



# Drinking Our Own Champagne: Rational Requirement Composer

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*IBM Rational Software*

IBM Software

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## Purpose

- This session will show how the Rational Requirements Composer development team used the Collaborative Lifecycle Management (CLM) jazz products to specify, analyze, design and implement key features, intended for future versions of RRC. It will focus on our use of RTC and RRC and include a discussion of benefits to the team.
  
- Plus (we hope)
  - Give you a vision of how IBM Rational® Requirements Composer (RRC) can improve team performance and project outcomes
  - 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

## Some Familiar Situations... we face them too !!



# IBM Rational Requirements Composer 4.0

## Requirements Management for the Development Lifecycle

### Rational Requirements Composer

#### Definition

- Rich-text documents
- Diagrams: Process, Use Case
- Storyboards, UI sketching & flow
- Project glossaries
- **Templates (formal/agile)**

#### Visibility

- Customizable dashboards
- **Project dashboards**
- Analysis views
- Collections
- Milestone tracking & status

#### Collaboration

- Review & Approval
- Discussions
- Email Notification



#### Management

- Structure, Attributes/Types
- **Traceability, Suspect Link**
- Filtering, Change History
- Tags, Reuse, Baselines,
- Reporting Metrics & Doc.

#### Lifecycle

- Central requirements, test, & development repository
- **WAS Clustered Server**
- Common admin and role-based user licensing
- Warehouse reporting

#### Planning

- Integrated planning
- Effort estimation
- Task management

**Supports RequisitePro Data Migration**

# Requirements Definition and Management for the Development Lifecycle

IBM Rational Requirements Composer v4.0.1 Q4 2012

- **Empower teams of all sizes and complexity** to define, analyze, manage, report with project requirements
- Improve **visibility and understanding** of requirements across the development lifecycle
- **Realize project impact and downstream visibility** using traceability across requirements, test, and development
- **Drive development forward** with agile-at-scale and iterative processes in fast paced markets
- **Customer and stakeholder collaboration** for improved agility and informed decisions

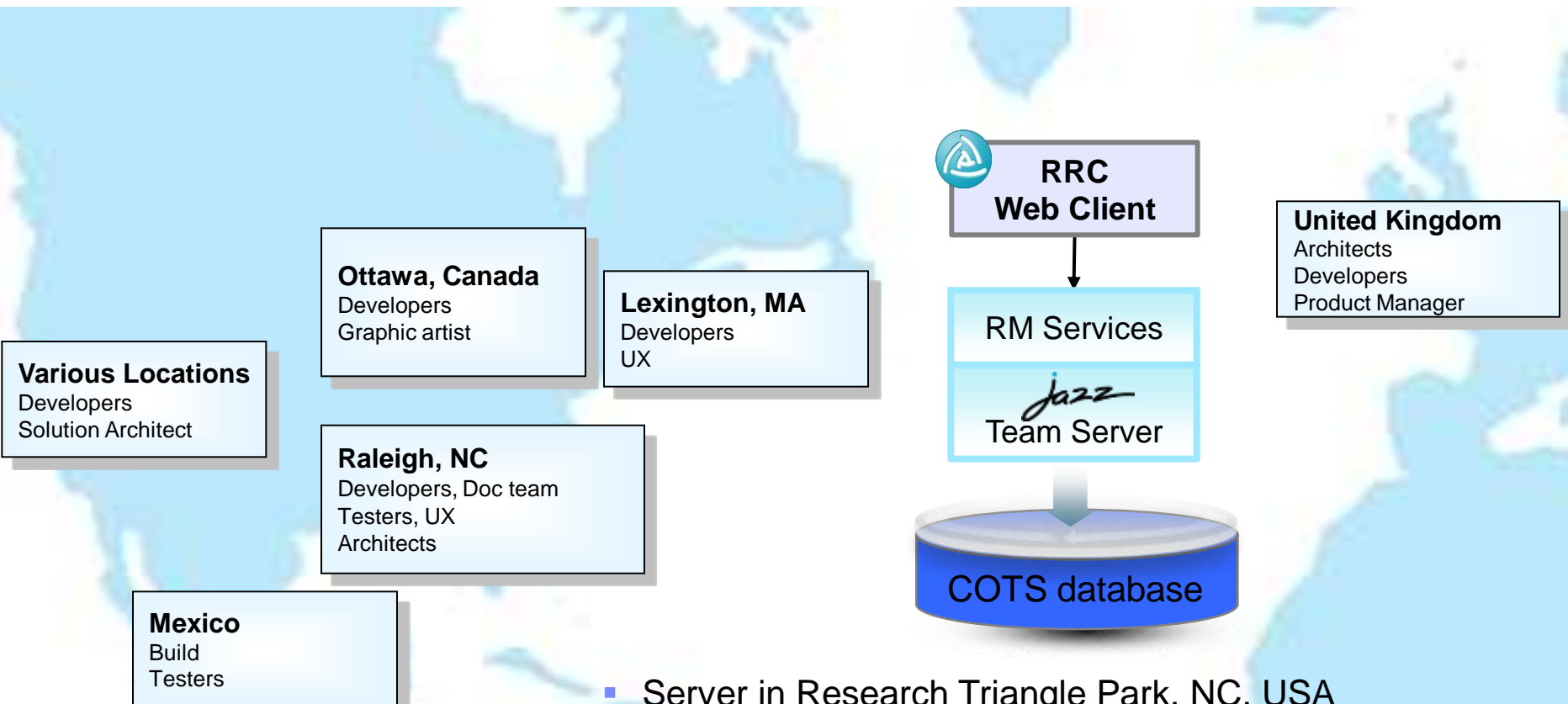


## IBM Rational Requirements Composer v4.0.1 Q4 2012 highlights

- New online document structures (Modules) for requirement **organization and structure**
- Take requirements offline or **exchange them round trip** for broader collaboration Improved traceability to show more detail to enable business analysts to better analyze
  - Connect tests and plans to requirements using the new **RRC/HPQC Integration Adaptor**
  - Connect **requirements to models** and elements through OSLC to RSA Design Manager
  - Business analysts can **compare collections** to version of the same collections



