COMMON Suisse Romande, 13 Mars 2012

Collaborative Lifecycle Management

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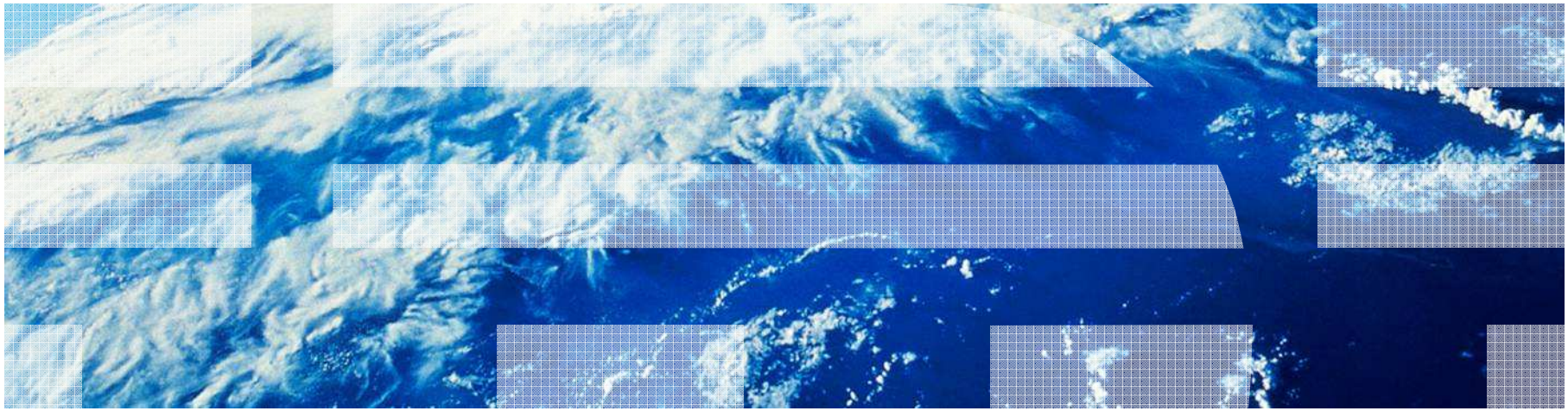
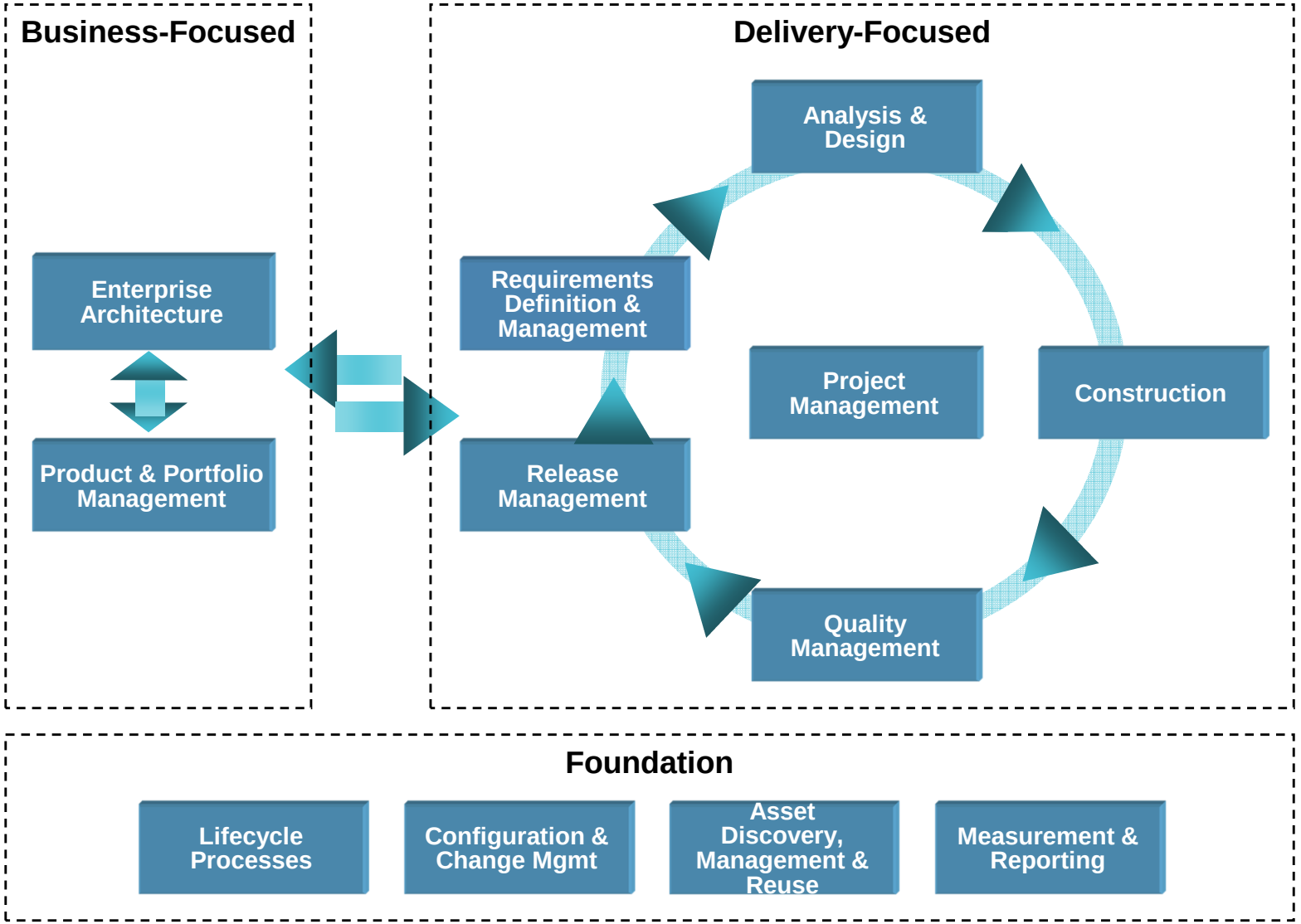


Rational. software

Agenda

1. Introduction
2. Rational Software Delivery Platform Overview
3. Application Lifecycle Management (ALM) with Rational Software
4. Rational Tools for Power
5. Complete Jazz in 5 Minutes
6. Summary

Software Delivery Capabilities



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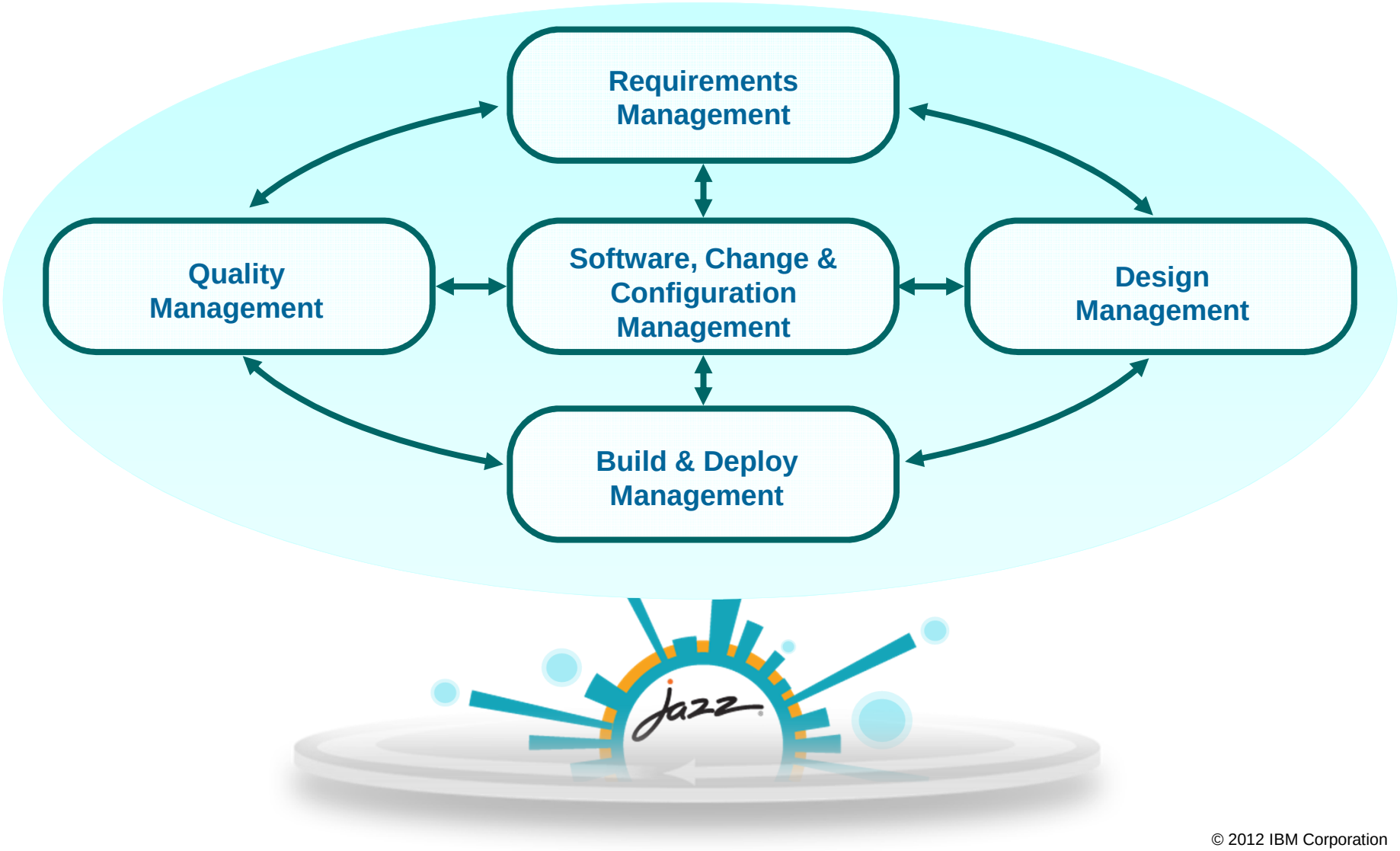
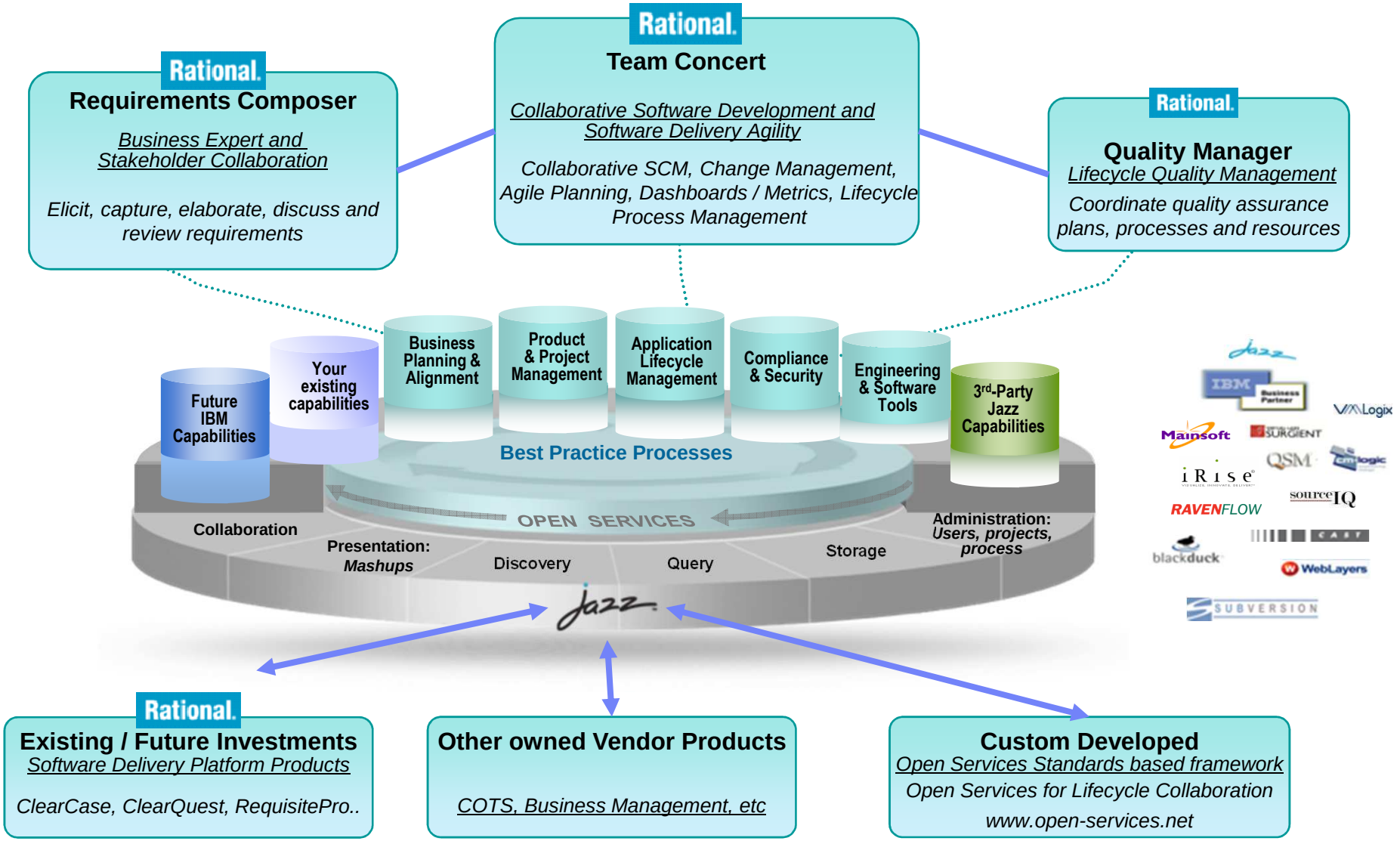
Rational Application Lifecycle Management (ALM)

Modular, open and extensible



Enable ALM across your organization



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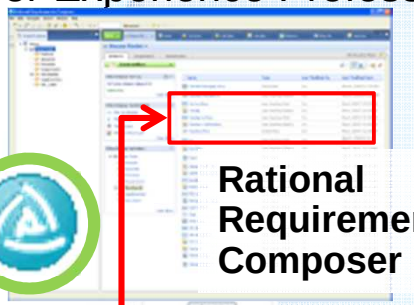
Align development and test activities

Break down role-based information silos for better project execution

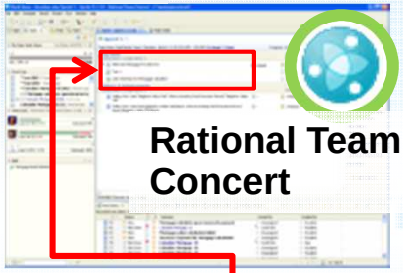
Analyst, Product Manager
User Experience Professional

Developer

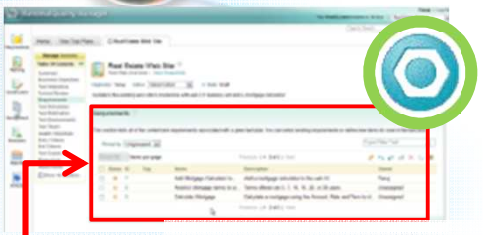
Tester



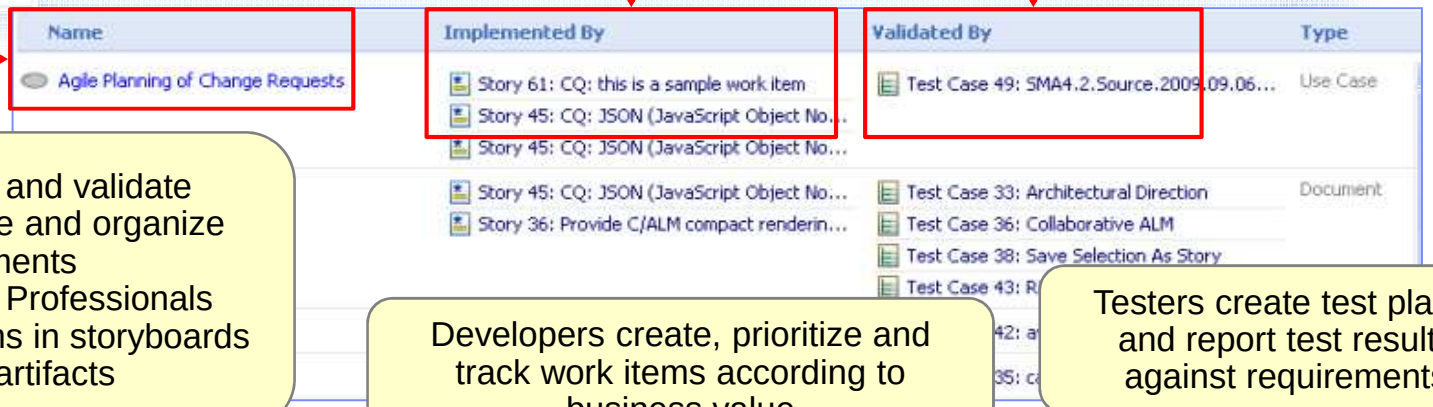
Rational Requirements Composer



Rational Team Concert



Rational Quality Manager



Analysts define and validate scenarios; analyze and organize requirements
User Experience Professionals elaborate work items in storyboards and other artifacts

