



Empower Software Delivery using Rational Collaborative Lifecycle Management Solutions

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IBM Software

Innovate2012

The Premier Event for Software and Systems Innovation



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Outline

- **Application Lifecycle Management**
 - IBM Rational Collaborative Lifecycle Management
- IBM Rational Tools for CLM
- Delivering the CLM Imperatives

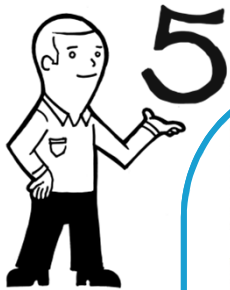
What is Application Lifecycle Management?






Application lifecycle management coordinates people, processes, and information in an iterative cycle of software and systems delivery activities that:

- ✓ Meets domain-specific needs
- ✓ Improves collaboration across teams and geographies
- ✓ Helps meet compliance requirements
- ✓ Provides the foundation for continuous capability improvement
- ✓ Reduces total cost of ownership.



The Five Imperatives for Effective Application Lifecycle Management

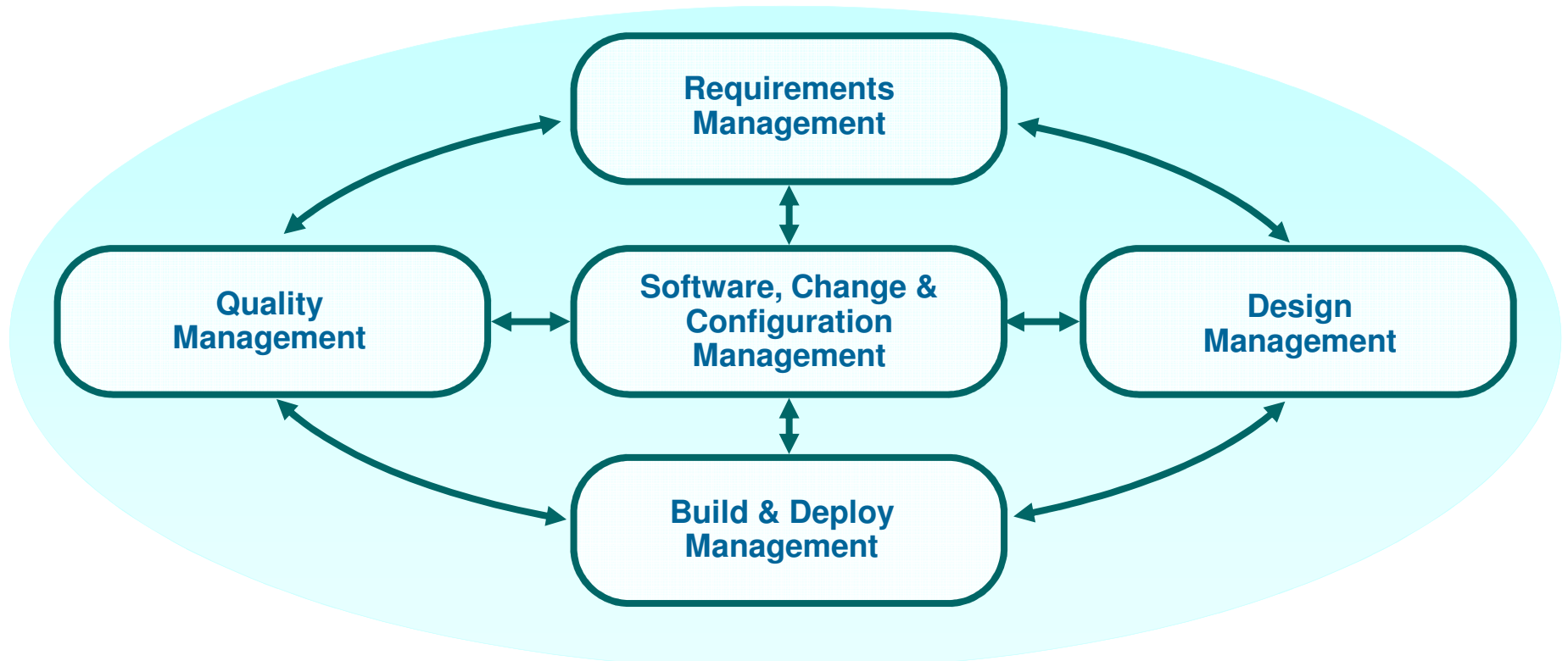


-  Maximize product value with **In-Context Collaboration**
-  Accelerate time to delivery with **Real-Time Planning**
-  Improve quality with **Lifecycle Traceability**
-  Achieve predictability with **Development Intelligence**
-  Reduce costs with **Continuous Improvement**

