



IBM Rational Software Conference 2009
As Real as It Gets!



Requirements Definition with IBM Rational® Requirements Composer for IBM Rational® DOORS® Users

Jared Pulham

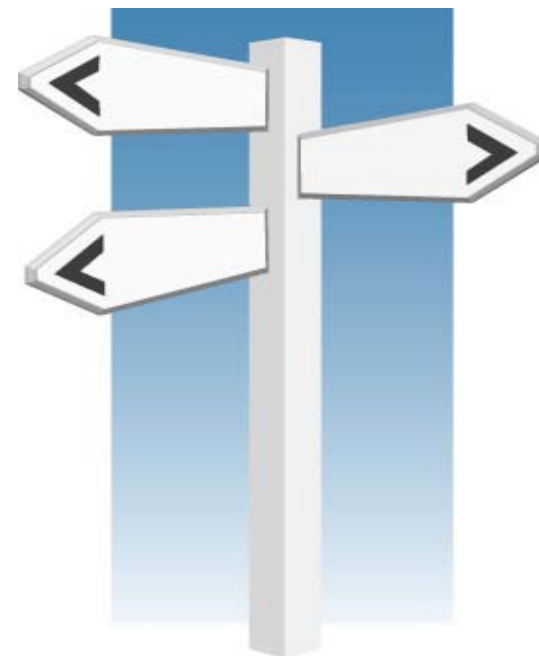
Senior Product Manager, Requirements Management Tools

Rational. software

IRE11

Agenda

- Requirements issues and root causes
- Requirements objectives for IT projects
- IBM Rational solution
 - ▶ Featuring Requirements Composer and DOORS
- Summary
- Demo
- Q&A



The usual disclaimer

- This presentation includes comments on future product direction and strategy
- Plans are based on best information available and may change in the future



Information

Requirements issues ripple across teams, creating shared pain, not shared vision



CIO / IT Director

Business objectives are not met, ROI is insufficient



Project Manager

Impact of change is unknown, delays are unpredictable



Analyst

Stakeholders and developers interpret the same thing differently

Redundant activities: 10% of budget
Rework: 30% of budget
Delays: 15% late to market