Developers create, prioritize and track work items according to business value

Testers create test plans, and report test results against requirements

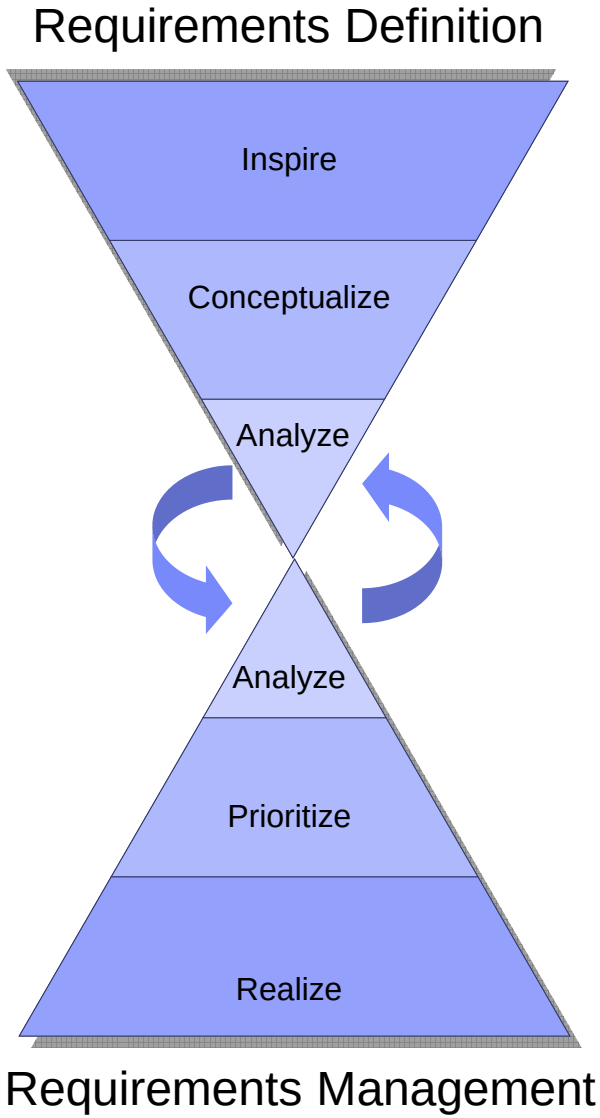
Rational Requirements Definition And Management

Our vision for Requirements Definition and Management (RDM)

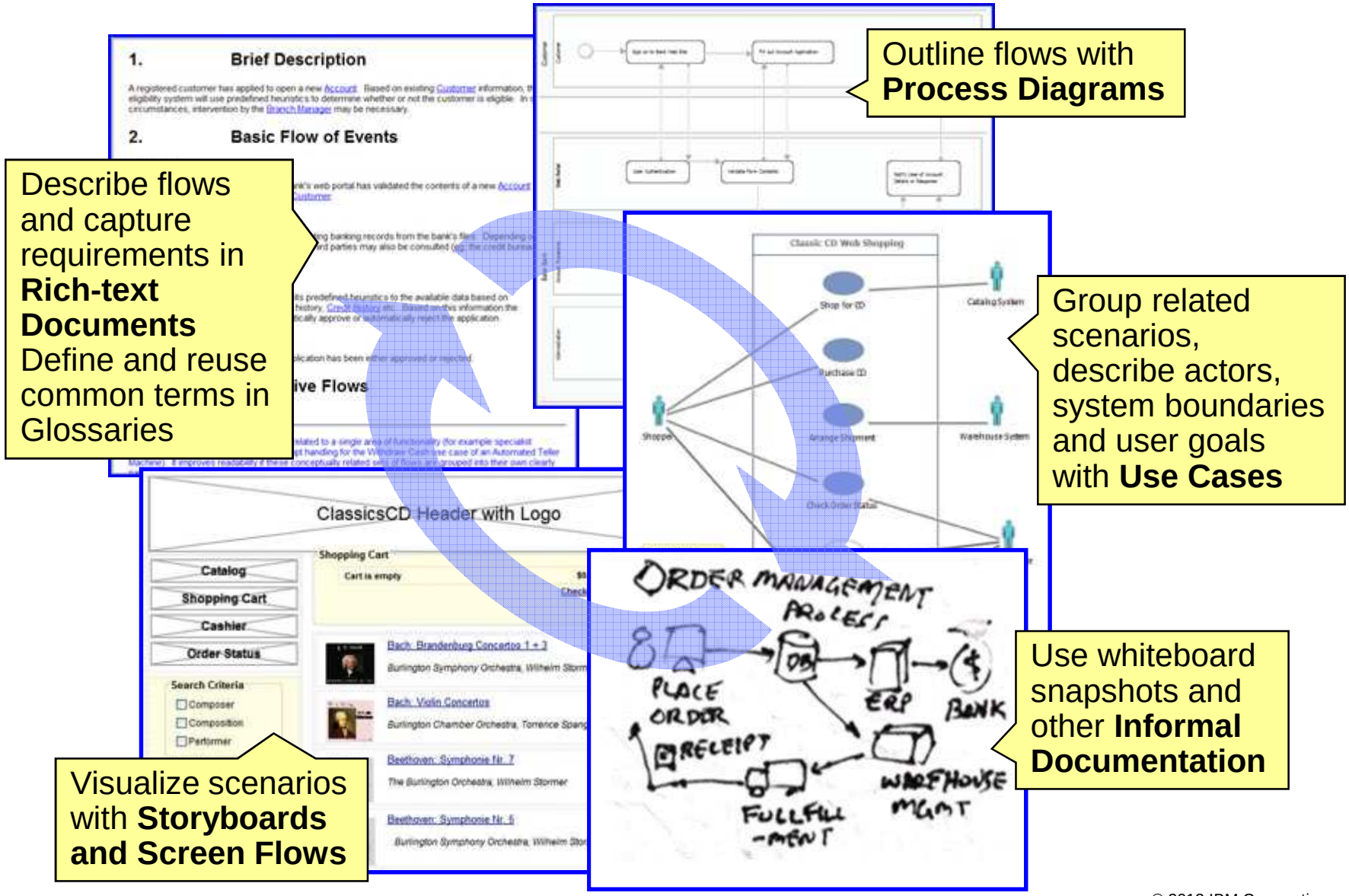
Foster focused, natural, real-time, contextual collaboration using various techniques and artifact types

Enable:

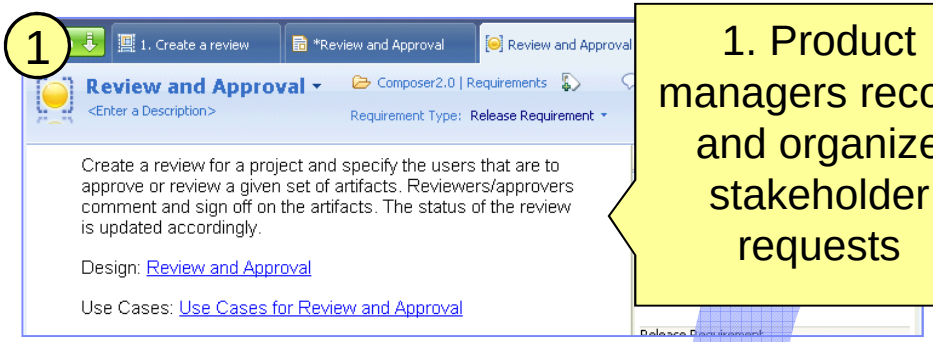
- improved requirements definition, validation and management of requirements change through the software development lifecycle
- more and clearer communication among business stakeholders & IT delivery teams wherever they are located
- less project rework, faster project execution and lower-cost delivery



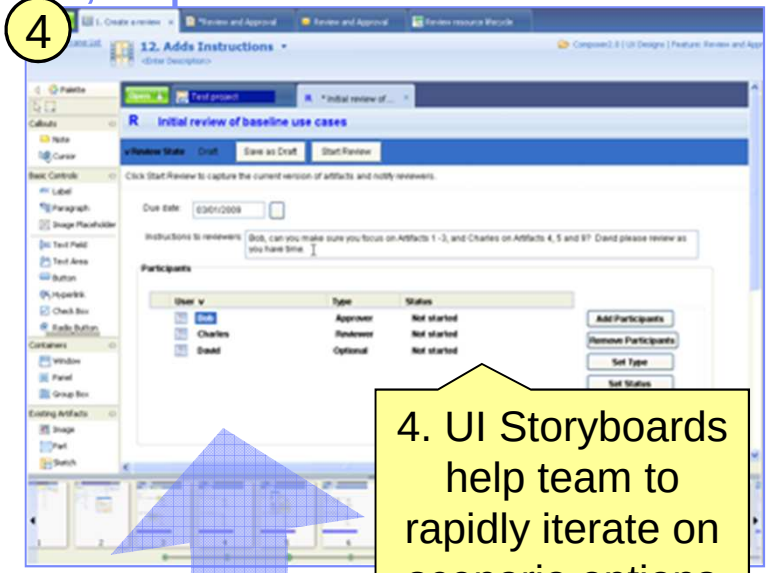
Use scenarios to uncover customer needs



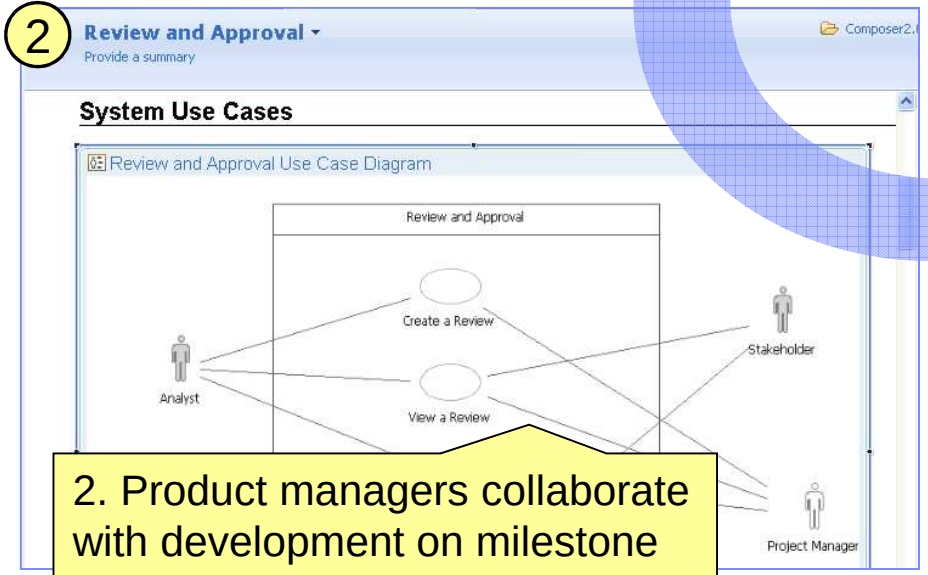
Many notations, extensive team involvement, rapid iterative refinement



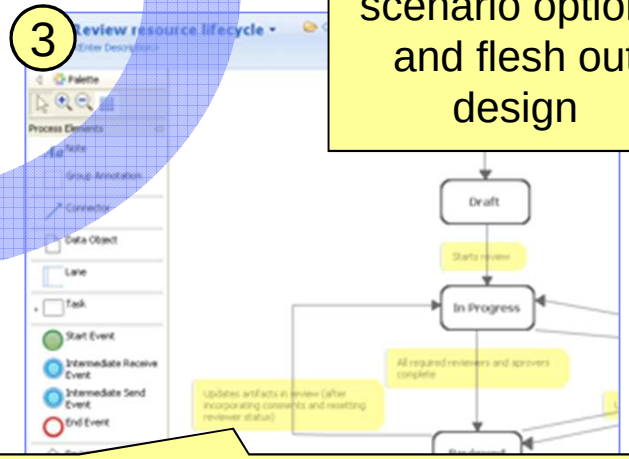
1. Product managers record and organize stakeholder requests



4. UI Storyboards help team to rapidly iterate on scenario options and flesh out design



2. Product managers collaborate with development on milestone scenarios and use cases



3. Architects and subject matter experts use process diagrams and text to outline scenarios

Rational Team Concert: A closer look

Iteration Planning

- Integrated iteration planning and execution
- Task estimation linked to key milestones
- Out of the box agile process templates

Project Transparency

- Customizable web based dashboards
- Real time metrics and reports
- Project milestone tracking and status

SCM

- Integrated stream management
- Component level baselines
- Server-based sandboxes
- Parallel development
- ClearCase connector

Work Items

- Defects, enhancements and conversations
- View and share query results
- Support for approvals and discussions
- Query editor interface
- ClearQuest connector

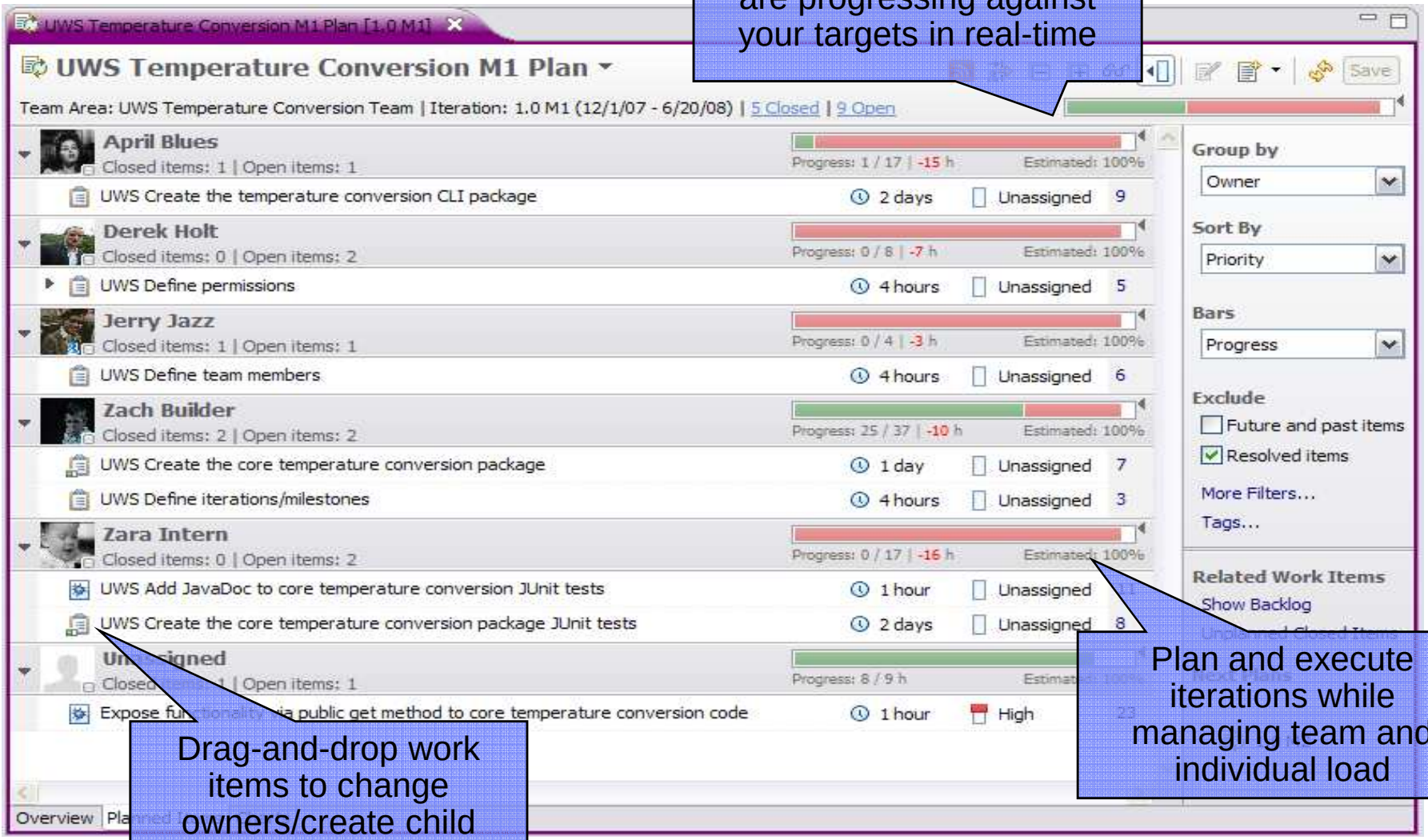
Build

- Work item and change set traceability
- Build definitions for team and private builds
- Local or remote build servers
- Supports Ant and command line tools
- Integration with Build Forge