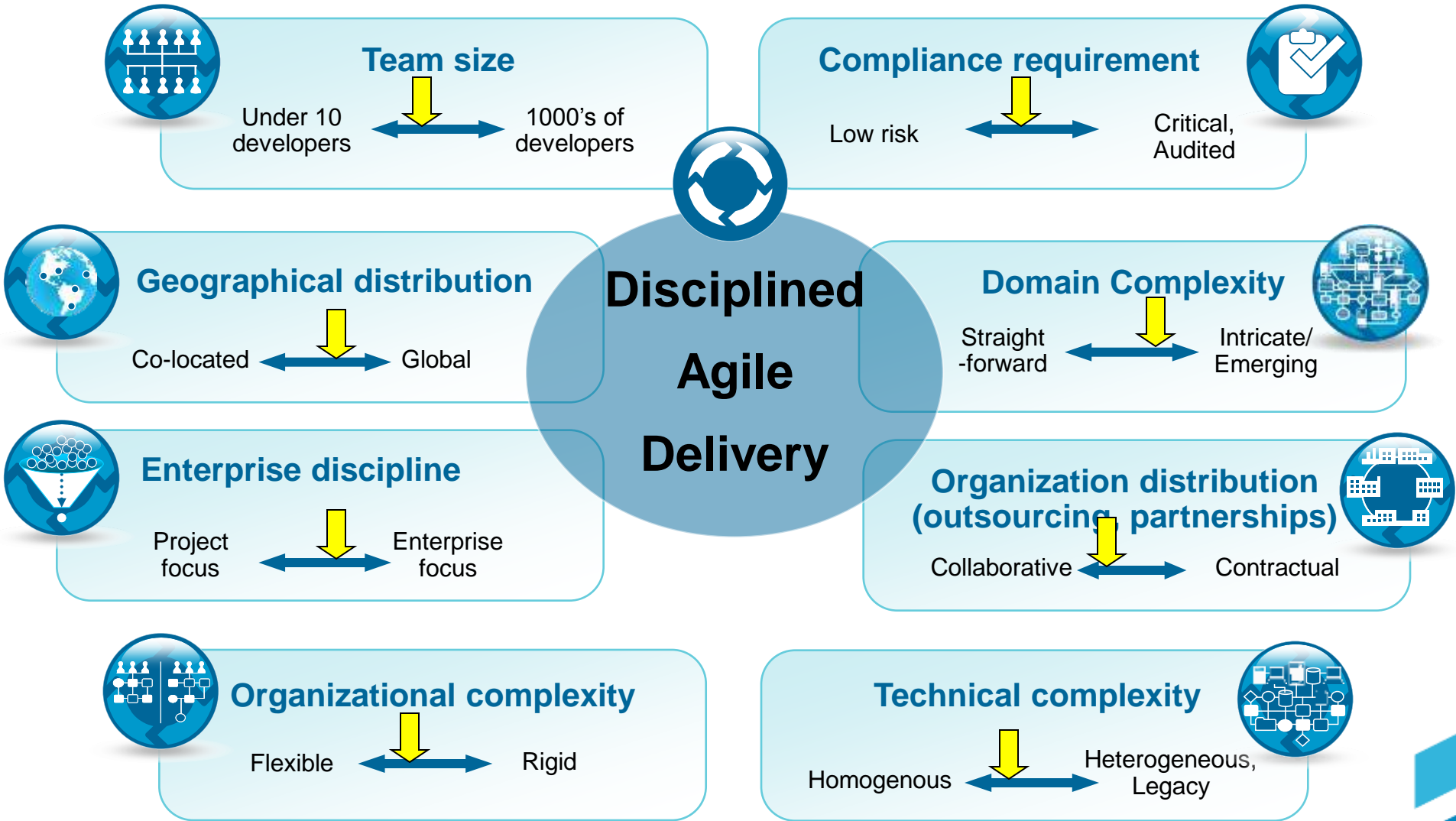
# RRC Product Team



- Server in Research Triangle Park, NC, USA
- Intel Core2 2.66Ghz, 4GB of RAM, Windows 2008 server
- Using Tomcat
- Using separate AIX DB2 server

<https://jazz.net/rm/web>

# IBM agility@scale™ – our team self-assessment





# We do much of our work on <https://jazz.net/rm/web>

The screenshot displays the Jazz.net Requirements Management (RM) web interface. The browser window shows the URL <https://jazz.net/rm/web>. The page is titled "RM Product Definitions (RM) Project Dashboard".

**Navigation and Breadcrumbs:** Home, About Jazz, Roles, Projects, Downloads, Requirements Management (RM), Project Dashboard, Artifacts, Collections, Reports.

**Main Content Sections:**

- All Projects (jazz.net):** A list of projects including Collaborative Lifecycle Management - Requirements (RM), Rational Quality Manager (RM), and RM Product Definitions (RM).
- Project Members:** A list of team members:
  - Bas Bekker:** Email: [bekker@mx1.ibm.com](mailto:bekker@mx1.ibm.com)
  - Barry McIntosh:** Email: [barrymcintosh@uk.ibm.com](mailto:barrymcintosh@uk.ibm.com)
  - Ayako Nagayama:** Email: [nb64898@jp.ibm.com](mailto:nb64898@jp.ibm.com)
- Recent Changes in All Projects (5):**
  - versions, variants, configurations (9750) 45 minutes ago
  - 2012-04-17 terminology notes and actions (9751) Last Week
  - capability vs product name (9749) Last Week
  - base artifact vs artifact instance - term discussion (1533) Last Week
  - wrapped resource (3230) Apr 13, 2012
  - Innovation requires words: Creating a product glossary (draft) (8795) Apr 12, 2012
- Comments in All Projects (0):** No comments have been added recently.
- Reviews in RM Product Definitions (RM) (0 of 0):**
- User Requirements - 2012.. Implemented By (32):**
  - 324: Common - Multi-level Traceability View
  - 44276: [DOORS Next][RM] DOORS - Multi-level traceability view (single rm repository)
  - 149455: RM - Multi-level Traceability View
  - 140931: RM - View cross project traceability links in the grid view
  - 326: Common - Unique ID and URLs
  - 151407: RM - Unique Requirement ID and URL
  - 44243: [RM] Core Module support
  - 355: Common - Performance Requirements
  - 140930: RM - Performance improvements
  - 350: Common - Access Rights
  - 151843: RM - ACL Data (Phase 3 - project role level)
  - 330: Common - Link Suspicion
  - 199220: [CLM] Suspect links across the lifecycle
  - 44275: [RM] Suspect links 169220/164497
  - 346: Common - Metrics Reporting (RRD)
- Glossary (76):**
  - \$\$ README for this glossary (1858)
  - Artifacts page (1865)
  - CLM product (520)
  - Collaborative Lifecycle Management (368)
  - Jazz Team Server (372)
  - Jazz application (516)
  - Lifecycle Project Administration application (509)
  - OSLC consumer (439)
  - OSLC provider (438)
  - Open Services for Lifecycle Collaboration (374)

**Article Preview (312):** RM self host on Jazz.net. Guide for Visitors. The article includes a "Welcome and introduction" section, stating that the document is part of the self-hosted requirements management project area on jazz.net. It also includes an "An invitation to collaborate" section, encouraging customer/stakeholder involvement in the requirements process.

And provide milestones <https://jazz.net/downloads/> for feedback



Products

**Rational Team Concert**

- Download 3.0.1.3 Release  
March 30, 2012
- Download 4.0 RC5 May 22, 2012
- Try 3.0.1.1 in the Sandbox
- Learn about the project >

**Rational Requirements Composer**

- Download 3.0.1.3 Release  
March 30, 2012
- Download 4.0 RC5 May 22, 2012
- Try 3.0.1.1 in the Sandbox
- Learn about the project >

**Rational DOORS Next Generation**

- Download 4.1 Beta 2  
April 5, 2012
- Learn about the project >

**Rational Quality Manager**

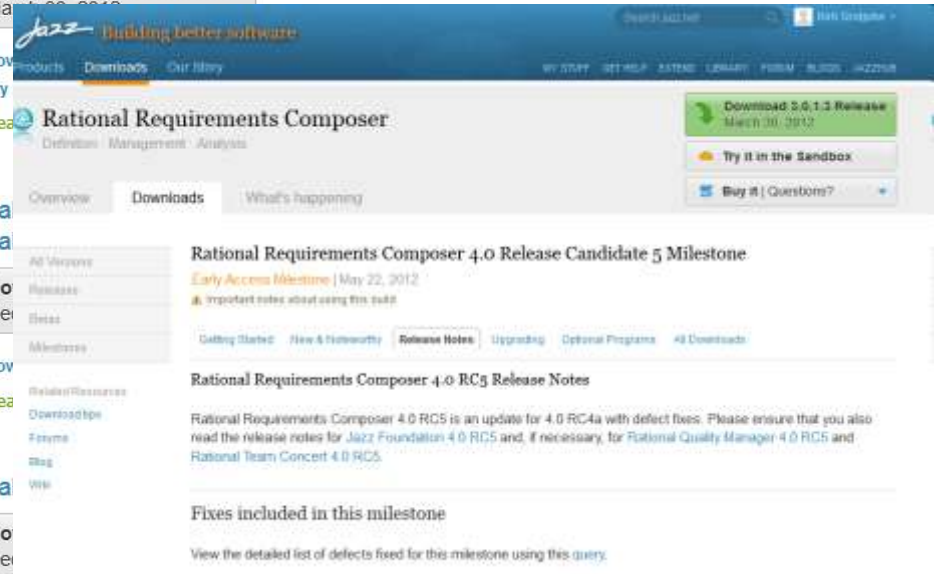
- Download 3.0.1.3 Release  
March 30, 2012

**Rational Requirements Composer**

- Download 3.0.1.3 Release  
March 30, 2012
- Download 4.0 RC5 May 22, 2012
- Try 3.0.1.1 in the Sandbox
- Learn about the project >