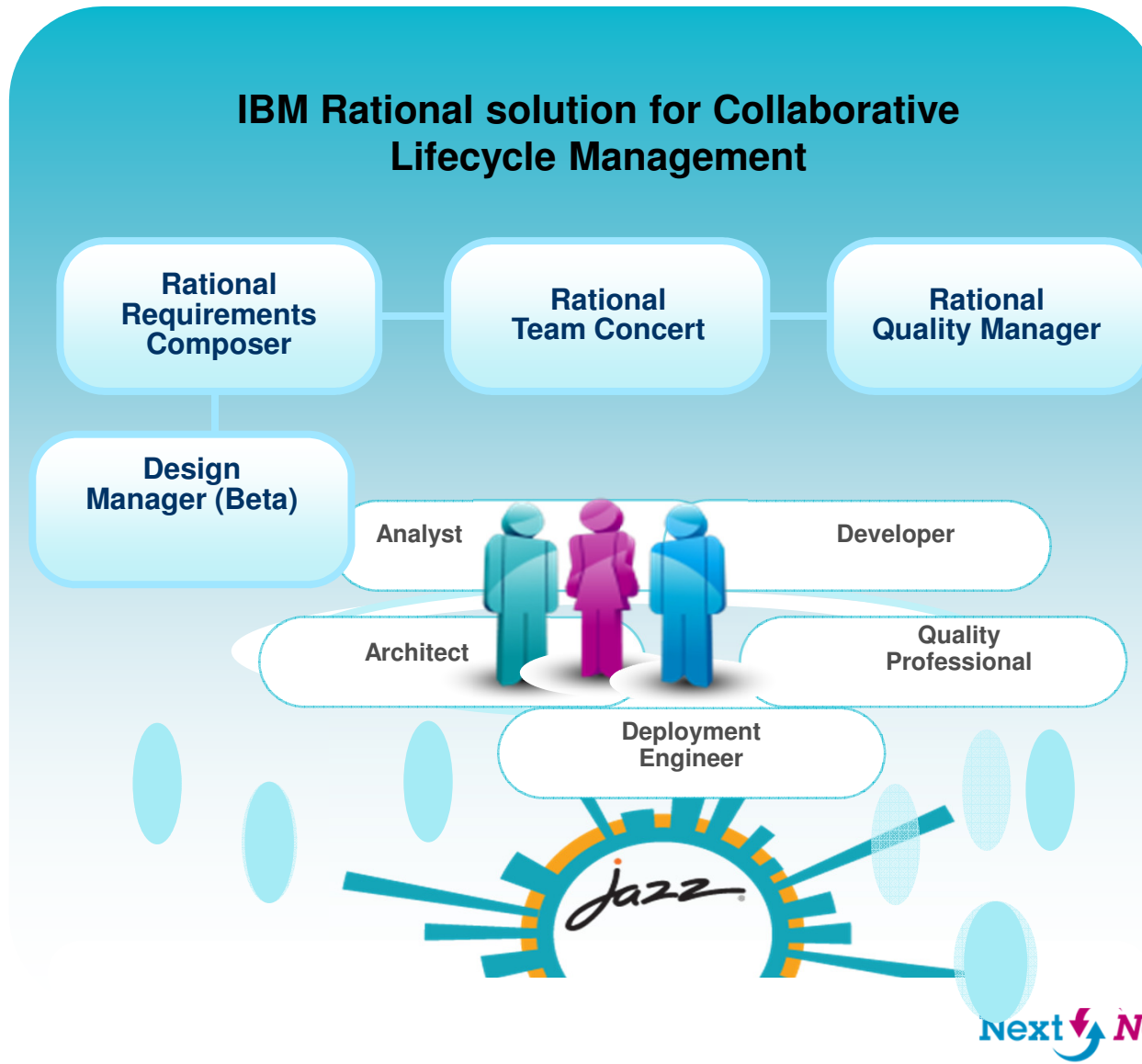
Learn more at [ALM Everywhere](#)