Jazz Team Server

- Single structure for project related artifacts
- World-class team on-boarding / off-boarding including team membership, sub-teams and project inheritance
- Role-based operational control for flexible definition of process and capabilities
- Team advisor for defining / refining “rules” and enabling continuous improvement
- Process enactment and enforcement
- In-context collaboration enables team members to communicate in context of their work

Iteration Planning



IBM Rational Quality Manager

Jazz centralized test management

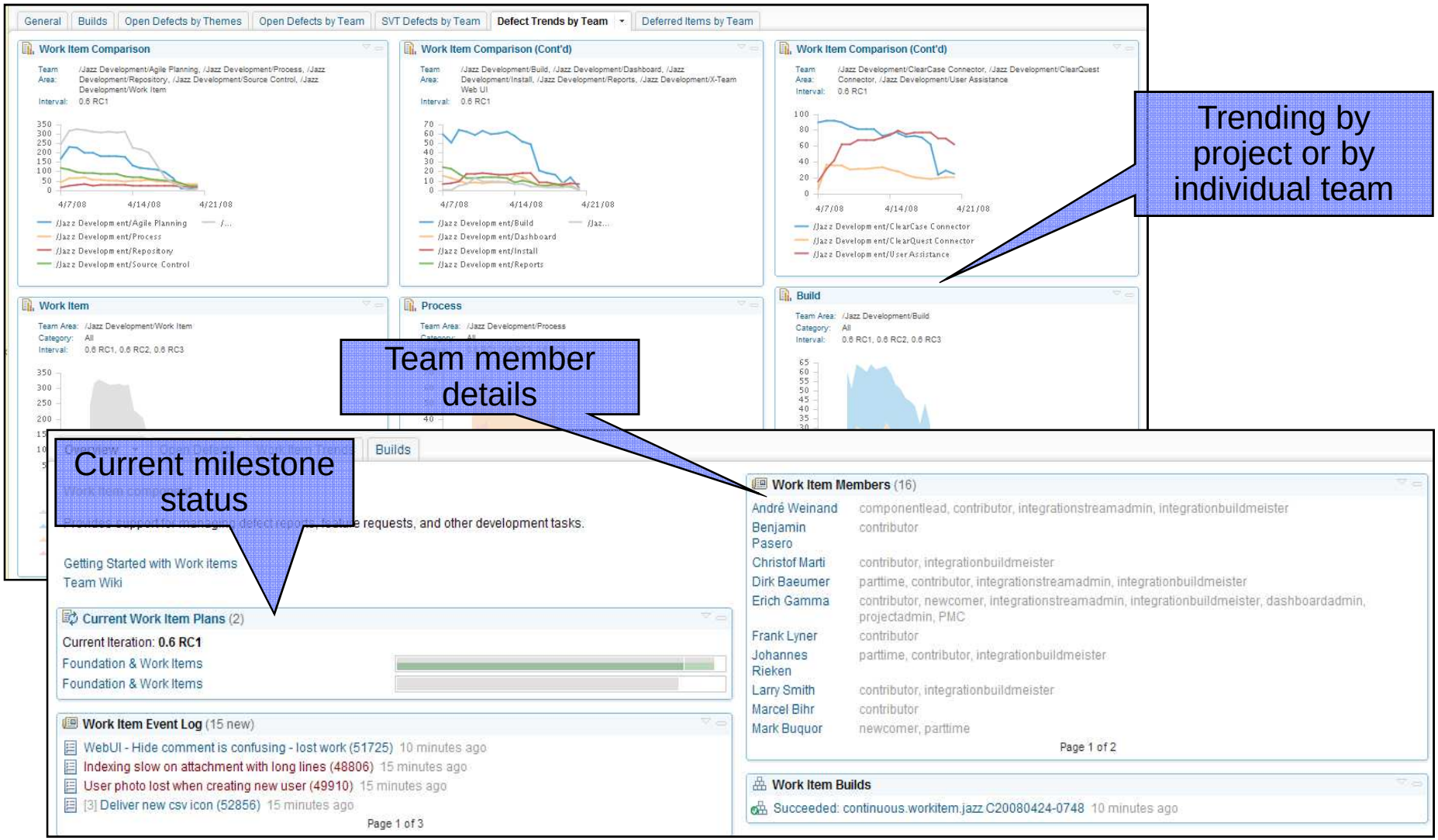
Requirements driven testing

Knowing what to test

- Requirements tracking built into the test management tooling
- Customizable attributes enable you to track what is important to your team
- Real-time impact analysis of requirements changes
- Traceability of test results to user needs

Know you are testing the right things

Dashboards and reporting



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IBM Rational solutions for Power Systems

IBM Rational Developer for Power Systems Software

Common developer desktop delivering integrated **developer tools** for Power operating systems and programming languages.

IBM Rational Compilers

New **compilers** exploit Power Systems including the latest POWER7 architecture and multi-core technology, boosting performance, productivity and portability.

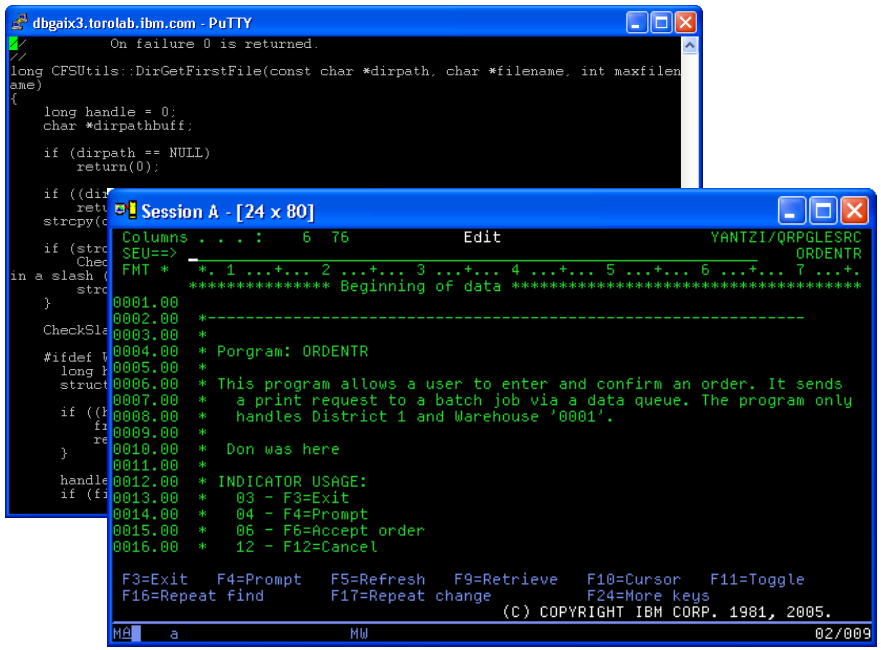
IBM Rational Team Concert for Power Systems Software

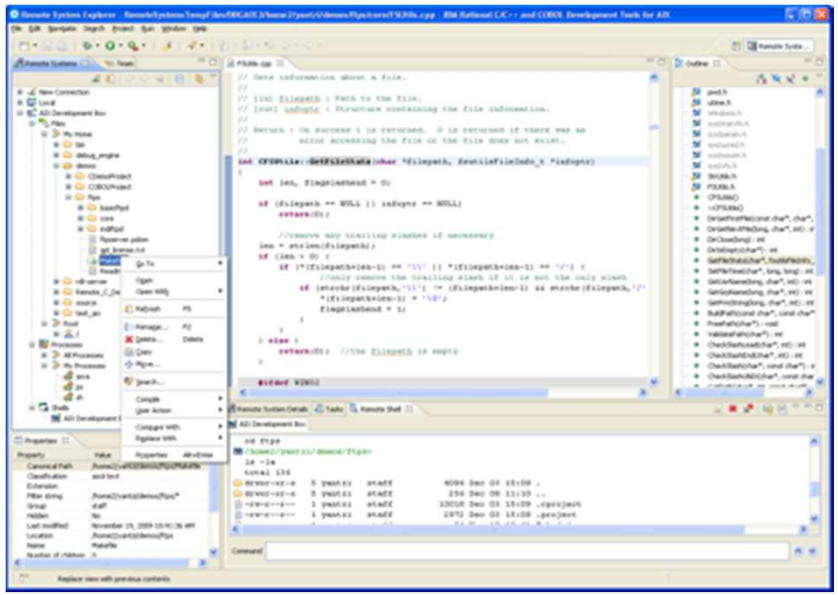
Common server infrastructure enables **collaborative coordination** for multi-platform development teams.

Learn more: www.ibm.com/software/rational/announce/power/

Rational Developer for Power Systems Software

- Rational Developer for Power Systems Software
  - *Modern*, Eclipse-based, development tools for IBM Power Systems
    - Visual editors, outline views, content assist, integrated language help
  - *Integrated* file management, search, edit, compile/build, and debug capabilities
  - Analysis tools (application diagram, call hierarchies, type hierarchies)
  - Common development environment across multiple hardware platforms and languages
  - **Integration with Rational Team Concert**





Rational Developer for Power Systems Software

Integrated tools for Power operating systems and programming languages

- Remote development environment supporting edit, compile, and debug of native AIX, Linux and IBM i applications on Power Systems, from a local Windows or Linux workstation

- One integrated solution – supporting multiple environments *
  - C/C++ and COBOL on AIX
  - RPG, COBOL, CL, C/C++, DDS on IBM i
  - Java on AIX and IBM i
  - C/C++ on Linux

- It also allows organizations to attract and retain new talent, many of whom are already familiar with the Eclipse workbench
- Lower development and application maintenance costs – do more with less!

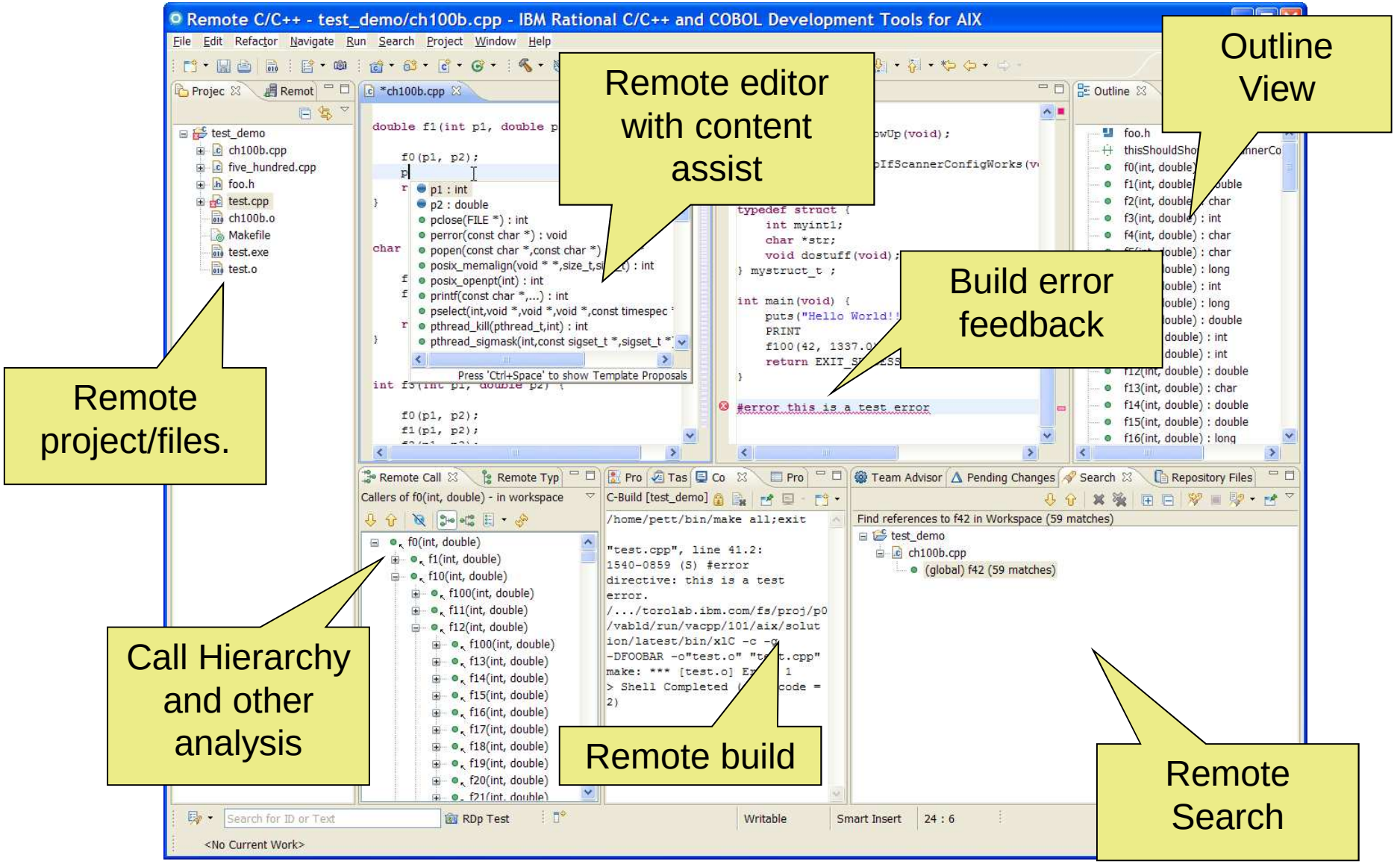
Creating projects and files was easy as I had a prior knowledge on the Eclipse-based tools. COBOL edit features made the application programming easier and reduced the developer's work effort"

Major AP IT Development Company

Asia

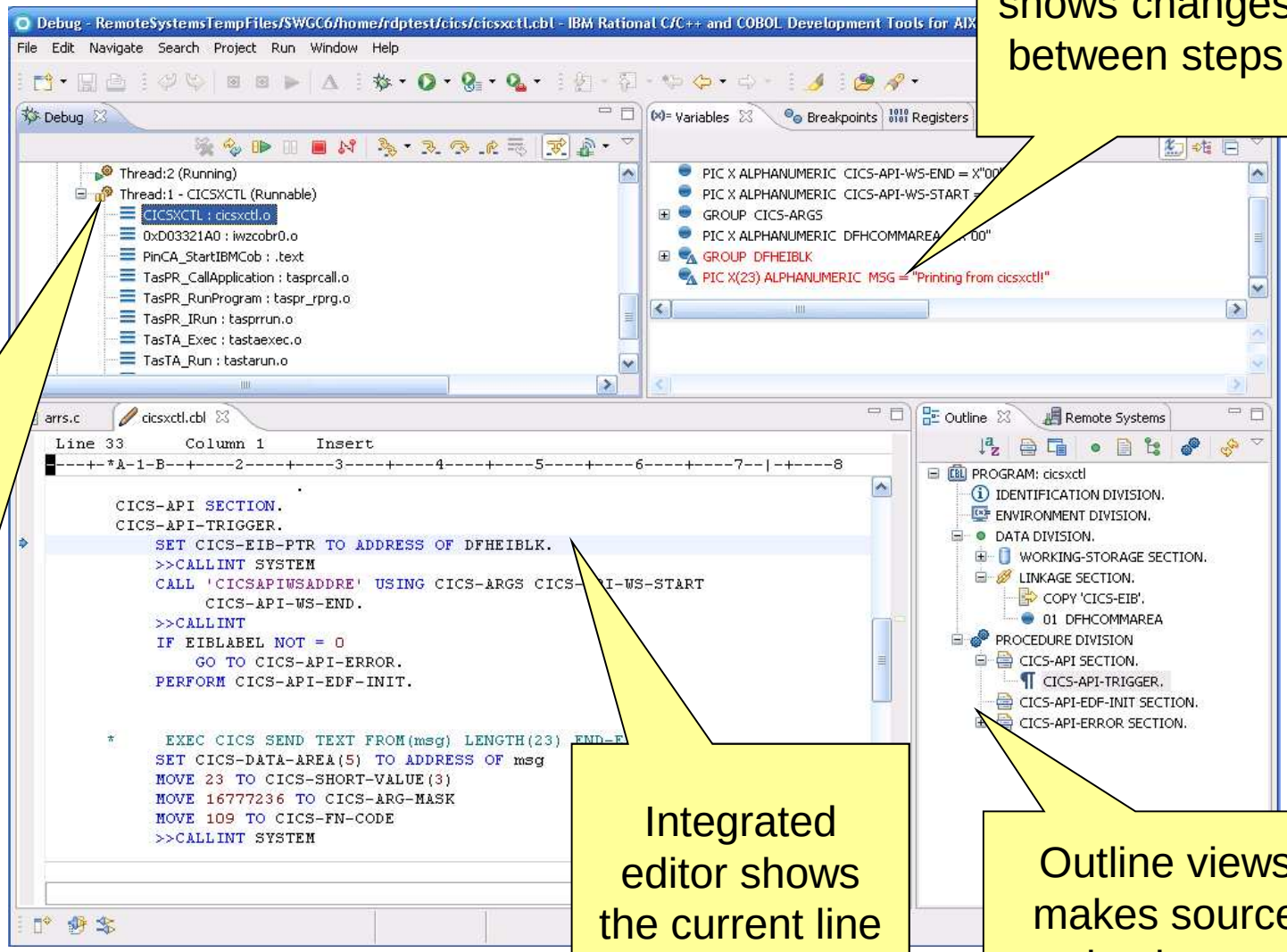
* For EGL development use Rational Business Developer or RDi SOA

Remote Development Features of RD Power



Debugging Power Applications

Debug view shows the process, its threads, and their stacks. You can look back up the stack just by choosing a stack frame.