**Rational DOORS Next Generation**

- Download 4.1 Beta 2  
April 5, 2012
- Learn about the project >



## For the two projects we support

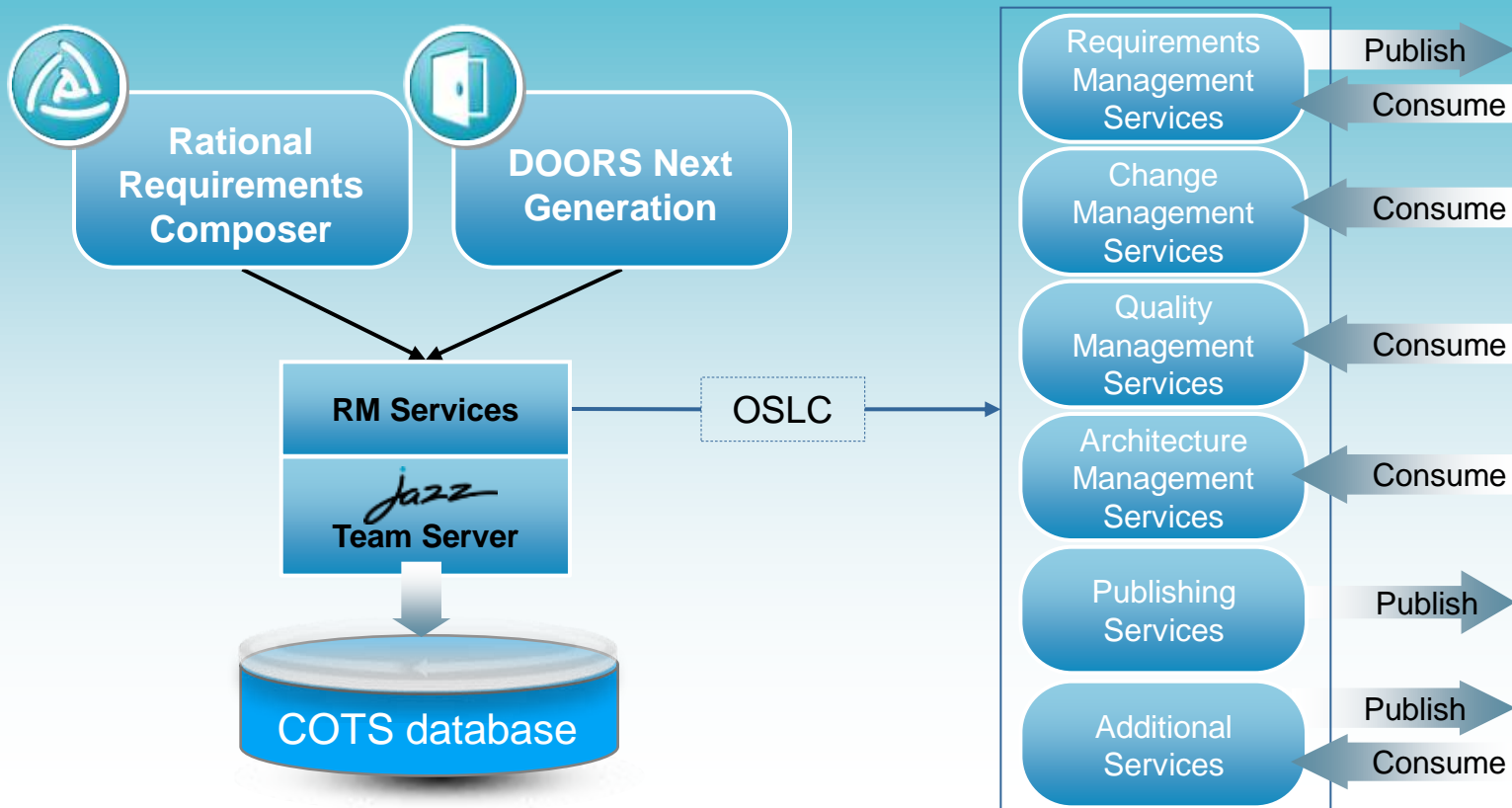
- Rational Requirements Composer
- <https://jazz.net/projects/rational-requirements-composer/>
- DOORS Next Generation
- <https://jazz.net/projects/rational-doors/>

The screenshot shows the product page for Rational Requirements Composer. The header includes the Jazz logo and navigation links. The main content area features a video player on the left and a text block on the right. The text block has a heading: "Need more than documents and spreadsheets to drive requirements" and a sub-heading: "Development projects typically use up-front requirements to drive a project forward – and eventually documents and spreadsheets just don't cut it." Below this, it says "Try IBM Rational Requirements Composer. A tool that lets you define, collaborate, and manage requirements development or project team." There is a "Features >" link at the bottom.

The screenshot shows the product page for Rational DOORS Next Generation (Beta). The header includes the Jazz logo and navigation links. The main content area features a "Download 4.1 Beta 2" button with the date "April 5, 2012". Below this, there is a table of contents for a document titled "587: AMR System Requirements Specification". The table of contents includes sections like "2 General Description" and "2.1 Functions and Purpose". To the right of the table of contents, there is a text block with the heading "Bridge the gaps between customers, requirements, and deliverables" and a paragraph describing the product: "IBM Rational DOORS Next Generation. The next generation requirements management solution for complex software and systems engineering environments, helping engineers to work more effectively across disciplines, time zones, and supply chains." There is a "Features >" link at the bottom.

# Architectural End Goal for Rational RDM Tools

- Requirements visibility and traceability across the lifecycle
- Open integration architecture built on the Jazz Team Server
- Integrations using Open Services for Lifecycle Collaboration (OSLC)





# Drinking Our Own Champagne

## Typical feature evolution

1. Stakeholder describes the feature
2. Product Manager then creates Plan Items
3. Product Manager then Ranks the Plan Items
4. Product Manager describes the business scenario and related requirements
5. Architect defines the workflow and oversees design
6. User Interface designers then developed mockups
7. Development team developed incremental solutions, creating “Stories” based on Plan Items
8. Test team creates test cases based on Stories and UI design documents, tests drivers, opens defects.
9. We use milestone drivers to obtain feedback from the stakeholders

Summary	id
ChaosQuest PMC_Res UX [RM] Core Module support	44243
CLM PMC_Res UX [RM] Suspect times 162226154487	44275
CLM PMC_Res UX [RM] Fine grained WRITE access control	44238
CLM UX [RM] Improve upgrade experience 1631175	44234
ChaosQuest PMC_Res UX [RM] Rel/F part 1 - Round trip without process cont	44286
ChaosQuest PMC_Res UX [RM] Requirements Parsing (rich-test/convertable do	44251
[RM] Server acceptance test (owned by server and client team)	44262

330: Common - Suspect Link

**Brief Description**

Note: This type of feature is often called "Suspect Link". Users need link relationships between project information context for different requirements so to other direct (links change status on the artifacts on both sides of the link. If the information context of one of the artifact "suspect".

Links are suspect or not suspect depending on the user's perspective and which direction the link is being a series of links in requirements owned by them and they make requirement changes in the context of the link.

However from the perspective of the opposing requirement (on the opposite side of the link) the modification is suspect. The user on the other end of the link needs an automated way of recognizing this change and how they to validate the link relationship.

**Business Justification**

Link Suspect is a requirements management tool to allow many businesses and submit to those who are identified as a significant market gap if not provided as a feature or properly implemented. There could be an it is a feature that was originally developed as a requirements management describe for tests the Request others feasibility has been applied.

2957: UI Design for Suspect Profile

List of profiles is listed on the left. Click New Profile to create a new profile.