IBM Rational Collaborative Lifecycle Management

Modular, open and extensible



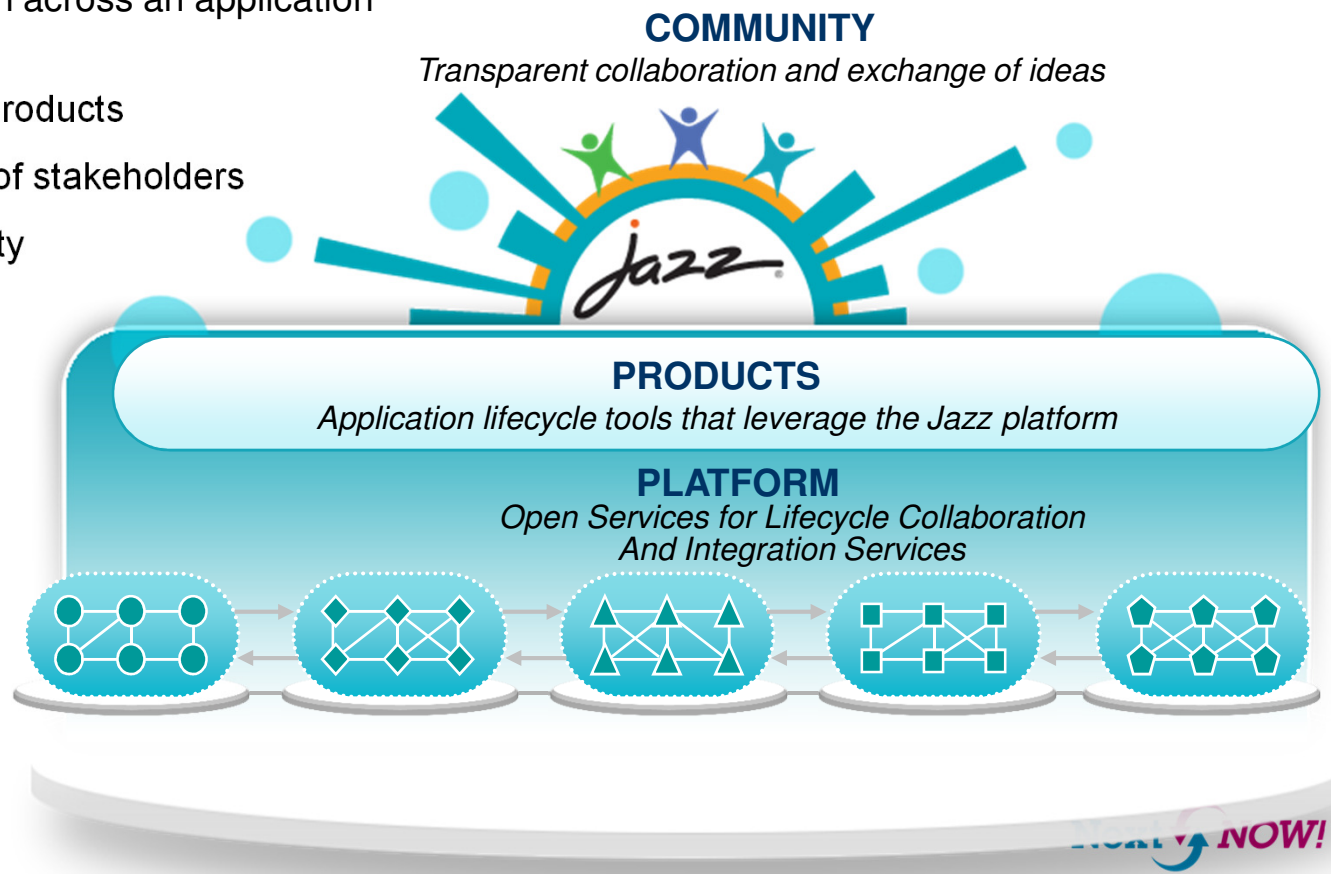
IBM Rational Collaborative Lifecycle Management Tools



The Vision of Jazz

- Jazz is an architecture, a platform, a set of products that's designed to put teams first
 - Open, flexible standards
 - Transparency
 - Collaboration across an application lifecycle
 - Portfolio of products
 - Community of stakeholders
 - Heterogeneity

A Focus shift
Function First Thinking => Team First Thinking
Individual Productivity => Team Productivity
Desktop Integration => Lifecycle Integration



Open Services for Lifecycle Collaboration (OSLC)

An initiative aimed at simplifying data linking and tool integration across the lifecycle



Open Services for Lifecycle Collaboration

Barriers to sharing resources and assets among tools

- ▶ Multiple vendors, open source projects, and in-house tools
- ▶ Private vocabularies, formats and stores
- ▶ Entanglement of tools with their data

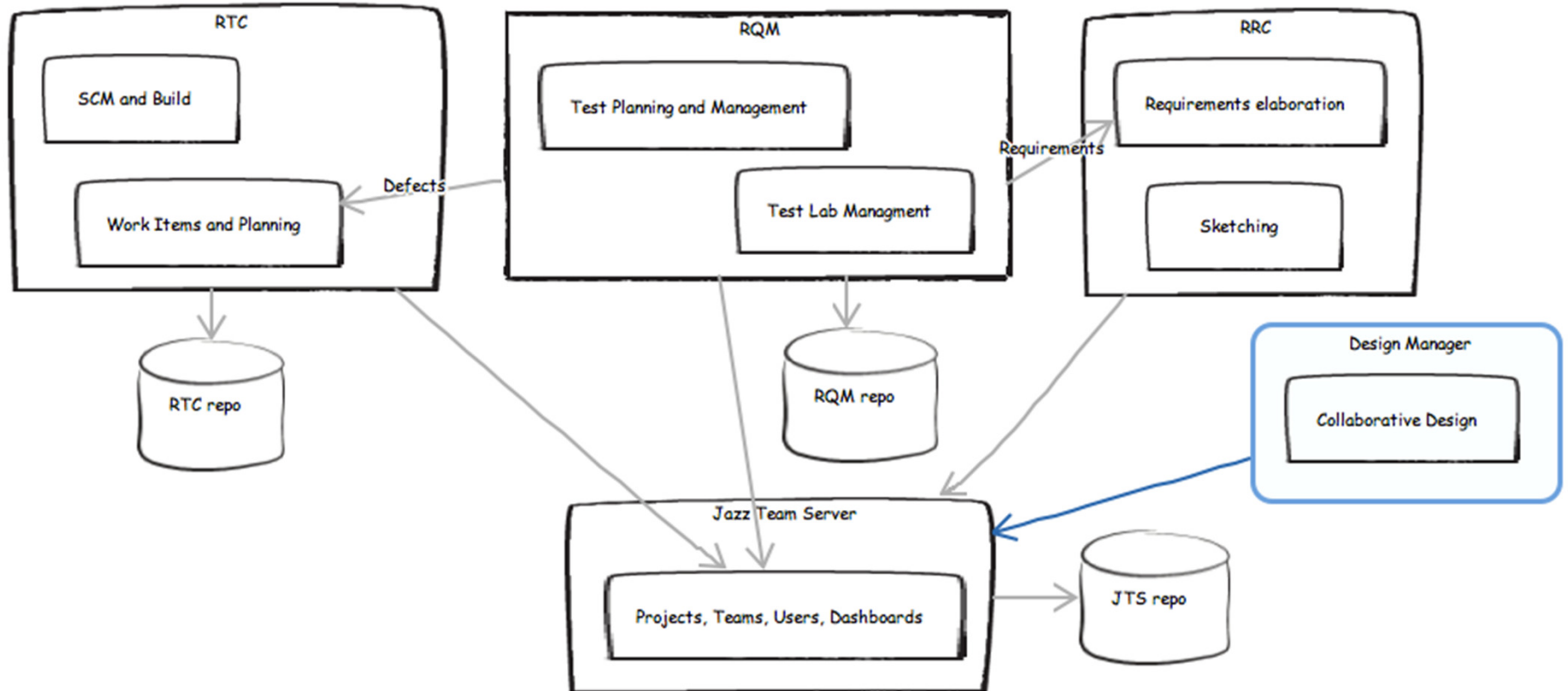
- ▶ Community Driven – specified at **open-services.net**
- ▶ Specifications for ALM, PLM and DevOps Interoperability
- ▶ Inspired by Internet architecture
 - Loosely coupled integration with “just enough” standardization
 - Common resource formats and services
- ▶ A different approach to industry-wide proliferation