Stakeholder

Requirements are met, but the solution does not solve the problem



Tester

Tests did not reflect actual user scenarios, defects went detected



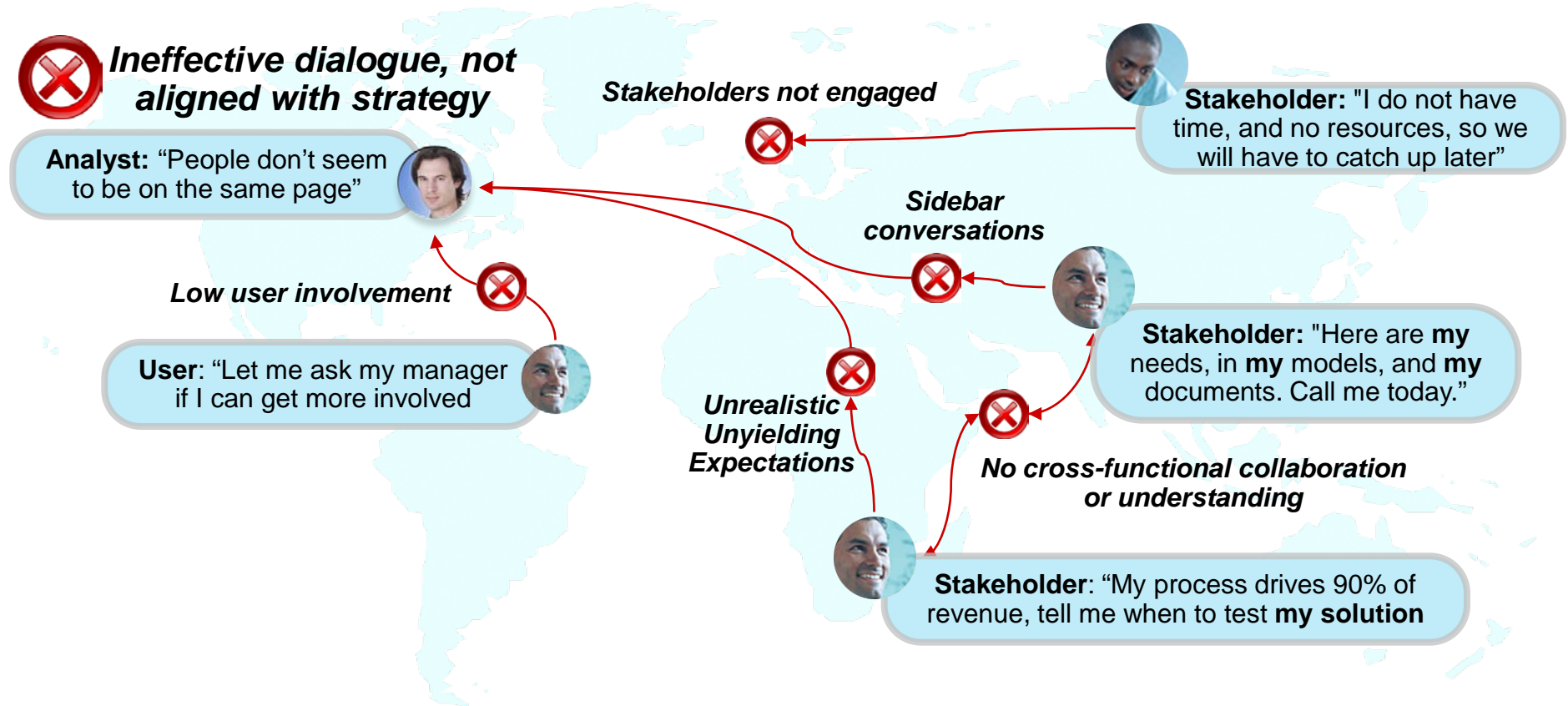
Developer

Requirements lack "big picture" context, too much guesswork



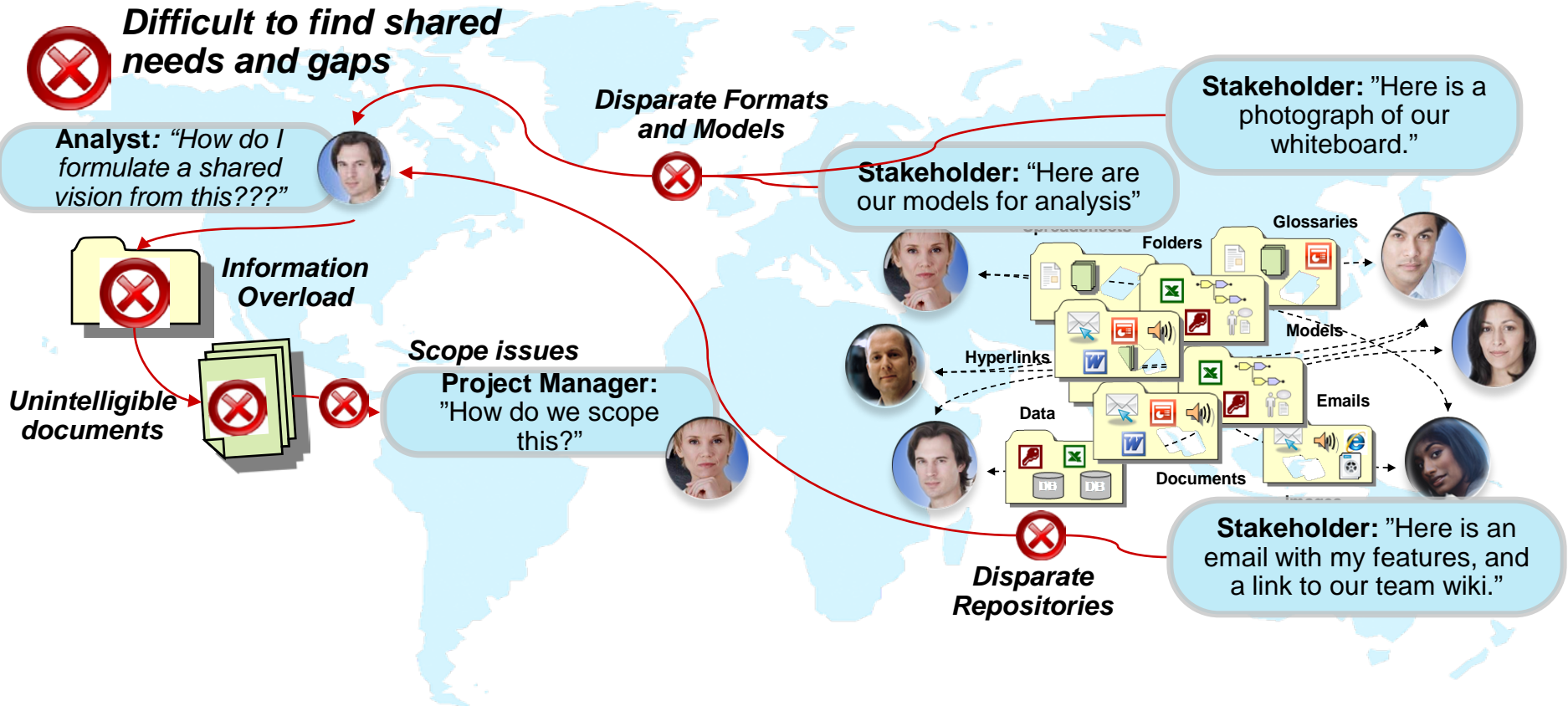
Collaboration between Business and IT stakeholders is shaky at best

Impacts efficiency, quality and customer satisfaction



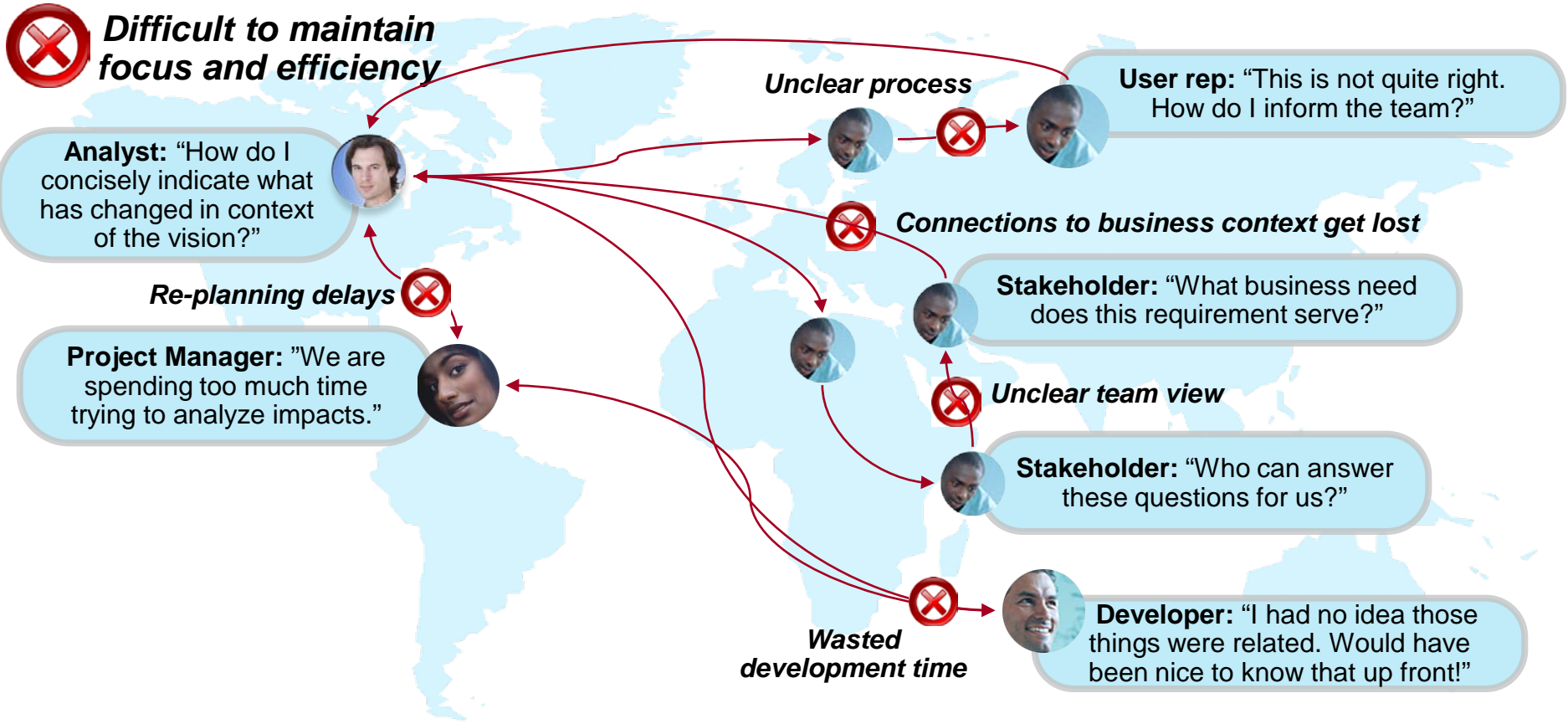
Difficult to capture and organize info to support decision making