Suspect Artifact Profiles

All Project Areas

Manage Profiles for RM Project 1

Suspect Artifact Profiles + New Profile

Click to create new profile

Click to create new profile

Click to create new profile

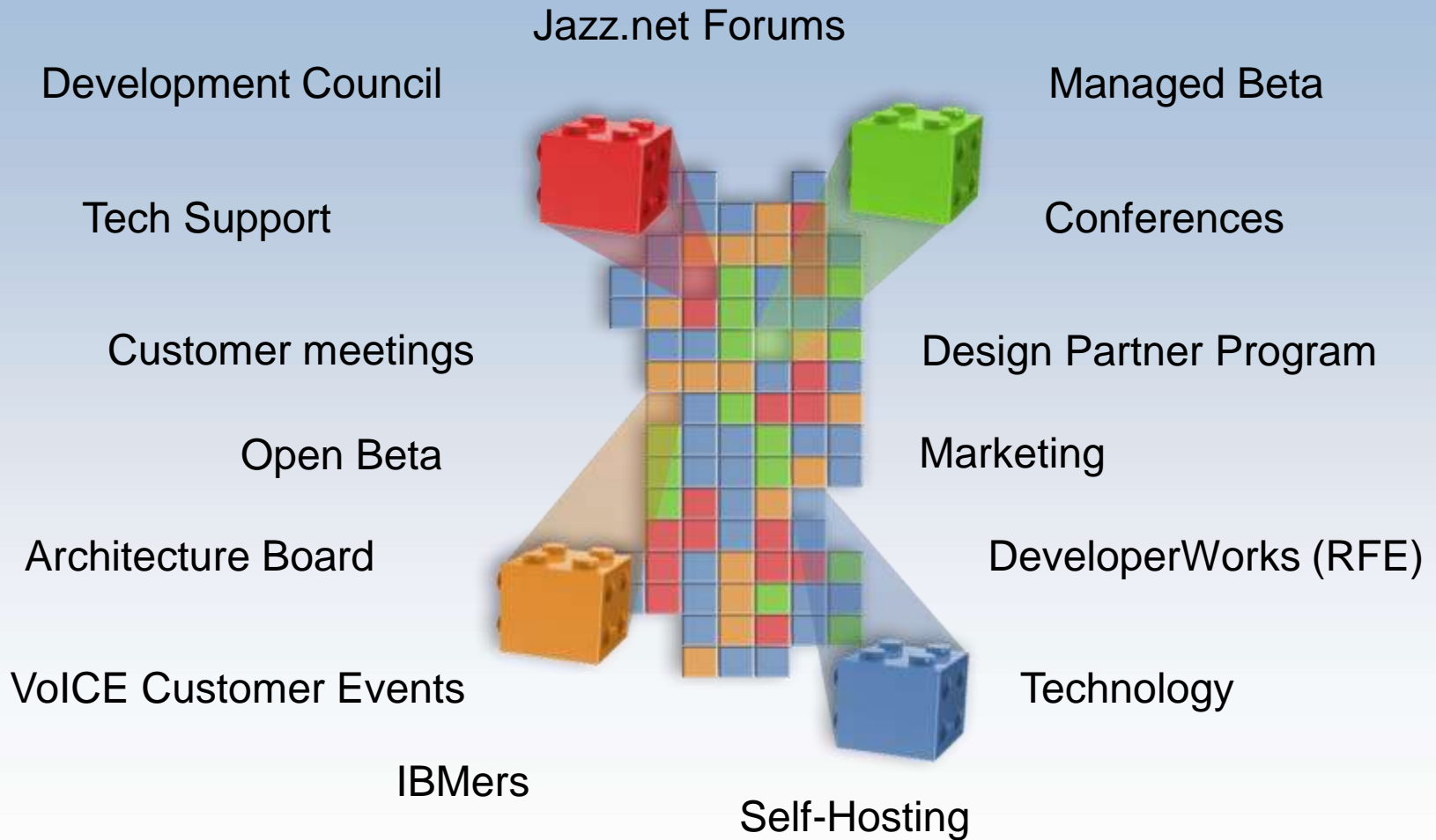
All link types available from the project are displayed. The profile for are listed. All are unattached by default.

Link types to follow

Importance by

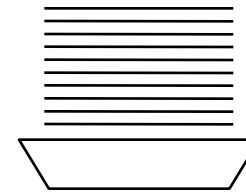
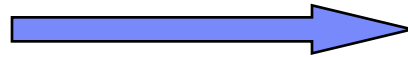
Priority

# Sources for our Requirements – Everywhere!





# Product Backlog



**Product  
Backlog**



**Defects,  
Change  
Requests**



**User  
Stories,  
Scenarios**

# Plan Items - Ranked

Plan Items

Ranking

Summary	Id	Architect	Feature Team Lead	Priority	Rank	Status	DCP Boca	Commitmer	Filed Against
DNextBeta1 <b>PMC_Req</b> <b>UX</b> [RM] Core Module support	44243	ian green	Chris McGraw	High	1	Implementing	Base Cont	Commit	Server
<b>CLM</b> <b>PMC_Req</b> <b>UX</b> [RM] Suspect links 169220/164497	44275	George DeCandio	Marc Baumbach	High	5	Ready to Test	Base Cont	Commit	Collabor
<b>CLM</b> <b>PMC_Req</b> <b>UX</b> [RM] Finer grained WRITE access control	44238	Dominic Tulley	Mark Goossen	High	7	Implementing	Base Cont	Commit	Server
<b>CLM</b> <b>UX</b> [RM] Improve upgrade experience 169175	44234	Devang Parikh	Alastair Stuart	High	8	Exploring	Base Cont	Commit	Server
DNextBeta1 <b>PMC_Req</b> <b>UX</b> [RM] ReqIF part 1 - Round trip without process contr	44286	Dominic Tulley	Tom Mutdosch	High	9	Implementing	Base Cont	Commit	Server
DNextBeta1 <b>PMC_Req</b> <b>UX</b> [RM] Requirements Parsing (rich-text/convertable do	44251	Vishy Ramaswamy	Min Idzelis	High	10	Ready to Test	Base Cont	Commit	Server
[RM] Server acceptance test (owned by server and client team)	44262	ian green	Charles Wells	High	11	Implementing	Base Cont	Commit	Server
<b>CLM</b> <b>UX</b> [RM] Support Data reorganization (server move) (CLM 166347)	44255	Devang Parikh	Devang Parikh	High	12	Implementing	Pressures	Commit	Server
<b>CLM</b> [RM] Adopt clustering for HA and/or horizontal scaling (CLM 103973)	44233	Devang Parikh	Knut Radloff	High	13	Implementing	Base Cont	Commit	Server
<b>PMC_Req</b> <b>UX</b> [RM] Baselineing modules for auditability	44289	ian green	Tim Neilson	High	14	Implementing	Unassigne	Propose	Server
<b>UX</b> [RM] Group access rights	44285	Dominic Tulley	Mark Goossen	High	16	Implementing	Extended C	Commit	Server
<b>PMC_Req</b> <b>UX</b> [RM] Module wide find and replace	44301	Ed Gentry	Lynne Kues	High	17	Ready to Implr	Unassigne	Commit	RRC We
<b>UX</b> [RM] HP-QC Integration	44237	George DeCandio	Todd Merriweather	High	21	New	Base Cont	Commit	Server
<b>UX</b> [RM] Design Manager (DM) (RSA/Rhapsody) integration	44244	Vishy Ramaswamy	Terry Caudill	High	22	Implementing	Pressures	Commit	Server

# Plan Items – Release Plan (RM) Dashboard

**Requirements Management** | Robin Beter

**RRC/DOORS Next 2012 Dashboard**

General | CLM 2012 Feature Teams | **CLM 2012 Plan Item Status** | CLM 2012 Plan Item Exploration Roadmap | 2012 Plan Item Test Coverage | 2012 Risks and Obstacles | M2 Execution | M3 Execution | M4 Execution | M5 Execution | M6 Execution | M7 Execution | M7 DNG Execution | M8 Execution | R00 Execution | M8 DNG Execution | M9 DNG Execution | Mgr Audit Tab | Developer Audit Tab | DNG Beta 1 Shutdown | Feature Demos | DOORS Next Plan Item Status | BVT Schedule (Web Client)

Beta Content Planning | Unplanned Work | Story View | FVT Info

---

**Bootstrapping**  
These plan items are still in an early phase and yet to begin exploration.

- CLM 2012 Plan Items [Bootstrapping] (RM) (22) Owned By: Alastair Stuart, Eka Kolla, Barry McIntosh, David Murray, Devang Parikh, Karl Halsted, Laura Willey, Patru Acsinle, Sean Cudmore, Terry Caudill, **Todd Merriweather**, Tom Mufdosch, Unassigned
- CLM 2012 Plan Items [Bootstrapping] (RM) (7):
  - 44237: [RM] HP-OC Integration
  - 44240: [RM] Serviceability improvements (CLM 169183)
  - 44253: [RM] [Server] CLM Additional platform support
  - 44257: [RM] Upgrade sample for new features
  - 47398: RM Documentation/Learning work for CLM 2012
  - 48638: Editing plan: RRC 2012
  - 45494: [RM] Deliver CLM 2012 on the Cloud

**Exploring**  
These plan items are being explored to determine whether we can commit to them.

- CLM 2012 Plan Items [Exploring] (RM) (3) Owned By: Barry McIntosh, Bas Bekker, Chris McGraw
- CLM 2012 Plan Items [Exploring] (RM) (2):
  - 50195: Trace links are not removed when an artifact is deleted (42848)
  - 44949: [RM] Consolidate self-host servers