Learn more at: <http://open-services.net/>

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- **IBM Rational Tools for CLM**
- Delivering the CLM Imperatives

CLM 2012 Architecture

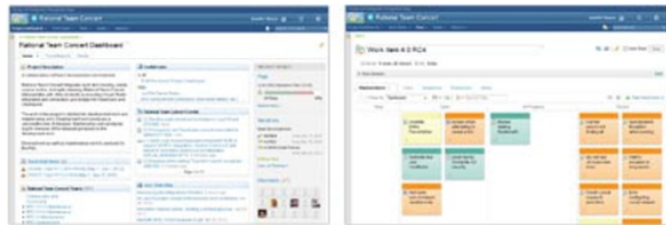


CLM on jazz.net

Our tools help you plan, design, develop, and deliver better software and systems

Agile Development

- ✓ Task tracking
- ✓ Source control
- ✓ Agile planning
- Rational Team Concert



Requirements

- ✓ Capture business needs
- ✓ Manage requirements
- Rational Requirements Composer

Quality Testing

- ✓ Get products ship-ready
- ✓ Plan, execute, and report on testing
- Rational Quality Manager

Design

- ✓ Collaborate on architecture and design
- ✓ Manage design change
- Rational Software Architect
- Rational Rhapsody



Lifecycle management for the whole team

Our products combine seamlessly to improve collaboration across the lifecycle and can integrate with a wide range of industry tools through the [Jazz Platform](#).

- Rational Collaborative Lifecycle Management
- Rational Systems and Software Engineering

[Check out all the Jazz products >](#)

Rational Requirements Composer – requirements management

- Capture your requirements
 - UI mock-ups, story boards, rich text editors, predefined templates
- Visually define the requirements
 - Use cases, diagrams...
- Collaborate and review
 - Review comments, approvals

The screenshot displays the Rational Requirements Composer interface for a project titled "JKE Banking (Requirements)". The main window shows a business process diagram for "23: Allocating Dividends to Cause". The diagram includes activities such as "Access JKE Website", "Provide Secure Profile Info to Access Account", "Select Allocate Dividend Option from 'I Want To'", "Choose Option Allocate Dividend %", "Provide % and Organization Details", "Choose a Specific Account", and "Display Account Details".

Below the diagram, the "Overall Review" section shows the review progress: "In progress 42% completed". It includes a "Due" date of "Mar 24, 2011" and instructions for reviewers: "Please review the additional glossary terms that we are using in this project".

The review table lists participants and their review results:

Participant	Type of Participant	Review results
Al	Approver	Done - 4 Approved
Bob	Approver	Done - 4 Approved
Curtis	Optional Reviewer	Done - 4 Abstained
Tanuj	Optional Reviewer	25% - 1 Reviewed
Ursula	Approver	25% - 1 Approved

At the bottom, the "Artifact versions are live" section shows a table of artifacts and their review status:

ID	Artifact	Version	Status
75	Organization	Mar 17, 2011 3:14 PM	1 Approved, 1 Abstained
113	Donor	Mar 17, 2011 3:14 PM	1 Approved, 1 Reviewed, 1 Abstained
17	Dividends for a Cause	Mar 17, 2011 3:14 PM	1 Approved, 1 Abstained
64	Business Recovery Matters	Mar 17, 2011 3:14 PM	2 Approved, 1 Reviewed, 1 Abstained