Difficult to derive a shared vision focused on business needs



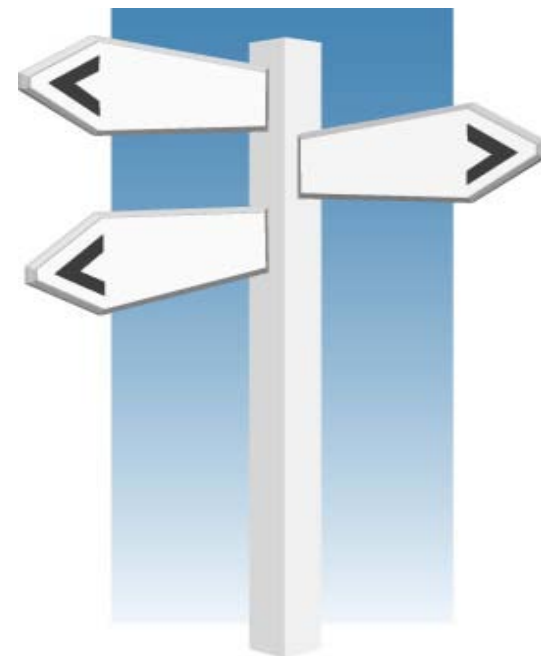
Focus and productivity are compromised when the requirements change

Excessive time and effort is spent analyzing impacts and re-planning



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Requirements Definition & Management for Business Value



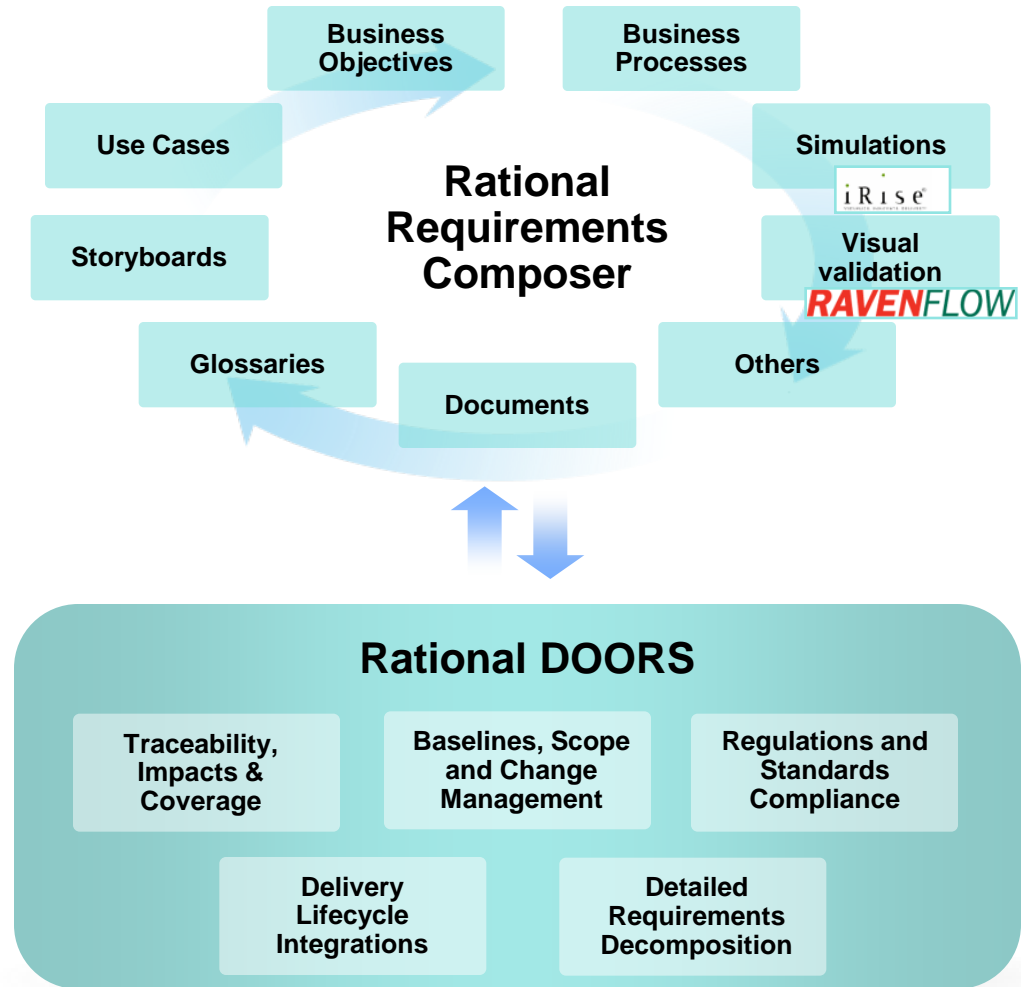
Collaborate in context across teams, locations and time zones