**Implementing**  
These plan items are ready to be implemented or the implementation is already underway.

- CLM 2012 Plan Items [Implementing] (RM) (25) Owned By: Alastair Stuart, **Bas Bekker**, Charles Wells, Chris McGraw, **Devang Parikh**, Devg Rath, Ed Gentry, Gabriel Ruetas, George DeCandis, **Joe Toomey**, Knut Radloff, **Lynne Kues**, **Mark Goossen**, **Muhtar Akbulut**, **Sean Cudmore**, Terry Caudill, Tim Neilson, Unassigned
- CLM 2012 Plan Items [Implementing] (RM) (25):
  - 45794: [RM] [Client]RRCxBrowser: CLM Additional platform support
  - 44233: [RM] Adopt clustering for HA and/or horizontal scaling (CLM 103873)
  - 44238: [RM] Finer grained WRITE access control
  - 44241: [RM] Support self hosting (upgrade jazz.net every 5 weeks) (for RRC 3.5)
  - 44243: [RM] Core Module support
  - 44244: [RM] Design Manager (DM) (RSA/Rhapsody) integration
  - 44234: [RM] Improve upgrade experience 169175
  - 44248: [RM] Performance / scalability improvements (RRC 3.5)
  - 44258: [RM] Support Data reorganization (server move) (CLM 166347)
  - 44262: [RM] Server acceptance test (owned by server and client team)
  - 44267: [RM] Automated acceptance and performance testing

https://jazz.net/jazz03/web/projects/Requirements%20Management#actions-com.ibm.team.dashboard.viewAllDashboards

# Plan Items - CLM 2012 Release Plan (RM) Dashboard

**RRC/DOORS Next 2012 Dashboard**

General | CLM 2012 Feature Teams | CLM 2012 Plan Item Status | CLM 2012 Plan Item Exploration Roadmap | 2012 Plan Item Test Coverage | 2012 Risks and Obstacles | M2 Execution | M3 Execution | M4 Execution | M5 Execution | M6 Execution | M7 Execution | M7 DNG Execution | M8 Execution | **Rc0 Execution** | M8 DNG Execution | M9 DNG Execution | Mgr Audit Tab | Developer Audit Tab | DNG Beta1 Shutdown | Feature Demos | DOORS Next Plan Item Status | BVT Schedule (Web Client) | Beta Content Planning | Unplanned Work | Story View | FVT Info

**Remaining Feature Work**  
In RC0, we should have none, but we got some

**Story Point Progress (RM)**  
No story work items were found.

**2012 RC0: Stories not Dev Done (0) Filed Against (Top Level)**  
Scatter plot showing 0 items.

**2012 RC0: Stories still New (7) Filed Against (Top Level)**  
Scatter plot showing 7 items.

**2012 RC0: Testable not Ready to Test (0) Filed Against (Top Level)**  
No work items found using this query.

**Dependencies**  
This column shows dependencies. Dependencies must be declared in RTC, using a Blocks/Depends On link.  
2012 RC0: Dev Team Blockers that Block RC0 Tasks: (0) Owned By  
No work items found using this query.

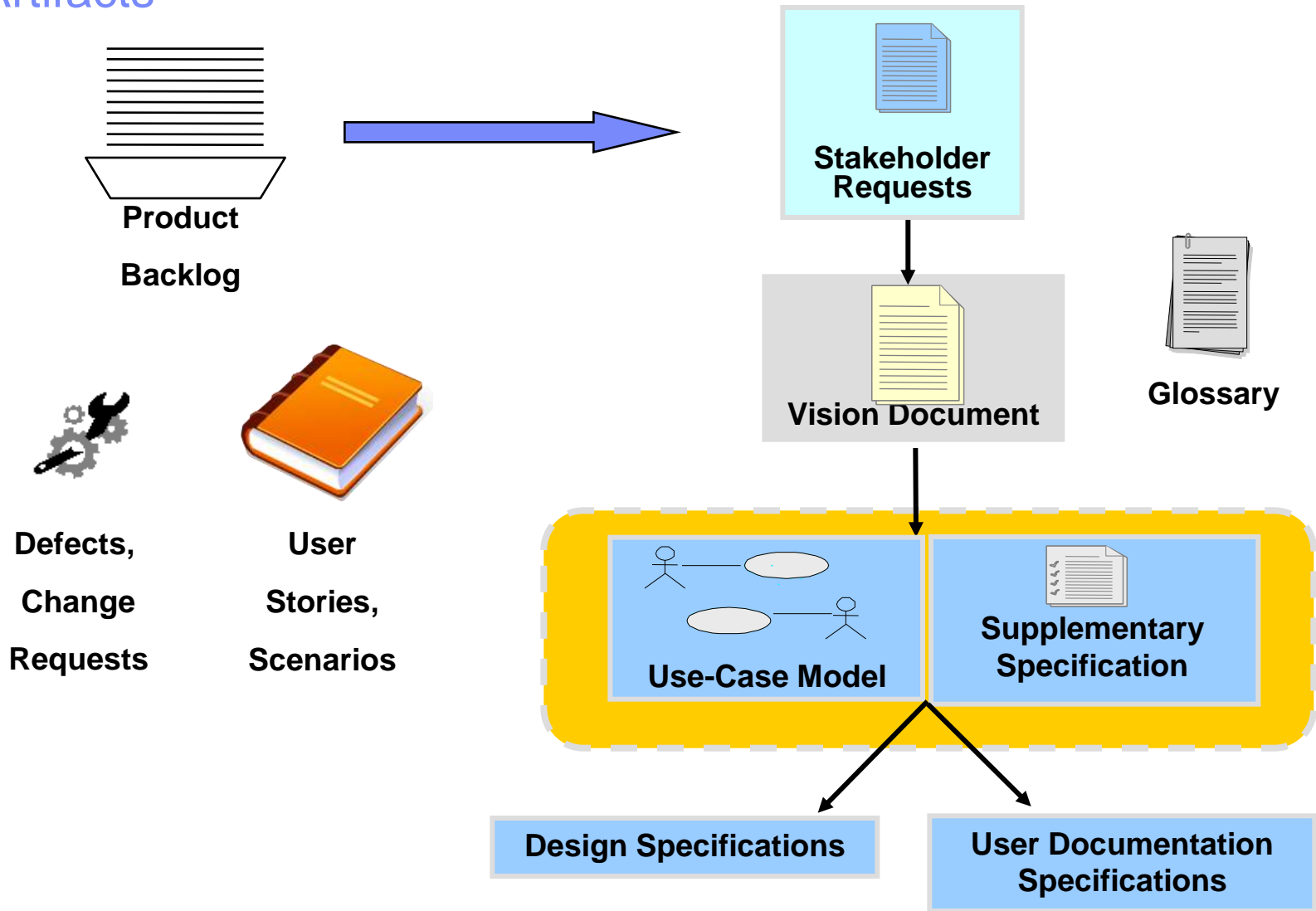
**Milestone Shutdown**

- Stopship Defects**  
After Tue of end game (following a stream split), only defects tagged with rrc.40.rc0.stopship defects are allowed for delivery.
- Blocker Defects**  
We must unblock RM and CLM tests (rrc.M\_blocker and clm\_blocker)
- New and Noteworthy**  
rrc.40.nn tag means a N&N text:screenshot must be added as a comment for jazz.net content by the owner. When the owner is done with this task, owner changes tag to rrc.40.nn\_done. N&N screen cap guidelines here.
- Release Notes**  
rrc.40.rc0.relnote tag means owner adds text to defect for rel notes. Owner changes the tag to rrc.40.rc0.relnote\_done when done.
- Close Resolved Defects**  
Make sure defects you created, and are Resolved, are Closed with comment to identify the build ID.