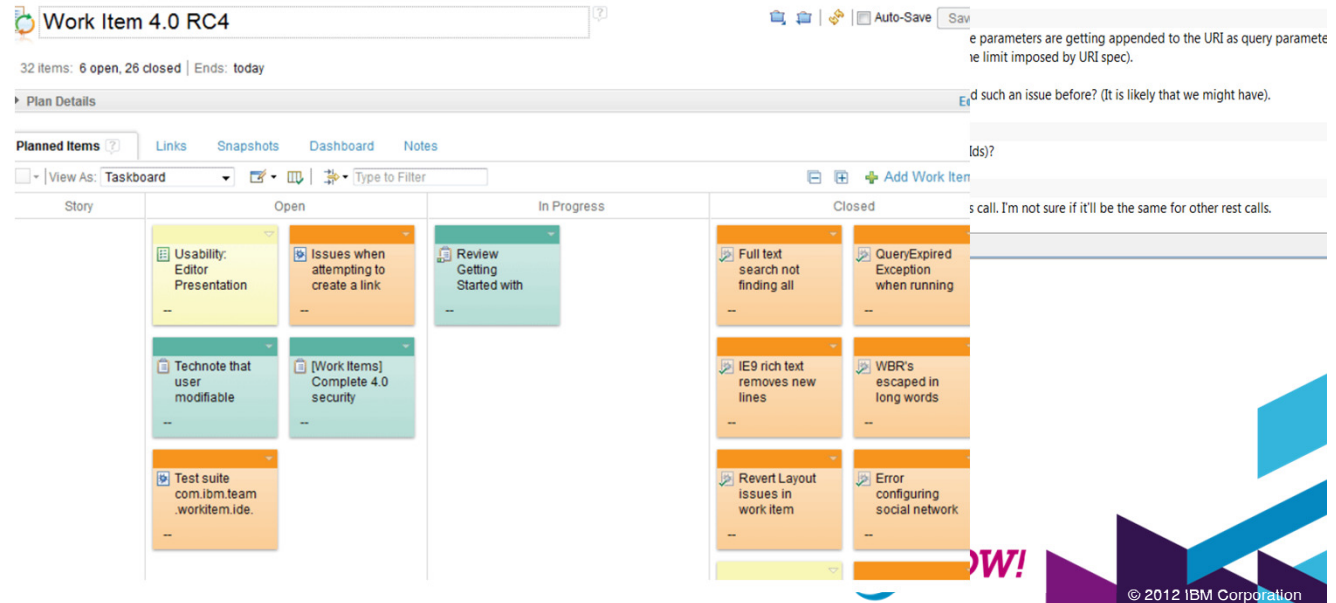
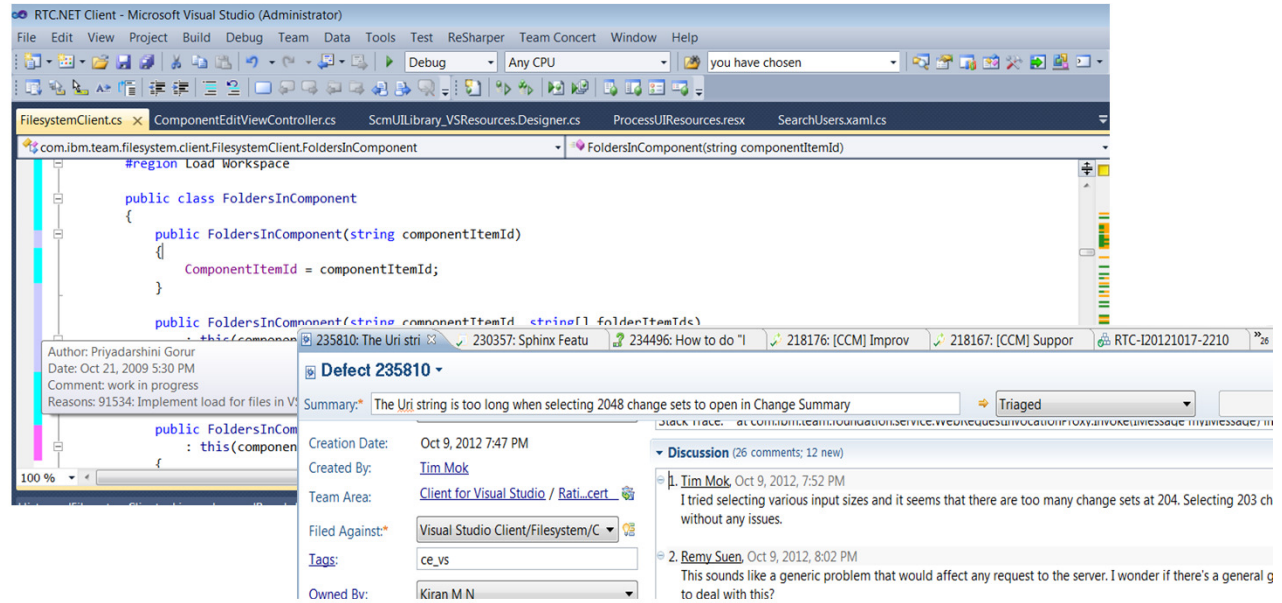
Rational Requirements Composer

- Traceability
 - Connect project requirements, scenarios, test artifacts, development work items
 - Identify gaps
 - Impact changes
 - Release coverage
- Reports
 - Project progress, traceability, status
- Live dashboards
- Audit history
 - What changes were made?
 - Who made the changes?