Capture, connect and organize the web of requirements into a shared vision

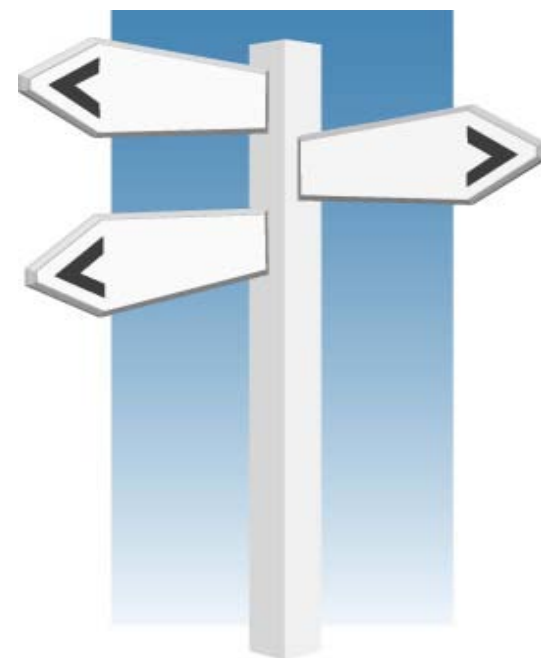


Manage requirements across the lifecycle to guide execution for business value



Agenda

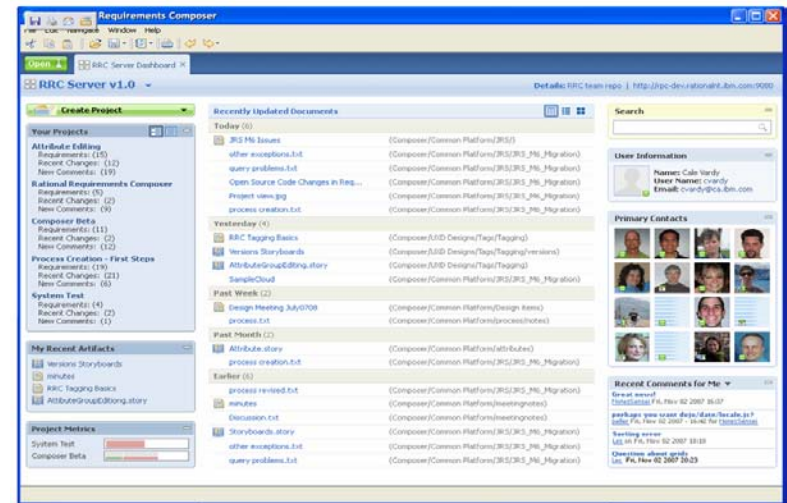
- Requirements issues and root causes
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Foster community focus with *collaborative infrastructure*



- **Project and user dashboards** focus members on work they are collaborating on, and who they are collaborating with
- **Centralized repository** allows searchable, traceable, interconnected view of past, present and future requirements
- **Security controls** ensure that teams and partners only have access to the appropriate content
- Jazz collaborative infrastructure focuses teams on requirements through **commenting, linking artifacts, team communications** and work **metrics**



Jazz

Engage stakeholders directly



- **Web client** for reviewers
- **Review/Approval process** with notifications
- Enhanced **dashboards** for real time status
- Create **tags**, run **queries** to categorize and filter information

2.0

Rational Requirements Composer

Kirk Grotjohn's Dashboard

General

Welcome to Rational Requirements Composer
Use this product to elicit, capture, elaborate, discuss, and review requirements using a variety of tools.

Product Overview
Elicit, capture, elaborate, discuss, and review requirements using a variety of requirements definition techniques and collaboration capabilities.

Tutorials
Creating documents, requirements and other artifacts
Creating User Interface Sketches, User Interface Parts, and Screen Flows

Product Tour
Learn about the user interface and main features of Rational Requirements Composer

My Projects (106, 3 favorites)

Composer2.0	2	2	2
RRCReqIntegration	4	4	4
RRCVisIntegration	2	2	2
BaterBank	1	1	1
ClassicCD	2	2	2
Composer 0	3	3	3
Composer 1 Planning	4	4	4
ComposerPM	5	5	5
RRC Insight Integration	2	2	2
RRCIntegration	3	3	3
Support Training	4	4	4

Reviews (4 open)

Originator: Feb 01, 2009
CALM Scenarios Linking Dialog ...

Approver: Feb 01, 2009
CALM Scenarios Linking Dialog ...

Reviewer: Feb 01, 2009
Attribute Filtering review ...

Optional Review: Dec 23, 2008
CALM Integration Review ...

