



IBM Software Group | Rational software

Rational Requirements Composer Drinking Our Own Champagne JAOO Oct 6th 2009

Rational. software



@business on demand.

DISCLAIMER

- This presentation represents future product direction and strategy and is presented based on best information available. It may change in the future.

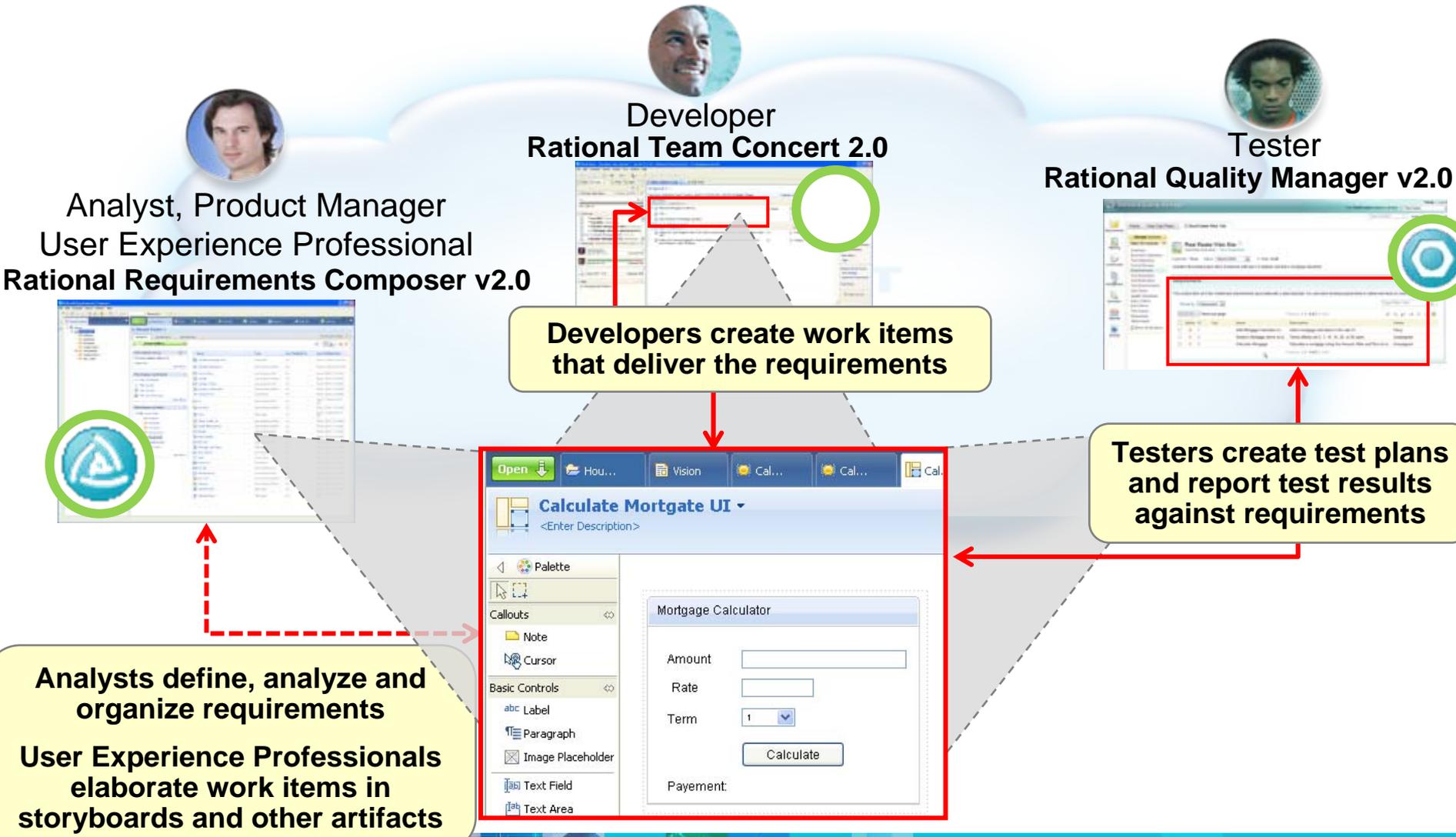


Information

© **Copyright IBM Corporation 2009. All rights reserved.** The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way. IBM, the IBM logo, Rational, the Rational logo, Telelogic, the Telelogic logo, and other IBM products and services are trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.

C/ALM - Align development and test activities with requirements

Breakdown silos for better project execution



Traceability – Dashboard Views on rich client

- Filters in project dashboard, Links to development and test items in dashboard, rich hovers

The screenshot shows the 'Requirements' dashboard with a table of requirements. A dialog box titled 'Customize project page display' is open, allowing users to select and reorder columns for the dashboard view.

Name	Development Items	Test Cases	Last Modified By	Last
AnotherReq			Marc Baumbach	Sep 2 PM
MyReq5			Marc Baumbach	Sep 2 PM
AnotherTest			Marc Baumbach	Sep 2 AM
TestRequirement	Story 9: Test creation from RRC	Test Case 1: TestRequire...	Marc Baumbach	Sep 2 AM
	Story 10: This is my summary	Test Case 7: Marcs Req		
	Story 26: Testing			
AnotherTest2			Marc Baumbach	Sep 2
BasicReq				
BigTest				
ReqFromReq2				
ReqFromReq				

Customize project page display

Check the columns you would like to display in this view. Use the Move Up and Move Down buttons to reorder (left to right) the columns.

Name	Width
<input checked="" type="checkbox"/> Name	170
<input checked="" type="checkbox"/> Development Items	200
<input checked="" type="checkbox"/> Test Cases	170
<input checked="" type="checkbox"/> Last Modified By	121
<input checked="" type="checkbox"/> Last Modified Date	121
<input type="checkbox"/> Managed Requirement	121
<input type="checkbox"/> Feature:Type	100
<input type="checkbox"/> Feature:Priority	100
<input type="checkbox"/> Feature:Status	100
<input type="checkbox"/> Feature:Difficulty	100

Traceability – Links on editor sidebar on rich client

- Links to development and test items in sidebar and rich hovers

The screenshot displays the IBM Rational software interface for editing a TestRequirement. The main editor area shows a rich text document with placeholder text and a table of links. The sidebar on the right provides a structured view of the requirement's relationships.

TestRequirement (6)
 <Enter a Description>
 Requirement Type: Feature

Information

- Overview
- Comments (1)
- Requirements (0)
- Links (6)
 - Outgoing Links (0)
 - Incoming Links (1)
 - TestDoc
 - Implemented By (3)
 - Story 9: Test creation from RRC
 - Story 10: This is my summary
 - Story 26: Testing
 - Validated By (2)
 - Test Case 1: TestRequirement
 - Test Case 7: Marcs Req

Table of Links:

Status	Summary
New	This is my summary

Details

Type:	Story	Created By:	TestJazzAdmin1
Filed Against:	Category 1	Tags:	
Story Points:	2 pts	Owned By:	TestJazzAdmin1
Progress:		Priority:	High
Team Area:	Team 1 / Scrum Project	Planned For:	Release 1.0
Creation Date:	September 19, 2009 1:05 AM		

Quick Information

- Subscribers (1): T
- Implements Requirement (1)
- Tested By (1)

Description

This is a test with a [link](http://www.ibm.com) included.

Purpose

- Give you a vision of how IBM Rational® Requirements Composer (RRC) can improve team performance and project outcomes
- Use the RRC product team's experience as a case study
 - ▶ Where the whole team authors content in the development of Version 2
- Show you a “real” usage model that is improving the product
 - ▶ Rational “Drinking our own Champagne!” Campaign
- Get you thinking about how you and your teams can benefit from RRC



Rational Tools Used During RRC Development

- Rational Requirements Composer
 - ▶ Requirements definition and refinement
- Rational Team Concert
 - ▶ Collaborative development
- Rational Quality Manager
 - ▶ Test management system: test planning, construction, and execution
- Rational Performance Tester
 - ▶ Performance testing tool used to identify the presence and cause of system performance bottlenecks

For more information please visit the following on Jazz.net (registration required)

Team Blog: <http://jazz.net/blog/index.php/2009/07/16/rrc-drinking-our-own-champagne/>

RSC 2009 RDM 15 Presentation: <http://jazz.net/library/presentation/170>



IBM Teams using Rational Requirements Composer

- Rational Requirements Composer
- Rational Quality Manager (UX team)
- Developer Cloud RAD/RSA project (UX team)
- Rational C/C++ Debugger (whole team)
- MCIF – Web based Self Check
- Non Rational Teams (Just starting)
 - ▶ IBM GBS
 - GBS Canada RRC Pilot
 - ▶ IBM Systems & Technology Group
 - - STG Rational Solutions
 - - OVS Console
 - - MS System Center Integration
 - - Systems Software Development at IBM China Investment Co. Ltd (Wei Feng Li)
 - ▶ SWG UX teams





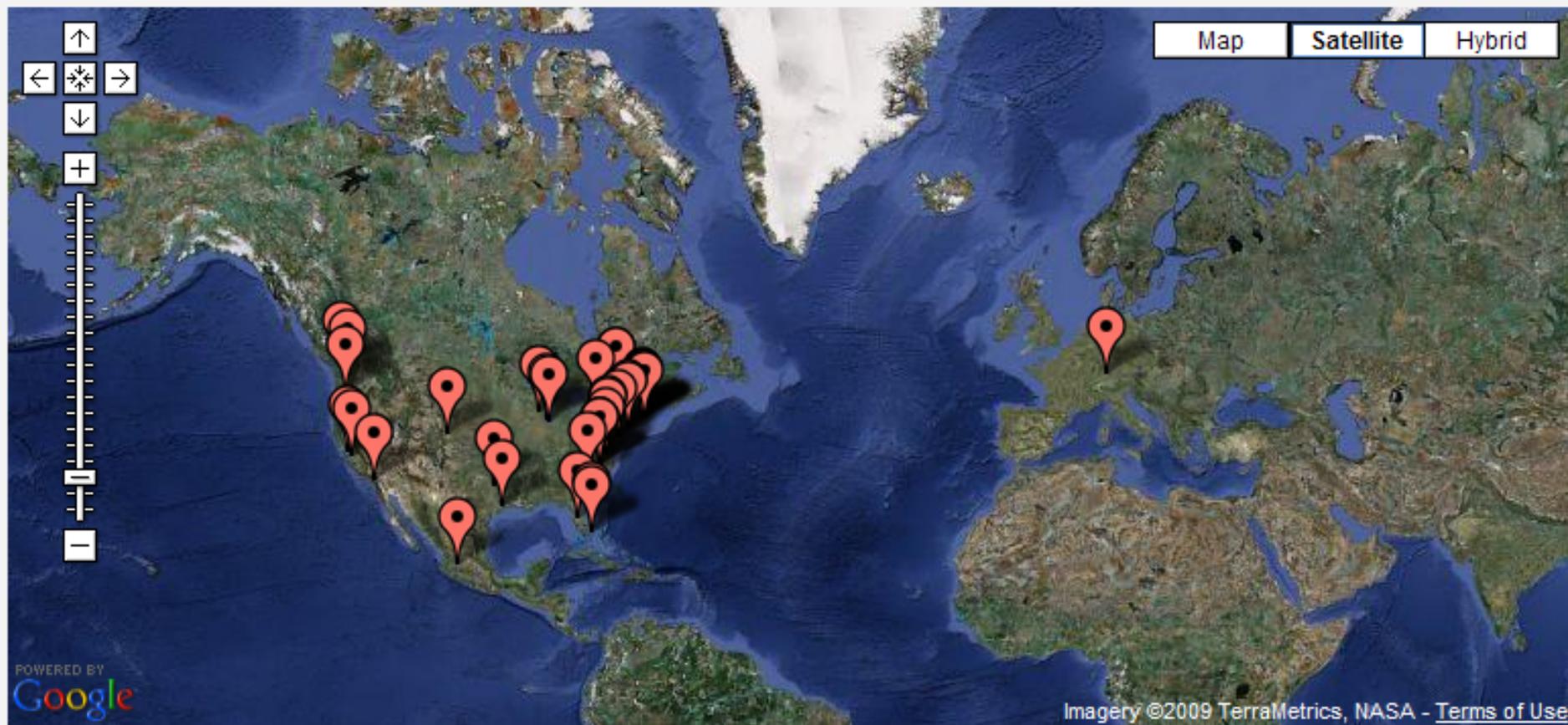
IBM Rational Requirements Composer Core Team – 45 Total

- Development team - 25
- User Experience - 3
- Documentation - 2
- System Validation Testing - 4
- Others (Product Management, Field, Support, etc.) - 11



The RRC team is quite distributed

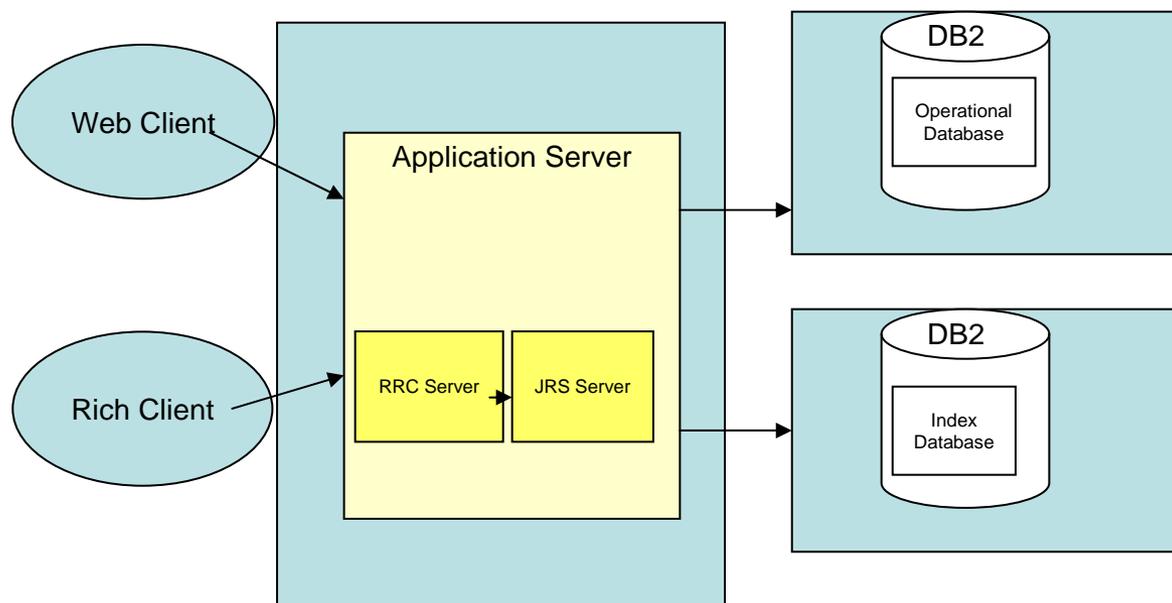
- Number of users: 159 Author licenses assigned, 9 reviewer licenses assigned, 1 system license assigned, total 174 active users.



