

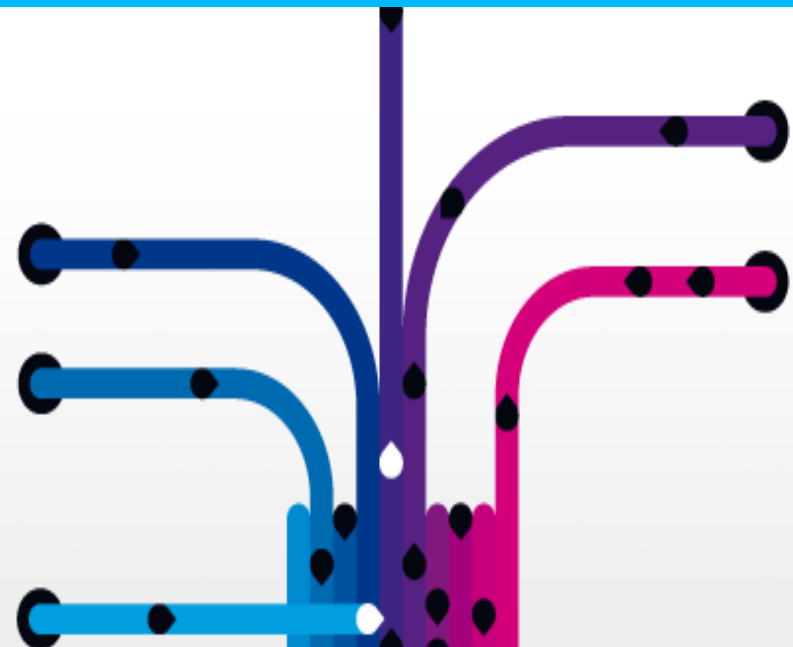
# New Rational DOORS Next Generation at a glance

## IBM Symposium Systèmes

L'innovation au cœur des produits plus intelligents

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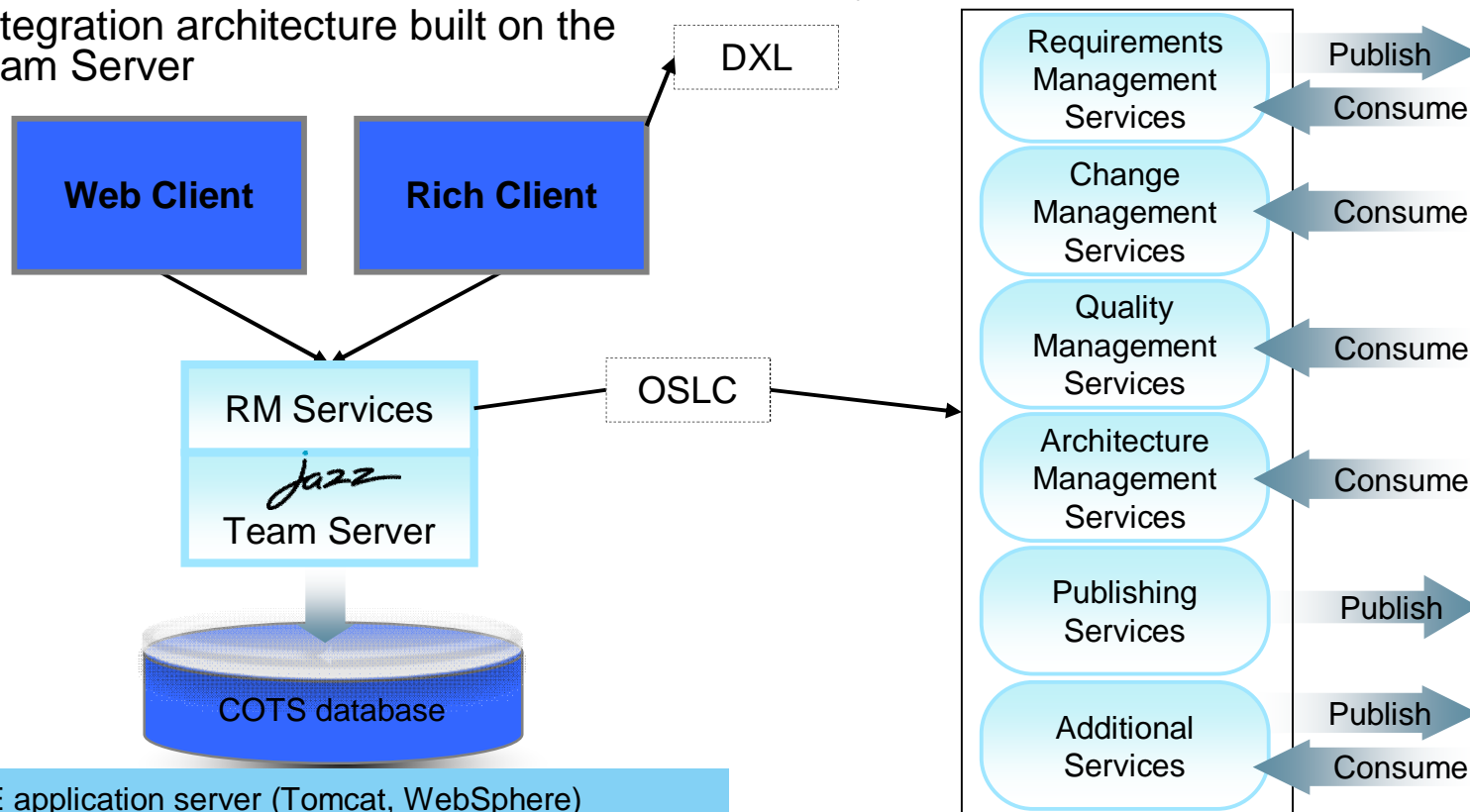
# Rational Tools for Requirement Management