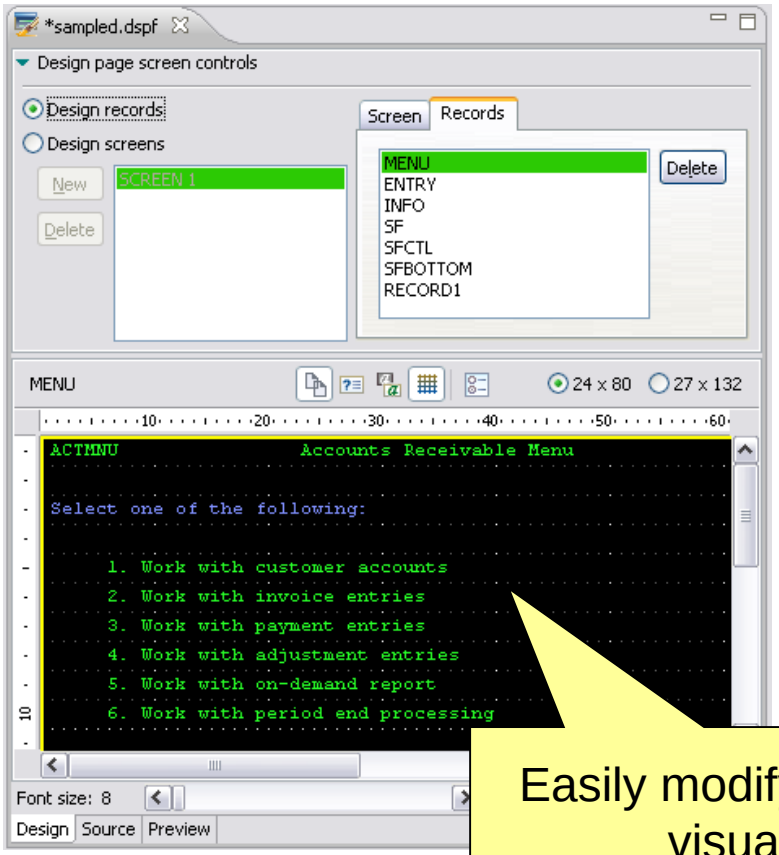
Variables view shows changes between steps

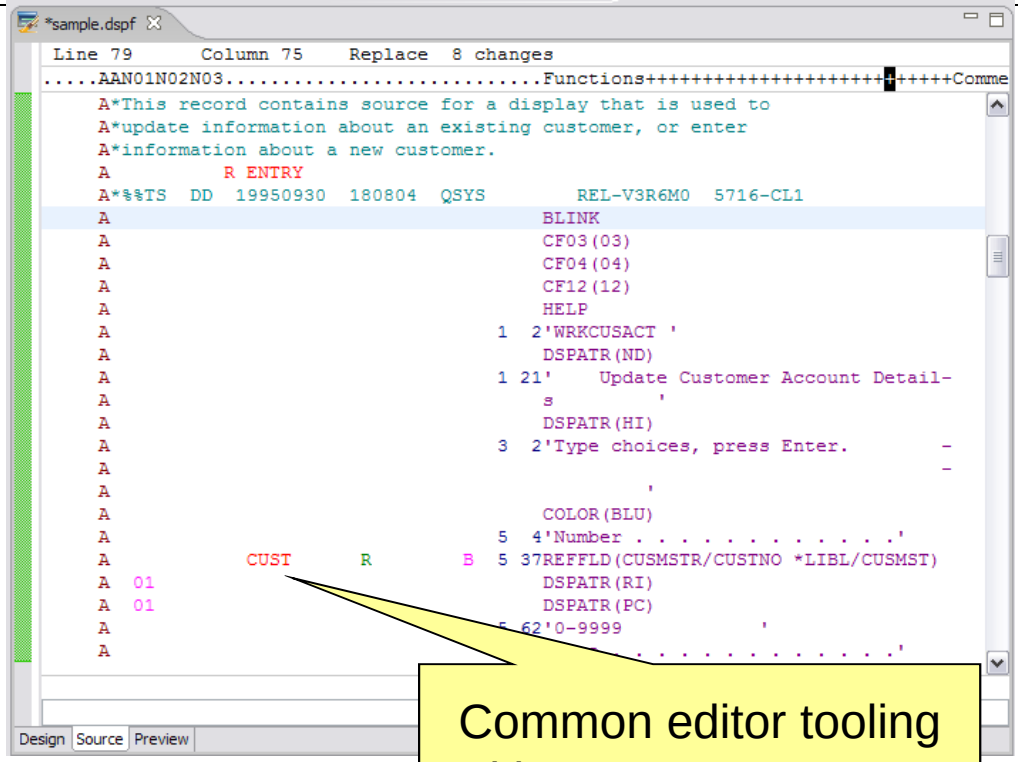
Integrated editor shows the current line highlighted

Outline views makes source navigation easy

The Screen Designer

- Modify source code both graphically and textually in one editor





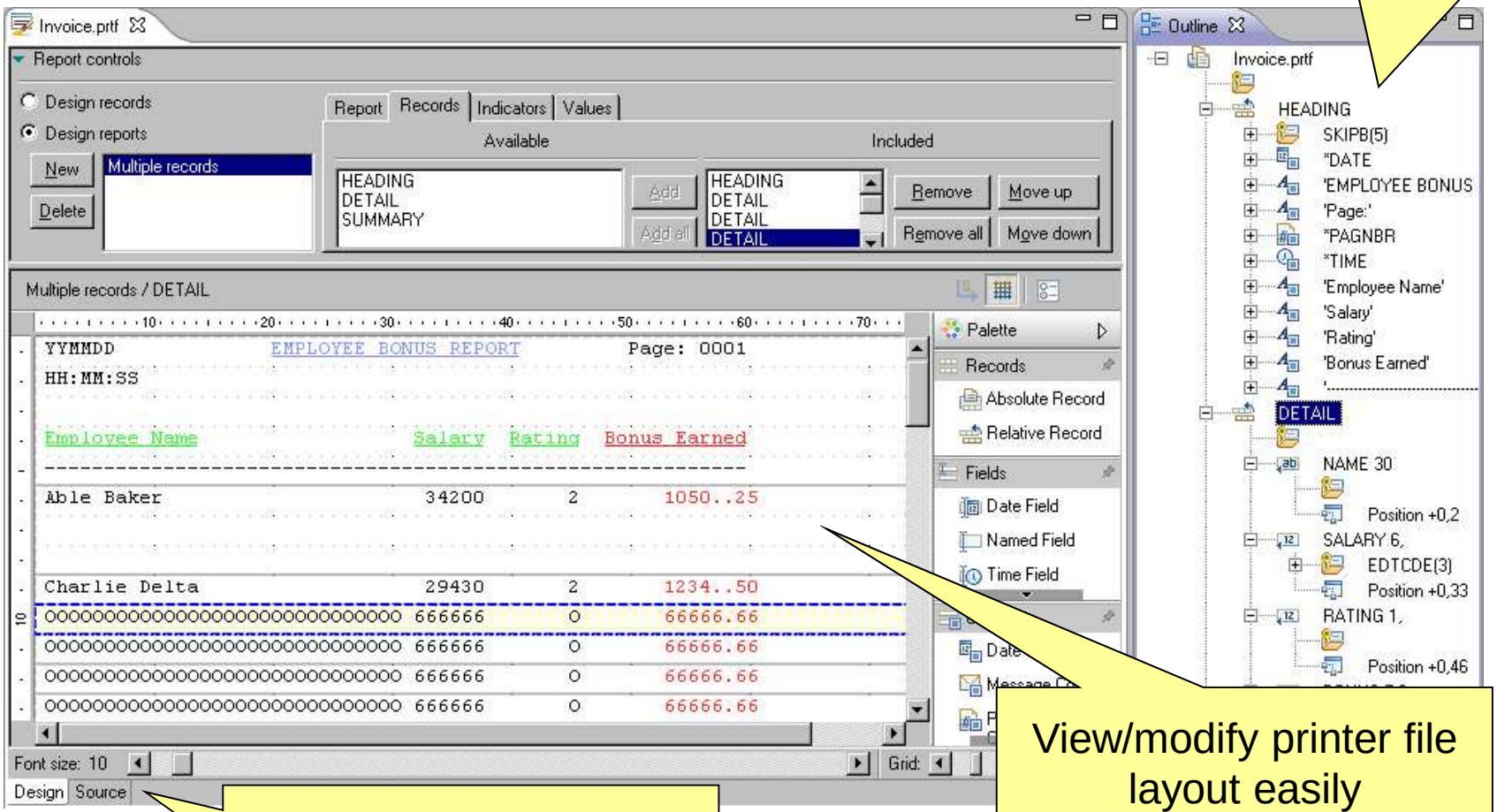
Common editor tooling with RPG, COBOL, etc

- Real-time updating of source and all other views when any change is made in any view

Easily modify screens visually.

The Report Designer

- Easily define/modify externally defined printer f



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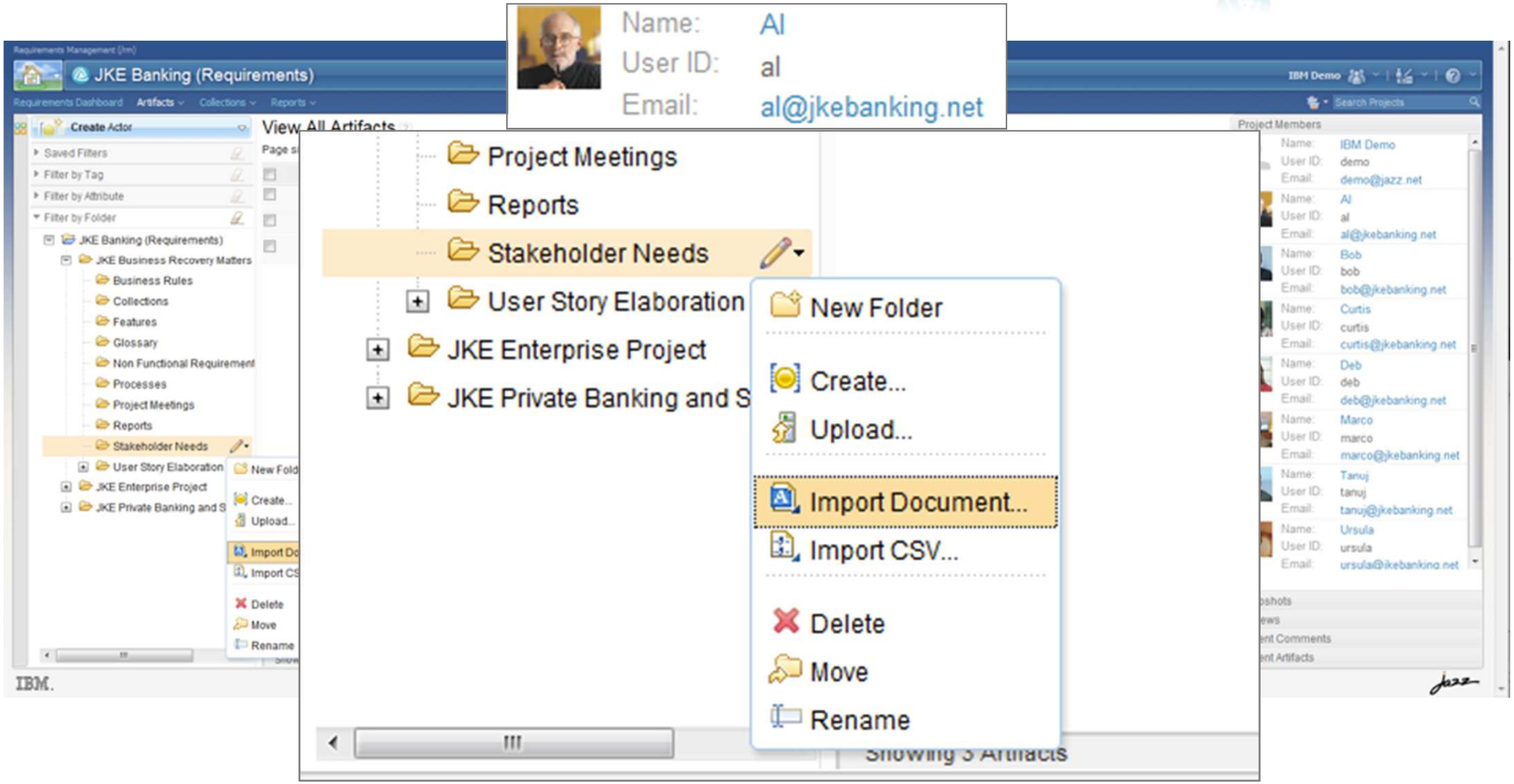
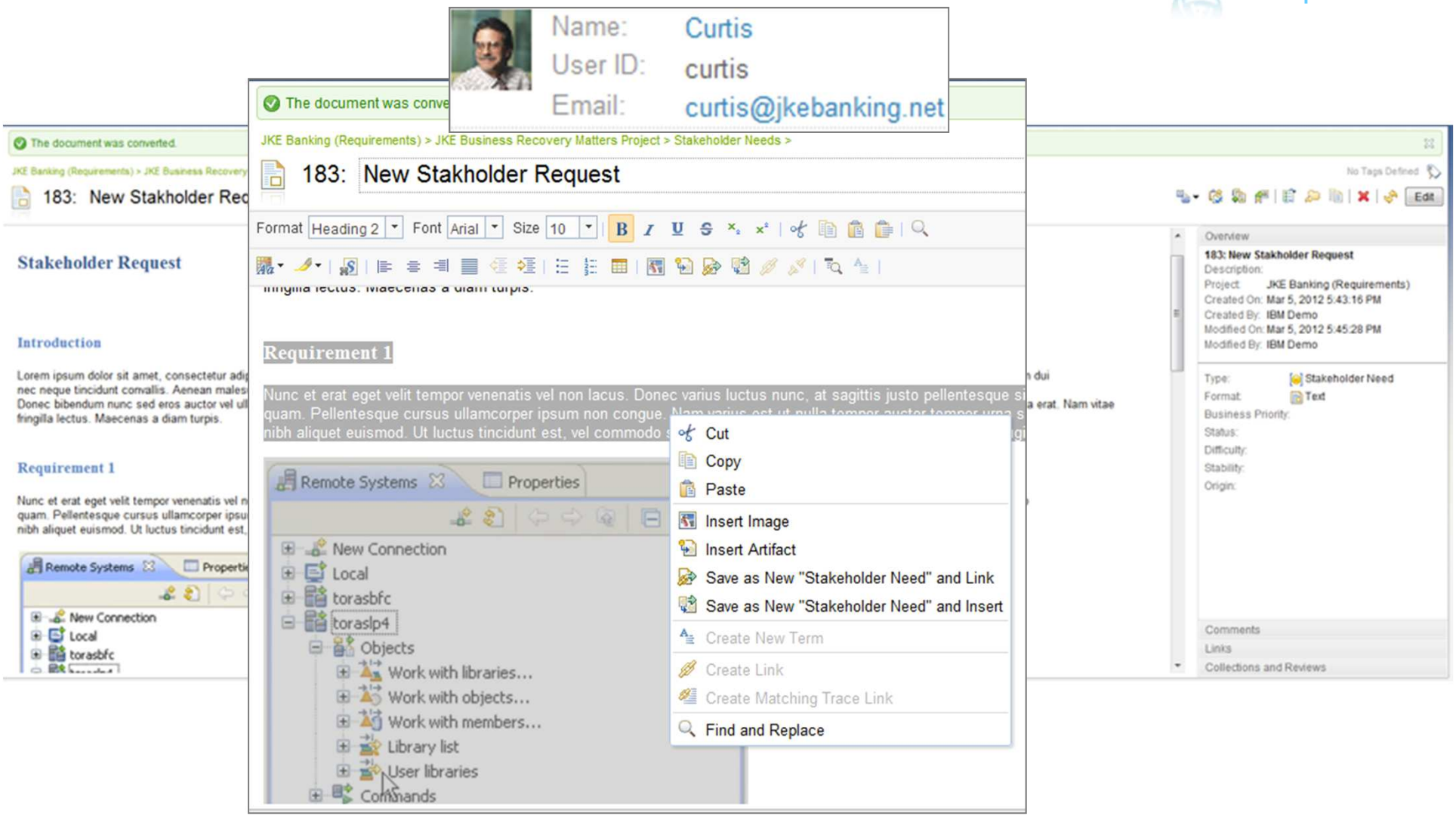
Import Stakeholder Specifications Document