*note: There are also several users in the UK not shown

“Drink Our Own Champagne” RRC Server – As of July 23rd, 2009

- Located in Ottawa, Canada
- Single Server machine running
 - ▶ Database Data server
 - ▶ Database Index server
 - ▶ RRC Jazz server
- Database Data server database (backup compressed) 3.5 GB



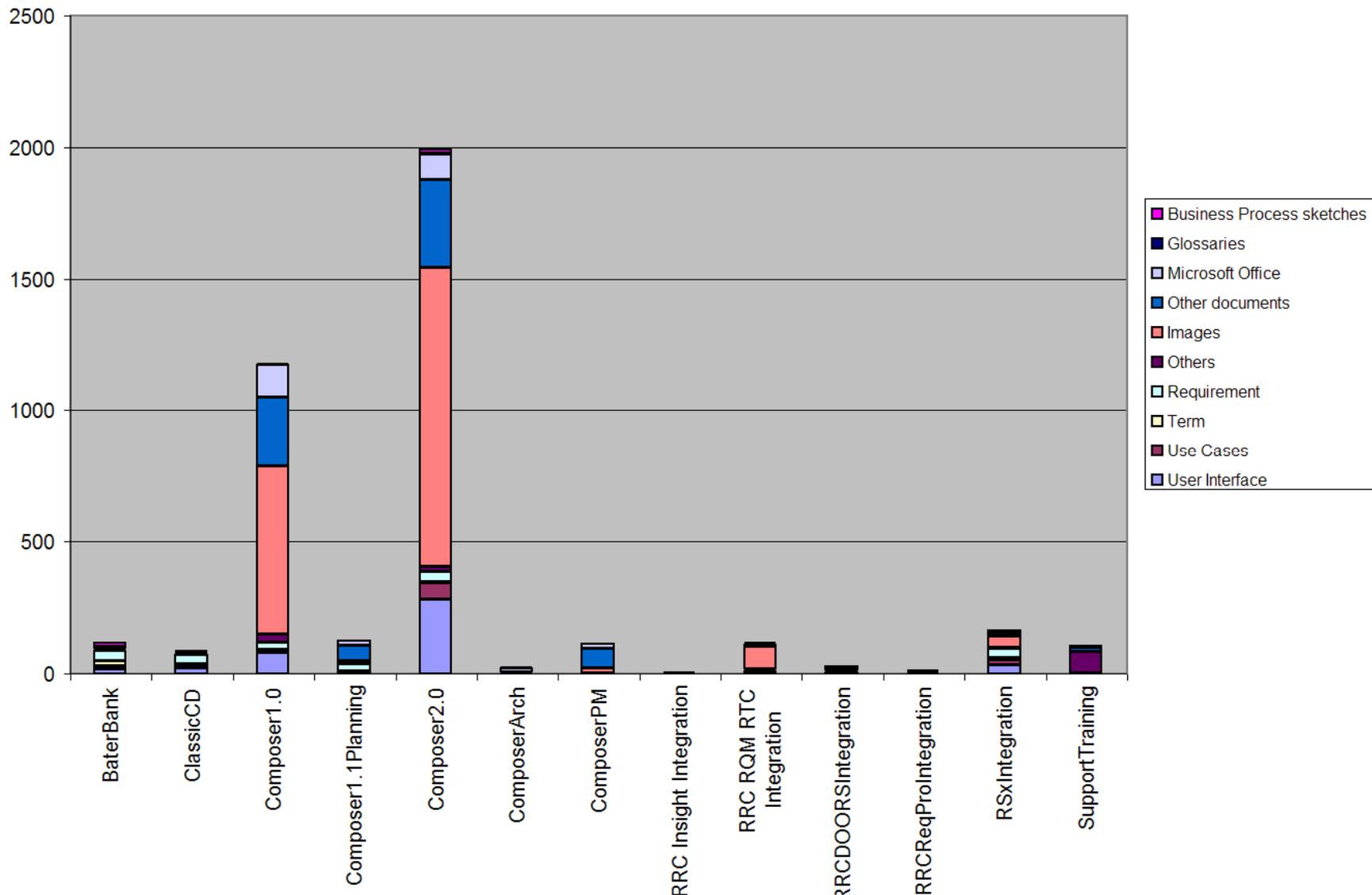
Recommended:

Database for both operational and index databases:
IBM DB2 9.5

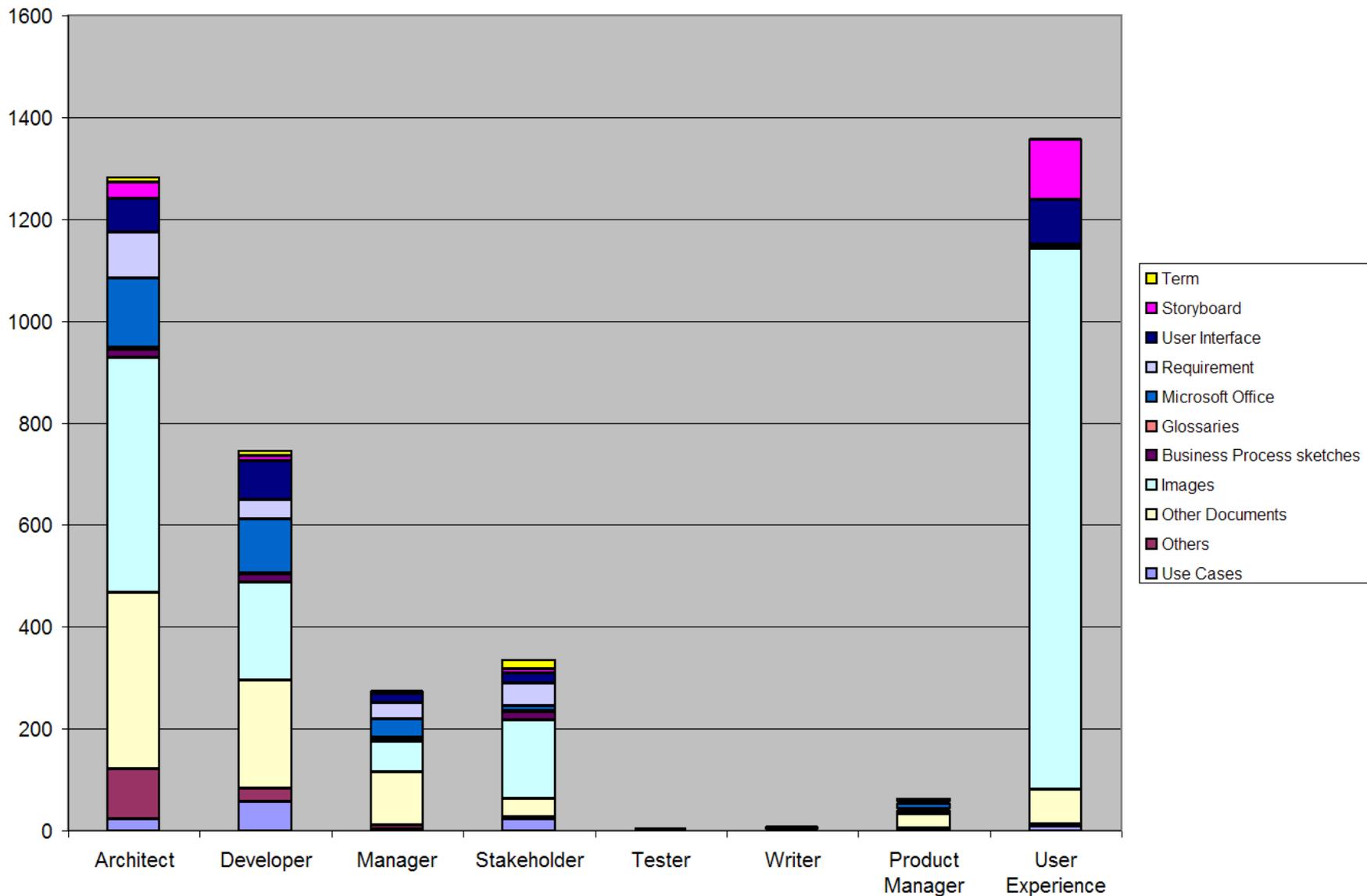
Application Server:
IBM WebSphere Application Server 6.1

Minimum Machine Specifications:
2.66 GHz, 4 GB RAM

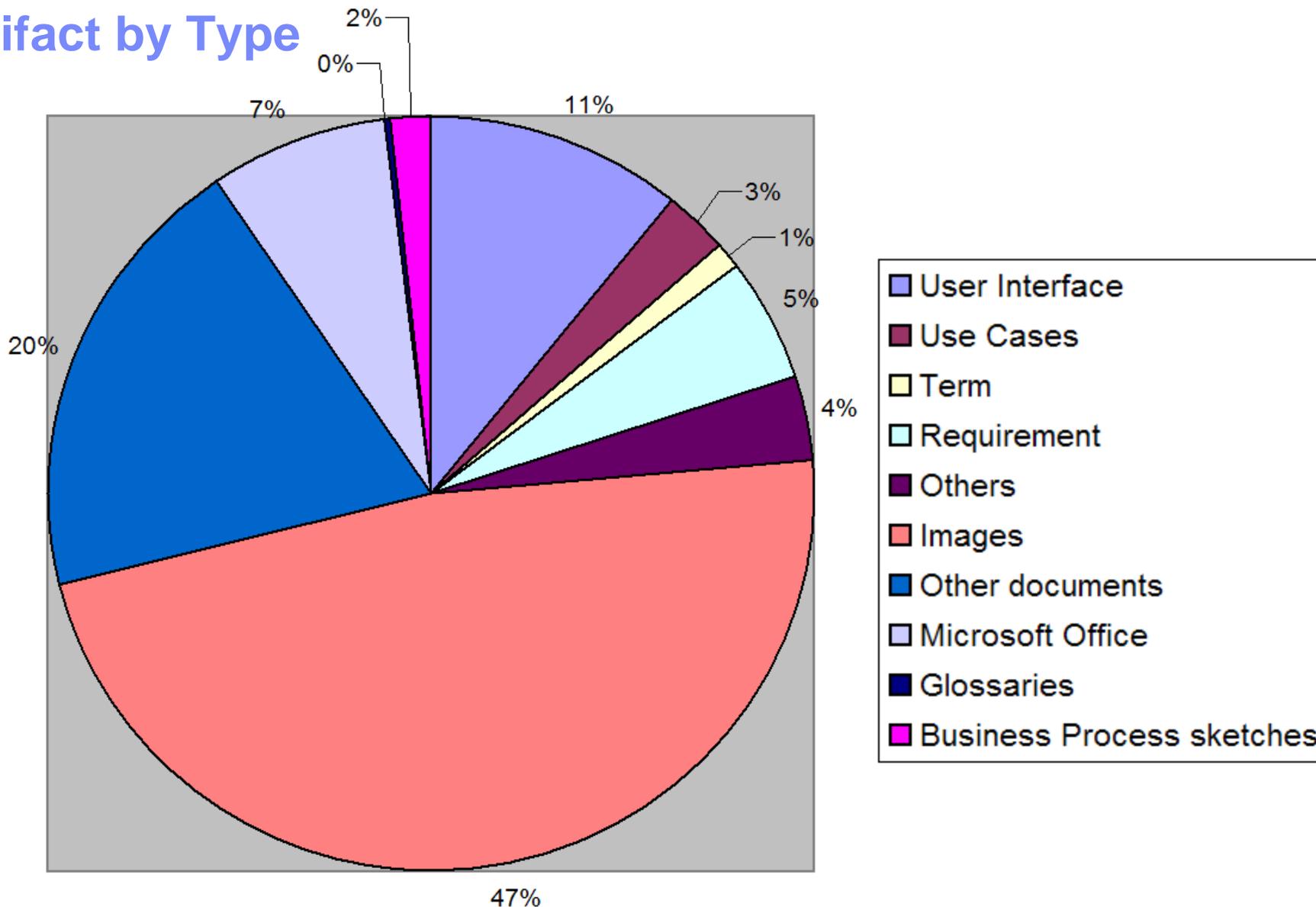
Artifacts by Projects



Artifacts Created by Role – All projects



Artifact by Type



The iterative development process

■ Iterations

- ▶ Overlap: Planning begins for the next iteration during the SVT testing of the previous iteration
- ▶ Vary in length:
 - Different work effort needed for Inception, Elaboration, Construction and Transition
 - Team Events
 - Rational Software Conference
 - Holidays, Etc
- ▶ Each milestone is consumable and includes
 - Planning,
 - Requirements,
 - Design,
 - Development,
 - Function and
 - System Testing
- ▶ Milestone 6 – is a Beta milestone

	Start Date	End Date
Milestone 1	11/18/08	12/19/2008
Milestone 2	01/05/09	2/20/2009
Milestone 3	02/09/09	4/3/2009
Milestone 4	03/23/09	6/12/2009
Milestone 5	05/25/09	8/7/2009
Milestone 6	07/27/09	9/28/2009
Milestone 7

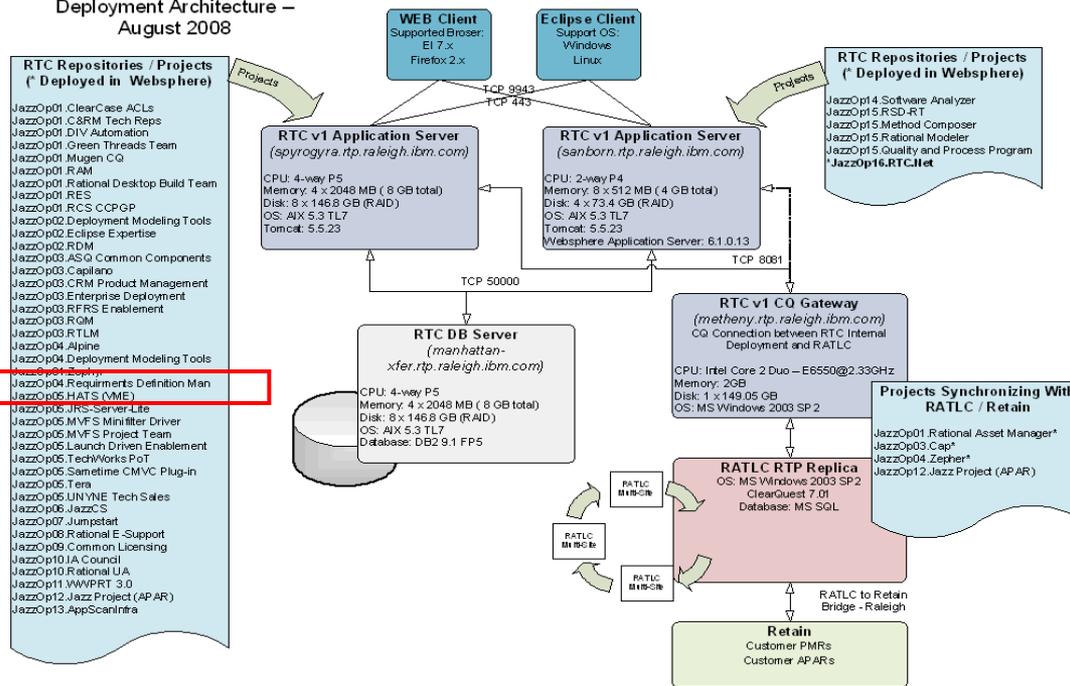
<https://jazz.net/projects/rational-requirements-composer/release-plan-2.0/>

- Rational Team Concert helped with our process
 - ▶ Highly productive work items, code library system, build system
 - ▶ Process enablement
 - required fields and approvers (changes based on place in cycle)

IBM's Internal Deployment of Team Concert

- In Rational, today we have 2,000+ developers and testers
 - 80 development projects, two application servers (hosting 20 RTC server instances), one DB2 server
- In IBM we have 40,000 developers - By end of 2009 1/3 of these will be using RTC
 - And this is NOT being mandated, but rather through viral adoption and real productivity gains