- Existing products
  - RequisitePro
  - DOORS
  - Large customer base, products under maintenance (no major technological enhancements planned)
- New solution based on the innovative Jazz technology
  - Rational RM Next Generation marketed in two ways
    - Requirement Composer
    - DOORS Next Generation Web Client + Rich Client
  - Compatible with the existing solutions through either migration or co-existence



# Architectural Plan for Rational RM Next Generation

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



- JEE application server (Tomcat, WebSphere)
- Relational Database (DB2, Oracle, MS SQL server)
- Optional: LDAP-enabled directory server for users
- Optional: clustering via Web Sphere
- Browser support (various versions of IE, Firefox)
- Rich client application support



# Rational RM Next Generation

## Requirements Management for the Development Lifecycle

### 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
- Common admin and role-based user licensing
- Access Permissions
- Warehouse reporting

### Planning

- Integrated planning
- Effort estimation
- Task management



**Supports RequisitePro/DOORS Data Migration**



# Fully functional Web client

- Modern web look-and-feel minimizes adoption cost for new and casual users

**Filter Pane**
**Collection/Module**
**Properties**

The screenshot displays the DOORS NG Beta 3 web client interface. The main content area shows a list of requirements for a project titled "11: Requirements for Reuse". The list includes a summary row and several detailed rows with IDs and content.

ID	Contents	Priority
87	1 Reusable requirements for the AMR project	
151	1.1 Operational Temperature Constraints	
38	All exposed equipment shall have an operating temperature range of -4° to 122° F/-20° to 50° C.	Medium
27	All exposed equipment shall have a storage temperature range of ambient to -40°F/-40°C ambient to 158F° /70°C .	Medium
293	1.2 Operational Environment Requirements	

The interface also features a "Filter Pane" on the left with options like "Filter by Tag" and "Filter by Attribute". A "Properties" pane on the right shows details for the selected requirement, including project name, ownership, and creation/modification dates.



# Visual traceability with the Graphical Links Explorer



Requirements Management

Jared Pulham

Search Projects

70: Dividend allocation by percentage

102: Allocating Dividends to a Cause

134: Allocate dividends by Percentage

144: Donor Opposes an Organization

131: Accelerate

80: Donor Chooses

**Graphical Traceability Explorer**

**Capability**

- Visually analyse traceability links for gap and change assessment
- Filter on relevant link types

**Benefits**

- Best method to see relationships from requirements to other requirements, test, development, etc.