Requirements Composer



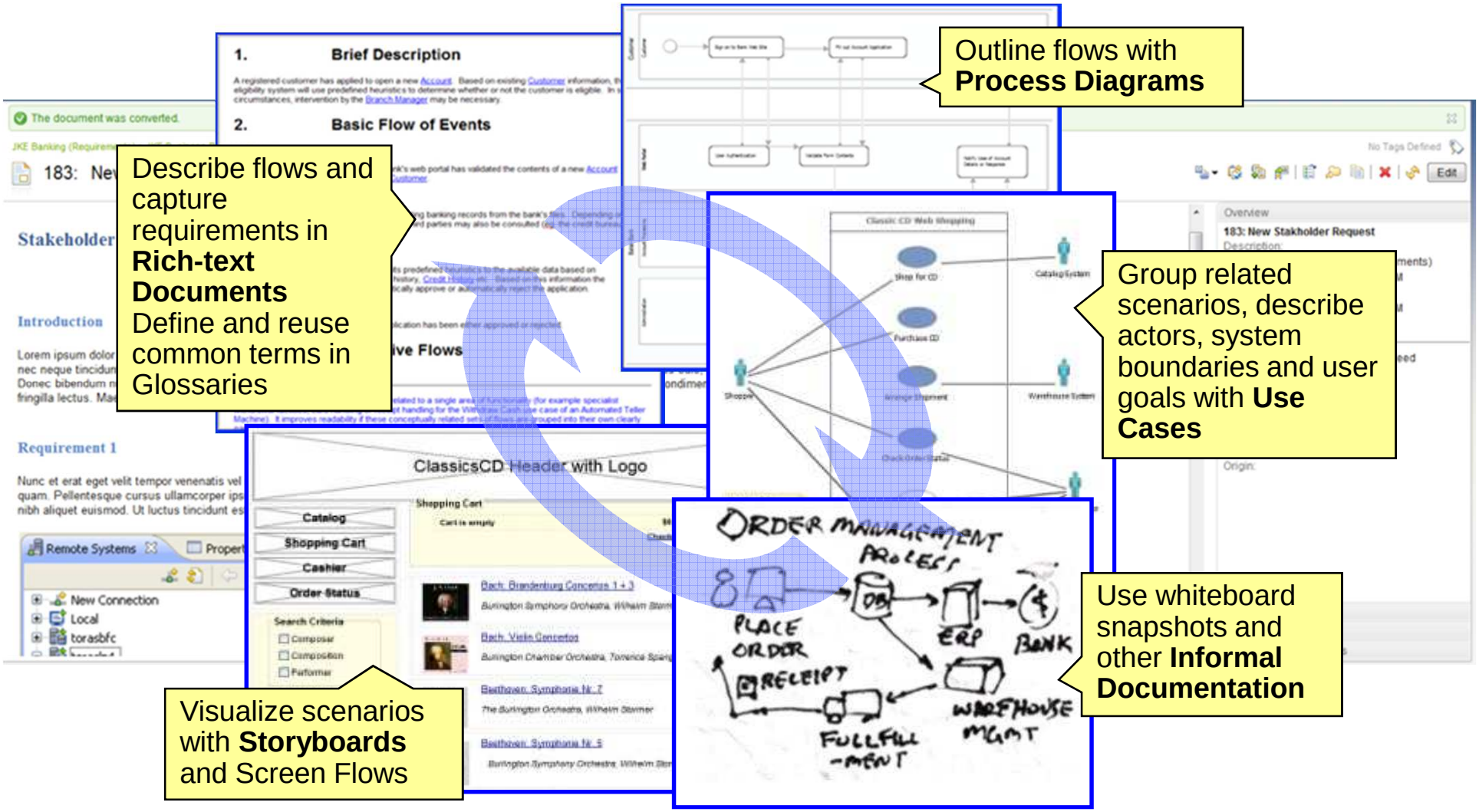
Create Requirements from Document

Requirements Composer



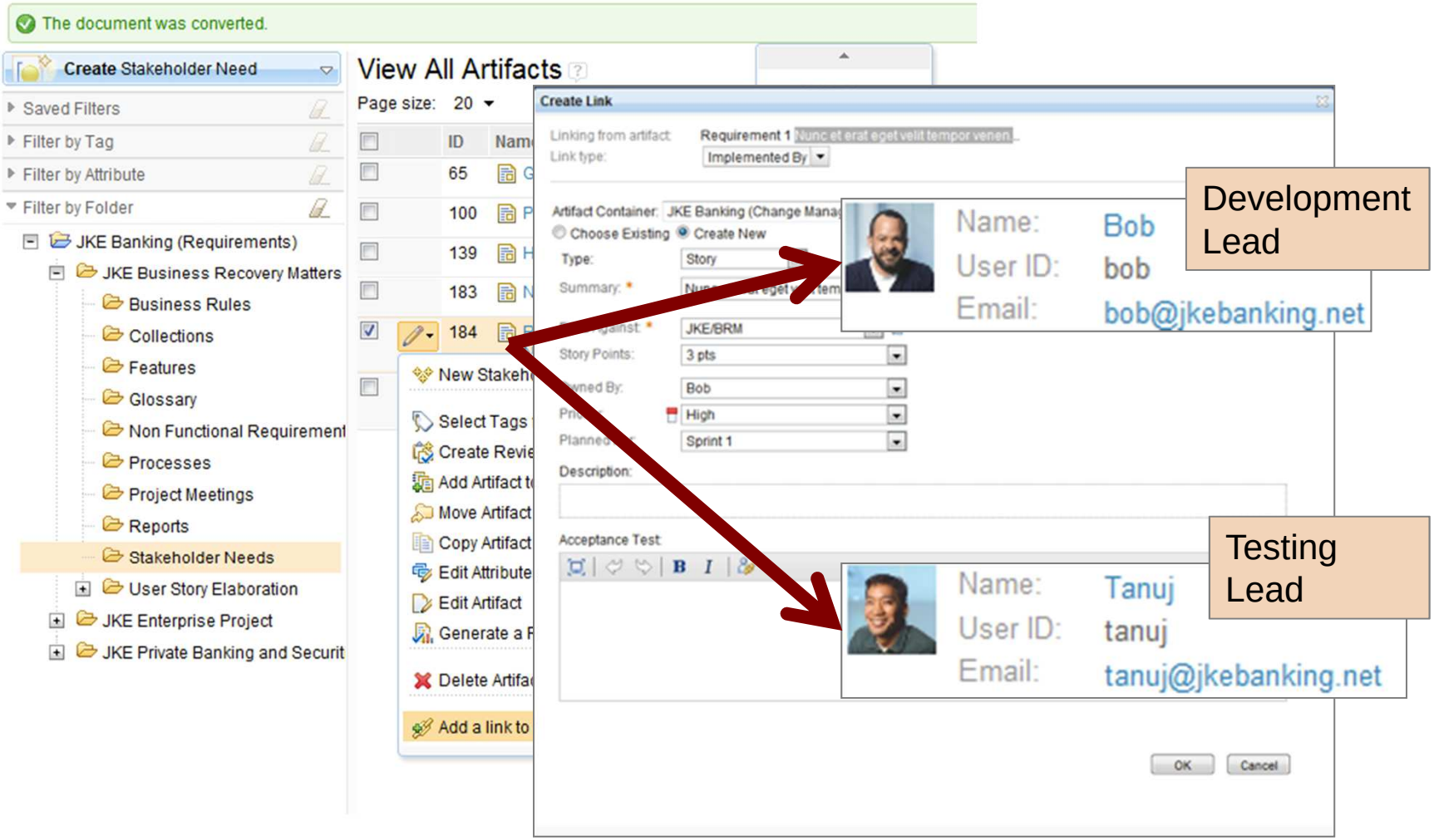
Create Requirements from Document

Requirements Composer



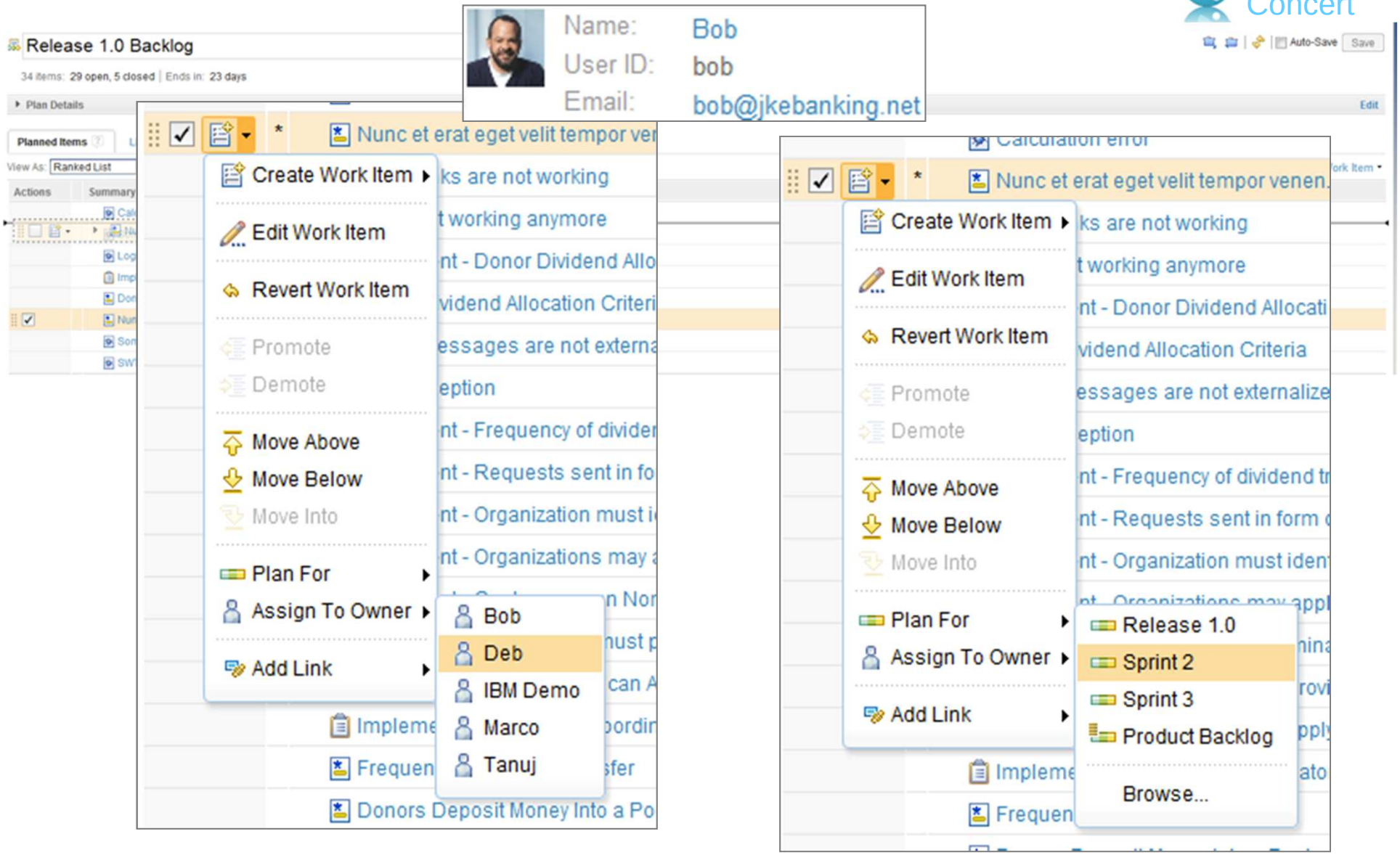
Assign Implementation and Test Workitems