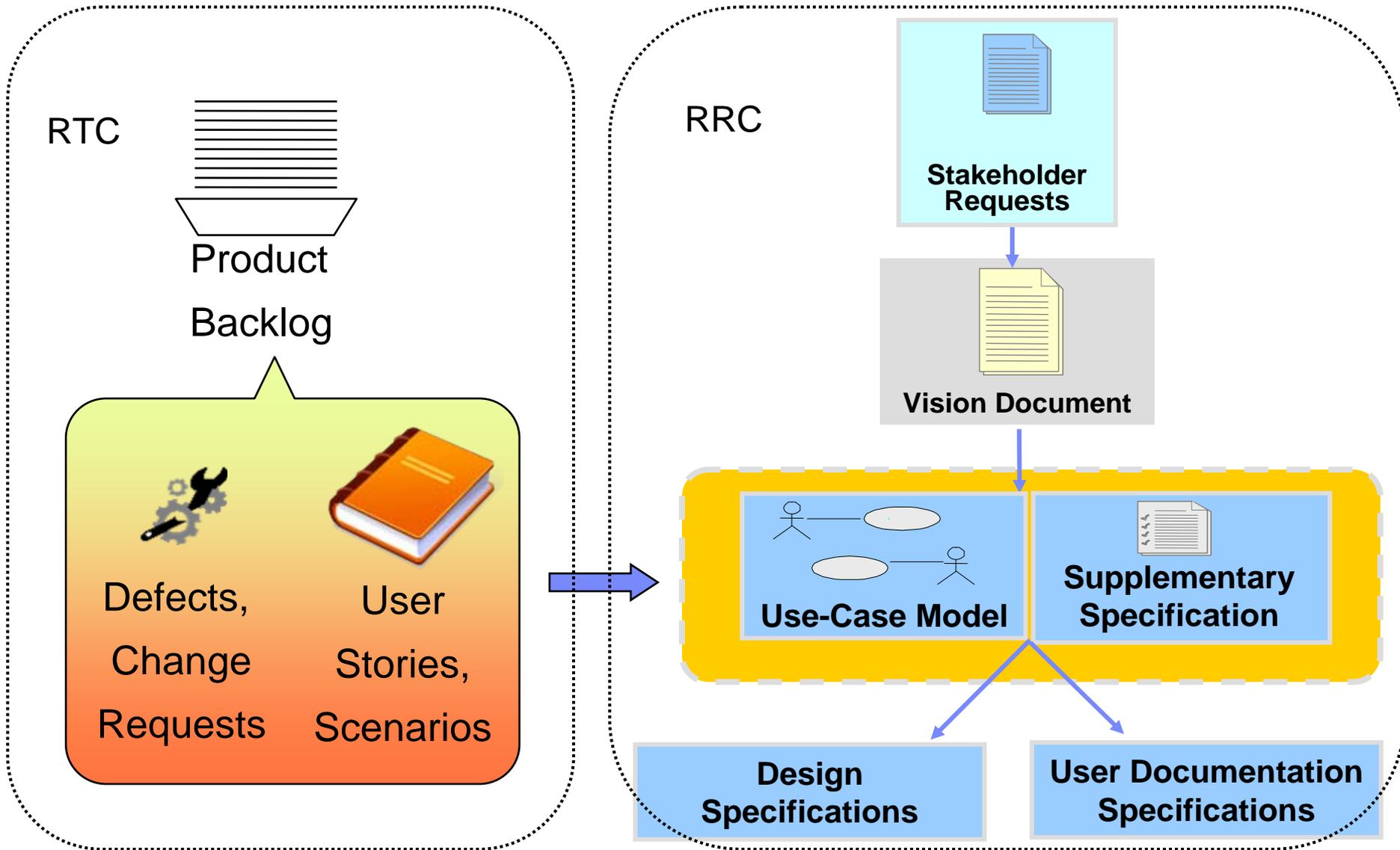
Rational Team Concert Internal Deployment Architecture – August 2008



Requirements Definition & Management



The Product Backlog and Future functionality



Open Commercial Software Development of RRC V2

- Many of the open source practices without open source licensing

- Customers and community influencing the direction of products through direct, early, and continuous conversation
 - ▶ Communication with development teams
 - ▶ Track progress of builds and milestones
 - ▶ Provide direct feedback on what is working, what isn't
 - ▶ Submit and track defect and enhancement requests (work items)
 - ▶ Full visibility to detailed product plans, status and progress
 - ▶ Use of product via web interface
 - ▶ Transparency allows customers to become part of continuous feedback loop that drives development decisions
 - ▶ Opportunity to provide feedback early and often permits customer understanding and influence of release direction and priorities before decisions are finalized

- Customer-driven development

Jazz.net Project – Rational Requirements Composer

Home
About Jazz
Projects
Downloads
Forums
Library
Community
Robin Bater | Edit Profile | Log Out

Jazz Projects

Type to search

Projects >

Rational Requirements Composer

Release Plan

Related Resources

[Rational Requirements Composer 1.0.0.1](#)

[Online Help](#)

[Library](#)

Rational Requirements Composer

Collaborative requirements definition and refinement

Rational Requirements Composer provides a platform for collaborative requirements definition that enables business analysts, client stakeholders and development teams to define requirements, and collaborate with each other.

[→ Buy at ibm.com](#)

IBM.

Download

1.0.0.1 Release

May 25, 2009

What's new in RRC 2.0 Beta 2

This beta release includes improvements in editors, dashboards and viewlets; report and document generation; collections and project snapshots for defining baselines; and workflow for review and approval. See a more [comprehensive list of the features and benefits of Beta 2](#)

[Download RRC 2.0 Beta 2 >](#)

Collaborate to define textual and visual requirements

- Elicit, capture, and refine requirements by using a variety of definition techniques: text, storyboards, use-case diagrams, UI sketches, and business process diagrams
- Use collaboration capabilities to review and comment on requirements among team members
- Organize and create meaningful relationships between requirement artifacts
- Create project glossaries to develop and manage a common vocabulary
- Gather requirements into specification documents
- Store artifacts in a Jazz-based, secure, RESTful server, with artifact access that is controlled by role definitions

Screenshots:

[User home page](#)

[Create and view artifacts](#)

[Collaborate and refine](#)

Download 2.0 Beta 2

September 21, 2009

This is a pre-release Early Access Trial beta of Rational Requirements Composer.

[All Downloads >](#)

Join the conversation

[Ask a question in the Forum](#)

[Subscribe to the mailing list](#)

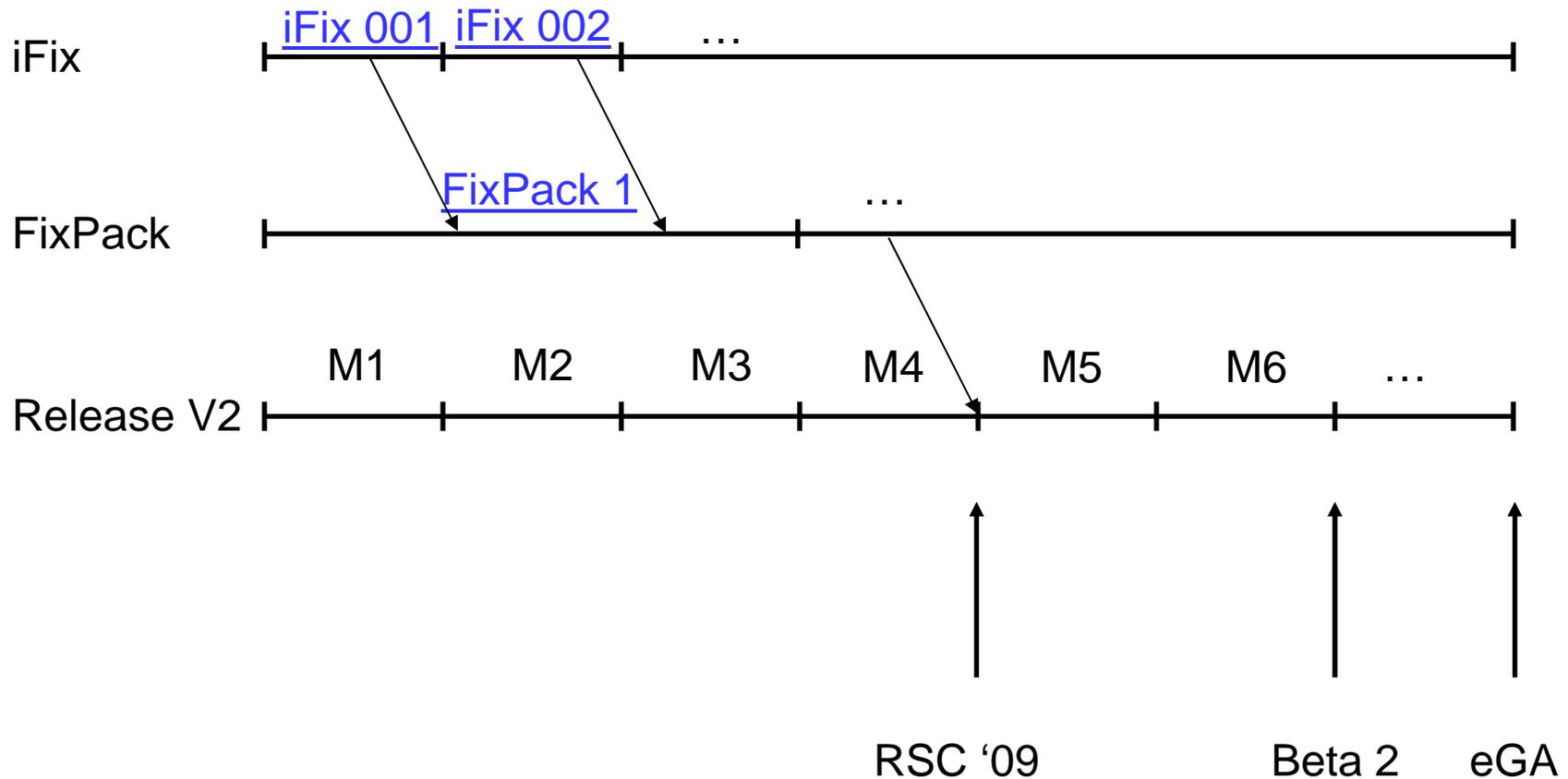
Participate

We use our own tools to openly develop this project on jazz.net. Track our progress or get involved:

- [Submit a bug or enhancement request](#)
- [See the project dashboard](#)
- [Explore detailed iteration plans](#)
- [View reports](#)
- [Review release plans](#)

RRC Releases

- Backlog (iFix, FixPack) and Release (V2) themes artifacts are mapped to the various iteration plans



RRC V2 Release Plan

The screenshot shows the Rational Team Concert web interface. The top navigation bar includes links for Home, About Jazz, Projects, Downloads, Forums, Library, and Community. The user is logged in as Robin Bater. The main content area displays the '2.0 Release Plan' for Rational Requirements Composer. The plan is currently at iteration 2 of 3. A progress bar indicates 250/298 Difficulty Points completed, with an estimated 100% completion. The plan title is 'Rational Requirements Composer 2.0 Release Plan Revision 1 - May 07, 2009'. The plan description includes a request for comments, a disclaimer, and a detailed overview of the 2.0 release plan, which focuses on integrations with other Jazz-based products, improved enterprise-scale usage, and a new lightweight Web UI. The plan also lists key release deliverables: Release deliverables, Release milestones, Operating environments, Internationalization, and Themes and Priorities.

My Current Plans >

Previous | 2 of 3 | Next

2.0 Release Plan

Team Area: Composer | Iteration: 2.0 Release (11/17/08 - 11/23/09) | 102 Closed | 27 Open

Overview | Planned Items | Charts

Progress: 250/298 Difficulty Points Estimated: 100%

Save

Rational Requirements Composer 2.0 Release Plan Revision 1 - May 07, 2009

Please send comments about this plan to rrc-dev@jazz.net developer mailing list.

All statements regarding product plans, IBM future direction or intent are subject to change or withdrawal without notice and represent goals and objectives only. Please refer to [Terms of Use](#) for more information.

IBM Rational Requirements Composer provides a platform for collaborative requirements definition that enables business analysts, client stakeholders and software development teams to elicit, capture, elaborate, discuss, review, and validate requirements using a variety of requirements definition techniques and collaboration capabilities.

This document lays out the plan for the next release of the Rational Requirements Composer product, designated 2.0. The focus of the 2.0 release will be to enable integrations with other Jazz-based products, to improve enterprise-scale usage, and to respond to feedback from customers of Rational Requirements Composer 1.0. The 2.0 Release also introduces a lightweight Web UI which provides a read-only view to artifacts that are stored in the Rational Requirements Composer Server repository. The Web UI enables business analysts, client stakeholders, and software development teams to review, comment on, and validate requirements without installing the RRC 2.0 Rich Client on multiple systems. Rational Requirements Composer 2.0 will be built on Jazz Foundation 1.0. See the [Jazz Foundation 1.0 Release Plan](#) for further details.

- Release deliverables
- Release milestones
- Operating environments
- Internationalization
- Themes and Priorities

Plans do not materialize out of nowhere, nor are they entirely static. To ensure the planning process is transparent and open to the entire Jazz community, we, the Rational Quality Manager Project Management Committee, post initial plans in an embryonic form and revise them throughout the release cycle.

RRC V2 – Release Planned Items

Jazz Home About Jazz Projects Downloads Forums Library Community

Rational Team Concert Robin Bater Log Out ?

Dashboards Project Areas Work Items **Plans** Builds Reports Rational Requirements Composer

My Current Plans > Previous | 2 of 3 | Next

2.0 Release Plan

Team Area: Composer | Iteration: 2.0 Release (11/17/08 - 11/23/09) | 102 Closed | 27 Open

Overview **Planned Items** Charts

Progress: 250/298 Difficulty Points Estimated: 100%

View As: Teams

2.0 Release

Closed Items: 102 | Open Items: 28 Progress: 250/298 Difficulty Points Estimated: 100%

Rich Text Enhancements for 2.0 Release	5 Points	0/0 Difficulty Points	Committed	17456
Web: CALM for the Web	8 Points	15/20 Difficulty Points	Committed	15770
Add support for Collections	5 Points	5/5 Difficulty Points	Committed	14677
General Iconography for 2.0 release	5 Points	0/0 Difficulty Points	Committed	14418
JFS Adoption		30/30 Difficulty Points	Committed	14038
Web: Rich Text Enhancements		0/0 Difficulty Points	Committed	13935
Web: Review and Approval		5/5 Difficulty Points	Committed	13934
Web: M5: Sidebar Comments section needs to support Reviews		0/0 Difficulty Points	High	13892
Web: M5: New M5 Scenario Review Work	5 Points	0/0 Difficulty Points	Medium	16506
Web: M5: ResourceViewer needs to support Reviews		0/0 Difficulty Points	Unassigned	14783
Web: M4: Sidebar Reviews section needs more functionality		0/0 Difficulty Points	Unassigned	14784
Web: M5: Sidebar Links section needs to support Reviews		0/0 Difficulty Points	Unassigned	14777
Web: M5: Sidebar Requirements section needs to support Reviews		0/0 Difficulty Points	Unassigned	14775
Web: M6: Artifact History		0/0 Difficulty Points	Unassigned	14767
Web: M5: Changes needed to support Review artifacts		0/0 Difficulty Points	Unassigned	13986
Web: NO WEB WORK PLANNED for 2.0: Save and Share Queries		0/0 Difficulty Points	Committed	13933
Web: Collections (and related snapshot associations)		5/5 Difficulty Points	Committed	13929
Web: NO WEB WORK PLANNED for 2.0: Attribute Editing View		0/0 Difficulty Points	Committed	13928

RRC V2 – Composer 2.0 RTC Dashboard

https://jazz.net/jazz03/web/projects/Rational%20Requirements%20Composer#action=com.ibm.team.dashboard.viewDashboard&team=Composer&tab=_Yk8hAL41Ed2E7tq3d2LZqA

Jazz Home About Jazz Projects Downloads Forums Library Community

Rational Team Concert Robin Bater | Log Out

Dashboards Project Areas Work Items Plans Builds Reports Rational Requirements Composer

Type to search

All Dashboards > Rational Requirements Composer >

Composer2.0

General Composer 2.0 Dev QCert Composer 2.0 QCert - Public Continuous FVT BVT Testing Beta 2 Stopship GA Stopship War Room TVT

Recently Viewed

- Composer
- Robin R Bater's Profile

My Dashboards

- Robin R Bater's Profile

Public Dashboards

- Rational Requirements Composer
- Community
- Composer
- ComposerFixpack1
- ComposerFix1
- ComposerFix2
- All Dashboards

Planned Release Requirements

Planned release requirements for the 2.0 release

Planned release requirements (35) Status

Status	Count
Triaged	17
Closed	12
Resolved	9
New	8

Planned milestone requirements

Planned milestone requirements for 2.0 release

Planned milestone req... (88) Filed Against

Filed Against	Count
RRC Web Client	17
RRC Client/Versioning/Review a	12
RRC Client/RRC Integrations/Do	9
RRC Client	8
RRC Client/Common Editor Fun	4
RRC Client/Workbench UI/Uploa	3
RRC Client/RRC Integrations/RF	3
RRC Client/Workbench UI/Email	2
Release Engineering	2
RRC Client/RRC Integrations/Re	2
Other	26

High Priority Defects

Defects in this list are raised against 2.0 and have a severity of Blocker, Critical or Major or a priority of High or Committed.