Display primary link labels

Select link types to show:  
Constrained By, Constrains, Satisfied By, Satisfies

Type to filter

- Synonym
- Illustrated By
- Illustrates
- Constrained By
- Constrains
- Satisfied By

ID	Contents	Satisfied By	Satisfies
	data shall be retrievable on demand from any meter interface via the network or a handheld.		
379	When connected to a fixed network, the meter interface unit shall 'wake up' and communicate for 4 seconds every 30 minutes, synchronizing all clocks and configuration information. Between these transmissions, the unit remains in a low power state, conserving battery life.		537: The meter interface unit shall be able to collect meter data at regular interval (AMR Stakeholder Requirements Specification)
576	The meter interface shall detect water leaks and record leak status with the account data.	479: detectLeak (Meter Interface Subsystem Requirements Specification) 563: monitorPressure (Meter Interface Subsystem Requirements Specification)	603: The meter interface shall detect water leaks and record leak status with the acc (AMR Stakeholder Requirements Specification)
402	The meter interface unit shall sample water flow every 15 minutes in a 24 hour period to determine leakage.	563: monitorPressure (Meter Interface Subsystem Requirements Specification)	

3.1.3 Fixed Network

Showing 78 Artifacts



# Attribute Traceability Report

*Attribute values are displayed in traceability views*

**Attribute Level Traceability**

**Capability**

- Create real time attribute traceability reports to show all project detail for linked requirements

**Benefits**

- Stop replicating information or needlessly navigating information when you can have one view that shows you all traceability in a single place

ID	Name	Link From	Link To
605	Perform Well		608:Meet Customer Needs Creator: Christian Funkhouser Modified On: Jul 31, 2012 4:32 PM
606	Operate Safely	605:Perform Well Status: Draft Priority: Medium	606:Operate Safely Creator: Christian Funkhouser Modified On: Jul 31, 2012 4:32 PM
		605:Perform Well Status: Draft Priority: Medium	609:One Attributes not available <a href="http://www.jazz.net/">http://www.jazz.net/</a>
		605:Perform Well Status: Draft Priority: Medium	611:My First Module Creator: Christian Funkhouser Modified On: Jul 20, 2012 9:49 AM



# Artifact Locking

Ensure you have locks on requirements when working in multi-user projects

The screenshot shows the 'Artifacts' section of the RMS4.0.1-N20120730\_1701 interface. A table lists artifacts with their IDs and names, and their locking status is indicated by icons in the first column:

ID	Name	Locking Status
89	Accelerate economic recovery	Your own permanent lock
105	Increase agility to produce applications and	Your own edit lock
300	Give Back	Another's Permanent Lock
332	Falsified information will lead to denied statu	Another's edit lock

**Artifact Locking**

**Capability**

- Lock a requirement artifact while you are making changes
- Apply permanent locks to restrict

**Benefits**

- Control who can change information to your requirements while you are working
- Improve your multi user experience





# Suspect links for impact analysis

1 linked artifact has changed significantly:

**Product Manager (1)**

- 5: Test Increasing Agility

**Developer (1)**

- 5: Test Increasing Agility

Overview

**349: Increase agility to produce applications and services**

Description:

Project: JKE Banking

Team Ownership: JKE Banking

Created On: Feb 27, 2012 9:44:28 AM

Created By: p

Modified On: Feb 27, 2012 9:45:07 AM

Modified By: p

Is suspect:

**Suspect Links**

**Capability**

- Use suspect profiles to track changes to linked requirements
- Use suspect notifications in many different areas
- Clear suspicion for individual/all

**Benefits**

- discover changes across trace links among requirements and other lifecycle elements
- Easily recognise impact to your requirements

Links (1)

Validated By (1)

- 5: Test Increasing Agility

**Artifacts**

Page size: 20

ID	Name	Artifact Type
349	Increase agility to produce applications and services	Business Goals
356	Accelerate economic recovery	Business Goals



# Collection Comparison

*Compare collections to version of the same collections for change report*

**Compare Collections**

Release 1 Planning

Release 1 (July 25, 2012 1:55 AM)

Release 2 Planning

Current Version

▼ Artifacts in Collection 1 only (18)

- 282: Allocate dividends by Percentage
- 255: Requests sent in form of hard copy mail
- 382: Validate Loan term and amount
- 368: Donor Dividend Allocation Criteria

**Compare Collections**

Release 1 Planning

Release 2 (July 25, 2012 1:59 AM)

Release 1 Planning

Current Version

Compare

▶ Artifacts in Collection 1 only (0)

▶ Artifacts in Collection 2 only (0)

▼ Artifacts in both collections, at different versions (1)

- 377: Promote JKE Corporate Image

Changes between older version (in Collection 1) and newer version (in Collection 2)

Changed on Jul 25, 2012 2:01:56 AM by p	Primary Text	<a href="#">Show changes</a>
	Description	<a href="#">Updated Description.</a>
Changed on Jul 25, 2012 2:01:31 AM by p	Link	added: Link To 291: Meeting Requesting Extended Functionality Content