Comments (20)

Marco Cassio to Bob Alder, Patricia Bader 3 hours ago
Composer2@HighLevelGreenTeam

Patricia Bader 10 hours ago
Composer2@HighLevelGreenTeam

Tanya Padua to PD, AL, TF, RE, MC, CO, TP, BA Yesterday
Baseline Story Board

Patricia Bader to Jerald Ajaye Yesterday
Composer2@HighLevelGreenTeam

Artifacts (0)
You have not opened any artifacts yet

Requirements (10)

Show artifact history for web 12 hours ago

JFS Adaption 24 hours ago

DOORS Integration Yesterday

Page 1 of 2

Collaborate in context across teams, locations and time zones



✓ Focused dialogue, analysis and collaboration drives results

Analyst: Traceable conversations, faster iterations, fewer meetings



✓ Engaged Stakeholders

Stakeholder: "I see the team and their roles, and can identify the missing players"

✓ Open conversations

Stakeholder: "Messages and discussion threads focus us on the big picture, and level-set"

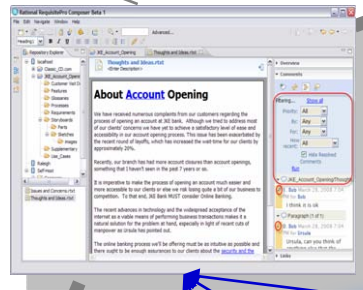
✓ Consistent expectations and understanding

Stakeholder: "I see the solution taking shape, and see where there is still work to do as a team"

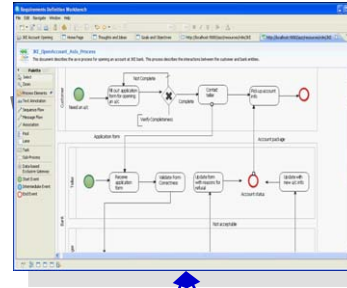
Capture connect and organize the web of requirements



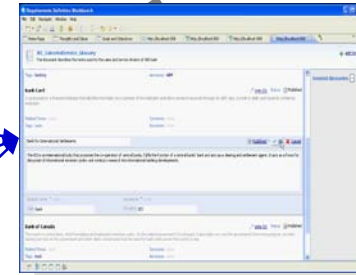
Use **Documents** to capture structured and unstructured information



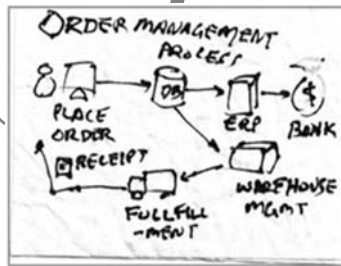
Capture current and future state with **Business Processes**



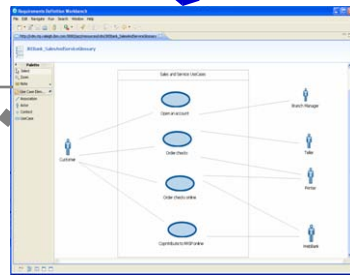
Remove ambiguity with shared business and technology **Glossaries**



Include pictures, presentations, MP3s or any other kind of file in your web of requirements information



Identify **Use Cases** with diagrams and elaborate them with rich text



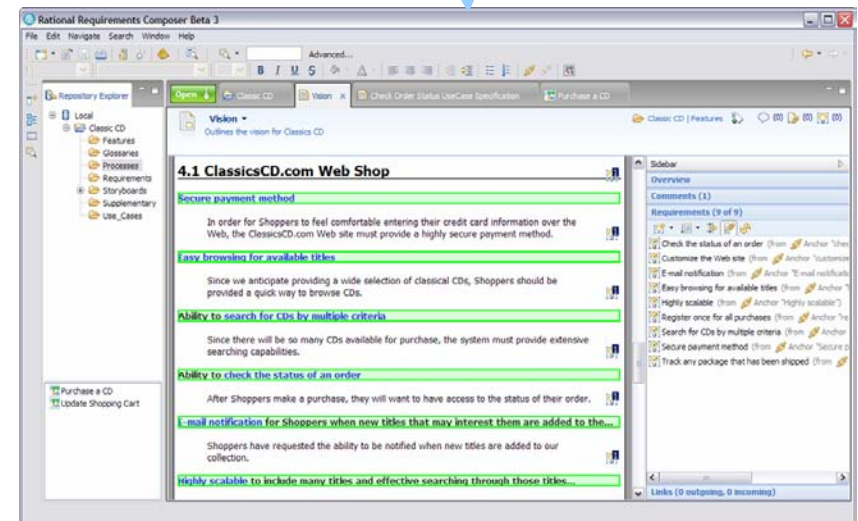
Visualize the User Experience with **UI Sketches and Storyboards**



Organize the vision into *rich-text Documents*



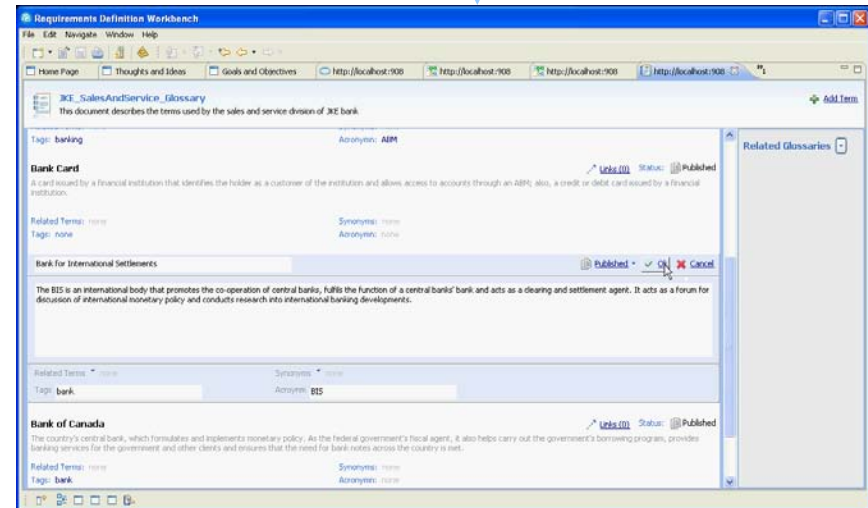
- Organize text, hyperlinks, images and embedded diagrams** into cohesive vision and specification documents
- Link document contents to anything:** glossary terms, business processes, use cases, user-interface sketches, storyboards, etc.
- Create composite documents for review and sync with DOORS**
 Embed live artifacts to focus collaborative validation