High Priority Defects (1188) Status

Status	Count
Triaged	17
Reopened	12
Closed	9
Resolved	8
Other	26

Usability Defects

Defects in this list are raised against 2.0 release and are related to usability and consistency

Usability defects (60) Status

Status	Count
Triaged	17
Reopened	12
Closed	9
Resolved	8
New	2

Serviceability Defects

Defects in this list are raised against 2.0 release and are related to serviceability requirements in the quality plan

Serviceability defects (3) Status

Status	Count
Triaged	17
Closed	12
Resolved	9
New	2

GVT Defects

Defects in this list are raised against 2.0 release and are related to GVT testing

GVT defects (23) Status

Status	Count
Triaged	17
Closed	12
Resolved	9
New	2

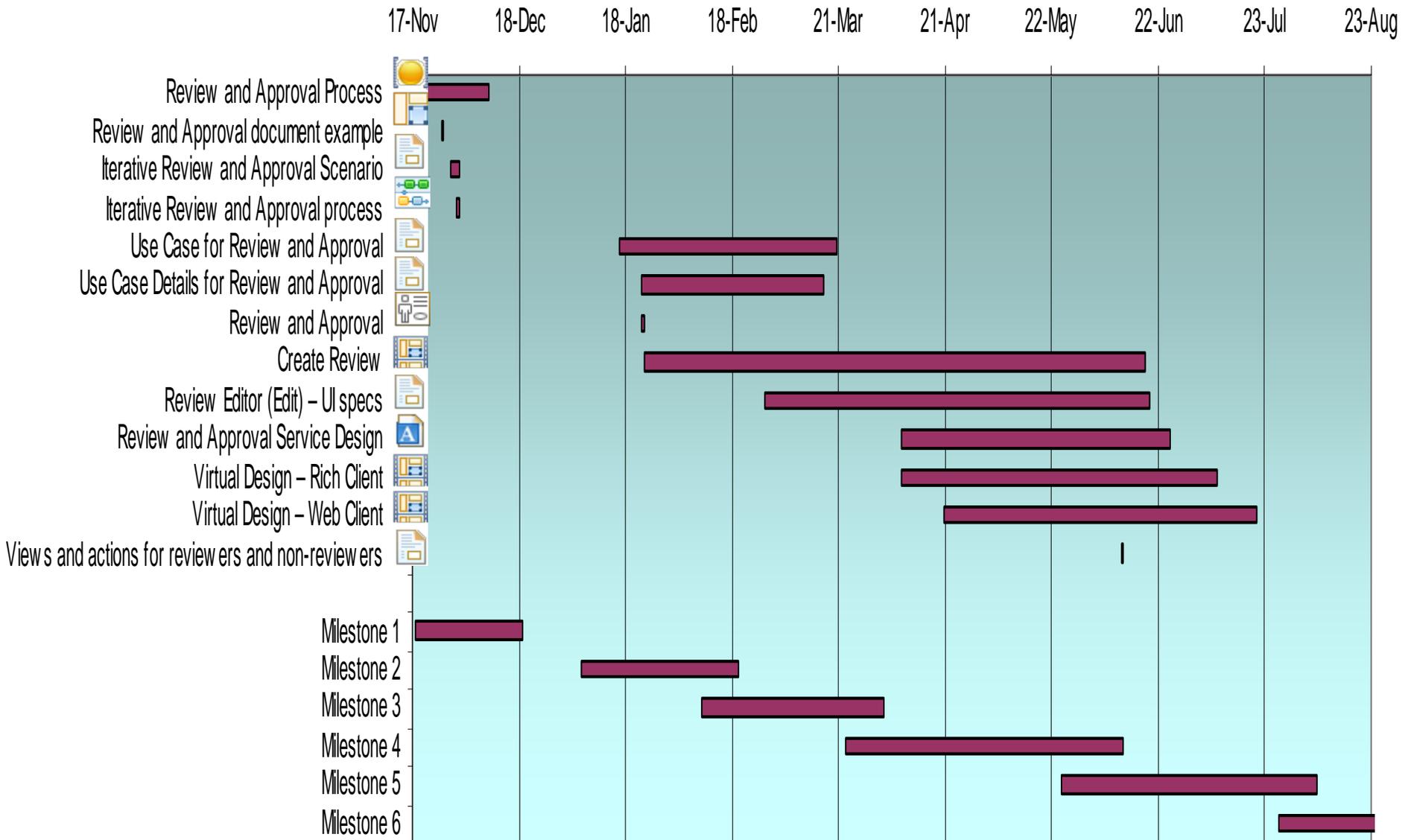
Drinking Our Own Champagne

- The following slides show the evolution of the RRC V2 Review and Approval feature
 - ▶ Using IBM Rational Requirements Composer V1.0.0.1
- The review and approval process is firstly described in textual scenario
 - ▶ Composer1.1Planning project
- The UX and dev team members then developed increasingly realistic versions of the mock-ups and identified "how it's really going to work".
 - ▶ Composer 2.0 project
 - ▶ The UX team have benefitted greatly from deep, on-going conversations with developers (and including product management now and again)



Team-based artifact creation

more effective, with easier collaboration, and communication



RRC Release V2 “Champagne” artifacts - Details

Artifact		Created On	Last Modified	Revisions	Links
Review and Approval Process	Requirement 	Nov 17,2008	9-Dec-08	59	 (12)  (6)  (11)
Iterative Review and Approval Scenario	Document 	Nov 28, 2008	25-Nov-08	18	 (1)  (4)  (7)
Iterative Review and Approval process	Business Process Sketch 	Nov 29, 2008	30-Nov-08	6	 (0)  (0)  (0)
Review and Approval document example	Sketch 	Nov 25, 2008	30-Nov-08	5	 (2)  (1)  (0)
Review and Approval	Use Case Diagram 	Jan 22, 2009	20-Mar-09	4	 (0)  (3)  (0)
Use Case for Review and Approval	Document 	Jan 16, 2009	16-Mar-09	33	 (0)  (9)  (0)
Use Case Details for Review and Approval	Document 	Jan 22, 2009	23-Jan-09	46	 (8)  (6)  (0)
Create Review	Storyboard 	Jan 23, 2009	18-Jun-09	79	 (55)  (10)  (0)
Virtual Design – Rich Client	Storyboard 	Apr 8, 2009	19-Jun-09	16	 (34)  (38)  (0)
Virtual Design – Web Client	Storyboard 	Apr 20, 2009	25-Jun-09	8	 (12)  (13)  (0)
Review Editor (Edit) – UI specs	Document 	Feb 27, 2009	9-Jul-09	45	 (4)  (4)  (0)
Views and actions for reviewers and non-reviewers	Document 	Jun 11, 2009	20-Jul-09	2	 (0)  (1)  (0)
Review and Approval Service Design	MS Word Doc 	Apr 8, 2009	11-Jun-09	19	 (6)  (0)  (0)

RRC V2 – Review and Approval RTC Release Requirement

<https://jazz.net/jazz03/web/projects/Rational%20Requirements%20Composer#action=com.ibm.team.workitem.viewWorkItem&id=13783>

Rational Team Concert | Robin Bater | Log Out

Dashboards | Project Areas | **Work Items** | Plans | Builds | Reports

Release Requirement 13783 | Summary: Review and Approval | Status: Closed | Fixed

Overview | Links | Approvals | History

Details

Type: Release Requirement | Filed Against: ...g/Review and Approva | Tags: ipscrub | Owned By: David Murray | Project Area: Rational Requirements | Team Area: Rich Client UI | Priority: Committed | Planned For: 2.0 M6 | Estimate: []

Description

This is the high-level release requirement for review & a

Discussion

No Comments.

Children (16)

- Enhancement 13408: Feature: Review and Approval
- Milestone Requirement 13844: Review and Approval/Define resource format for a review
- Milestone Requirement 13848: Review and Approval/Create a review
- Milestone Requirement 13849: Review and Approval/Edit a review
- Milestone Requirement 13857: Review and Approval/Authorization considerations for reviews and approvals
- Milestone Requirement 13861: Review and Approval/Participate in a review
- Milestone Requirement 13862: Review and Approval/View a review (participant view)
- Milestone Requirement 13863: Review and Approval/Notifications for reviews and approvals
- Milestone Requirement 13866: Review and Approval/Link to a review
- Milestone Requirement 13877: Review and Approval/Implement state transitions for a review
- Enhancement 15244: Initial support for reviewing Collections
- Milestone Requirement 16043: Migrate Review APIs to use new Server APIs
- Task 16649: Use a localization friendly date format in storing reviews
- Milestone Requirement 16834: Client needs to adopt this design for supporting review on head
- Milestone Requirement 16837: Clients need to adopt this design for handling updates -re-review scenario

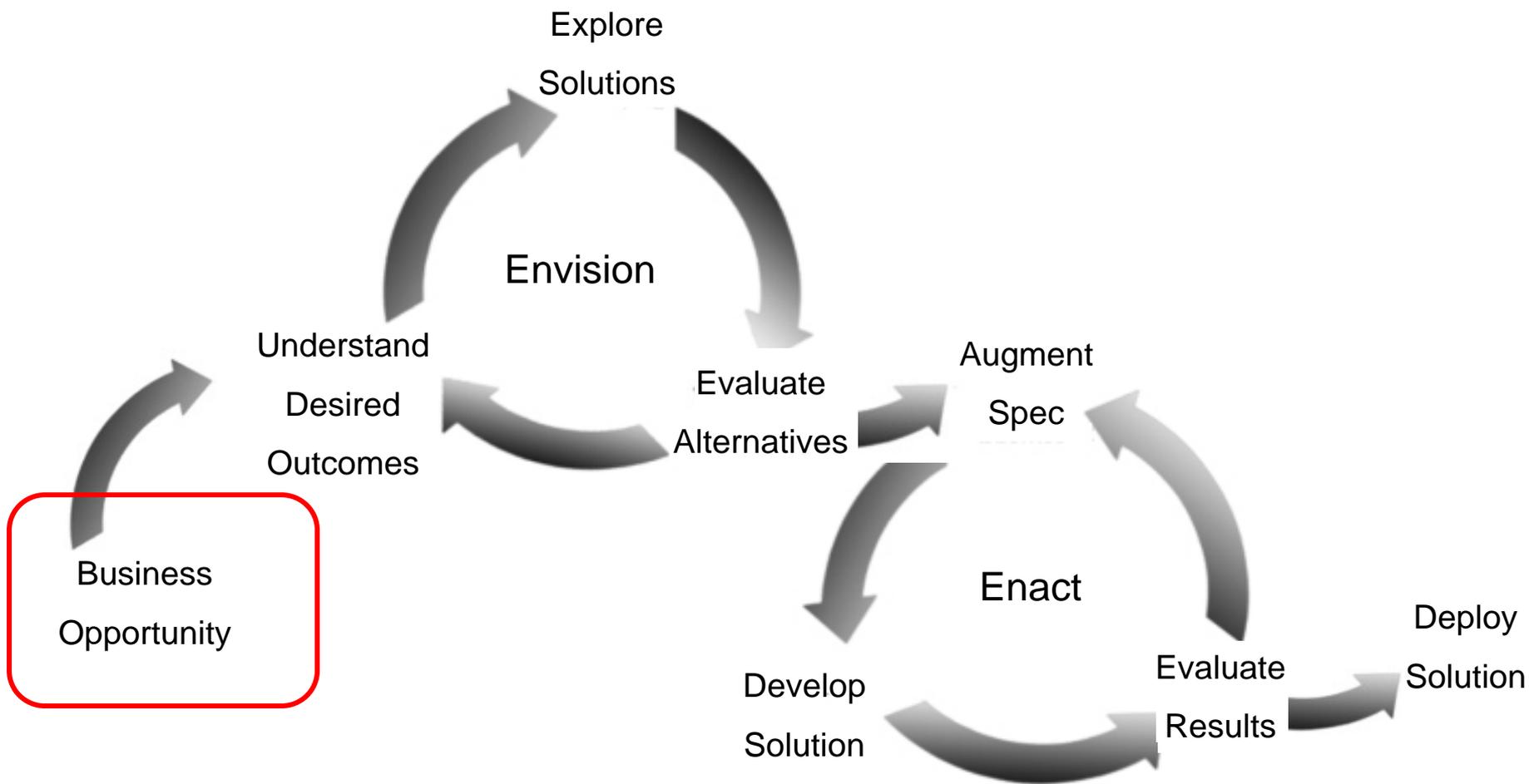
Quick Information

- Subscribers (1): SVD
- Children (16): 13408, 13844, 13848, 13849, 13857, 13861, 13862, 13863, 13866, 13877, ...
- Depends On (1): 14912
- Duplicated By (1): 8347
- Related (3): 15676, 15677, 15678
- Related Artifacts (2)
- Change Sets (1)
- Included in Builds (4)

Loaded: Oct 5, 2009 6:21 A.M.

Save

A roadmap for building the right solution



Dashboard: V1 customer feedback defined list of features

The screenshot displays the Rational Requirements Composer (RRC) interface. The main window shows a list of requirements under the 'Requirements' tab. The first requirement, 'Review and approval process', is highlighted with a red box. The interface includes a menu bar (File, Edit, Navigate, Search, Window, Help), a toolbar with various icons, and a sidebar with filter options. The requirements list includes details such as the requirement name, last modified by, requirement type, path, and a description.

Requirement ID	Requirement Name	Last Modified By	Requirement Type	Path	Description	Comments
RRCv1.1	Review and approval process	Daniel T. Moul	Feature	Composer 1.1Planning/Features/Review and approval process	Support iterative review and approval of requirements by stakeholders and analysts	12
RRCv1.1	Rich text editing improvements	Dwayne A Dreakford	Feature	Composer 1.1Planning/Features/Rich text editing improvements	Key enhancements to the RRC Document editing capability	0
RRCv1.1	Team Concert integration	Dwayne A Dreakford	Feature	Composer 1.1Planning/Features/Team Concert integration	Create and elaborate work items with requirement artifacts	0
RRCv1.1	User-defined document types	Dwayne A Dreakford	Feature	Composer 1.1Planning/Features/User-defined document types	Customizable artifact types supporting domain customizatin of RRC	0
RRCv1.1	Versioning enhancements					0

Feature: Review and Approval process

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Heading 2 Arial 11 B I U

Composer 1.1Planning | Features RRCv1.1; (12) (6) (11)

Requirement Type: Feature Managed Requirement: Add a requirement to RequisitePro

Review and approval process

Support iterative review and approval of requirements by stakeholders and analysts

Description

Support iterative review and approval of requirements by enabling the analyst to lead stakeholders and other analysts through a well-defined, partially automated review and/or approval of requirements artifacts.

Benefit

This will enable enterprises to apply a consistent process for reviewing and approving requirements and related information.