The screenshot displays the Rational Requirements Composer interface for a project named 'JKE Banking (Requirements Management)'. The main view shows a requirement titled '216: Donors can choose to support an organization' with a brief description and a list of revisions. A pop-up window shows the audit history for this requirement, indicating a change by 'Bob' on May 21, 2012. Below this, another requirement '171: Organization must identify how much money is desired' is shown with its attributes (Type: Feature, Business Priority: Must, Difficulty: Low, Stability: High) and a list of links and comments.

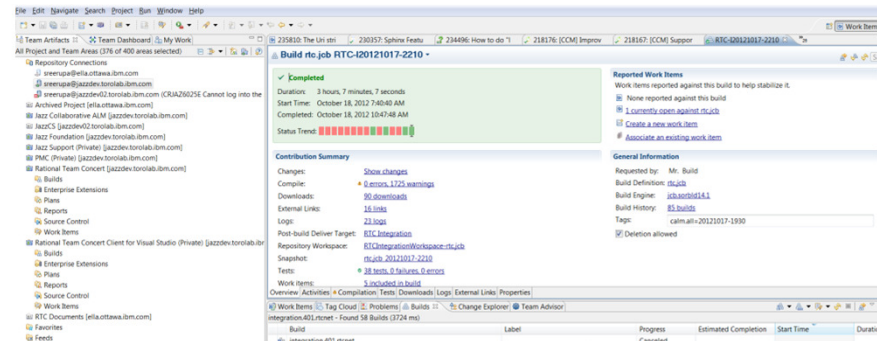
Rational Team Concert – Change and Configuration management

- Track your tasks
 - Smartly linked work items
 - Linked to each other, to test cases, to requirements
- Plans your way
 - Agile, waterfall, hybrid
 - Impact
 - Prioritization via ranking
- Version control your source code
 - Share, update, review, suspend, resume, load.

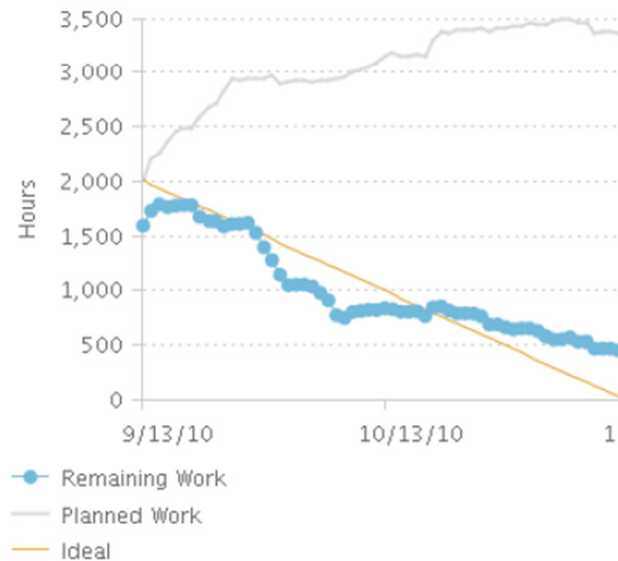


Rational Team Concert – Change and Configuration management

- Continuous integration
 - Continuous builds at multiple levels
- Process Rules!
 - Dynamic, continuously improving process
- Team aware
 - Day 1: up, running, coding and productive!
- Reports and dashboards
 - Configurable and customizable
 - Project health and team information at a glance
- Heterogeneous teams
 - Linux to Windows, Mac t Mainframe, Eclipse to Visual Studio



Burndown



Rational Quality Manager – Test Management

- Comprehensive test plans
 - Quicker manual testing
- Process awareness
 - Customizable process
 - Automatic detection of process violation
- Requirements driven testing
 - Requirements linked to test cases and defects
- Reporting, dashboards
 - Test metrics, defect counts, trend charts