Requirements Composer



Prioritize and assign workload

Team Concert

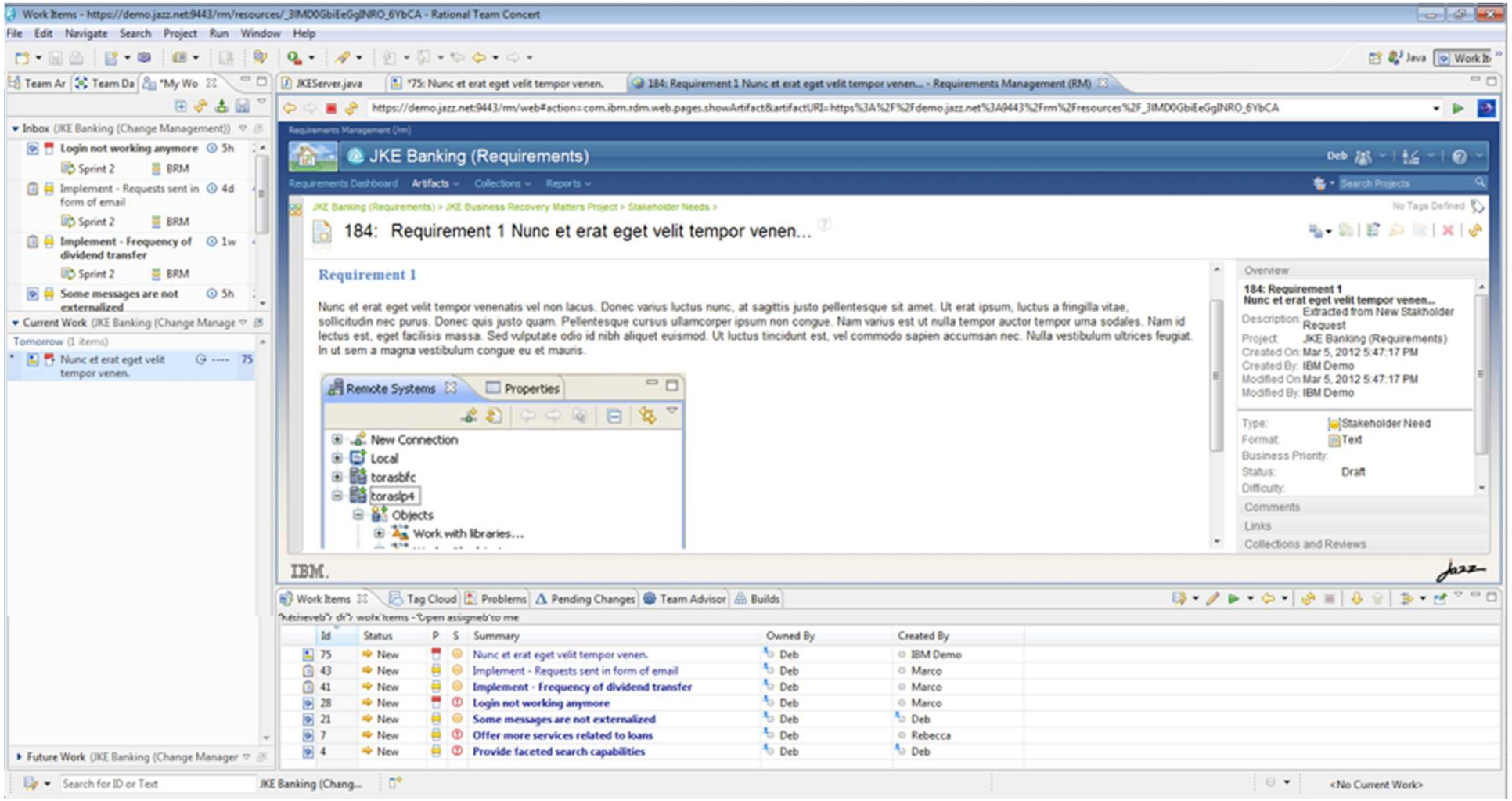


Pushed directly to the developers

Team Concert

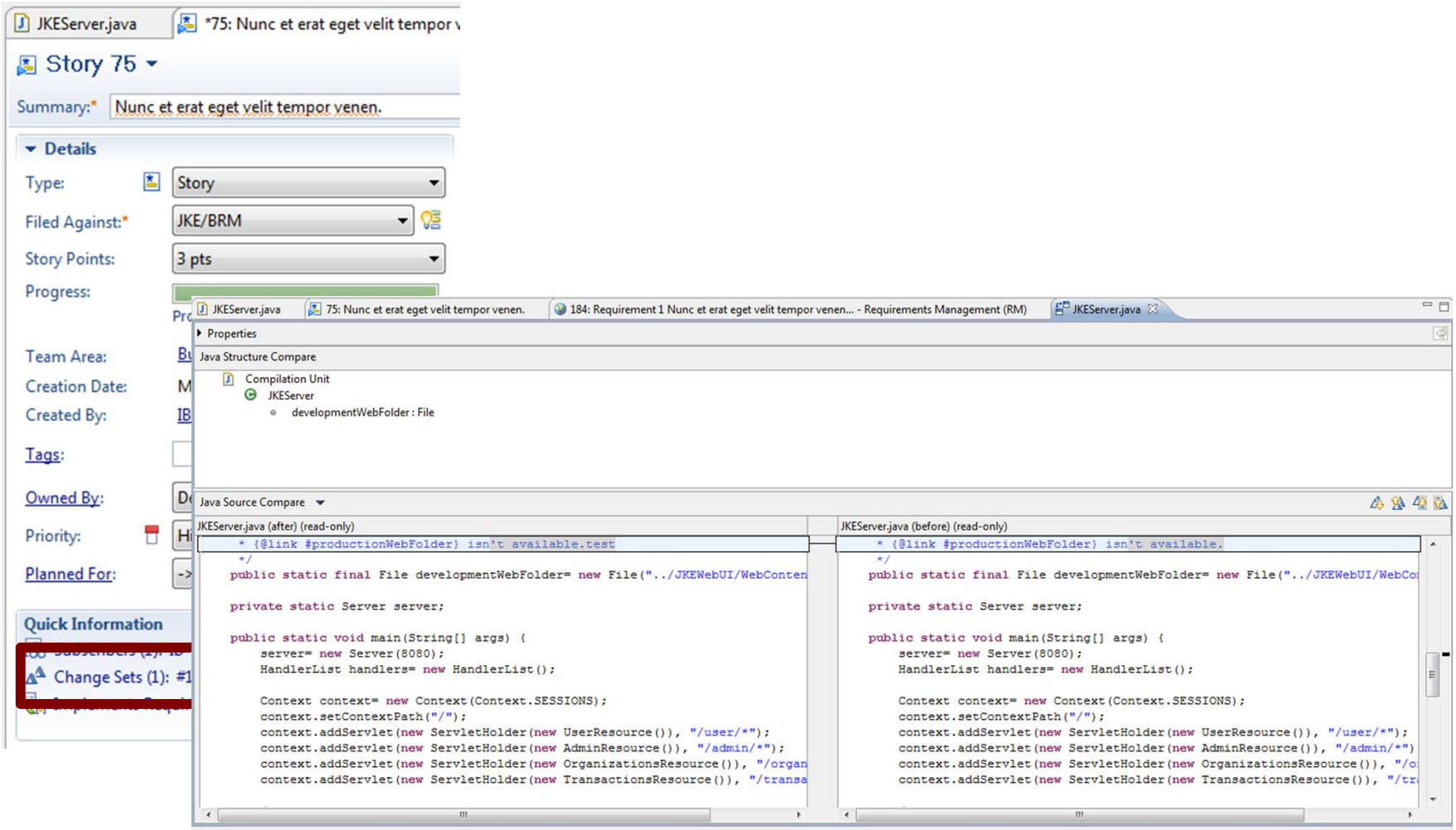
Pushed directly to the developers

Team Concert

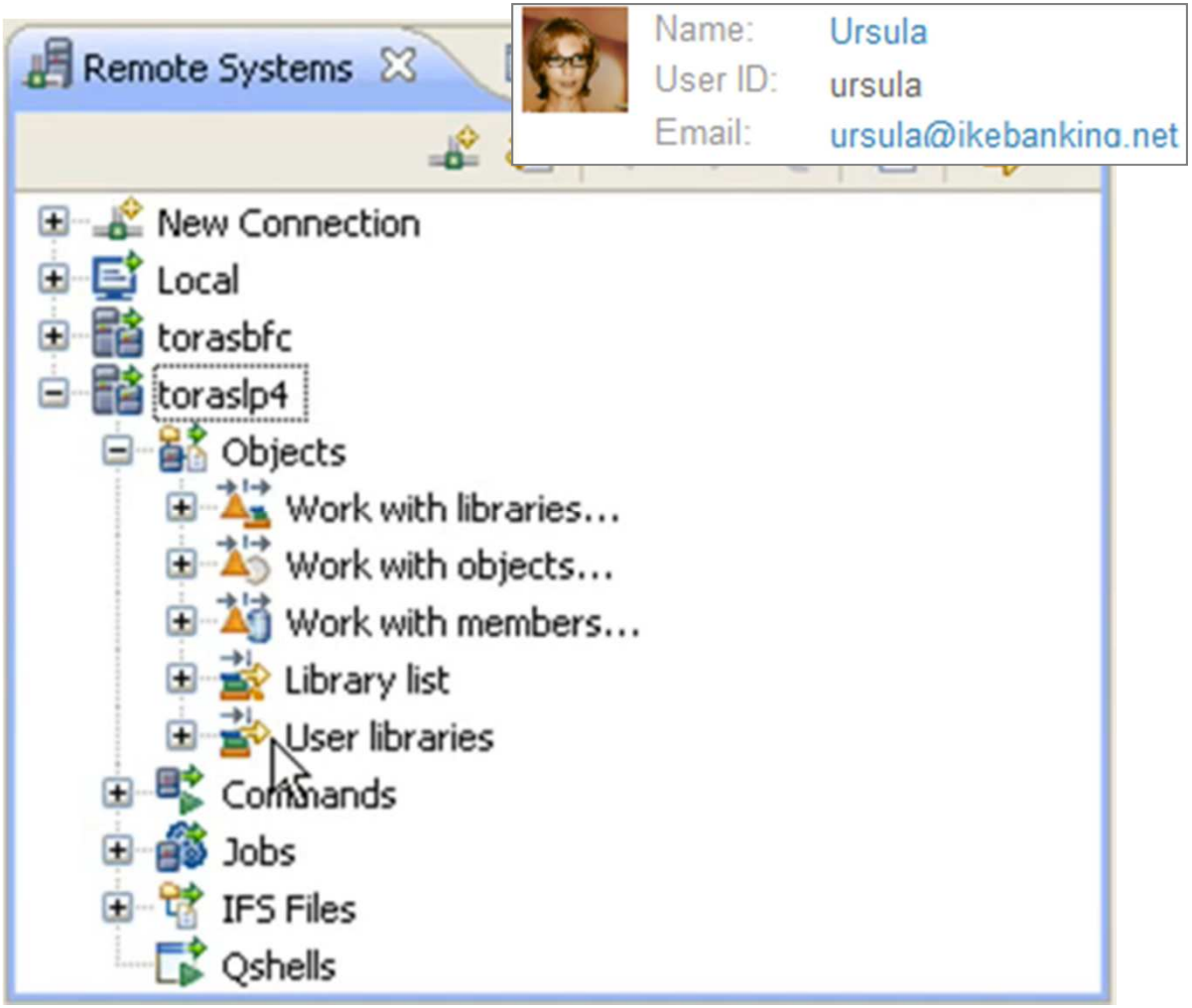


Up- and Downward traceability for code changes

Team Concert



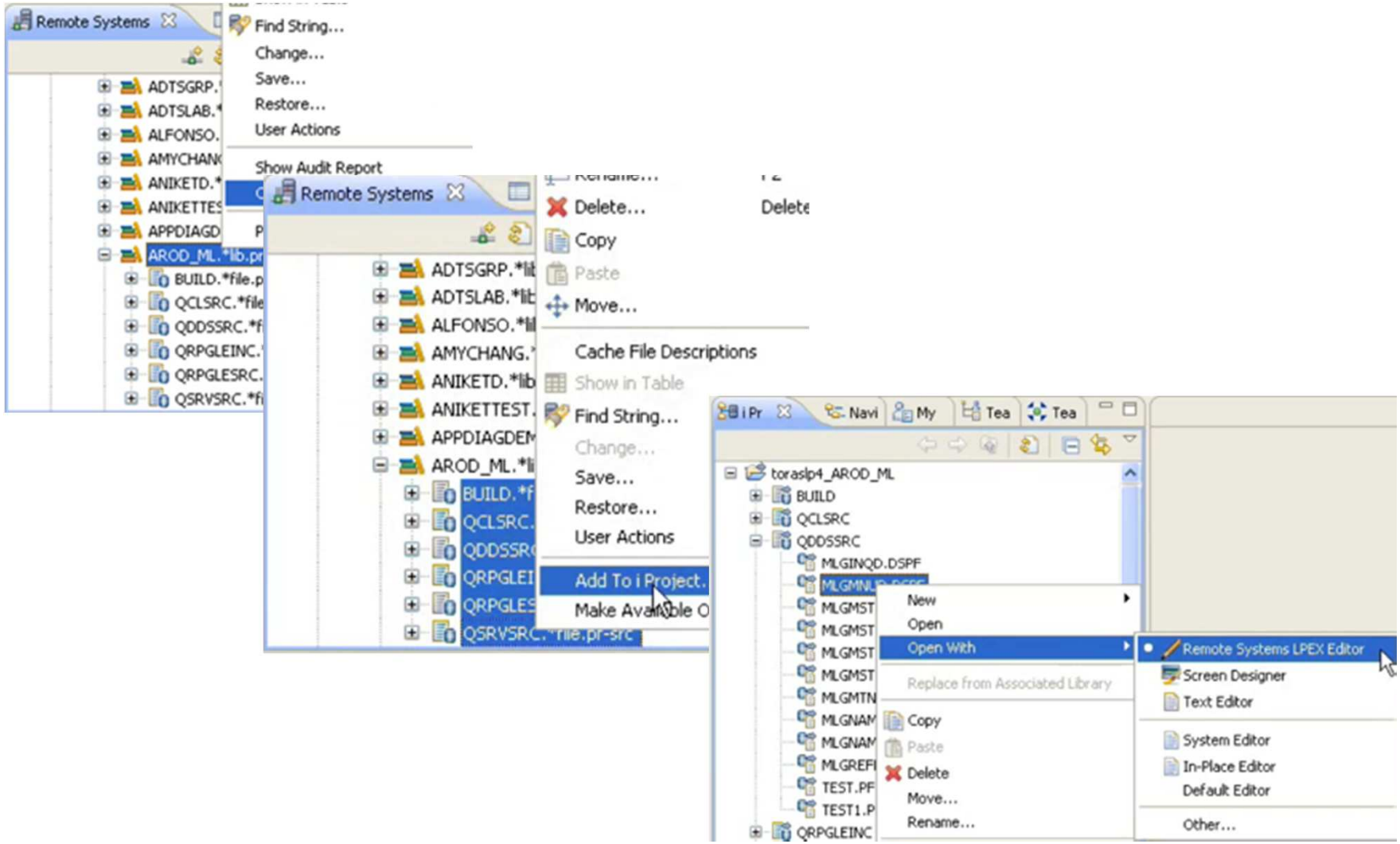
Connect to a remote System



Rational Developer for Power

Create an iProject

Rational Developer for Power



Rational Developer for Power

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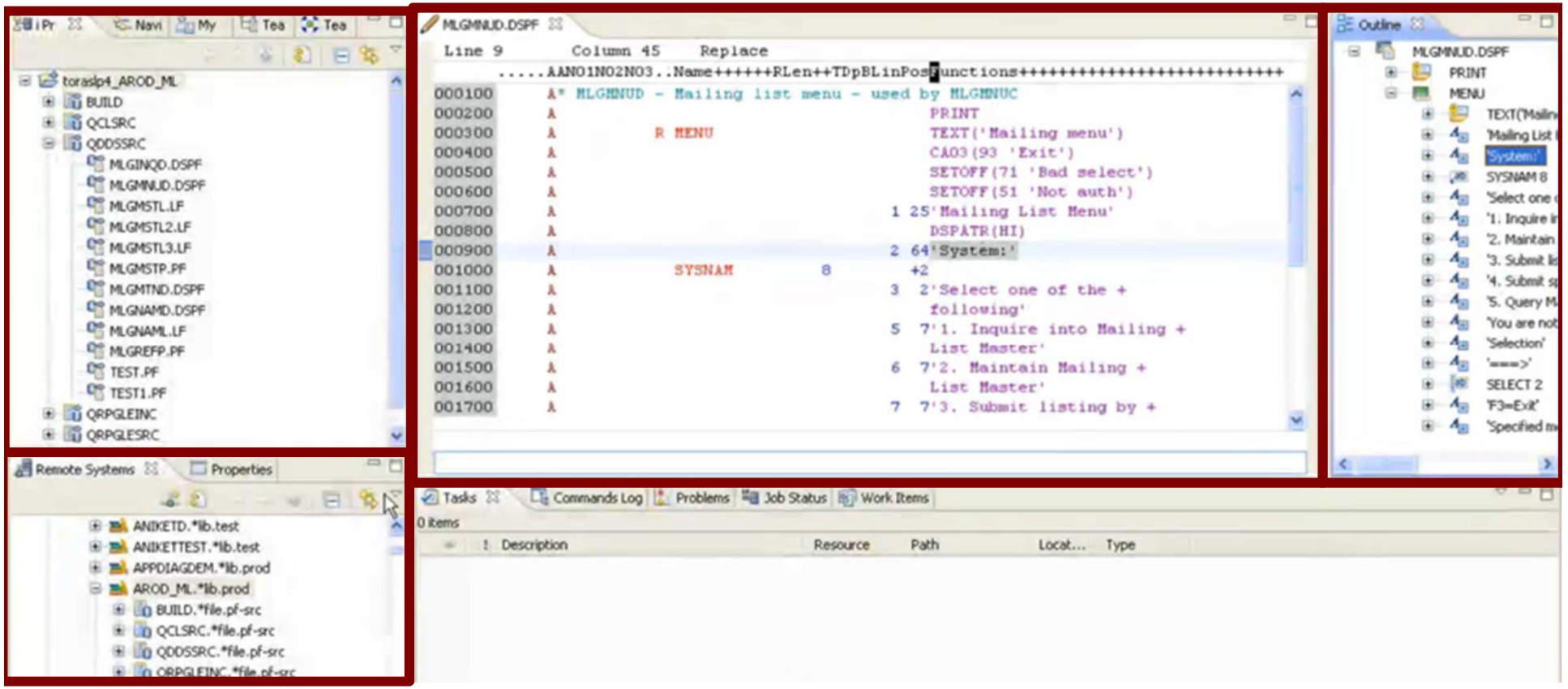