Needs

To effectively gain consensus among key stakeholders, the *analyst needs* to be able to:

- Specify the set of artifacts (optionally, specific artifact revisions) that need to be reviewed or approved. See "What can be reviewed/approved" in this document for recommendation of the vehicle analysts will use to to accomplish this task.
 - Possible reviewer document: [Review/Approval document example](#)
 - Note that this example include a list of artifacts along with [dynamic document](#)
 - Consider making the state of this document "the state of the review"
- Specify required and optional reviewers/approvers
 - See "Participation in the review/approval process by role" in this document.
- [Notify reviewers/approvers](#) that their participation is being requested.
- [Receive notification](#) of review/approval status and completion
- [Generate and share an approval summary document](#)
 - This may be the same document as the "reviewer document" described above, or it may be a separate document. UX and Visual Design have some leeway here.

Sidebar

Overview

Review and approval process

Project: Composer 1.1Planning
 Created On: Nov 17, 2008 9:05:24 PM
 Modified On: Dec 9, 2008 5:03:52 AM
 Modified By: Daniel T. Moul

Feature

Type: Functional
 Priority: Must
 Status: Proposed
 Difficulty:
 Stability:
 Origin:
 Contact:

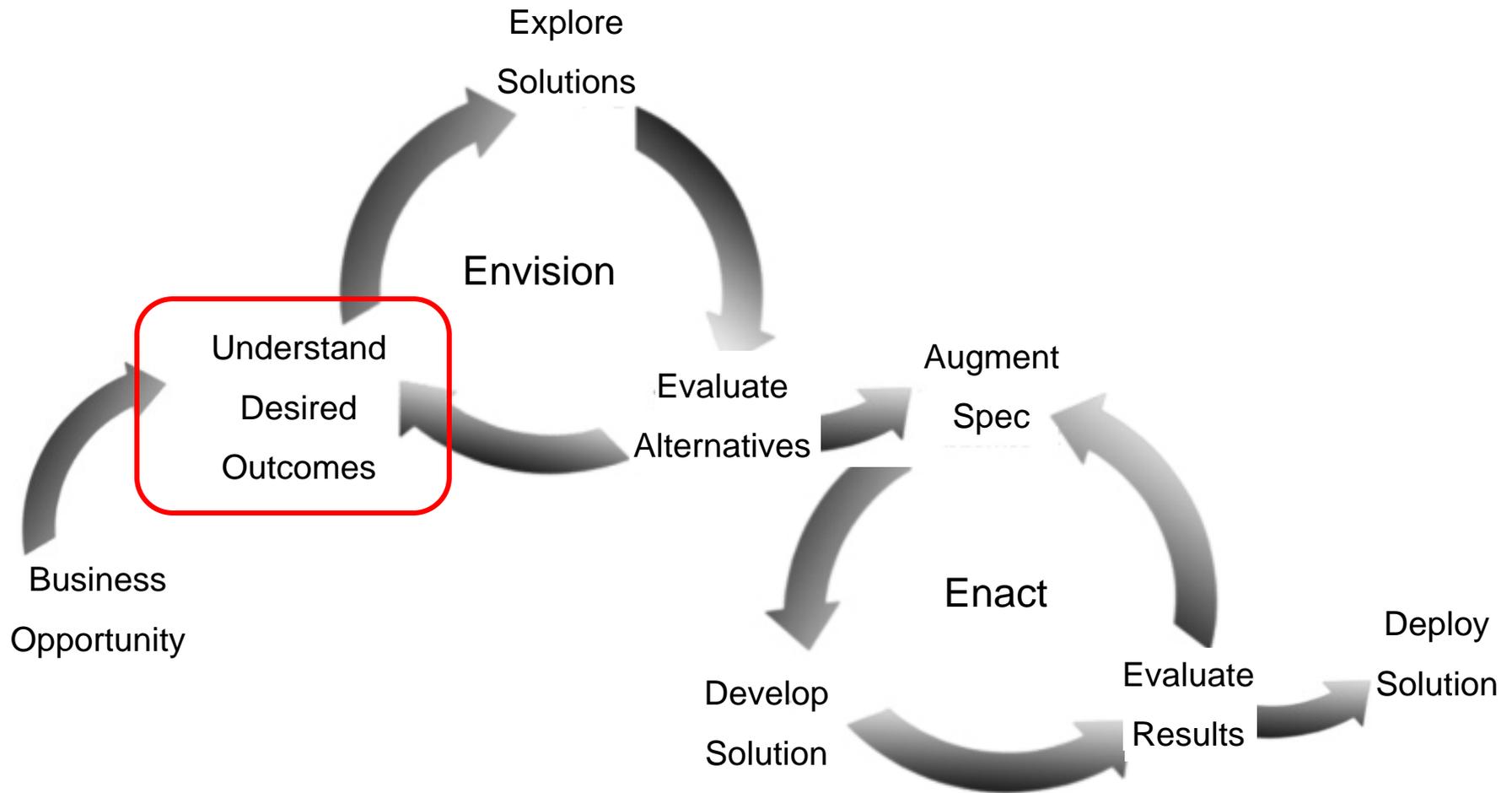
Comments (12)

Requirements (11)

Links (6 outgoing, 17 incoming)



A roadmap for building the right solution



Document: Iterative Review and Approval scenario

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Heading 2 Arial 11 B I U

Open Composer 1. IPPlanning Review and approval process Iterative Review and Approval Scenario

Iterative Review and Approval Scenario
Focusing team collaboration to achieve and capture the state of consensus

Composer 1. IPPlanning | Scenarios differentiator; key-scenario; (1) (4) (7)

Brief Description

This scenario describes the workflow of the analyst and participating project stakeholders as requirements and related information is reviewed, approved and the results of the collaboration are captured and made visible to all participants.

Desired Business Outcome

Provide IBM Rational with a differentiating capability to provide tangible, measurable improvement of teams' requirements definition processes

Enable analysts to focus collaboration among analysts and project stakeholders to gain consensus, shorten review and approval cycles and increase the quality of requirements

Enable project stakeholders to more effectively participate in the requirements definition process by simplifying access to and clearly identifying material to be reviewed and enabling participants to share feedback

How will outcome be measured or verified?

- Review and approval process turnaround time improvements
- Numbers of stakeholders participating in review and approval of requirements
- Stakeholder confidence in solution requirements

Sidebar

Overview

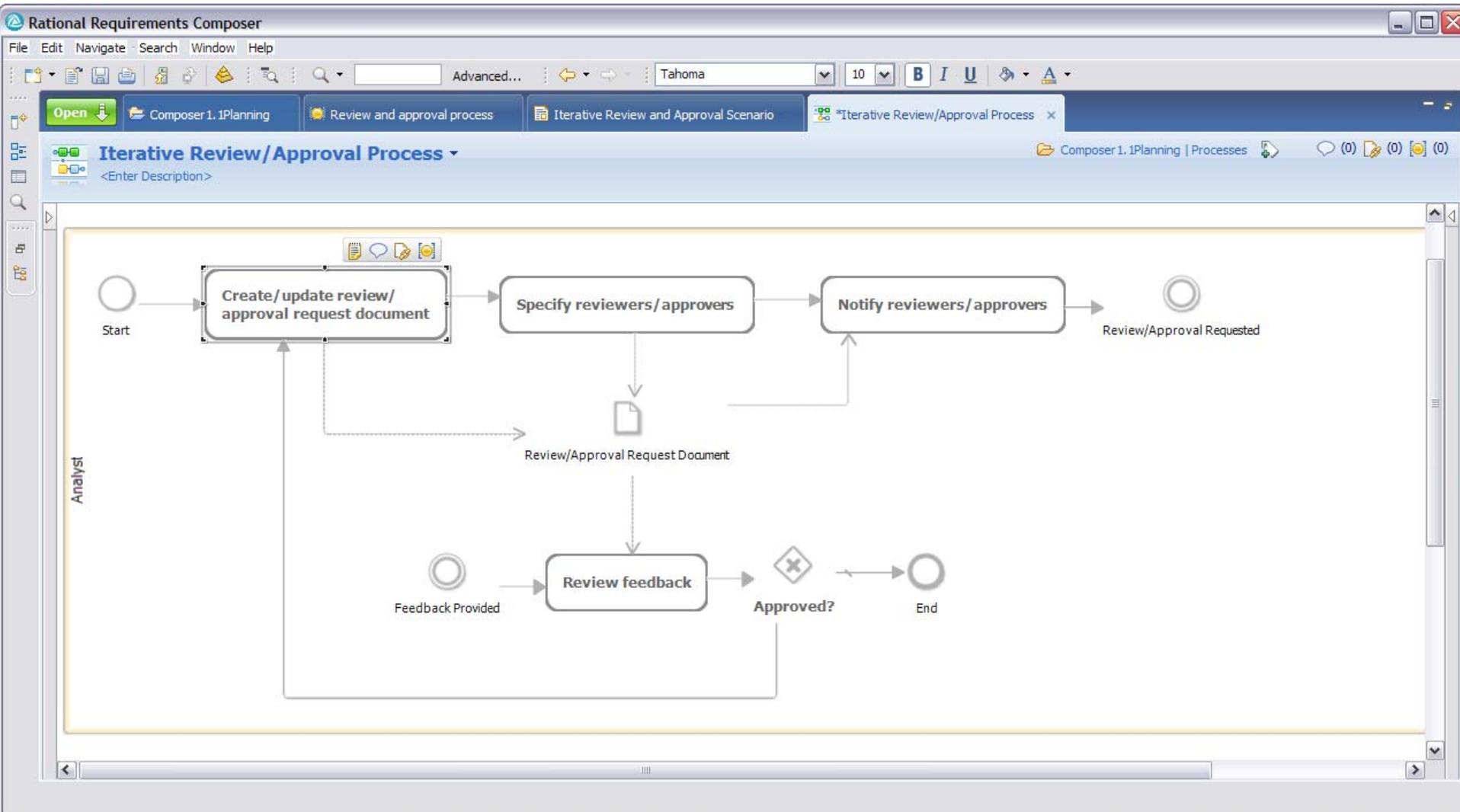
Comments (1)

Requirements (7 of 7)

- Dynamic document composition (from Anchor "Dyna
- Notifications (from Anchor "Notifications"
- Review and approval process (from Anchor "Review
- Review and approval process (from Anchor "Review
- Versioning enhancements (from Anchor "Versioning
- Versioning enhancements (from Anchor "Versioning
- Web client access (from Anchor "Web client"

Links (4 outgoing, 6 incoming)

Business Process Sketch: Iterative Review and Approval process



Sketch: Review and Approval document example

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced... Arial 9 B I U

Composer 1.1Planning | Review and approval process | Iterative Review and Approval Scenario | *Iterative Review/Approval Process | Review-Approval document example x

Review-Approval document example <Enter Description>

Composer 1.1Planning | Storyboards (2) (1) (0)

Team, please review the following documents as soon as you are able. We need to be on the same page before we take this to the directors.

You might want to review our <link>Project Vision</link> before diving into these documents.

Let me know if you have any questions.

Thanks,

Daniel

For your review. Due date: December 15, 2008

Artifact

- Review-Approval document example
- Visio integration
- Scenario ideas for shared vision and use case...
- Floating license support
- Web client access

Opened	Edited	Review	Approval Response
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A

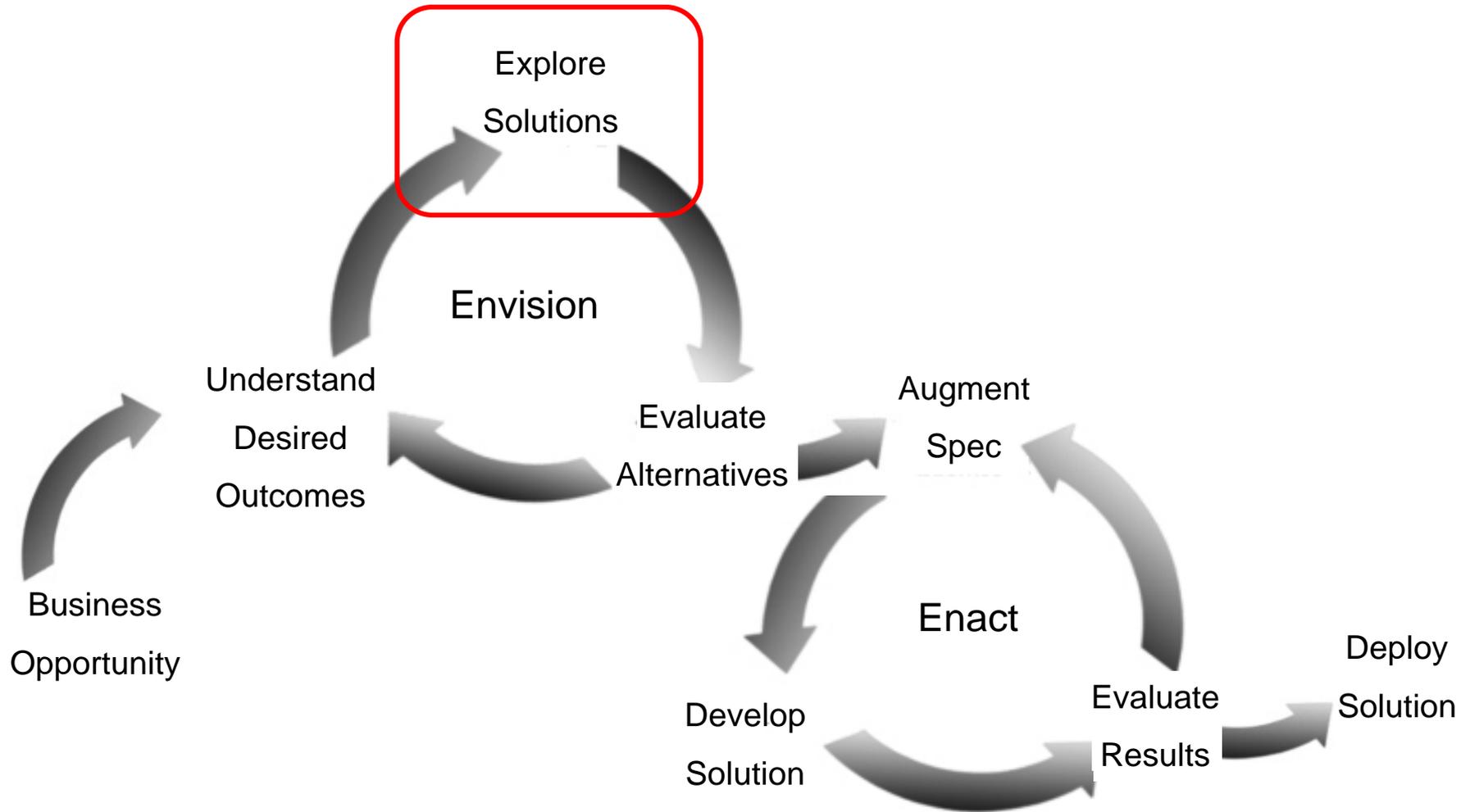
Artifact names should be links

Perhaps the Approval Response column only shows up if this review includes an approval step.

Status changes over time when reviewer returns to this document



A roadmap for building the right solution



Use Case Diagram: Review and Approval

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Open Composer 2.0 Review and Approval Use Case Diagram

Review and Approval Use Case Diagram <Enter Description>

Composer 2.0 | UX Designs | Feature: Review and Approval (0) (3) (0)

Palette

Use Case Elements

- Note
- Text
- System Boundary
- Actor
- Use Case
- Actor Placeholder
- Use Case Placeholder

```

    graph LR
        subgraph Review_and_Approval [Review and Approval]
            UC1((Create a Review))
            UC2((View a Review))
            UC3((Edit a Review))
            UC4((Review artifacts in a review))
        end
        Analyst[Analyst] --- UC1
        Analyst --- UC2
        Analyst --- UC3
        Stakeholder[Stakeholder] --- UC1
        Stakeholder --- UC2
        PM[Project Manager] --- UC2
        PM --- UC3
        PM --- UC4
    
```

Analyst Stakeholder Project Manager

Overview

Comments (0)

Requirements (0)

Links (3 outgoing, 1 incoming)

Outgoing Links (3 of 3)

- Analyst (from Analyst 0:2)
- Project Manager (from Project Manager 0:2)
- Stakeholder (from Stakeholder 0:2)

Incoming Links (1 of 1)

- Use Cases for Review and Approval

Document: Use Case for Review and Approval

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Normal Arial 11 B I U S

Open Composer2.0 Review and Approval Use Case Diagram Use Cases for Review and Approval

Use Cases for Review and Approval >

<Enter Description>

Composer2.0 | UX Designs | Feature: Review and Approval UX Design; overview; (0) (9) (0)

Primary:

- Analyst

Secondary:

- Stakeholder
- Project manager

Each usage scenario below will indicate who the primary users are of that task.