**Collection Comparison**

**Capability**

- Compare collections to version of the same collections for change report

**Benefits**

- Discover differences in project information progress quicker and learn what has changed



# Write Access Support Permissions

The screenshot shows the 'Permissions' configuration window for a project role. The 'Roles' list includes 'Author', which is selected. Under 'Permitted Actions', the 'Save Artifact' checkbox is checked, and its sub-items 'Create an artifact', 'Delete an artifact', and 'Modify an artifact' are also checked. A context menu is open over the 'Images' folder, showing options like 'New Folder', 'Create...', 'Upload...', 'Assign Team Ownership...', 'Delete', 'Move', and 'Rename'. A callout box highlights 'Project Managers & Team Leaders' with an icon of a person at a computer.



**Write Access Support**

**Capability**

- Set Write access permissions on a project role for the members of a project/team area

**Benefits**

- Control editing and modification to your project requirements, scenarios, and use cases



# Project templates (download and upload)

Name	Description	Artifacts	Artifact Template:	Attributes and Data Types	Links	Link Types	Folder Structure	Tags	Shared Views	
Agile Requirement Template	This template will help you get started with agile requirements at scale.	⊘	✓	✓	⊘	✓	✓	✓	✓	
Base						⊘	⊘	⊘		<div data-bbox="1736 730 1982 917"> <ul style="list-style-type: none"> <li>Edit</li> <li>✗ Delete</li> <li>Download</li> </ul> </div>

**Project Templates Upload**

**Capability**

- Download project templates from other repositories
- Upload and use the project in another repository

**Benefits**

- Reuse well established project templates for other projects
- Start new projects quickly with minimal setup and configuration

**Project Managers & Team Leaders**



# Requirements Parsing (from Word Documents)

**Requirements Parsing**

**Capability**

- Automatically identify imported requirements using keywords and document hierarchy

**Benefits**

- Quickly identify requirement with syntax standards using structure and key words

**Upload File**

File to Upload: \*  
C:\Users\IBM\_ADMIN\Desktop\Mobile Banking.doc

Mime Type: \*  
Microsoft Word Document (doc)

**Artifact Information**

Name: \* Mobile Ban

Artifact Type: \* Non-Functi

Artifact Format: \* File

Description:

**Location**

Folder: Christian

Tags:

**Import**

1 Import 2 3 4

Select what to import

- Import requirements from within a text document  
Identifies and extracts requirements within the document (Word, OpenDocument, O document).
- Import requirements from a CSV file  
Extracts requirements from a CSV file.
- Import requirements from a ReqIF file  
Import requirements defined in a Requirements Interchange Format file.
- Import requirements from a ReqIF file in this project  
Choose this option if you previously uploaded a ReqIF file and want to continue im
- Import a text document and convert to a rich text artifact

**Specify how to identify requirements**

1 2 3 Identify requirements 4

Specify how to identify requirements

There are several criterion you can use to identify requirements within the document. For each criterion you want to use, specify the artifact type to create.

**Headings**

For each heading, create artifact type:  
Term (Glossary Terms)

**All other text**

For all other text (not matching criterion above), create artifact type:  
Vision (Vision document)

Click next to begin importing the requirements.

**Analysts, Doc Controller**



# Requirements Interchange Format (ReqIF)

**ReqIF Manager**  
Create and manage ReqIF definitions, which are used to create and export ReqIF files.  
No ReqIF definitions defined yet. Click on the "New Definition..." link below to create one.

ReqIF Definitions + New Definition...

Name
Mobile Banking

Name: \* Mobile Banking  
Description: Project Milestone for transfer

**ReqIF Export**

95%

Show Report Download Close

Include Folders

Artifacts + Add Artifact ✕ Remove Artifact

Cancel Save



**ReqIF**

**Capability**

- Export requirements from project using XML standard format ReqIF
- Take project data to new database

**Benefits**

- Establish new projects based on existing requirements
- Easily collaborate with partners and collaborator using export formats

1 2 3 Specify Import Options 4

**Specify Import Options**

Select Import Option

Specify the folder location to place newly created artifacts without a defined folder hierarchy.

Selected Folder TestFolder Select Folder

Place newly created artifacts with no module hierarchy in a user defined module.