Rational Developer for Power

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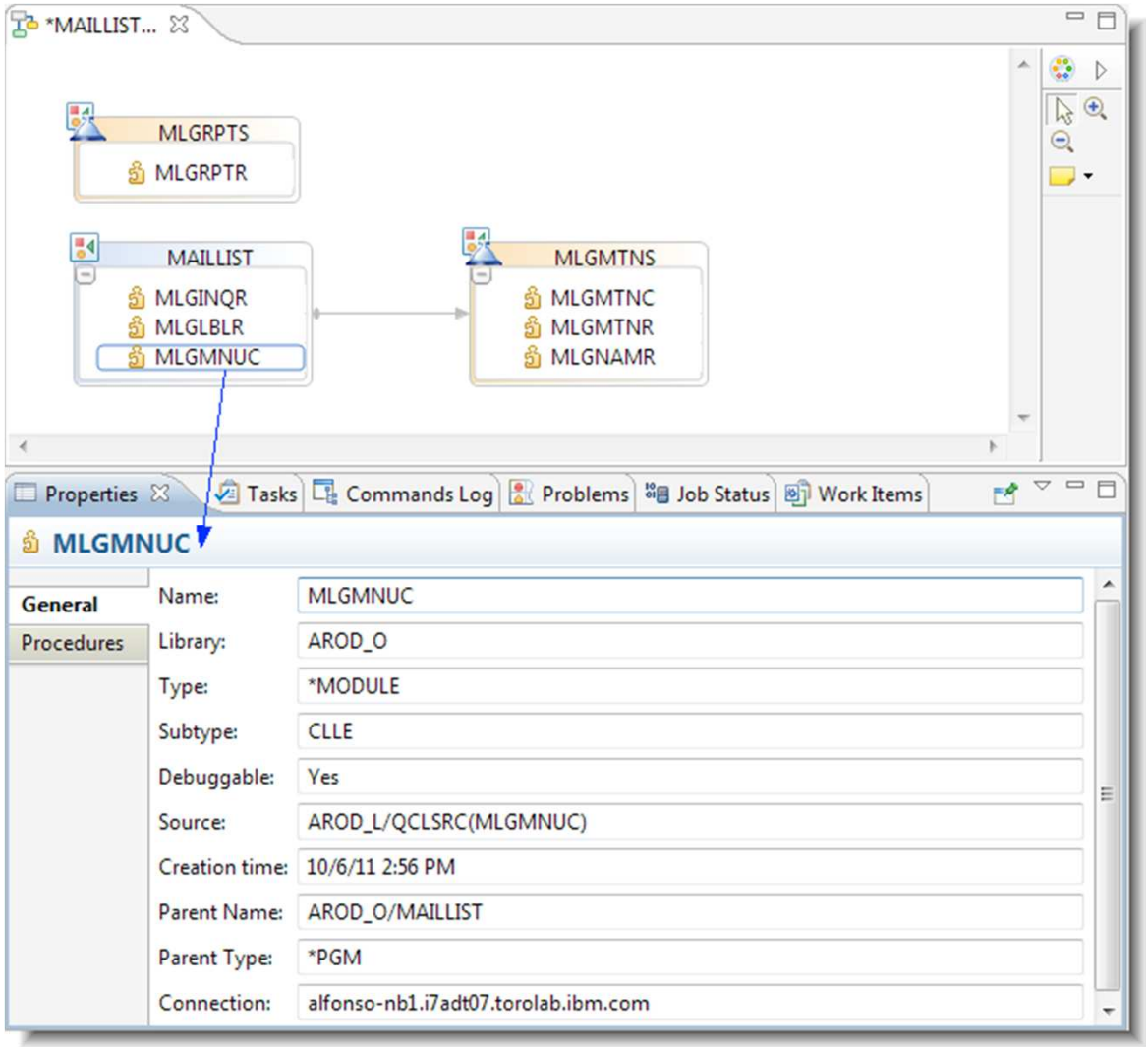
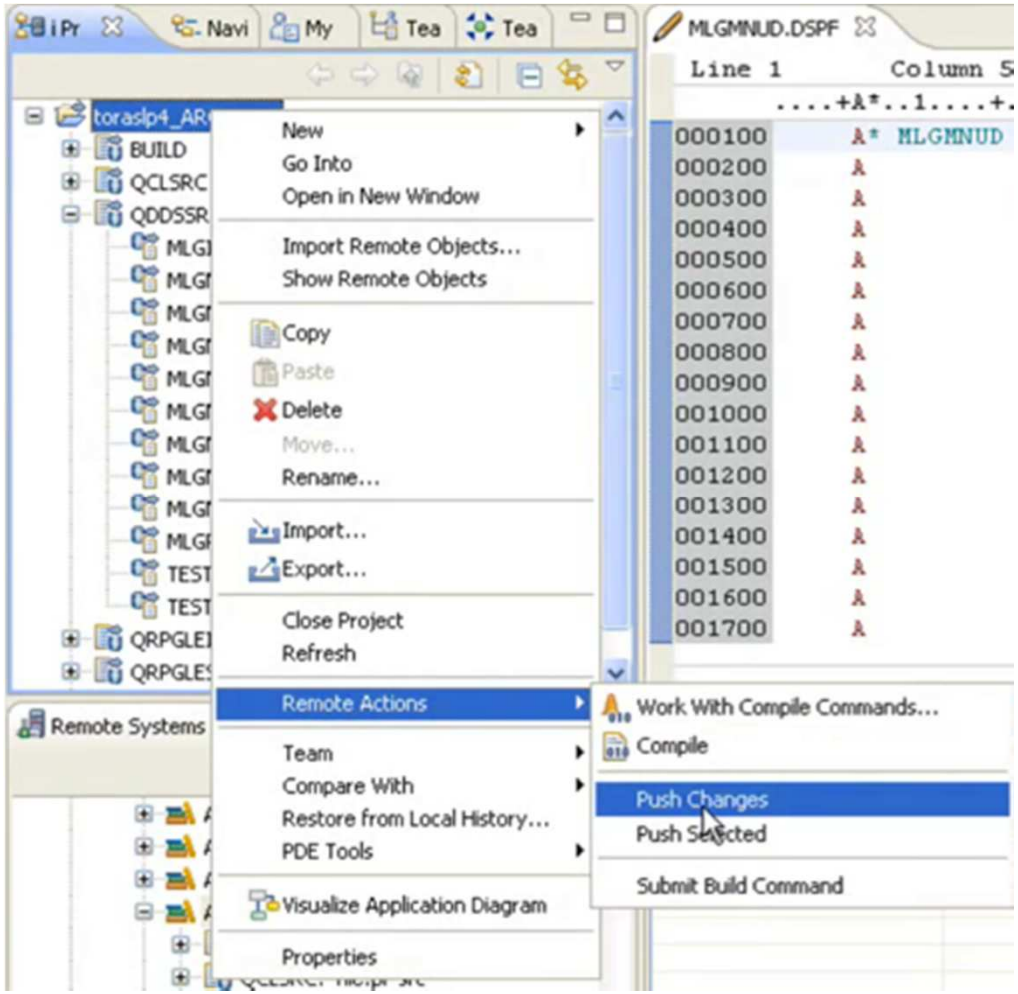
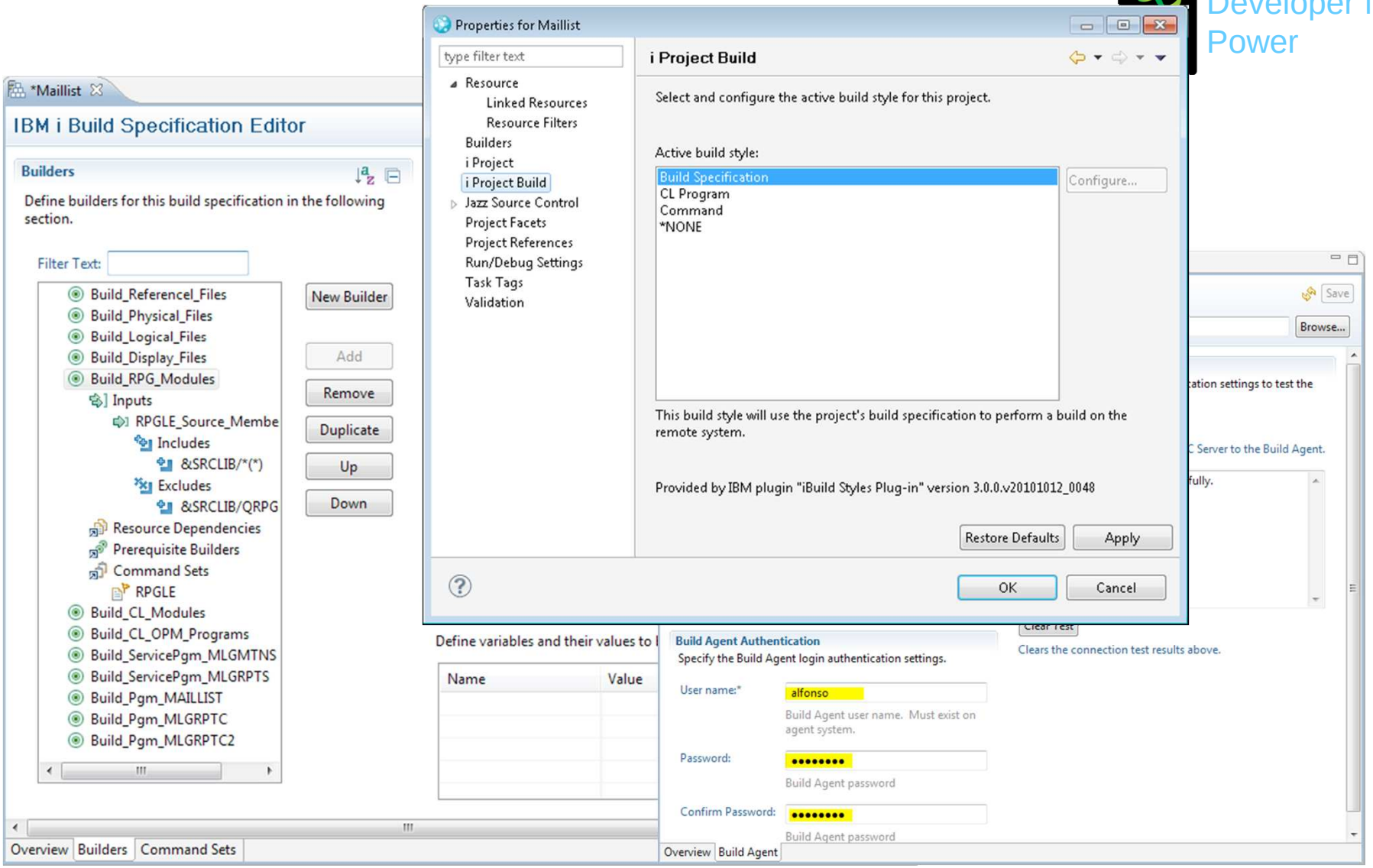


