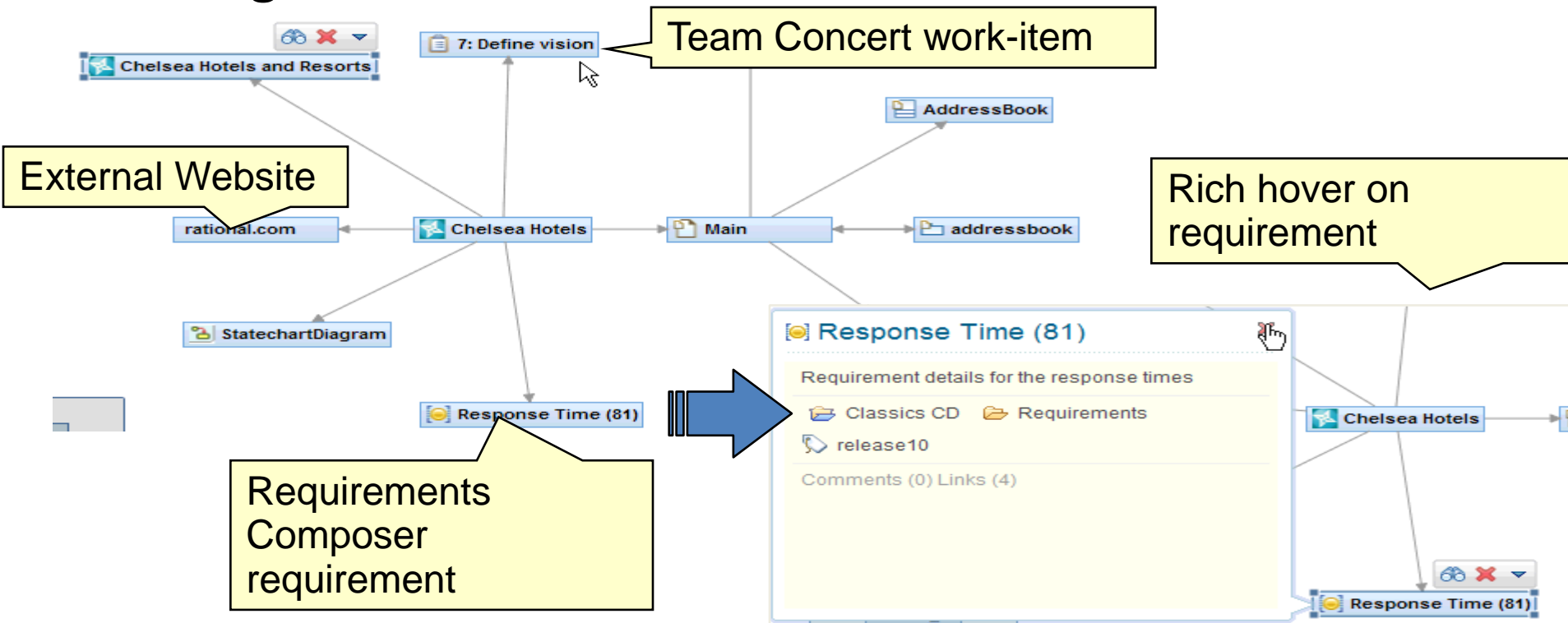
Description

Define the vision for the future system. Describe the problem and features based on Stakeholder requests.

The solution is proposed for a problem that everybody agrees on. Stakeholders collaborate with the

Show More

Viewing all links



Focal Point

Rational Focal Point

Workspaces | Home | Preferences | Admin | Help | Log Out

Product Management

Display > Releases

Releases (1/1)

- Focal Point Next Gen

Focal Point Next Gen

General Information

ID: 1

Title: Focal Point Next Gen

Description: Next generation of Focal Point

Version: 2.0.2

Product: Focal Point

Related Business Needs: **NEW** 109: Notifications on workflow transitions

Associated Plan Items: 19: As a project manager I need notifications on state transitions

Positioning

Target Market:

- ↑ Telecom
- ↑ Banking & Finance
- ↑ ISV
- ↑ APAC
- ↑ SA
- ↑ NA
- ↑ EMEA

Work Item Selection

Project Area: Focal Point Project

Type: (Show All)

Use Work Item ID or Words Contained in the Text: 3 result(s)

Notifications

Matching Work Items:

- 23: Action on notifications
- 22: Form based notifications
- 19: As a project manager I need notifications on state transitions

OK Cancel

19: As a project manager I need notifications on state transitions

Status Summary

➔ New As a project manager I need notifications on state transitions

Details

Type: Story

Filed Against: Focal Point Project

Story Points: 3 pts

Progress: 0%

Project Area: Focal Point Project

Creation Date: May 23, 2010 12:39 PM

Created By: Mikael Lönneberg

Tags: Unassigned

Owned By: Unassigned

Priority: Unassigned

Planned For: Unassigned

Quick Information

Subscribers (1): ML

Description

We need to be able to send notifications on state transitions



Drinking our own Champagne

How we self-host

Let's build a smarter planet.



Blocked Test Execution

Defect 108597

Summary: * server exception error attempting to modify v3.0 RTC Plan when project is Implemente

Overview Links Approvals History

Attachments

Add File: no file selected

ID	Name	Size	Created by	Date
34842	jazz.log	5 KB	Mark Gravina	Last Week
34841	server1_exception.log	1 KB	Mark Gravina	Last Week
34840	server1_bd20bd2_10.03.10_15.08.26.0454957766456884615265.txt	24 KB	Mark Gravina	Last

Links

Add: Related

Affects Test Execution

↳ Related Execution Results: ETE_RTC_Integ_Dev_Lead_04_Jazz Integrations

Blocks Test Execution

↳ Failing Test Case "ETE_RTC_Integ_Dev_Lead_04" when executing Test Execution Record "ETE_RTC_Integ_Dev_Lead_04_Jazz Integrations"

Mentions

↳ Mark Gravina

↳ Martin Aeschlimann

Mentioned By

↳ Defect-108785-BIRT-initiated-thread-accesses-TeamServiceContext

Shared Queries

- ▶ Predefined
- ▼ C/ALM Traceability Queries
 - Defects blocking tests
 - Plan items with failing tests
 - Plan items with no test executions
 - Plan items tested successfully (current iteration)

Karen Hess

Mark Gravina

Mathieu Lapensee

Erich Gamma's Dashboard

Home Team PMC **New tab**

Defects affecting tests (1)

- ▼ 104942: Test Defect
 - Related Execution Results: ETE_RTC_Integ_Dev_Lead_04_Jazz Integrations



Resources

- Join the community:

- Jazz.net
- Open-services.net

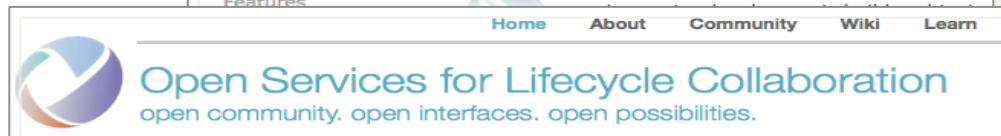
- IBM.com

- Gartner Marketscope
- Jazz Revolution video

<http://www-01.ibm.com/software/rational/jazz/>

- InfoQ.com

<http://www.infoq.com/articles/scaling-agile-with-calm>



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questions





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