Selected Module Test Module Select Module



# Working in an ALM environment

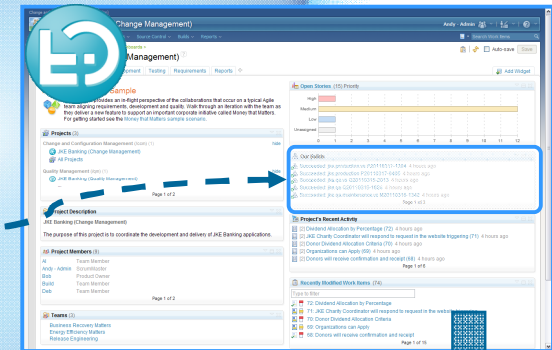
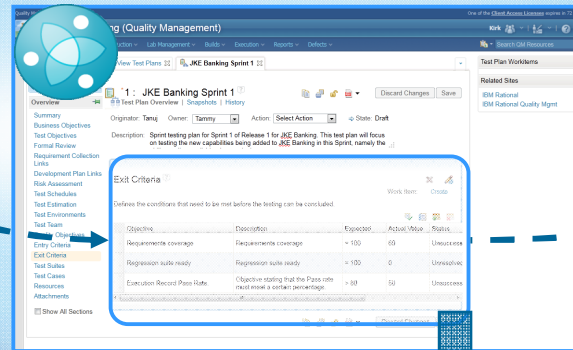
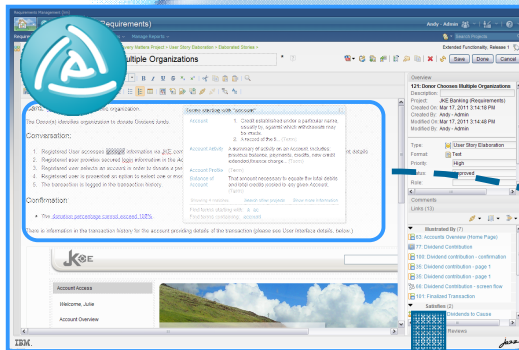
## Requirements driven development across the lifecycle



RRC / DNG 4.0

Rational Team Concert 4.0

Rational Quality Manager 4.0



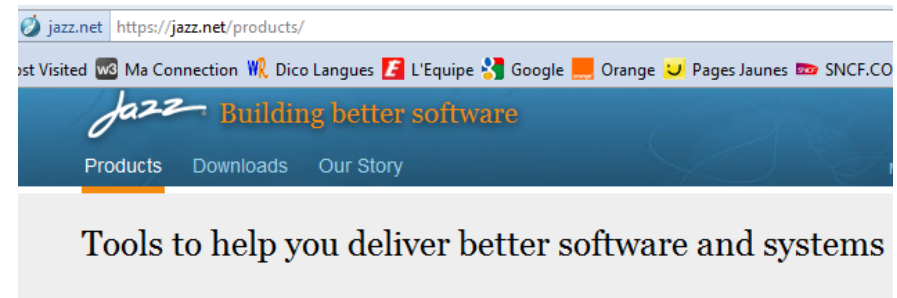
ID	Name	Artifact Type	Implemented By	Validated By
8	Dividend allocation by percentage	Feature	75: Dividend Allocation by Percentage	18: Dividend Allocation by Percentage
	Requirements	Feature	6: Customers can Nominate an organization	21: Customers can nominate an organization for the program
		Development		10: Customers Organization
12	Donor Dividend Allocation Criteria	Feature	73: Donor Dividend Allocation Criteria	16: Donor Dividend Allocation Criteria
	Satisfied by			
23	Frequency of dividend transfer	Feature	58: Frequency of dividend transfer	1: Frequency of dividend transfer

**Single View for End to End Development Needs**



## How to move to the new RM Next Gen?

- All the tools are available from the Jazz web site
- Requirement Composer and DOORS Next Gen are “Generally Available” in version 4.0.1
  - Migration path from RequisitePro through document import directly available in the product
  - Transfer path from DOORS through ReqIF exchange format
    - Co-existence also possible



### Rational Requirements Composer

- ✓ Requirements definition
- ✓ Management
- ✓ Analysis



### Rational DOORS Next Generation

- ✓ Requirements engineering for complex systems
- ✓ Definition
- ✓ Management
- ✓ Analysis

IBM has included DOORS Next Generation 4.0.1 as part of the DOORS 9.5 release.

For each DOORS license entitlement that has active Subscription and Support, a customer will be able to use either DOORS V9 or DOORS Next Generation





## IBM Rational Solution for system and software engineering

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