**2012: Milestone Shutdown Approvals (5)**

- 55328 RC0 - Optional (Open for review 2/29, 1 day only) Web Client and Server New and Noteworthy Review
- 53884 RC0/CLM Beta - (Start on 3/1) Stage Release Notes for RRC 4.0 RC0/Beta for web/server team
- 53883 RC0/CLM Beta - (Start on 2/29) Stage N&N for RRC 4.0 RC0/Beta for web/server team
- 53881 M8 - (Open for review 2/22-2/23) Web Client and Server New and Noteworthy Review
- 49262 RC0 - (Start on 2/28) Client Team 30 min Test

# Our Artifacts





# Top 2 Features – User Requirements (RRC)

Summary	Id
<b>DNextBeta1</b> <b>PMC_Req</b> <b>UX</b> [RM] Core Module support	44243
<b>CLM</b> <b>PMC_Req</b> <b>UX</b> [RM] Suspect links 169220/164497	44275

**9929: Common - Module**

**Brief Description**  
Module is where people author structure, reuse, link requirements, and...

**Business Justification**  
Module is a key feature that brings together different RM capabilities to...

**Scope**

**Note:**  
This document defines some User Requirements that may be broken...

**Definitions**  
In this document we have borrowed definitions from 929: Common - S...

- Originating requirement / artifact - a requirement / artifact that
- Requirement instance / artifact - a new instance of an original

**Key Functions**

- Modules as Artifacts
  - A Module shall behave like any existing RRC Artifact. By this we mean that the set of base behaviors we see in today's RRC Artifacts (Text Artifacts etc) are also present in Module Artifacts. For example, from the mile high perspective of the RRC Project Dashboard, Module Artifacts would be virtually indistinguishable from Text Artifacts.
  - The Module as an Artifact is a completely separate concern from the Module's role as a container of Artifacts. This is how Collection behaves today.
  - So with respect to Modules as Artifacts in their own right, the following operations can be applied:
    - Tagging
    - Commenting
    - Reviews

**330: Common - Link Suspicion**

**Brief Description**  
Note: This type of feature is often called "Suspect Link".  
Users need link relationships between project information content for different requirements on to other development life-cycle artifacts. After a relationship link is created between two requirements (or two ALM elements) users need an automated method to identify the (data) change status to the artifacts on both ends of the links. If the information content of one of the artifacts changes, the link (relationship) may no longer be appropriate or valid. In this case, we would say that the link has become "Suspect" or there is "Change Suspicion".  
Links are suspect or not suspect depending on the user's perspective and which direction the link is being examined. For example suppose that the requirement for a particular link was modified since the link was created. The person making a modification typically is aware of links in requirements owned by them and they make requirement changes in the context of the link presence. From the perspective of this requirement, the change modification and the link would not be suspect.  
However from the perspective of the opposing requirement (on the opposite side of the link) the modification may be significant and that change was made without their knowledge. So therefore from the perspective of the opposing requirement (or link) the change is suspect. The user on the other end of the link needs an automated way of recognizing this change and provided with the features to examine the change and remove the suspicion or resolve the suspicion by changing the value of the requirement on the other end of the link to validate the link relationship.

**Business Justification**  
Link Suspicion in a requirements management tool is vital to many businesses and critical to those who rely on traceability consistency in their development process. Link Suspicion is now a well understood capability (not market differentiating) and would be quickly identified as a significant market gap if not provided as a feature or properly implemented. There could be ideas or methods to extend the basic concept of link suspicion to create something market differentiating.  
It is a feature that was originally developed in a requirements management discipline for tools like RequisitePro and DOORS. It is a capability that is mandatory to many organization's processes and extends beyond requirements to any tool in the development lifecycle where traceability has been applied.

**Scope**  
**Key Functions**

**Comments**

3 Kirk Gröjtholm to Daniel Mout, Jared Putham Aug 16, 2011 (1 reply)  
We don't really have "owners"  
I don't believe "Owner" is a system attribute, so I'm not sure we can base things on artifact, document or collection owners.

5 Jared Putham to Daniel Mout, Kirk Gröjtholm Aug 17, 2011  
RE: We don't really have "owners" [RE: #3]  
The term owner was really just referencing the user of the collection, document, etc. I've changed the word, as these are user level requirements. Thanks for the feedback.

1 George DeCandia to Jared Putham, Ima Zhou Jul 20, 2011 (1 reply)  
What about some attributes not triggering suspicion?  
Some customers have asked to allow some attributes changes on requirements not to trigger suspect state. Examples include development sprints, dev priority, etc...

4 Jared Putham to George DeCandia, Ima Zhou Aug 17, 2011  
RE: What about some attributes not triggering suspicion? [RE: #1]  
Yes, thankful I was overreact that I missed.



# User Requirements Satisfied by Software Requirements (in RRC)

## Artifacts ?

Page size: 20

Software requirements that satisfy User requirements

<input type="checkbox"/>	ID	Name	Artifact Type	Satisfied By
<input type="checkbox"/>	317	Common - Type and Attribute Management System	User Requirement	<input type="checkbox"/> 386:Type System <input type="checkbox"/> 387:Type system useability
<input type="checkbox"/>	318	Common - Audit History	User Requirement	<input type="checkbox"/> 390:Audit History
<input type="checkbox"/>	323	Common - Relationships for Traceability Structure	User Requirement	<input type="checkbox"/> 392:Traceability
<input type="checkbox"/>	324	Common - Multi-level Traceability View	User Requirement	<input type="checkbox"/> 392:Traceability
<input type="checkbox"/>	325	Common - Database Wide Query	User Requirement	<input type="checkbox"/> 384:Sample queries and views <input type="checkbox"/> 383:Saved query <input type="checkbox"/> 393:Search
<input type="checkbox"/>	333	Glossary Tagging Capability	User Requirement	<input type="checkbox"/> 391:Glossary and Terms
<input type="checkbox"/>	334	Sketching/GUI Wireframe, Storyboards Facility	User Requirement	<input type="checkbox"/> 457:Enable installation and upgrade of artifact plugins and extensions
<input type="checkbox"/>	335	Use Cases and Process Diagram Infrastructure	User Requirement	<input type="checkbox"/> 457:Enable installation and upgrade of artifact plugins and extensions
<input type="checkbox"/>	336	Common - User Collaboration	User Requirement	<input type="checkbox"/> 458:CLM UI compliance
<input type="checkbox"/>	338	Common - CSV Data Import (Attribute Import)	User Requirement	<input type="checkbox"/> 388:CSV import and export
<input type="checkbox"/>	339	Common - CSV Export: View Based	User Requirement	<input type="checkbox"/> 388:CSV import and export
<input type="checkbox"/>	340	Common - Requirements Document Import (Data Parsing)	User Requirement	<input type="checkbox"/> 389:Import a Word document and convert it to a rich-text artifact
<input type="checkbox"/>	341	Common - Word Export	User Requirement	<input type="checkbox"/> 382:Printing requirements artifacts and collections

# User Requirements Implemented By Plan Items

## Artifacts ?

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No grouping

Previous | 1 2 3 | Next

ID	Name	Artifact Type	Artifact Owner	Business Priority	Status	Implemented By
296	Common - Linking	User Requirement	tina zhuo	Must	Under Review	99047: Improve and deepen traceability links & views, add support for change impact/suspect links 44254: [RM] Graphical traceability view 44256: [RM] Backlinking - Query service consumption for OSLC linking (DM)
315	Common - User Dashboards	User Requirement	Jared Pulham	Must		151399: RM - User Dashboard Layout Controls
316	Common - Requirements Document Database (Library) Structure	User Requirement	Jared Pulham	Must		151400: RM - Requirements Document Database (Project) Structure
317	Common - Type and Attribute Management System	User Requirement	tina zhuo	Must	Approved	148453: RM - Attribute Type Management System
318	Common - Audit History	User Requirement	Jared Pulham	Must		148456: RM - Audit Trail Change History and Audit Trail Change comparison

Stories (in RTC) that implement User requirements

# Top 2 Features - Plan Items (RTC)

## Summary

- DNextBeta1** **PMC\_Req** **UX** **[RM] Core Module support**
- CLM** **PMC\_Req** **UX** **[RM] Suspect links 169220/164497**

### 44275: [RM] Web Client Suspect links 169220/164497

**Status:** ■ Testing  
**Resolution:** Unresolved

**Details**

Type:	Plan Item	Planned For:	RRC 4.0 (CLM 2012)
Filed Against:	Collaborative ALM	Estimate:	
Theme:	Consumability	Time Spent:	
Progress:	<div style="width: 100%;"><div style="width: 100%;"></div></div> 71/71Story Points   608.25/608.25hrs 100%	Due Date:	Unassigned
Tags:	mba, clm_required, elaborated, rrc.toprank, cust_412+, pmc_requested, doorsnext, ux_assigned, avp@stg, avp, bancodbrasil, bb, voicenov2011	Creation Date:	June 28, 2011 2:05 PM
Owned By:	Marc Baumbach	Created By:	Muhtar Akbulut
Team Area:	Collaborative ALM / Requirements Management	Severity:	<span style="color: red;">●</span> Critical
Priority:	<span style="color: red;">■</span> High	Found In:	Unassigned

**Quick Information**

- Children (18): 45327, 52076, 52078, 52079, 52209, ...
- Subscribers (9): AC, DBL, EMdS, MA, px, TM, TM, VA, ...
- Depends On (1): 45324
- Implements Requirement (1)
- Tested By (7)
- Related (5): 46079, 46301, 48223, 51545, 52999
- Mentions (2)
- Mentioned By (4)
- Related Change Management (1)

**Description**

Lifecycle traceability is a key aspect of the CLM solution. After a traceability link is created between two requirements (or two CLM elements) users need an automated way to identify the (data) change status of requirements on both ends of the links.