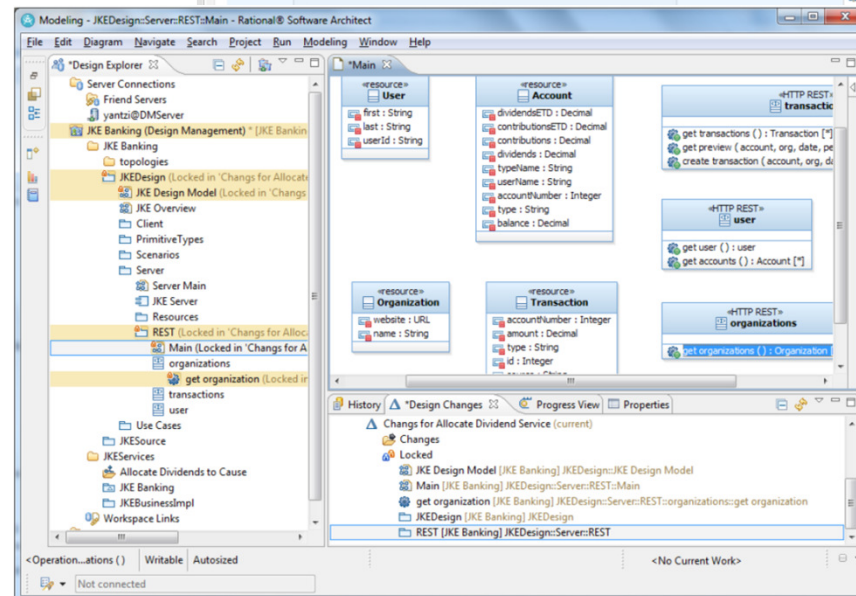
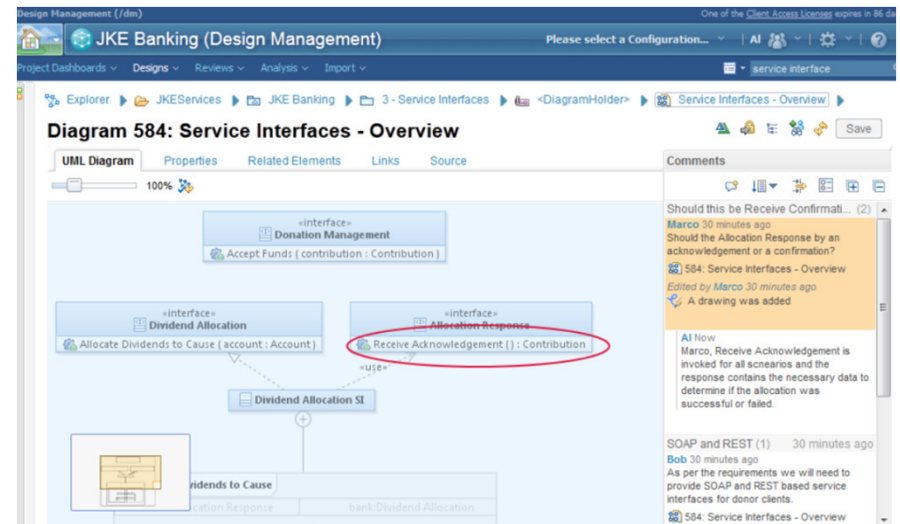
The image displays two screenshots of the IBM Rational Quality Manager (RQM) interface. The top screenshot shows the 'Test Plan Overview' for a test plan named '2: System Verification'. It includes fields for State (Draft), Action (Select State), Originator (Tammy), Owner (Tammy), and Priority (Unassigned). It also shows execution progress metrics for Test Case and Test Suite, and a table of Quality Objectives.

Objective	Description	Expected	Actual Value	Status	Comment
Number of Open Sev1 Defects	Objective stating that all Severity 1 defects must be closed.	= 0	0	Successful	See policy defining Sev
			0	Successful	
		10		Not Started	Expect value will increase over time -- see Test Objectives
		0		Not Started	

The bottom screenshot shows 'Chris's Dashboard' with several widgets: 'Plan Requirements Coverage by Test...', 'Execution Trend Report' (line chart), 'Execution Status using Weight (Live)' (horizontal bar chart), 'Open vs Closed Work Items' (line chart), 'Execution Status by Test Case Category using TCER Count (Live)' (horizontal bar chart), and 'Scorecard Report' (table).

Rational Collaborative Design Manager – Design Management

- Design in context
 - Work seamlessly with analysts, developers and testers
 - Manage your design artifacts as a part of your lifecycle project
- Collaborate
 - Sketches
 - Comments, design markers, automated design reviews
- Manage change
- Traceability and impact analysis
 - Link designs to requirements, test artifacts, work items, other designs
 - Visualize relationships
 - Impact of change
- Dashboards
 - Recent links, comments, most active design reviews



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- **Delivering the CLM Imperatives**