Unify teams around shared terminology with *Glossaries*



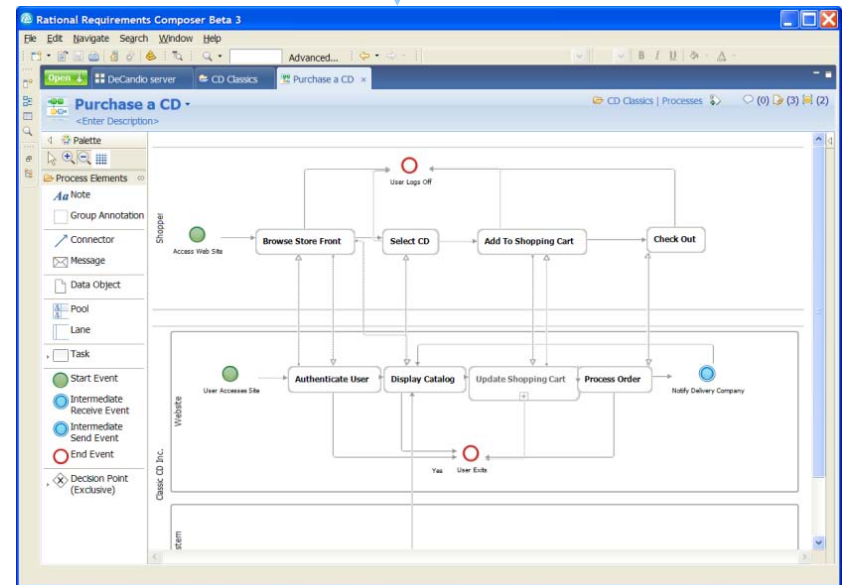
- **Look up and link terms from documents** to guide terminology usage for clarity and accuracy
- **Maintain organizational and domain-specific glossaries:**
 - ▶ Enterprise, project, client
 - ▶ Business
 - ▶ Technical
 - ▶ Industry-specific



Clarify goals and scenarios with *Business Processes*



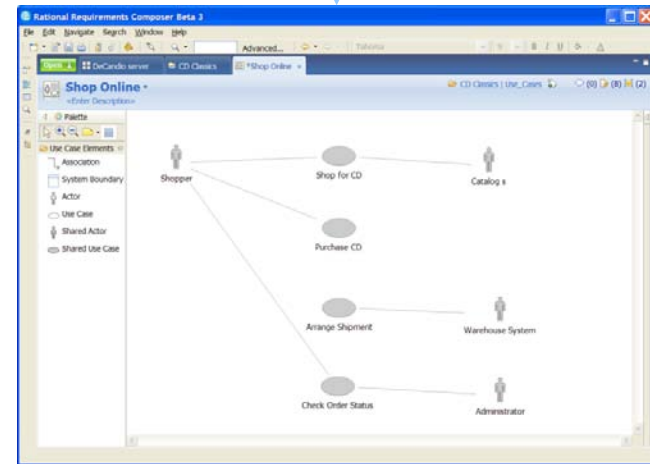
- **Sketch current and future processes and clarify scenarios** using industry standard Business Process Modeling Notation (BPMN)
- **Link process tasks and decisions to business goals and objectives**, as well as storyboards, sketches, documents, etc.



Organize scenarios and clarify user context with *Use Cases*



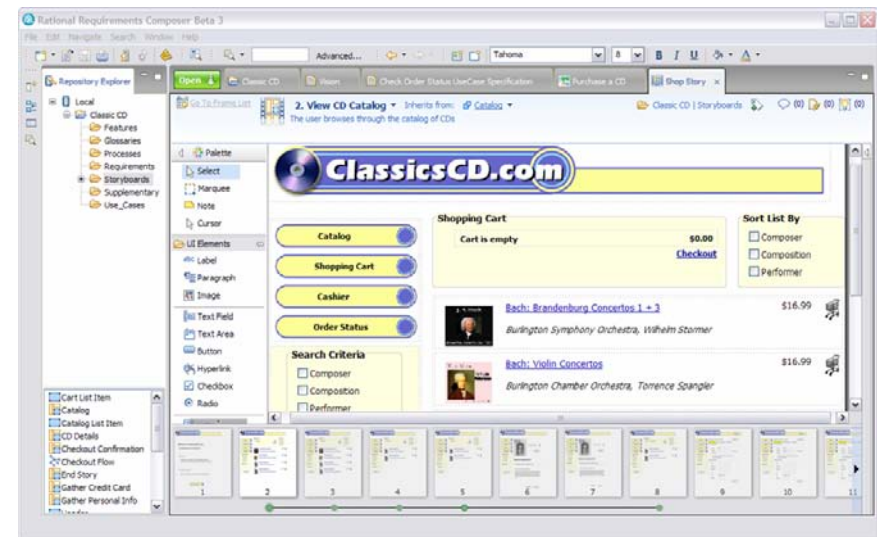
- **Diagram use cases and elaborate use-case specifications with rich-text**
- **Visually elaborate use-case flows** with storyboards and process diagrams
- **Link use cases to business process tasks** to show how solutions support business activities



Visualize scenarios with *UI Sketches* and *Storyboards*



- **Sketch wire frames and user interfaces** to visualize interaction points of scenarios
- **Quickly compose storyboards from sketches** to understand the user experience, identify gaps and verify requirements
- **Link storyboards** to business processes, use case flows and rich-text content to enhance understanding and provide context



Capture, connect & organize the web of requirements



✓ **Shared vision provides context, direction and fosters consensus**

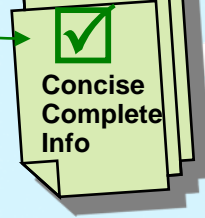
Analyst: Unified the many perspectives



Include disparate formats, models ✓



Stakeholder: "All my info shared and linked in one place"