This plan item is to implement a detailed user requirement. For requirement details, please follow the link in the Links tab.

### 44243: [RM] Core Module support

**Status:** ■ Implementing  
**Resolution:** Unresolved

**Details**

Type:	Plan Item	Planned For:	Future Release
Filed Against:	Server	Estimate:	
Theme:	Unassigned	Time Spent:	
Progress:	<div style="width: 77%;"><div style="width: 77%;"></div></div> 673/730Story Points   2,928/3,036hrs 77%	Due Date:	February 24, 2012 12:00 PM
Tags:	mba, elaborated, doorsnextbeta1, rrc.toprank, cust_412+, pmc_requested, ux_assigned, avp@stg, rrc.35.qcert	Creation Date:	June 28, 2011 2:05 PM
Owned By:	Chris McGraw	Created By:	Muhtar Akbulut
Team Area:	Server / Requirements Management	Severity:	<span style="color: red;">●</span> Major
Priority:	<span style="color: red;">■</span> High	Found In:	Unassigned

**Quick Information**

- Children (201): 44434, 44766, 45016, 45205, 45238, ...
- Attachments (1): 16878
- Subscribers (16): AC, BS, CH, DM, DC, GD, HH, ig, ...
- Duplicated By (1): 37797
- Implements Requirement (2)
- Tested By (5)
- Related (5): 45448, 45449, 45937, 46300, 48220
- Mentions (15)
- Mentioned By (12)
- Related Artifacts (3)

**Description**

Provide support for Modules in both rich and web clients:

Modules appear in folders as artifacts (they have a type and attributes)  
 Add, remove, move modules in folders

View of module contents - scalable grid representation reflecting tree structure  
 Structured tree of artifacts (textual, wrapped and RRCx)  
 Visibility of links in the module view  
 Reviewing a module (commenting, book like reading experience - smooth, continuous)

# Suspect Links - Plan Items Decomposed to Child Stories

**Plan Item 44275**  
Summary: [RM] Web Client Suspect links 169220/164497

**Plan Item Stories**

- Children
  - 45327: Requirement and Architecture Review: Suspect Link
  - 52209: Implement suspect profile crud service
  - 52210: Implement suspect entry crud service
  - 52211: Implement suspect query service
  - 52212: Implement TRS client for calculating suspect entries
  - 52213: Implement link triple store for holding CLM links
  - 52214: Implement suspect profile management web UI
  - 52215: Implement suspect query in traceability views
  - 52217: As a user, I will be able to clear suspect links from artifact editors
  - 52078: As a user, I will be able to identify suspect links in the artifact editors
  - 52079: As a user, I will be able to run reports on suspect links
  - 52076: As a user, I will be able to define suspect profiles from the web
  - 53043: Provide discovery service for the suspect profiles admin UI
  - 54096: As a user, permissions should work around suspect links
  - 54742: As a user, I will be able to identify suspect links from the grid
  - 54741: As a user, I will be able to clear suspect links from the grid
  - 55258: As a user, I will be able to export the suspicion column to CSV
  - 57600: Allow RM to support TRS

**Example Story**

**52078: As a user, I will be able to identify suspect links in the artifact editors**

Status:  Testing  
Resolution: Unresolved

**Details**

Type: Story  
Story Points: Small (3)  
Filed: RRC Web Client  
Estimate:  
Time Spent:  
Due Date: March 2, 2012 12:00 PM

Against:  
Progress: 3/65 | 65/65hrs --  
Resolution Date: February 16, 2012 11:34 PM  
Tags: pu...  
Resolved By: Patrick Danford  
Owned By: Christian Funkhouser  
Tested By: Christian Funkhouser  
Team Area: Web Client / Requirements Management  
Severity: Normal

Priority:  High  
Planned For:

**Quick Information**

- Parent: 44275
- Subscribers (3): CF, MB, PD
- Duplicated By (1): 52215
- Related (1): 53725
- FVT test cases approval: Approved (1 of 1)

**Description**

As a user, I will be able to identify suspect links in the artifact editors

- Artifact overview section
- Artifact links sidebar

**Discussion**

- Patrick Danford, Feb 15, 2012, 11:50 AM

**Links to Test Cases**

Tested By (6)

Test Case 4101 - Suspicion in rich text editor - Links section, Test Case 4103 - Suspicion in module editor - Overview section, Test Case 4099 - Suspicion in rich text editor - overview section, Test Case 4100 - Suspicion in rich text editor - Links section, Test Case 4104 - Suspicion in module editor - Links section, Test Case 4102 - Suspicion in graphical editor - links section

# Plan Items - Release Plan in RTC (Lifecycle View)

Plan Items

Links to Requirements

Links to Test Cases

Summary	Rank	Business Value	Implements Requirement	Tested By Test Case	Feature Test	Architect
< ▶ [DOORS Next] Core Module support	1	10 - Show Stopp	--	--	Unassiç	ian green
< ▶ [RM] Core Module support	2	7 - Priority	Links (2): 1, 2	Links (5): 1, 2, 3, 4, 5	Chris M	ian green
< ▶ [RM] Artifact sharing, potentially controlled r...	5	7 - Priority	636: Common - Support for requirements reuse	--	Chris M	ian green
▶ [RM] Web Client Suspect links 169220/164...	6	2 - Nice to Have	330: Common - Link Suspicion	Links (7): 1, 2, 3, 4, 5, 6, 7	Marc Ba	George De
▶ [RM] Backlinking - Query service consumpti...	7	7 - Priority	296: Common - Linking	Test Case 56706 - RRM_Req2De	Marc Ba	Vishy Ram:
▶ [RM] Finer grained WRITE access control	8	7 - Priority	495: Manage Security on Data	Links (2): 1, 2	Mark Go	Dominic Tu
▶ [RM] Improve upgrade experience 169175	9	7 - Priority	342: Data migration from RRC 2.0.x	Test Case 51839 - RRM_RRC_Ac	Alastair	Devang Pa
▶ [RM] Requirements Parsing (rich-text/conve...	10	7 - Priority	340: Common - MS Word Document Import (Data	Links (3): 1, 2, 3	Min Idze	Vishy Ram:
▶ [RM] Support Data reorganization (server m...	11	7 - Priority	--	Test Case 55020 - RRM_RRC_Se	Devang	Devang Pa
▶ [RM] Adopt clustering for HA and/or horizont...	12	7 - Priority	Links (3): 1, 2, 3	Links (2): 1, 2	Knut Ra	Devang Pa
< ▶ [RM] Web Client Baselineing modules for au...	13	2 - Nice to Have	Links (2): 1, 2	Test Case 52582 - RRM_AlignIT_f	Tim Neil	ian green
< ▶ [DOORS Next] Type Based Link Preferences	14	7 - Priority	739: Link Schema Control User Stories	--	Lynne K	Ed Gentry
▶ [RM] Group access rights	15	2 - Nice to Have	495: Manage Security on Data	Test Case 52458 - RRM_AlignIT_:	Mark Go	Dominic Tu
< ▶ [RM] Module wide find and replace	16	2 - Nice to Have	1442: Module Wide Find and Replace	Test Case 52582 - RRM_AlignIT_f	Lynne K	Ed Gentry

## Other Requirement Elaboration Artifacts in RRC

- End user scenarios
- Feature team supporting documents
- UI design documents
- Terminology
- Meeting minutes
- Customer feedback (e.g., beta program, DPP, etc.)
- Process documents





[www.ibm.com/software/rational](http://www.ibm.com/software/rational)

# End User Scenarios

Project Dashboard Artifacts Collections Reports

Create Scenario

- Views
- Filter by Tag
- Filter by Attribute
- Filter by Folder
  - RM Product Definitions\_Private (F)
    - 1. README FIRST
    - 2. Scenarios**
    - DOORS Next Generation
    - RELM
    - RRC v3.0.1
  - Collaboration
    - Beta program
    - CLM 2012 Retrospective N

## Artifacts

Page size: 20

ID	Name	Artifact Type	Last Modified By
289	Author, Structure and Reuse Requirement Artifacts	Scenario	Richard Watson
434	Baseline	Scenario	Richard Watson
424	Collaborate on requirements through review and comment	Scenario	tina zhuo
408	Create and Manage a DOORS Next project	Scenario	Richard Watson
554	DOORS Next Beta 1 Scenario	Scenario	George DeCandio
1570	DOORS Next Beta 2 Scenario (Replaced by Artifact 2114)	Scenario	tina zhuo
9759	DOORS and DOORS NG Interop Scenario for 2012	Scenario	tina zhuo
426	Data Import, Export and Printing	Scenario	tina zhuo

# Beta Scenario

## 554: DOORS Next Beta 1 Scenario

### Part 1. Product installation and figuration

**Role: Product administrator**

1. Installs and configures DOORS Next server, DOORS Next Rich client and Web client.
2. Optionally install and configure CCM from the CLM offerings

### Part 2. User and project administration

**Role: Project Administrator**

**DOORS Next Web Client**

1. Project administrator manages users.
2. Project administrator creates a project using an out-of-box project template, and customize the type system. (Need a requirements engineering template for managing system requirements)
3. Project administrator assigns users to the project.