Use Cases (WHAT)

See also [Use Case Diagram](#)

- Create a review.** User creates a review resource, which minimally includes artifacts, reviewers and a due date, and potentially other options. The reviews are listed for the project. Reviewers are notified that a review has been created, and the review is added to their User Home Page.
- View a review (including status).** To view the list of artifacts that need reviewed, the list of reviewers, due date, and current status of each artifact. Also identify what has changed since review was created. For reviewers of a started review, to view the list of artifacts to review and their status of the review.
- Edit a review.** User changes what is in the review, list of reviewers, and due date.
- Review artifacts in review.** User can add comments to an artifact in a review and set their review status (e.g., Approve/Not Approve/Abstain or Complete/Abstain). The creator of the review is notified when review status is changed.

[Use Case Details](#)

Sidebar

Overview

Comments (0)

Requirements (0)

Links (9 outgoing, 3 incoming)

Outgoing Links (9 of 9)

- Create a review (from Anchor "1. Create a review"
- View a review (from Anchor "2. View a review"
- Edit a Review (from Anchor "3. Edit a Review"
- Review artifacts (from Anchor "4. Review artifact"
- Update artifacts, restart review and finalize (from Anchor "5. Update artifacts, restart review and finalize"
- Review and Approval (from Anchor "Review and Approval"
- Review and Approval Use Case Diagram (from Anchor "Review and Approval Use Case Diagram"
- TeamMeeting-20090113 (from Anchor "UI and Tech"
- Use Case Details for Review and Approval (from Anchor "Use Case Details for Review and Approval"

Incoming Links (3 of 3)

- Review and Approval
- Review and Approval
- Table of Contents (read this for an overview of all documents)

Document: Use Case Details for Review and Approval

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Normal Arial 9 B I U S

Open Composer2.0 Review and Approval Use Case Diagram Use Cases for Review and Approval Use Case Details for Review and Approval

Use Case Details for Review and Approval <Enter Description>

Composer2.0 | UX Designs | Feature: Review and Approval UX Design; overview; (8) (6) (0)

Use Case Details (HOW)

Definition of Review: A review is essentially a collection of artifacts, reviewers, and an overall state.

1. Create a review

User creates a review resource, which minimally includes artifacts and reviewers, and potentially other options. The reviews are listed for the project. Reviewers are notified that a review has been created, and the review is added to their User Home Page.

Who: Analyst

Main flow:

1. Opens project page.
2. Indicates they want to create a review.
3. Chooses artifacts to review. Indicates which are required and which are optional.
4. Specifies reviewers (optional, required, and approver).
5. Specifies options for review: due date, reviewer instructions, etc.
6. Sets the state of the review to "Start".
7. System creates a review and adds it to list of reviews in the Project Page.
8. System notifies reviewers that a review has been created, and adds this review to their User Home Pages.

Alternative flow:

1. Instead of 1. *Opens project page*, user can *Select multiple artifacts* from the project page and initiate a review from there. This flow would then continue to 3. *Chooses artifacts to review*, with the previously selected artifact already selected.

Sidebar:

- Overview
- Comments (8)
- Requirements (0)
- Links (6 outgoing, 2 incoming)
- Outgoing Links (6 of 6)
 - 1. Create a review (from Anchor "UX Design")
 - 2. View a review (from Anchor "UX Design")
 - 3. Edit a Review (from Anchor "3. Edit Review")
 - 4. Review artifacts (from Anchor "UX Design")
 - 5. Update artifacts, restart review and finalize (from Anchor "5. Update artifacts, restart review and finalize")
 - TeamMeeting-20090113 (from Anchor "UI and Tech")
- Incoming Links (2 of 2)
 - Review and Approval
 - Use Cases for Review and Approval

Storyboard: Create Review – Frame List

The screenshot displays the Rational Requirements Composer interface. The main window is titled "1. Create a review" and contains a "Frame List" section. The frame list is a numbered list of 14 steps, each with a corresponding frame thumbnail at the bottom of the window. The frame list is highlighted with a red border.

Frame List Create your storyboard frame list. Press 'Enter' to create a new frame. Use Ctrl+Click on a frame to edit it.

1. Review tab [Review tab - base](#)
2. New review dialog
3. Review editor is opened [Review editor - Option 2](#)
4. Enters date, add approver
5. Selects Users
6. Users added
7. Changes reviewer type
8. Change reviewer type
9. Adds artifacts
10. Chooses artifacts
11. Artifacts added
12. Adds Instructions
13. Starts review
14. Send Invitation

The interface also shows a sidebar on the right with sections for Overview, Comments (55), Requirements (0), and Links (10 outgoing, 5 incoming). The bottom of the window features a storyboard navigation bar with 11 frame thumbnails numbered 1 through 11.

Storyboard: Create Review

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced... Arial 9 B I U

Open Composer 2.0 Review and Approval Use Case Diagram Use Cases for Review and Approval Use Case Details for Review and Approval 1. Create a review x

Go To Frame List 13. Starts review <Enter Description>

Open Test project R *Initial review of ... x

R Initial review of baseline use cases

v Review State Draft Save as Draft Start Review

Click Start Review to capture the current version of artifacts User starts review.

Due date: 03/01/2009 If user closed editor at this point instead of starting review, they would be prompted to save it.

The could also save as draft (see Alternative Flow 1).

Instructions to reviewers: Bob, can you make sure you focus on Artifacts 1 -3, and Charles on Artifacts 4, 5 and 9? David please review as you have time.

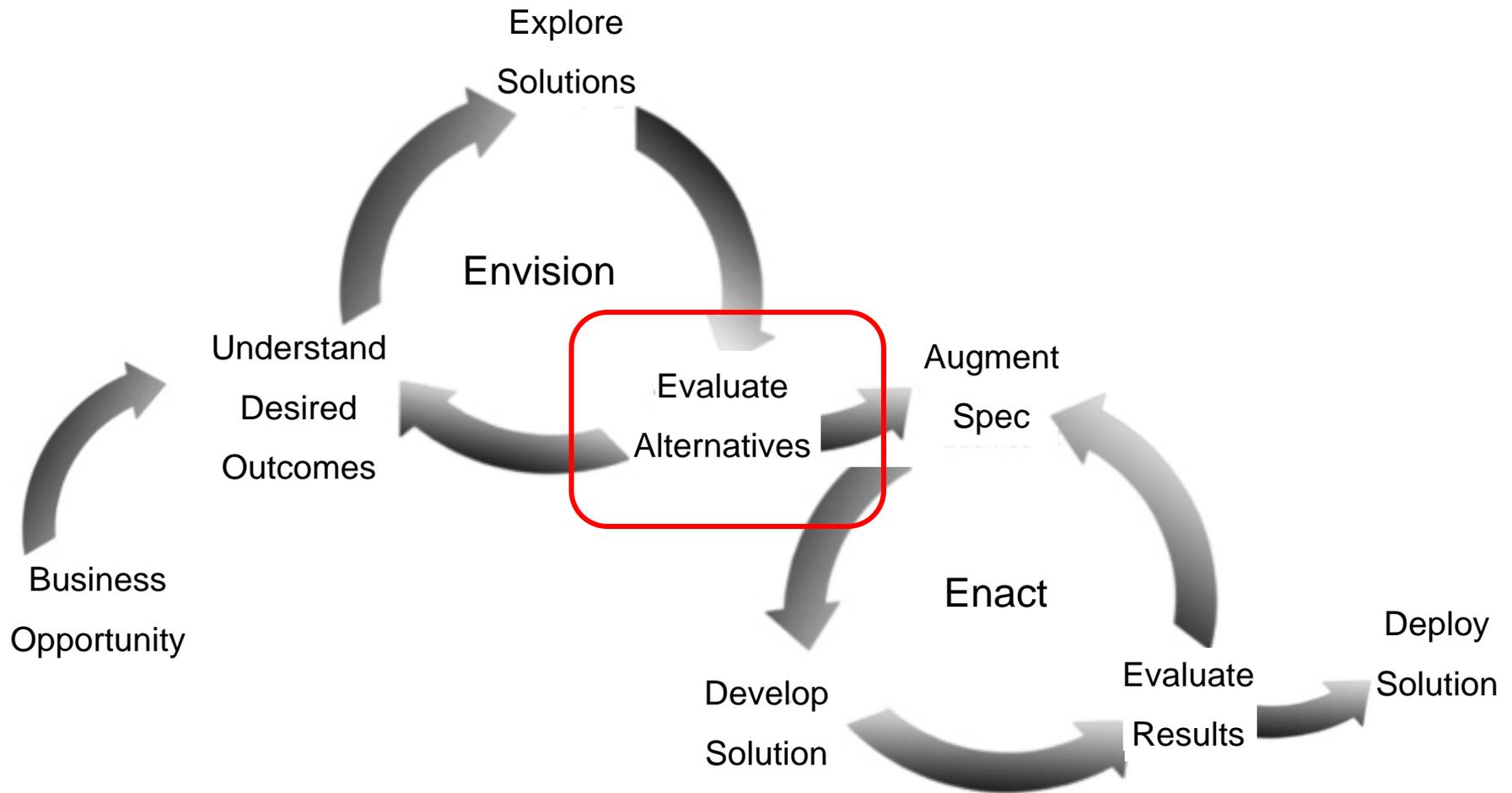
Participants

User v	Type	Status
Bob	Approver	Not started
Charles	Reviewer	Not started
David	Optional	Not started

Add Participants
Remove Participants
Set Type
Set Status
[Import from existing review](#)



A roadmap for building the right solution



Dashboard: Virtual Design for Review and Approval

The screenshot displays the Rational Requirements Composer interface. The main area shows a list of artifacts under the 'Composer2.0' project. The artifacts are filtered by tag, and the list is sorted by last modified date. The artifacts are:

Artifact Name	Type	Last Modified By	Last Modified Date	Comments	Tags
Visual Design for Review and Approval (WEB)	Storyboard	Janet Modker-Rowlatt	Jun 3, 2009 12:24:57 PM	(12)	review, web_client
Visual Design Specs for Review and Approval (RCP)	Storyboard	Janet Modker-Rowlatt	Apr 24, 2009 8:53:25 AM	(34)	review, rich_client, visual-design
Visual Design Specs for State transfer widget	Storyboard	Janet Modker-Rowlatt	Jun 5, 2009 10:36:48 AM	(1)	UX_Design, rich_client, visual-design, web_client

The interface includes a left sidebar with filter options: Filter Display by Tag, Filter Display by Attribute, and Filter Display by Folder. The top menu includes File, Edit, Navigate, Search, Window, and Help. The toolbar contains various icons for file operations and navigation.

Storyboard: Virtual Design – Rich Client

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced... Arial 9 B I U

Composer2.0 Visual Design Specs for Review and Approval (RCP)

6. Display showing the review life-cycle

Initial Baseline Review

Review State: Draft

Review State: Draft

Review State: Draft

Review State: Started

Review State: Reviewed

Review State: Finalized

Review State: Paused

Review State: Review Started

A review is in the Started state, once the creator of the review starts the review

Participants

User	Role	Status
Kirk Grotjohn	Optional Reviewer	Not started
Devang Parikh	Reviewer	Not started
Janet Mockler	Reviewer	Not started
Bill Andreas	Reviewer	Not started

Artifacts

Artifact	Version	Required	Status
7. Reference baseline	Feb 01, 2009 9:56 AM	Yes	Not started
6. Restore a baseline	Jan 31, 2009 10:00 AM	Yes	Not started
5. View and browse baseline artifacts	Dec 15, 2008 08:56 AM	Yes	Not started
4. Modify a baseline	Feb 01, 2009 9:56 AM	Yes	Not started

Overview

Comments (34)

Requirements (0)

Links (36 outgoing, 0 incoming)

Outgoing Links (36 of 36)

1. Create a review (from Hyperlink "Lin
- 1.4 (from Image
- 1.5 (from Image
2. View a review (from Hyperlink "Link t
3. Edit a Review (from Hyperlink "Link t
4. Review artifacts (from Hyperlink "Lin
5. Update artifacts, restart review and
- LC-2 (from Image
- VD-1 (from Image
- VD-1 (from Image
- vd-1.1 (from Image
- vd-1.5 (from Image
- vd-1.5 (from Image
- VD-2 (from Image
- VD-2 (from Image
- VD-2 (from Image
- vd-2.2 (from Image

Add Participants

Remove Participants

Change Participants

Import from existing review

Add Artifacts

Remove Artifacts

Change Artifacts

Move Up

Storyboard: Virtual Design – Web Client

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced... Arial 9 B I U

Open Composer 2.0 Visual Design Specs for Review and Approval (RCP) *Visual Design for Review and Approval (WEB) x

Go To Frame List 15. Review Editor in the overall review section <Enter Description> Composer 2.0 | UX Designs | Feature: Review and Approval web_client; review; (12) (14) (0)

Rational Some Product

http://somerelevant-url.com

Rational Requirements Composer Bob Alden | Log Out | Type to search

Open Composer 1.0 x Initial Baseline Review x

Initial Baseline Review

Your Review: Reviewed Your role: Reviewer

Review State: Started

Due:

Instructions: Janet can you make sure you focus on Artifacts 1,4, and Bill on Artifacts 5,6 and 7? Devang please review as you have time.

Participants

Participant	Type of Participant	Review results
Kirk Grotjohn	Approver	x ✓ ✓ ✓ ○ ○ ○
Devang Parikh	Optional Reviewer	○ ○ ○ ○ ○ ○ ○
Janet Mockler	Reviewer	✓ ✓ ✓ ✓ ✓ ✓ ✓
Bill Andreas	Reviewer	✓ ✓ ✓ ✓ ✓ ✓ x

Overview

Visual Design for Review and A...

Project: Composer 2.0

Created On: Apr 20, 2009 11:30:5...

Modified On: Jun 3, 2009 12:24:57 PM

Modified By: Janet Mockler-Rowlatt

+ Add attributes

Comments (12)

Requirements (0)

Links (Loading...)

RRC V2 – UXD Planned Items

Rational Team Concert Your Trial License expires in 56 days | Robin Bater | Log Out | ?