✓ **Organized and in context**

Stakeholder: "I can now "see" how my process impacts others"



Negotiate and trade-off ✓

✓ **Scenarios uncover issues early**

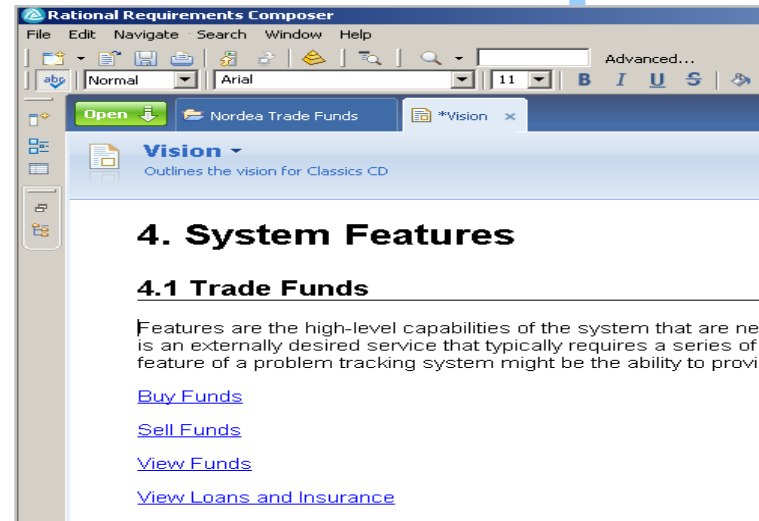
User: "The use cases and UI storyboard help us see what works, and does not"



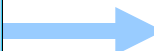
Decompose the vision and manage the requirements lifecycle in DOORS



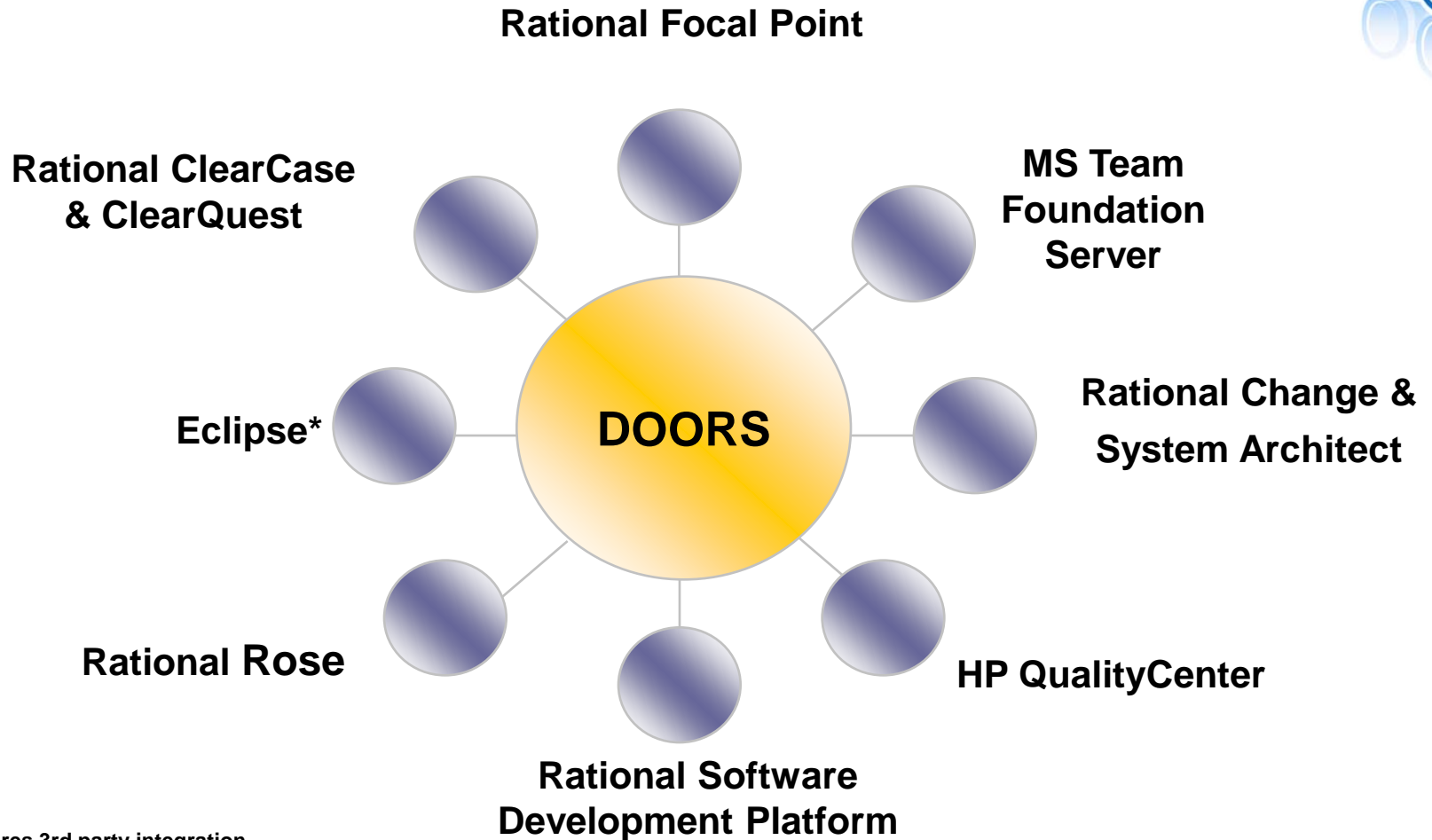
- **Attain consensus on the vision** with Requirements Composer
- **Create DOORS modules** from Requirements Composer documents
- **Decompose the vision** into detailed requirements, **control change, manage scope and govern for compliance** with DOORS