### Part 3. Task management

**Role: Project Manager & Requirements Engineer**

**DOORS Next Web Client & CCM Work Item & Planning**

**Note:** To complete this part of the scenario, CCM application from CLM needs to be installed and configured.

1. Project Manager does RM planning using work items, and creates the following RM tasks and assign them to Requirements Engineers,
  - Define a folder hierarchy to organize requirements
  - Create different requirements specifications (using modules) to capture stakeholder requirements, system requirements and subsystem requirements.
    - Use rich text artifacts
    - Import a Word
    - Import CSV
    - Import a ReqIF package from DOORS9 into a module.
2. Requirements Engineers view assigned tasks on the personal dashboard
3. Requirements Engineers start working on RM tasks

### Part 4. Importing, authoring, and linking requirements

# Suspect Artifacts – Feature Team Supporting Artifacts

Supporting artifacts related to design and implementation

Project Dashboard Artifacts Collections Reports

Create Supporting Doc

Views

Filter by Tag

Filter by Attribute

Filter by Folder

- Server timing hooks
- Suspect links
- Tracked Resource Set
- WC
- Write Access
- L3 Support

Artifacts

Page size: 50

ID	Name	Artifact Type	Last Modified By
1321	Suspect Links Specification	Supporting Doc	Marc Baumbach
3175	Suspect Discovery Service Specification	Supporting Doc	Marc Baumbach
1987	Suspect Profile Storyboard	Storyboard	Marc Baumbach
1991	Suspect Scenarios	Scenario	Marc Baumbach
740	Design Ideas for Suspect Linking	Supporting Doc	Vishy Ramaswamy
117	Suspect link stories	Supporting Doc	tina zhuo

# Suspect Artifacts – UX Design

## Artifacts ?

Page size: 20

ID	Name	Tracked By	Link To
1217	UX Plan for Modules	<ul style="list-style-type: none"> <li>46445: UX: Design for Navigating to a Module</li> <li>46448: UI Design for Representing, Managing and Customizing "Views"</li> <li>46451: UI Design for the basic display of (module) content in a grid in document mode</li> <li>46452: UI Design for manipulating artifacts in a module – adding artifacts, creating artifacts, removing artifacts and reordering artifacts</li> <li>46454: UI Design for Virtually Scrolled Grids (Grids</li> </ul>	<ul style="list-style-type: none"> <li>3267: UI Designs for module audit history</li> <li>1831: UX Review of Editing Modules</li> <li>1312: UI Design: Manipulating artifacts in modules</li> <li>1963: UI designs for commenting in modules</li> <li>1486: UI explorations for commenting on modules</li> <li>1365: Module look and specialized columns</li> <li>1366: Virtual Scrolling in Modules and GRIDS</li> <li>1368: FishEye-Animation.gif</li> </ul>
956	UX Plan for Artifact Suspicion (web client)	<ul style="list-style-type: none"> <li>52552: UI Design: suspect links - profiles</li> <li>52554: UI design: suspect links - showing and acting on suspect links in RM</li> </ul>	<ul style="list-style-type: none"> <li>2861: UI Design for showing suspect artifacts</li> <li>2957: UI Design for Suspect Profile</li> </ul>
941	UX Plans for Baselineing Modules (web client)	<ul style="list-style-type: none"> <li>46261: UX: Design for module baselines</li> </ul>	<ul style="list-style-type: none"> <li>940: UI Designs for baselineing modules</li> </ul>
1038	UX Plan for finer-grained write access	<ul style="list-style-type: none"> <li>46838: UX: Design for finer-grained write access</li> </ul>	<ul style="list-style-type: none"> <li>1510: UI Designs for permission presentation</li> <li>1367: UI Design for write access control (setting permissions)</li> <li>607: Write Access Stories</li> </ul>
1197	UX Plan for ReqIF (web client)	<ul style="list-style-type: none"> <li>46419: UX design needed for basic ReqIF import</li> </ul>	<ul style="list-style-type: none"> <li>1386: UI design for Importing ReqIF (web</li> </ul>

UX Plan (in RRC) for each main feature

Tasks in RTC track the UI work

Links to UI design artifacts (storyboards in RRC)

# Suspect Artifacts – UI Design Storyboard

## 2957: UI Design for Suspect Profile ?

1. Suspect Artifacts Profiles link
2. Select project
3. Profile editor
4. Create new profile
5. Select link types
6. Select projects
7. Projects updated
8. Select artifact types
9. Select attributes
10. Table updated
11. Save profile
12. Back to project area list

List of profiles is listed on the left. Click New Profile to create a new profile.

Rational Team Server (rational.team.ibm.com/9443/ra)

Suspect Artifact Profiles Kirk

All Project Areas >

Manage Profiles for RM Project 1 Save

Suspect Artifact Profiles + New Profile

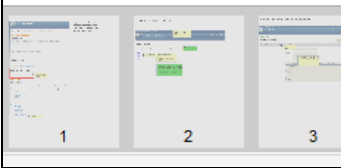
Profile Details

2. Click to create new profile

Description:

1. All link types (available from the project we are defining the profile for) are listed. All are unchecked by default.

Link types to follow	watch	Attributes to watch
<input type="checkbox"/> Implemented by		
<input type="checkbox"/> Tracked by		
<input type="checkbox"/> Satisfied by		
<input type="checkbox"/> Satisfies		
<input type="checkbox"/> Illustrated by		
<input type="checkbox"/> Illustrates		





# Glossary and Terminology Discussions

Views

- All Software Requirements
- All User Requirements
- Glossary**
- Satisfying DCP Doc
- Satisfying User Requirements
- Terminology Working Group
- User Requirements Implemented By PI
- Welcome - guide for visitors

Filter by Tag

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ID	Name	Primary Text	Alternative Spellings	Status	Tags	Satisfies
1858	<a href="#">\$\$ README for this glossary</a>	This glossary is for a number of audiences: The RM product team, to aid us in communicating clearly, consistently, and as simply as possible Other Jazz product teams who need to understand the RM application and related concepts Customers who want to learn more about Rational		Approved		
1865	<a href="#">Artifacts page</a>	The page in the RM application that shows a row and column list of artifacts, their attributes, and their relationships, including hierarchy when the list is expressed in links. This view is customizable. Artifacts can be created and edited in this view. Informally and internally the list of		Approved		<a href="#">1542:Project page vs View All Artifacts page vs artifact list - term discussion</a>
520	<a href="#">CLM product</a>	A product that can be used as part of the Rational solution for Collaborative Lifecycle Management .		Approved		
368	<a href="#">Collaborative Lifecycle Management</a>	The integration of products on Jazz technology to connect the work of analysts	CLM	Approved		

Term

Definition

Link to term discussion

Read more at jazz.net (<https://jazz.net/library/article/812>)

# Benefits

## Key benefits experienced by the team

---

Increased the range and depth of stakeholder participation

Elicited more and better feedback before code was written

- In requirements
- In feature design

---

Less churn / rework

Converged faster on the “right” requirements

Identified gaps and clarified misunderstandings more quickly

---

Better productivity through lower cost, higher value communication

Developers and testers communicated better among themselves, especially across component teams.

# QUESTIONS

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