Dashboards Project Areas Work Items **Plans** Builds Reports Rational Requirements Composer

UXD

Team Area: UI Design | Iteration: 2.0 Release (11/17/08 - 9/22/09) | 87 Closed | 144 Open

Overview **Planned Items** Charts

Progress: 645.75/1,400.75 | -187.75 h Estimated: 65%

View As: Work Breakdown

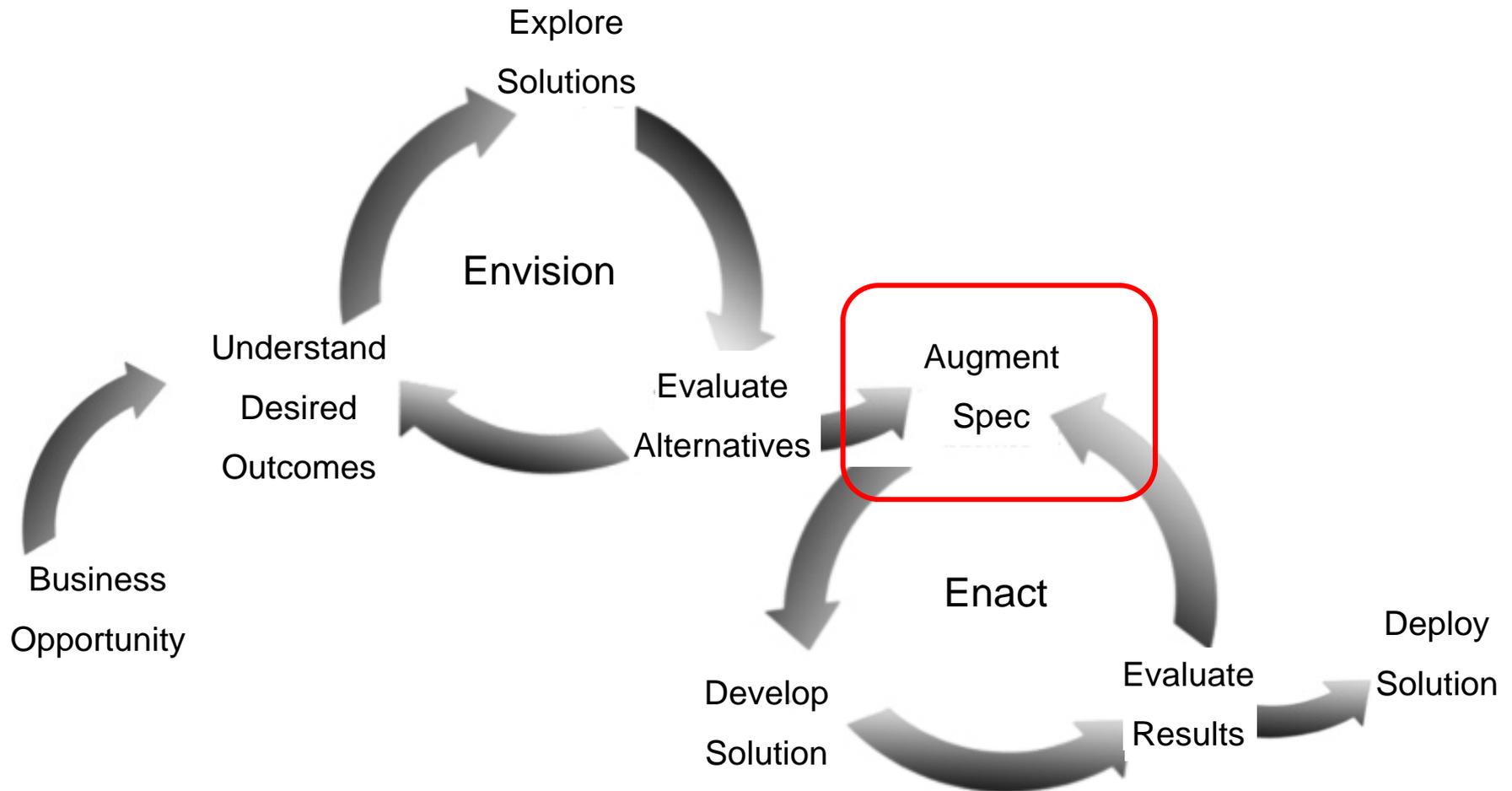
Janet Mockler		Load: 268/456 +188 h	Estimated: 98%
▶	RTC Integration	Committed 4/8 h	13917
▶	Review and Approval	Committed 152/208 h	13783
▶	Feature: Review and Approval	High 104/128 h	13508
▶	Review and Approval State Transfer widget ⌚ 3 days	Medium 152/208 h	15264
▶	Web: Platformization	High 58.5/122.5 h	13942
▶	Stretch: Commenting Enhancements	High 0/100 h	13833
▶	General Iconography for 2.0 release	Medium 31/31 h	14418
▶	Stretch: Saving and sharing project dashboard settings	Medium 0/24 h	13826
▶	General Rich Client Usability Improvements	Medium 148.75/243.75 h	13501
▶	Older Things (mostly all closed)	Low 171.5/179.5 h	13516
John Williams		Load: 40/180 +140 h	Estimated: 75%
▶	Config Tool Enhancements	High 0/40 h	13909
▶	General Rich Client Usability Improvements	Medium 148.75/243.75 h	13501
Kirk Grotjohn		Load: 159/720 +561 h	Estimated: 56%
▶	C/ALM Integration	Committed 0/160 h	13916
▶	Review and Approval	Committed 152/208 h	13783
▶	Feature: Review and Approval	High 104/128 h	13508
▶	Review and Approval State Transfer widget ⌚ 3 days	Medium 152/208 h	15264
▶	Baselining	Committed 80/120 h	13782
▶	DOORS Integration	Committed 0/40 h	10348
▶	Stretch: Commenting Enhancements	High 0/100 h	13833
▶	General Rich Client Usability Improvements	Medium 148.75/243.75 h	13501
▶	Older Things (mostly all closed)	Low 171.5/179.5 h	13516

45

© 2009 IBM Corporation



A roadmap for building the right solution



Document: Review Editor (Edit) – UI specs

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Normal Arial 11 B I U S

Open Composer 2.0 01. Review Editor (Edit) - UI specs x

01. Review Editor (Edit) - UI specs <Enter Description>

Composer 2.0 | UX Designs | Feature: Review and Approval UX Design; (1) (4) (0)

This document describes UI specifications, focusing on UI layout, functions and interaction. Images are meant to convey rough visual designs. Detailed visual blueprints, where necessary, will be described separately.

1. Review Editor - "Review State" section

This section of the review is for editing the review as well as showing the current state of the review. It is a different view of the same review as shown in the "Your Review" section (Section 2). It will primarily be used by the creator of the review.

All users can see this section, although only creators of the review or users with `admin` rights can edit it (for all others, the action buttons should be hidden). When the review is in draft state, this will be the top section (after the review is started, "Your Review" will be the top section).

The following document describes what a user can see and do based on their role and the state of the review: [Views and actions for reviewers and non-reviewers](#)

Review Editor components map

Initial review of baseline use cases

Review State: Draft Start Review

Due date:

Instructions to reviewers: Bob, can you make sure you focus on Artifacts 1-3, and Charles on Artifacts 4-5 and 9? David please review as you have time.

Participants

User	Type	Status
Bob	Approver	In Progress (70% complete) 1 Disapproved
Charles	Reviewer	Not started
David	Optional	Reviewed

Comments

Overview

Comments (1)

Requirements (0)

Links (4 outgoing, 1 incoming)

Outgoing Links (4 of 4)

- Artifacts list (from Embedded Diagram)
- Review Editor components map (from Embedded Diagram)
- Reviewers list (from Embedded Diagram)
- Views and actions for reviewers and non-reviewers

Incoming Links (1 of 1)

- 0. UI Component Specs - TOC

Document: Views and actions for reviewers and non-reviewers

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Normal Arial 11 B I U

Open Composer2.0 01. Review Editor (Edit) - UI specs Views and actions for reviewers and non-reviewers x

Views and actions for reviewers and non-reviewers >

<Enter Description>

Composer2.0 | UX Designs | Feature: Review and Approval (0) (1) (0)

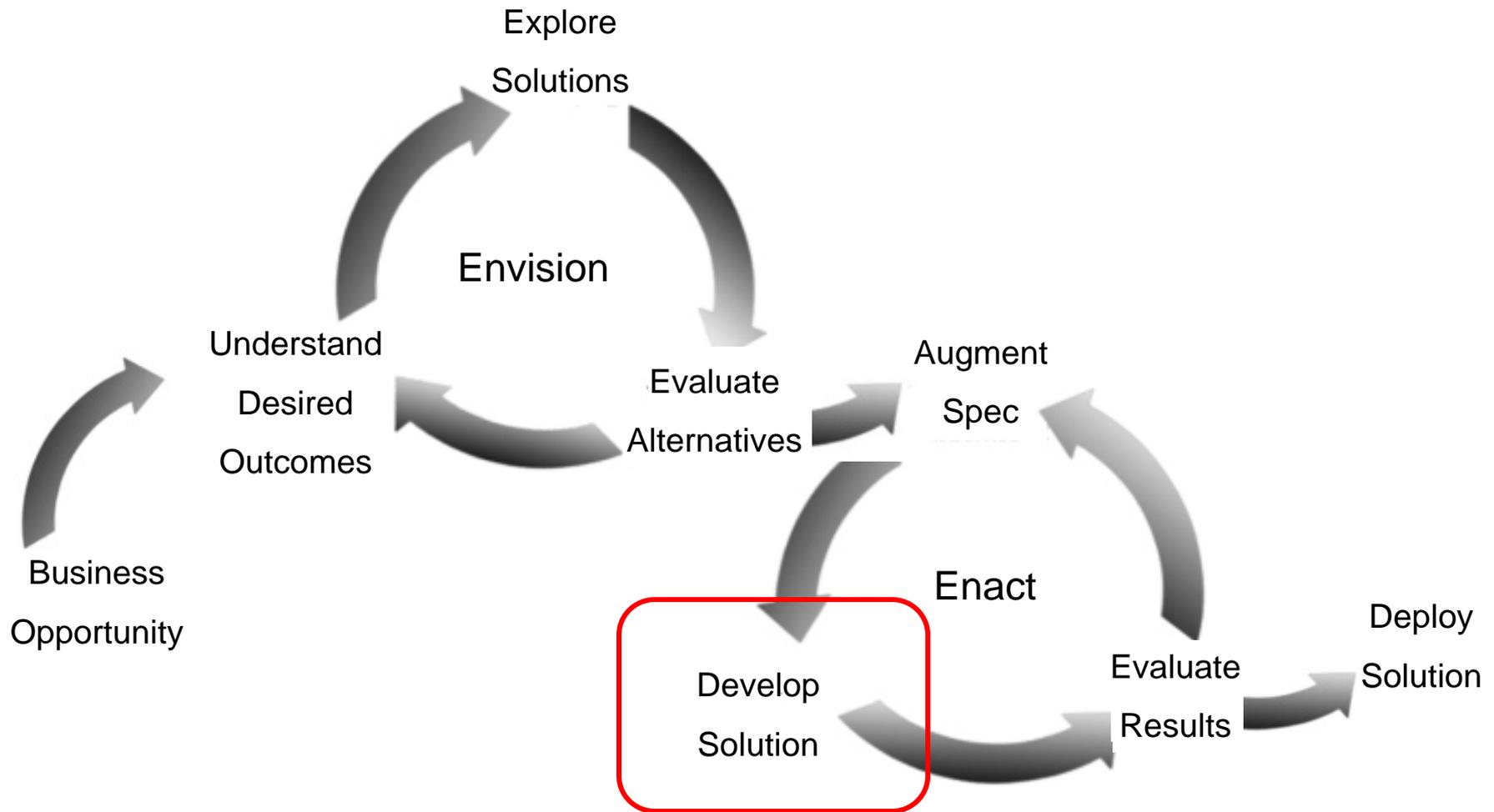
I think the current designs are a little unclear on what happens when you open a review artifact from different states of the review, or based on whether you are a reviewer or not. This table hopefully clears this up. Let me know if there's anything in here you don't understand or disagree with.

Note that the last column applies to whether you open an artifact from the My review section or the Overall review section. We might also want to consider a context menu action to "Open current version".

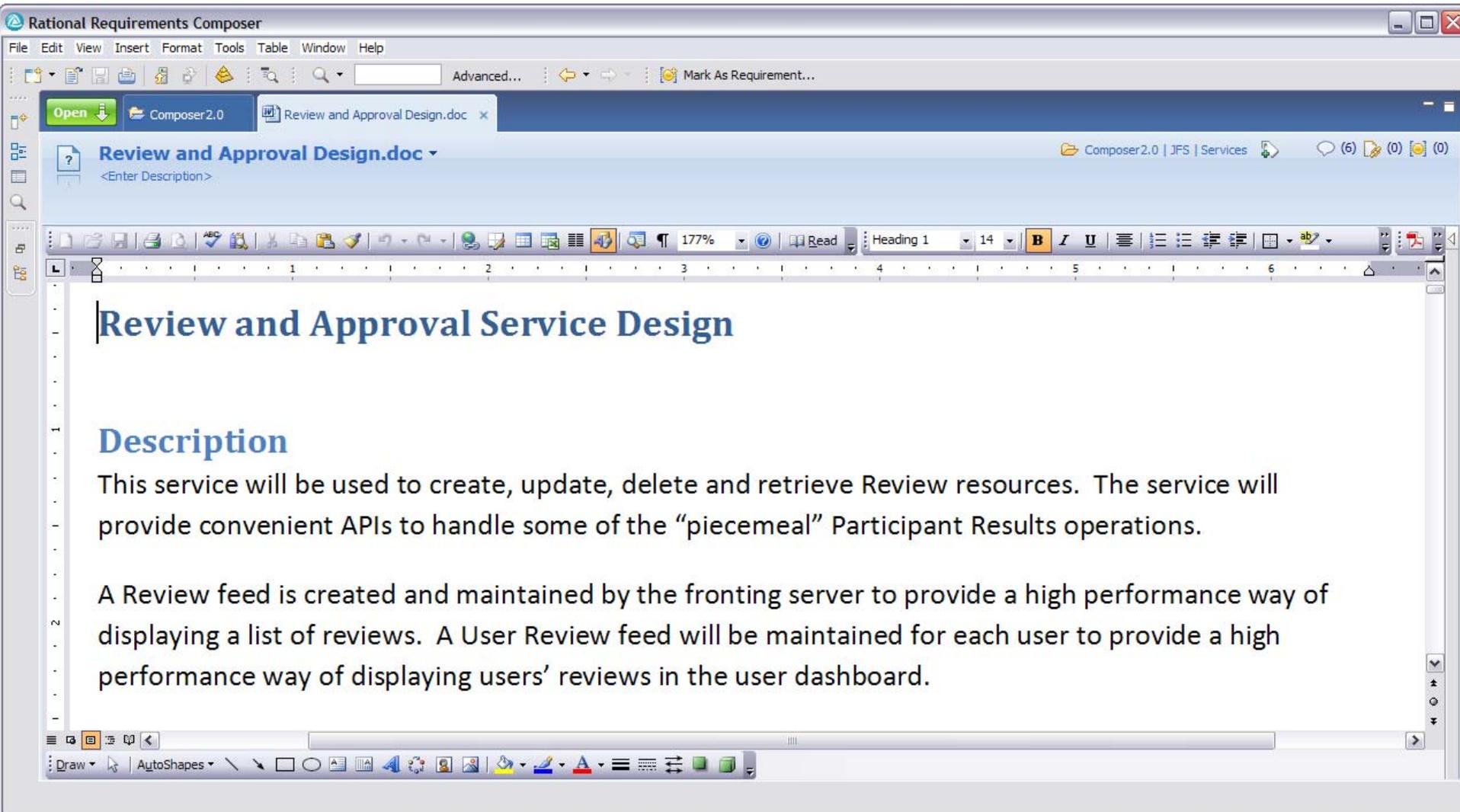
Role	Opens review from:	Review State	Review sections shown	Opening artifact, what they see/can do?
Reviewer	<ul style="list-style-type: none"> Project page sidebar after review is started: User home page E-mail link 	Draft	Overall review (Individual reviewer page doesn't exist yet)	<ul style="list-style-type: none"> Opens head version of artifact (since specific version hasn't been captured yet). Normal artifact editing capabilities (including normal commenting)
		Started	Overall review My Review	<ul style="list-style-type: none"> Opens review artifact editor with all reviewing capabilities Comments added are flagged as review comments.
		Stopped	Overall review My Review (with action buttons disabled)	<ul style="list-style-type: none"> Opens review artifact editor showing status, but action buttons (Approve, etc.) disabled. Commenting disabled
		Complete	Overall review My Review (with action buttons disabled)	<ul style="list-style-type: none"> Opens review artifact editor showing status, but action buttons (Approve, etc.) disabled. Commenting still enabled (and flagged as review comments) (can't change vote, but can still add comments)
		Finalized	Overall review My Review (with action buttons disabled)	Same as Stopped
Non-reviewer	<ul style="list-style-type: none"> Project page sidebar 	Draft	Overall review	<ul style="list-style-type: none"> Opens head version of artifact (since specific version hasn't been captured yet). Normal artifact editing capabilities (including normal commenting)
		Started	Overall review	<ul style="list-style-type: none"> Opens review artifact editor showing overall status.