ID	User Requirements	Functional Requirements	Design	Test Plan
TRN-CSR-55	3.1.6.1.3 Clutch			
TRN-CSR-56	Users shall be able to operate the clutch, if fitted, in standard footwear.	FR-167 There shall be a standard lightweight clutch.	TRN-AD-45 Clutch	TRN-TP-36 Lightweight footwear control test
TRN-CSR-57	3.1.6.1.4 Gears			
TRN-CSR-58	Users shall be able to operate gears, if fitted, with minimal effort.	FR-169 The car shall be fitted with a lightweight 5 speed manually operated gearbox.	TRN-AD-44 Gearbox	TRN-TP-36 Lightweight footwear control test
TRN-CSR-59	3.1.7 Visibility			
TRN-CSR-60	3.1.7.1 Daylight			
TRN-CSR-61	Users shall have maximum daylight visibility from within the vehicle.			
TRN-	3.1.7.2 Night time			



Manage requirements across the lifecycle to keep projects on track



* Requires 3rd party integration

Guide execution for business value



Drive informed decisions and keep teams focused on the goal

Analyst: "I can analyze impacts, and iterative validation is much faster."



Improved scoping and estimation

Project Manager: "Iterative planning is now efficient and we stay on schedule."



Get guidance when you need it

Center of Excellence: "Process guidance helped us adopt new techniques without disruption."



Business context is maintained

Developer/Tester: "Business, user and system context help me make the right trade-offs."



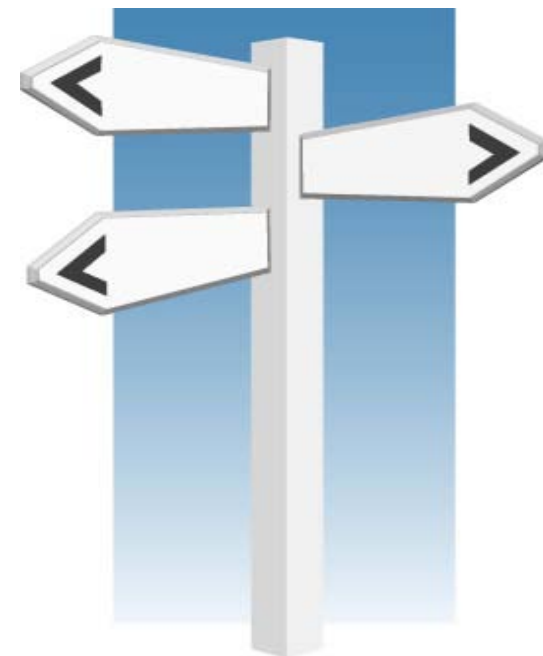
Proactive, informed effort

Development Manager: "Traceability and change management help us avoid guesswork and rework"



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Summary

- Requirements issues cause pain for all project stakeholders, resulting in:
 - ▶ redundant activities
 - ▶ excessive rework
 - ▶ delays
 - ▶ insufficient ROI
- The majority of requirements issues are caused by:
 - ▶ poor collaboration among stakeholders
 - ▶ inability to find, organize and connect information into a shared vision
 - ▶ Inability to effectively manage change
- Requirements Composer can be used with DOORS to facilitate the collaboration, organization and requirements lifecycle management that is required to address requirements issues and deliver business value



DEMO

QUESTIONS

Visit us on jazz.net!

- Collaborate with the product team and other stakeholders
- View project plans
- Download the code

The screenshot shows the IBM Jazz Projects page for Rational Requirements Composer. The page features a navigation menu at the top with links for HOME, About Jazz, Projects, Downloads, Forums, Library, and Community. The main content area is titled "Rational Requirements Composer" and includes a sub-header "Collaborative requirements definition and refinement". Below this, there is a paragraph describing the tool's capabilities. A "Collaborating to define detailed textual and visual requirements" section lists several key features. To the right, there are promotional banners for "Buy at ibm.com", "Download 1.0.0.1 Release" (dated May 15, 2009), and "Download Web UI Open Beta" (dated May 15, 2009). At the bottom, there are three screenshots illustrating the user interface for "User home page", "Create and view artifacts", and "Collaborate and refine".

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

jazz Projects

Projects >

Overview

Release Plan

Related Resources

Rational Requirements Composer 1.0.0.1
Online Help

Articles, Tech Notes, Videos, and Presentations

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 software development teams to define requirements using a variety of techniques, and collaborate with each other using a suite of platform capabilities.

Collaborating to define detailed textual and visual requirements

- Elicit, capture, and refine requirements using a variety of definition techniques: text, storyboards, use-case diagrams, UI sketches, and business process diagrams.
- Review and comment on requirements with team members with collaboration capabilities.
- 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 controlled by role definitions.

Screenshots:

User home page Create and view artifacts Collaborate and refine

→ Buy at **ibm.com**

Download ^{NEW!}
1.0.0.1 Release
May 15, 2009

Download Web UI Open Beta
May 15, 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 our project dashboard



Helpful links & resources



■ Rational Requirements Composer

- ▶ Information Page: <http://www-01.ibm.com/software/awdtools/rrc/>
- ▶ Rational Requirements Composer Overview Demo:
<http://www.ibm.com/developerworks/offers/lp/demos/summary/r-rrcoverview.html>
- ▶ Rational Requirements Composer & RequisitePro Integration Demo:
<http://www.ibm.com/developerworks/offers/lp/demos/summary/r-rrcreqpro.html>

■ Developer Works discussion forums

- ▶ Rational Requirements Composer Forum:
<http://www.ibm.com/developerworks/forums/forum.jspa?forumID=1546>
- ▶ Rational RequisitePro Forum: <http://www.ibm.com/developerworks/forums/forum.jspa?forumID=340>

Thank You



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