Publish Changes



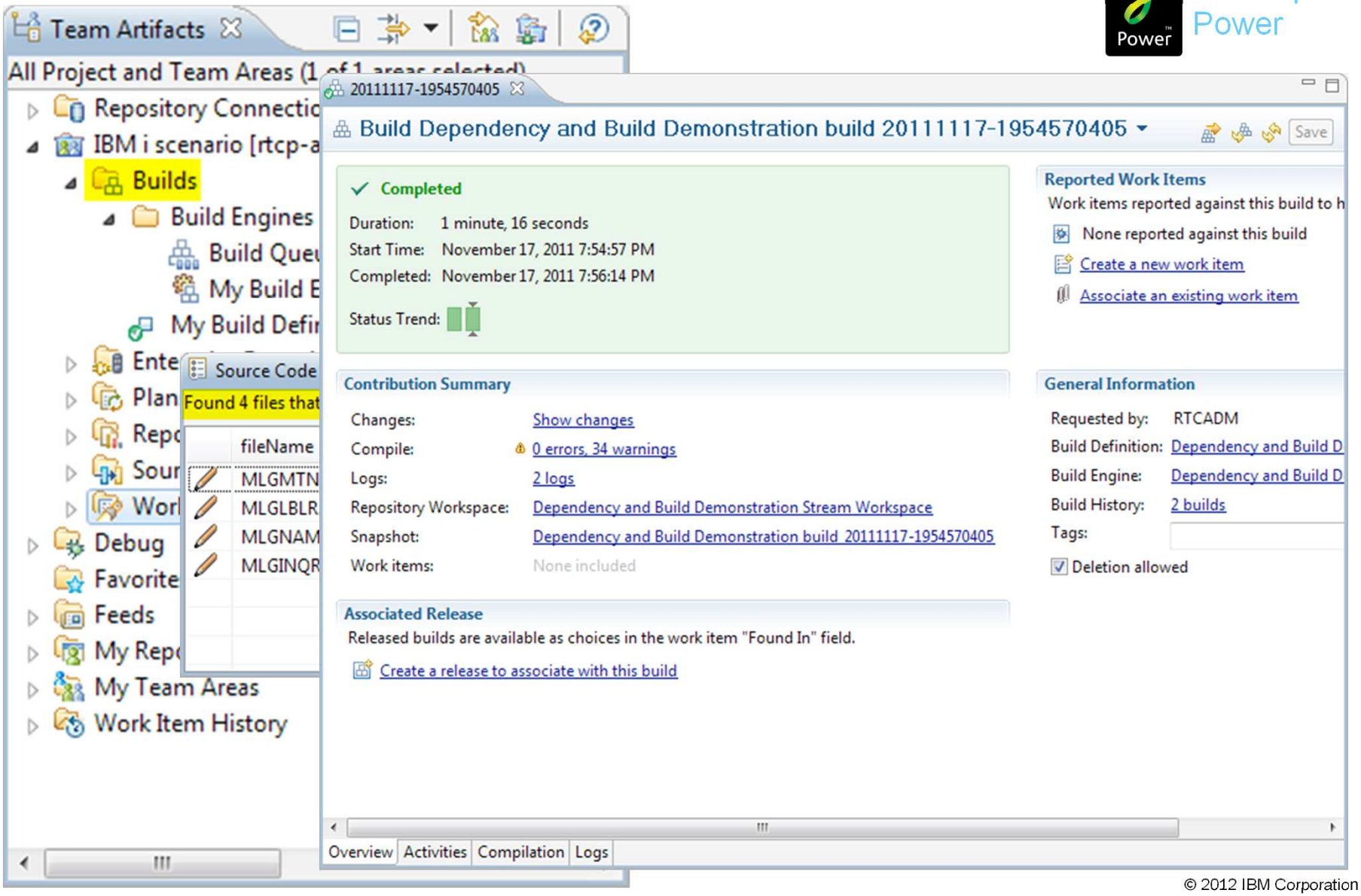
Build Specifications

Rational Developer for Power



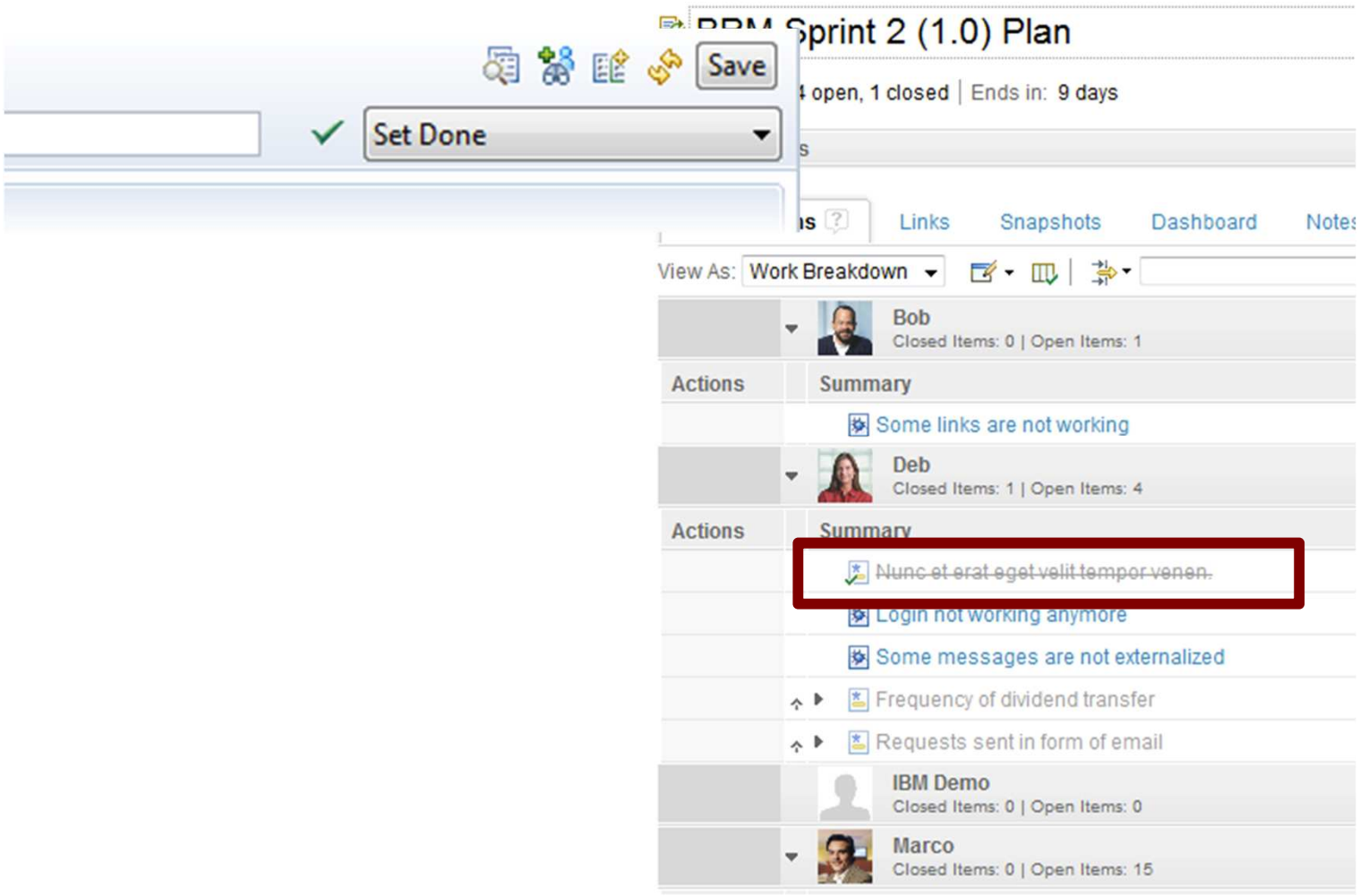
Build Information

Rational Developer for Power



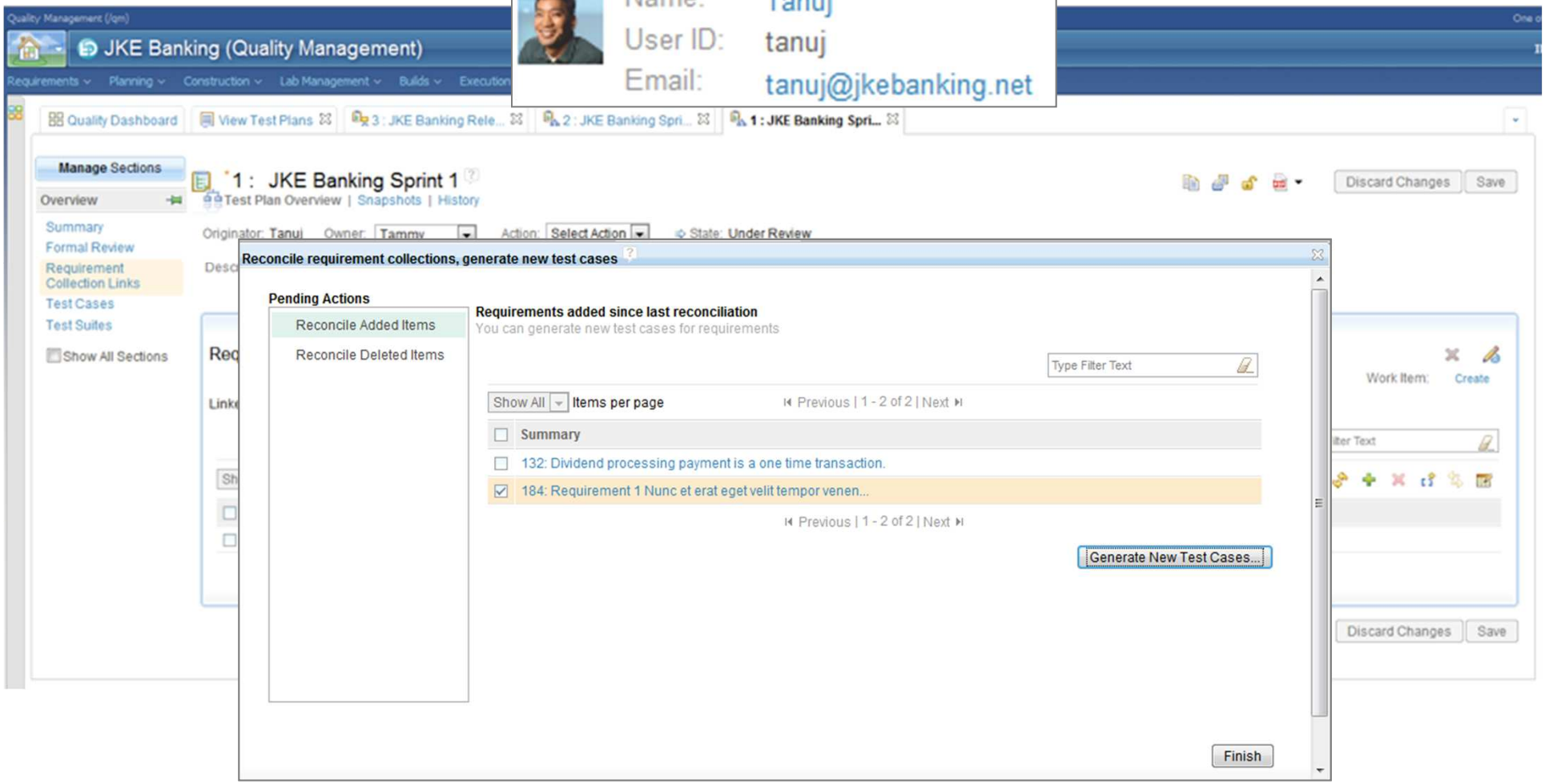
Close the Implementation Workitem

Team Concert



Synchronize Test Cases with Requirements

Quality Manager



Cerate the Tests

Quality Manager

Script Steps

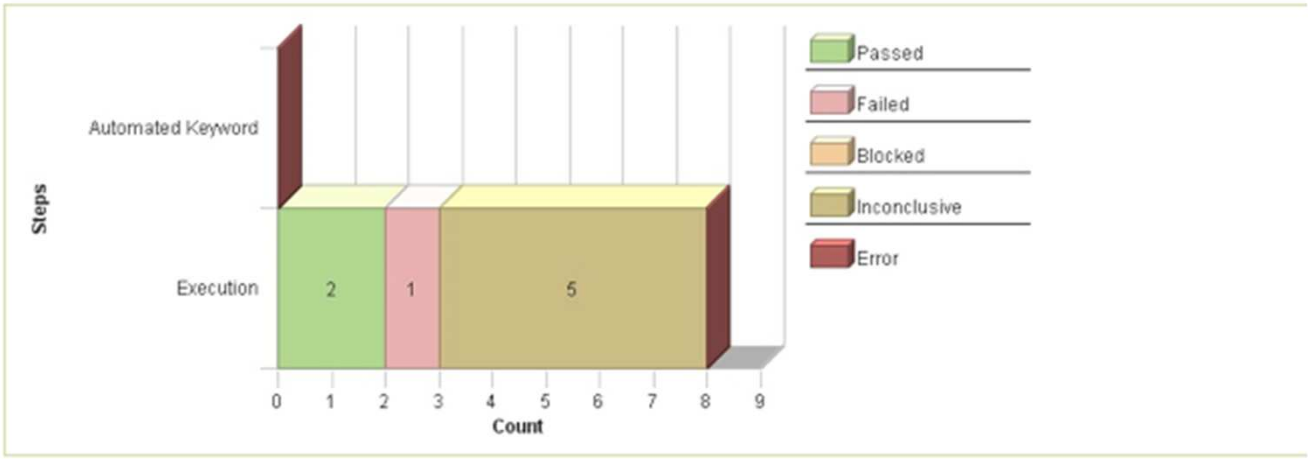
Styles Format Font Size

Step	Result	Description	Expected Results	Actual Results
1		JKE Login Log into JKE Banking with **username** jbrown and **password** jbrown.	Accounts Overview screen appears	
2		Select **Money Market Savings Account**	**Account Details screen** appears	
3		Click **Allocate Dividend Percentage** button Allocate Dividend Percentage	**Money That Matters** screen appears	
4		Select **American Cancer Society** and click **Add**	**American Cancer Society** is added to the organizations list	
5		Enter **10** for the **Percentage** and click **Next**	Verify **Donation Organization** is American Cancer Society and **Donation Amount** is $50.00	

Execute the Tests - Reporting

Quality Manager

Result Details



Step	Type	Result	Description	Expected Results
1			JKE Login	
		Pass	Log into JKE Banking with **username** jbrown and **password** jbrown.	Accounts Overview screen appears
2		Pass	Select **Money Market Savings Account**	**Account Details screen** appears
3		Fail	Click **Allocate Dividend Percentage** button [Allocate Dividend Percentage]	**Money That Matters** screen appears
				American Cancer Society is added to the organizations list

Feedback to developers via Defects

Quality Manager

77: Failing Test Case "Allocate Dividends by Percentage"

Status: New
Resolution: Unresolved

Details

Type:	Defect	Tags:	
Filed Against:	JKE	Owned By:	IBM Demo
Severity:	Blocker	Priority:	High
Found In:	Sprint 1	Planned For:	Sprint 1
Project Area:	JKE Banking (Change Management)	Estimate:	
Creation Date:	March 5, 2012 6:09 PM	Time Spent:	
Created By:	IBM Demo	Due Date:	Unassigned

Quick Information

Subscribers (1): ID

Description

Test Case: Allocate Dividends by Percentage

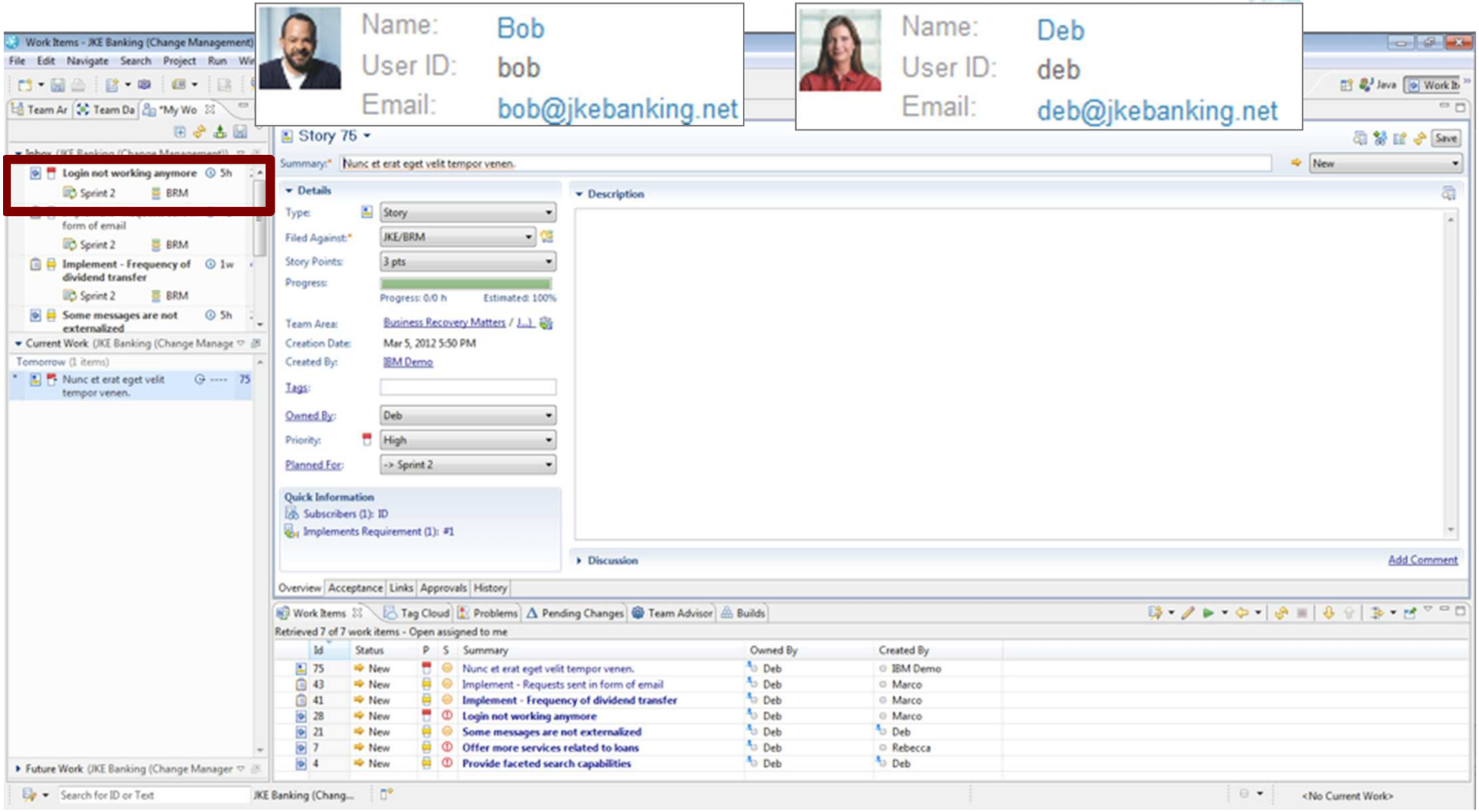
Test Script: Allocate Dividends by Percent

Project Area: JKE Banking (Quality Management)

Show More

Defects pushed directly to the developers

Team Concert



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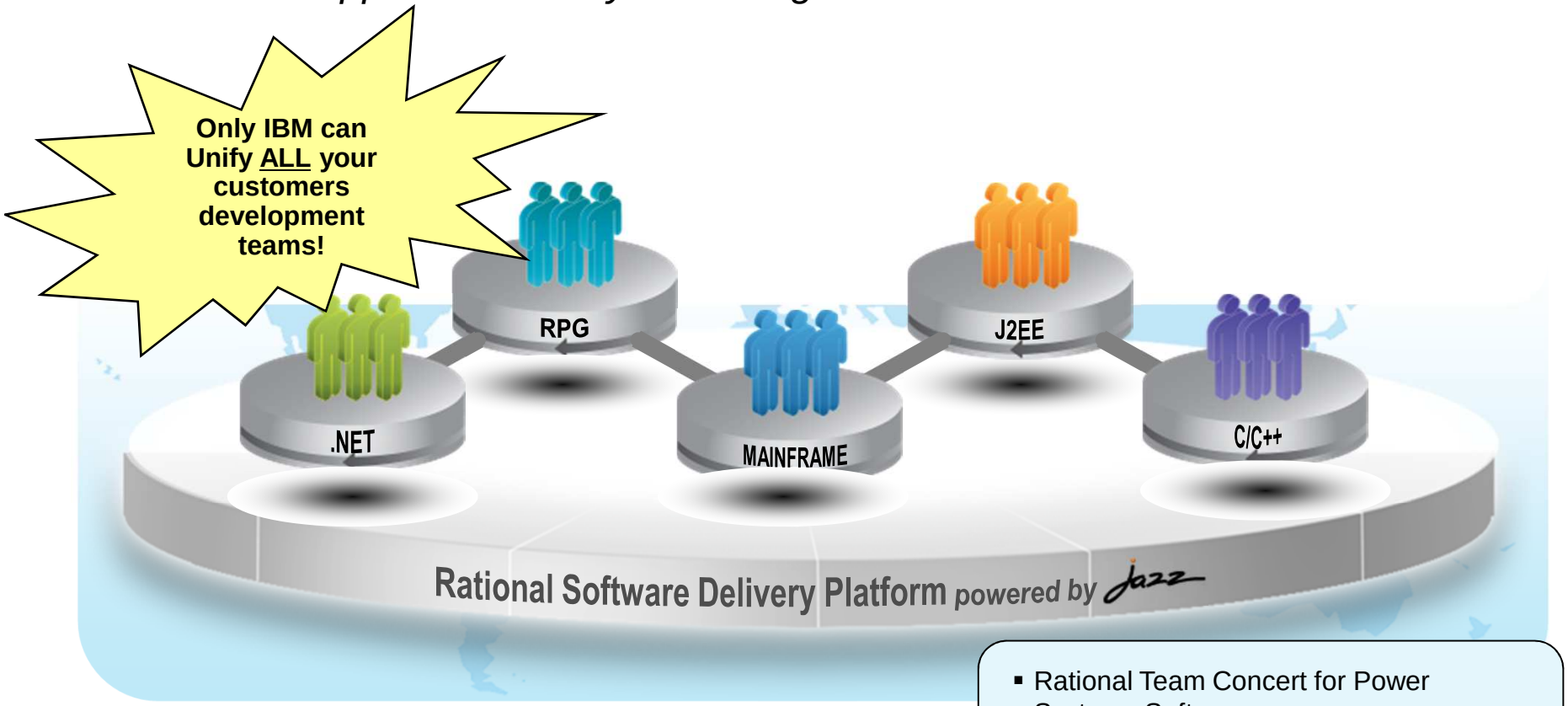
Rational Team Concert for Power Systems

Collaborative Application Lifecycle Management



- Rational Team Concert for Power Systems Software

- ✓ Improve communication across disparate IT teams
- ✓ Detect and accelerate resolution of defects early
- ✓ Make Informed decisions
- ✓ Make software development more automated, transparent and predictable

www.jazz.net

http://www.ibm.com/developerworks/downloads/emsandbox_power/index.html