A roadmap for building the right solution



Word Document: Review and Approval Service Design



The screenshot displays the Rational Requirements Composer application window. The title bar reads 'Rational Requirements Composer'. The menu bar includes 'File', 'Edit', 'View', 'Insert', 'Format', 'Tools', 'Table', 'Window', and 'Help'. The toolbar contains various icons for file operations and editing. The main workspace shows a document titled 'Review and Approval Design.doc' with a description of a service design. The document content is as follows:

Review and Approval Service Design

Description

This service will be used to create, update, delete and retrieve Review resources. The service will provide convenient APIs to handle some of the “piecemeal” Participant Results operations.

A Review feed is created and maintained by the fronting server to provide a high performance way of displaying a list of reviews. A User Review feed will be maintained for each user to provide a high performance way of displaying users’ reviews in the user dashboard.

RRC V2 – <http://open-services.net/bin/view/Main/RmHome>

Main

Log In or Register

Main Web

Create New Topic
Index
Search
Changes
Notifications
RSS Feed
Statistics
Preferences

Webs

Main
Sandbox
TWiki

TWiki > Main Web > RmHome (21 May 2009, IanGreen)

Edit Attach

Requirements Definition and Management

Introduction

The goal of this effort is to define a common set of resources, formats and [RESTful](#) services for the *use in* Requirements Definition and Management tools and *use by* (for example) [systems engineering](#) or [ALM](#) tools that will enable the effective use of requirements across a development life-cycle.

[Requirements Management](#) (RM) resources define the requirements or capabilities of a system or the outcome of some programme of work. We use the term *system* entirely generally and without prejudice to software, hardware, IT, regulatory, business etc.

Requirements are the basis for defining what the system stakeholders (users, customers, suppliers and so on) need from a system and also what the system must do in order to meet those needs, and how the surrounding processes must be orchestrated so that quality, scope and timescale objectives are satisfied. The discipline of requirements management involves many activities including elicitation, definition, documentation, analysis, decomposition, validation and justification; it involves managing changes to requirements and establishing and reasoning about their interrelationships. It involves the creation of assets which are invariably related to other systems and processes. RM is inherently multi-disciplinary and across the life-cycle; it brings together all assets across the life-cycle, ascribing them meaning, captures their dependencies and interrelationships and ultimately, captures the way in which they together produce the desired system.

Requirements management activities

- Elicitation, definition and communication introduce requirements in such a way that relevant stakeholders can understand and agree that the system will meet their needs.
- Gathering requirements and related assets into a coherent set, for example as a set of requirements documents, as part of forming a precise overarching specification of the system. Such a set of requirements is often part of a contractual agreement between parties, for example.
- Analysis aids the understanding of requirements and enables the expression of refactored, decomposed, refined, elaborated, or clarified requirements. Assets such as system models may be created during such analysis.
- The need to validate the system induces the need to create test requirements that demonstrate that all requirements have been met, and thus, for example, that contractual obligations have been discharged.
- The need to deal with ambiguity, complexity or testability of a requirement leads to lower-level, related *derived* artefacts. These derived artefacts may be requirements, or they could be from some other system, such as change requests, diagrams stored in a PLE system and so on.
- The recording and management of the *links* created as part of each of these processes is central to understanding the meaning of requirements, assessing the impact of proposed or actual change and, through the recording of rationale information, validation that lower-level requirements are correctly derived from higher-level requirements.
- The need to plan the scope of a release or milestone in order that the requirements that are to be met are known and meaningful and will meet the stakeholders' needs.

Traceability analysis

Impact analysis exploits the links created during such derivation and analysis in order to understand the ramifications of actual or proposed changes to higher-level requirements. In this way the impact to the system, or aspects of its delivery can be assessed and acted upon.

Derivation analysis exploits links in order to inform cost/benefit analysis processes, or to understand the rationale for some parts of the system, and the ramifications of actual or proposed change to those parts.

Participants

[IanGreen](#) (lead)
[GeorgeDeCandia](#)
[SteveAbrams](#)
[AndyBerner](#)

Feedback

[Specification comments and issues](#)

Mailing List

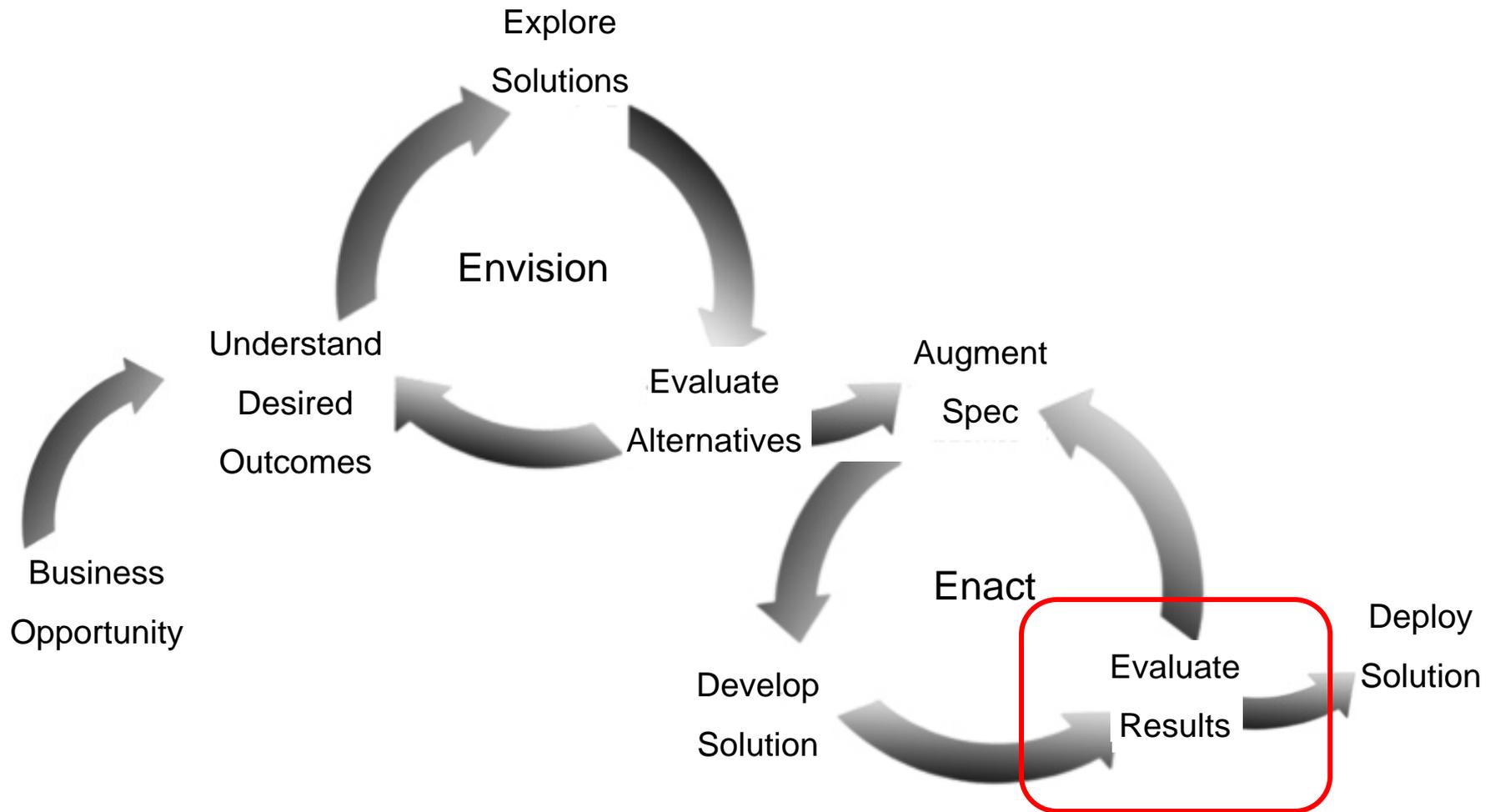
[General Open Services](#)

Requirements for discussion

[Please add stakeholder requirements here](#)



A roadmap for building the right solution



RRC V2 – early development demo

Meeting Player - C:\Documents and Settings\Administrator\My Documents\RRC 2.0\March_30,_2009_-_RRC_Managed_Beta_call__demo+of+Review+and+Approval_Part+1.rmv

File View Tools Help

Desktop Stef van Dijk

Rational Requirements Composer

File Edit Navigate Search Window Help

Project Explorer

- Local 2.0 server
 - SVD ClassicCD
 - Rosa's 2.0 server
 - SVD Project

Open SVD ClassicCD *Review Actors x

Review Actors

Review the set of actors in my project

Current State: **Draft** Save as Draft Start Review Add reviewers and artifacts, then click "Start Review"

Due Date: 4/13/09 Select Date

Instructions for reviewers: Eric is not required to review but would really appreciate his feedback.

Reviewers

Add Remove Change Type

Name	Type	Status
Stef	Reviewer	Not started
Eric	Optional Reviewer	Not started

Artifacts

Add Remove

Artifact	Version	Status
Administrator	Set when review is started	Not started
Shopper	Set when review is started	Not started

Video (Not Available)

No Video Available

00:04:47 / 00:21:29 Paused

Title March 30, 2009 - RRC Managed Beta call _demo
 Moderator Paula Cox
 Date 03/30/09 07:22 AM

RSC 2009 UI and Usability feedback and responses

Rational Requirements Composer

File Edit Navigate Search Window Help

Advanced...

Normal Arial 11 B I U G

Open Self-Host Task 15966: Polish and adopt latest UX spec for Recent Comment - IBM Rational Team Concert Composer 2.0 UI and Usability feedback and responses

Composer 2.0 | RSC Demos (0) (0) (0)

UI and Usability feedback and responses >

<Enter Description>

Bill's notes on Voice, and related work.

From: Bill Andreas/Westford/IBM@IRIS

To: Kirk Grotjohn/Raleigh/IBM@IBMUS, Janet Mockler/Toronto/IBM@IBMCA

Date: 06/15/2009 05:31 PM

Subject: Annotated: Some assorted comments from customers at VOICE/RSC

I scribbled a bunch of comments on our new RRC 2.0 features while talking to customers at VOICE/RSC. This note summarizes these comments. I've marked each comment with a note as to whether or not I think we should do something about it in our designs (in other words if we should add them to the design and create a workitem for them). Before making a workitem, I thought I'd put this out for comment.

Review and Approval

1. Want Delegation

-- owner can delegate "ownership" of the review to someone else. An approver or reviewer can delegate to someone else. (Cited Notes calendar and scheduling delegation as a model).

Sidebar

Overview

UI and Usability feedback and responses

Project: Composer 2.0

Created On: Jun 18, 2009 8:19:06 AM

Modified On: Jun 19, 2009 9:54:18 AM

Modified By: D. K. Grotjohn

+ Add attributes

Comments (0)

Requirements (0)

Links (0 outgoing, 0 incoming)

RRC – Key benefits experienced by the RRC team

- Elicited more and better feedback before code is written (both requirements and feature design). Enabled the team to converge faster on the “right” requirements and reduced churn/rework that would have resulted otherwise.
 - ▶ Increased range and depth of stakeholder participation.
 - ▶ Better information visibility enabled the team to identify gaps and clarify misunderstandings more quickly.
- RRC developers communicated better among themselves, especially across component teams. This “lower cost, higher value communication” made the development team more productive



Stakeholders

■ Product manager

- ▶ *“RRC made possible a new level of transparent collaboration between our various stakeholders...the product management team was more involved in early reviews of feature designs. Information was more visible, and RRC's collaborative platform made it easier to provide feedback on a daily basis. This led to better decisions made earlier, fewer surprises, and less rework due to misunderstood requirements.”* – Daniel Moul

■ User Experience Design

- ▶ *"Using the UI sketches and storyboards, you can very quickly create some high level designs that illustrate the basic flow, UI components, layout, etc. You can then get immediate feedback from anybody on the product team and easily iterate on UI designs based on the feedback."* – Kirk Grotjohn, User Experience Engineer

■ Architect

- ▶ *"Composer allowed me to enable scenario driven development and address the key pain points in defining integrations with other products. Composer has definition techniques that brought clarity to aspects like Release Requirements, Green Thread/ Scenario Definitions, Technical Architecture, Data Model (Resource Representations), System Use Cases, Usability, and Integrations with other products. The Collaboration capabilities allowed me to quickly socialize with key stakeholders..."* – Vishy Ramaswamy, Rational Requirements Composer Architect

Stakeholders

■ Quality Test Engineers

- ▶ *“It was a “one stop shop” to get everything needed related to design and proposed implementation. This makes collecting input for testing easier”* – Mario Maldari, System Test Lead

■ Developers

- ▶ *“As a collaborative leader, Composer is a perfect fit for me. It allowed me to share ideas easily using comments, composer sketches and textual documents”* - Devang Parikh, Development Lead

■ Consultants

- ▶ *“..As a member of the field I am not invited or able to attend many of the development discussions, so by spending 10 minutes, I log onto the self-host project dashboard and see what is new...and if there is clarification or contribution I can make I add a comment and direct it to the appropriate team member”* – Robin Bater





Learn more at:

- [IBM Rational software](#)
- [Rational launch announcements](#)
- [Rational Software Delivery Platform](#)
- [Accelerate change & delivery](#)
- [Deliver enduring quality](#)
- [Enable enterprise modernization](#)
- [Ensure Web security & compliance](#)
- [Improve project success](#)
- [Manage architecture](#)
- [Manage evolving requirements](#)
- [Small & mid-sized business](#)
- [Targeted solutions](#)
- [Rational trial downloads](#)
- [developerWorks Rational](#)
- [Leading Innovation](#)
- [IBM Rational TV](#)
- [IBM Business Partners](#)
- [IBM Rational Case Studies](#)

© Copyright IBM Corporation 2009. All rights reserved. The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way. IBM, the IBM logo, Rational, the Rational logo, Telelogic, the Telelogic logo, and other IBM products and services are trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.

Trademarks, copyrights, and disclaimers

The following terms are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both:

ClearCase IBM Rational

Rational is a trademark of International Business Machines Corporation and Rational Software Corporation in the United States, Other Countries, or both.

Product data has been reviewed for accuracy as of the date of initial publication. Product data is subject to change without notice. This document could include technical inaccuracies or typographical errors. IBM may make improvements or changes in the products or programs described herein at any time without notice. Any statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. References in this document to IBM products, programs, or services does not imply that IBM intends to make such products, programs or services available in all countries in which IBM operates or does business. Any reference to an IBM Program Product in this document is not intended to state or imply that only that program product may be used. Any functionally equivalent program, that does not infringe IBM's intellectual property rights, may be used instead.

Information is provided "AS IS" without warranty of any kind. THE INFORMATION PROVIDED IN THIS DOCUMENT IS DISTRIBUTED "AS IS" WITHOUT ANY WARRANTY, EITHER EXPRESS OR IMPLIED. IBM EXPRESSLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT. IBM shall have no responsibility to update this information. IBM products are warranted, if at all, according to the terms and conditions of the agreements (for example, IBM Customer Agreement, Statement of Limited Warranty, International Program License Agreement, etc.) under which they are provided. Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products in connection with this publication and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products.

IBM makes no representations or warranties, express or implied, regarding non-IBM products and services.

The provision of the information contained herein is not intended to, and does not, grant any right or license under any IBM patents or copyrights. Inquiries regarding patent or copyright licenses should be made, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. The actual throughput or performance that any user will experience will vary depending upon considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve throughput or performance improvements equivalent to the ratios stated here.

© Copyright International Business Machines Corporation 2009. All rights reserved.

Note to U.S. Government Users - Documentation related to restricted rights-Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract and IBM Corp.