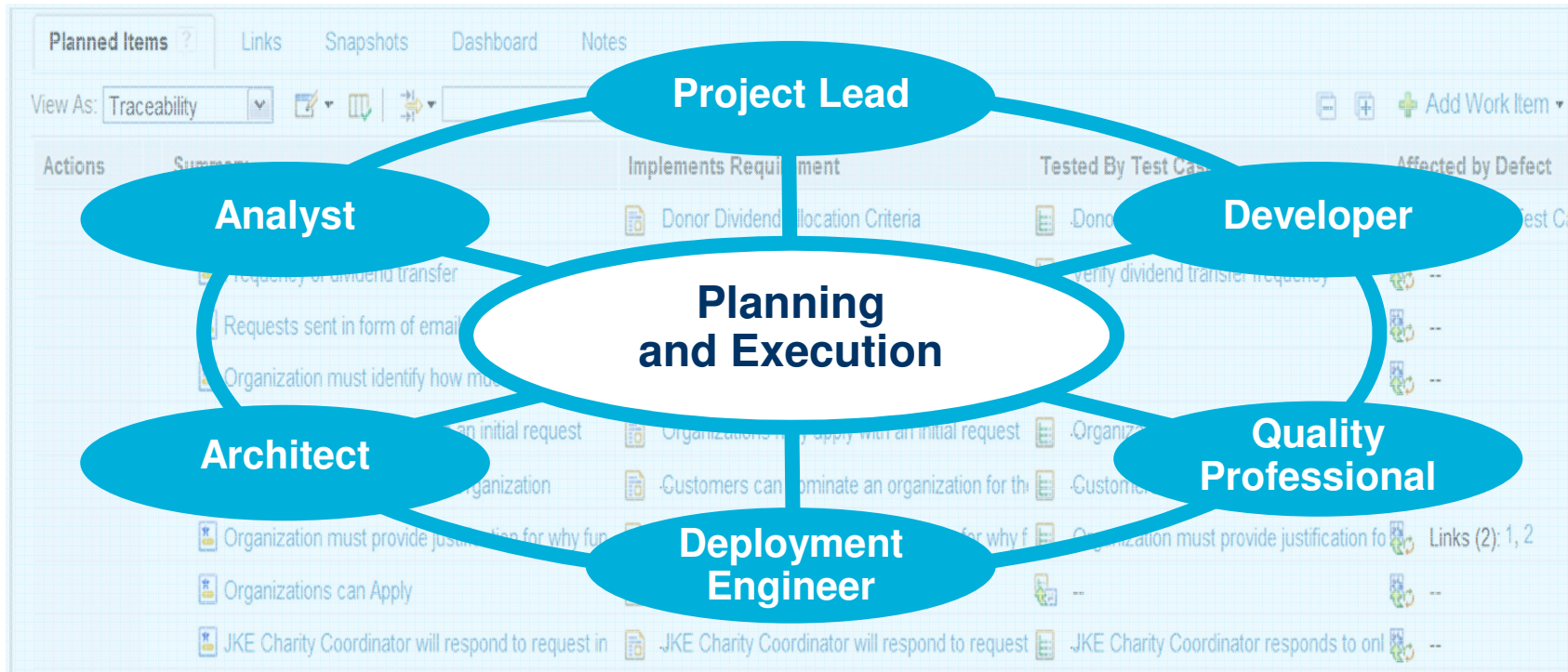
Delivering on the CLM Imperatives

- In-context collaboration
 - Collaborate on designs, tests, requirements, plans, code and tasks
 - Make decisions from a single source of truth
- Lifecycle traceability
 - Link your design, requirements, test plans and tasks
- Continuous improvement
 - Let the tools adapt to your process, your team
- Real-time planning
 - Plans linked to real work
- Development intelligence
 - Set measurable goals and track them easily.

What is Real-time Planning?

Real-time Planning accelerates time to delivery by:

- Providing a **single plan** that spans requirements, development, and test, ensuring a team understanding of the overall scope of a project
- **Integrating planning with execution** ensuring the entire team understands the true project status
- Allowing **everyone to participate** in keeping the plan current and accurate
- Helping teams **respond to the unexpected** in a timely manner ensuring the team stays on schedule



Rankings improve clarity

Team clearly understand the goals

BRM Sprint 2 (1.0) Plan
28 items: 25 open, 3 closed | Ends in: 3 days

Plan Details

Planned Items ? Links Snapshots Dashboard Notes

View As: Ranked List

Actions	Summary	Story Points	Effective Estimate	Priority	Rank
	Search is not finding this term	--	1 hour	High	1
	Improve link colors	--	1 hour	High	2
	Login not working anymore	--	5 hours	High	3
	Donor Dividend Allocation Criteria	5 pts	--	High	4
	Implement - Donor Dividend Allocation Criteria	--	2.5 days	High	5
	Logout is not working anymore	--	3 hours	Medium	6
	Performance on first startup is bad	--	2 hours	Medium	7
	Some links are not working	--	5 hours	Medium	8
	Implement - Frequency of dividend transfer	--	1 week	Medium	9
	SWT Exception	--	1.5 days	Medium	10
	Implement - Requests sent in form of email	--	4 days	Medium	11
	Implement - Organization must identify how much money is desired	--	1.5 days	Medium	12
	Implement - Organization must provide justification for why funds are nee...	--	4 hours	Medium	13
	Implement - Organizations can Apply	--	1 day	Medium	14

Plan at the right level of detail

- Everyone participates in planning

✓ Stories decomposed into the right set of tasks

✓ Plans include all work!
 ✓ All team members,
 ✓ All types of work

The screenshot displays a JIRA sprint plan for 'BRM Sprint 2 (1.0) Plan' over a 3-day period. It shows team assignments for Bob, Deb, Marco, Tanuj, and Unassigned. A table lists tasks with their effective estimates, progress, and status. A 'Work Item Type' column is highlighted with a green box, showing various types like Defect, Story, and Task. A 'Summary' column is also highlighted with a green box, showing a breakdown of a story into tasks.

Actions	Summary	Effective Estimate	Progress	Status	Work Item Type	Change Sets	Attachments
	Improve link colors	1 hour	0/1 h	New	Defect	--	--
	Donor Dividend Allocation Criteria	--	0/5 pts 0/20 h	In Progress	Story	--	Links (2...)
	Implement - Donor Dividend A...	2.5 days	0/20 h	New	Task	--	--
	Update router module with ne...	--	0/0 h	In Progress	Task	Changes in P...	--
	create new service for validati...	--	0/0 h	In Progress	Task	Changes in W...	--
	Performance on first startup is bad	2 hours	0/2 h	New	Defect	--	--
	Some links are not working	5 hours	0/5 h	New	Defect	--	--
	Frequency of dividend transfer	--	0/13 pts 0/40 h	New	Story	--	--
	Requests sent in form of email	--	0/8 pts 0/32 h	New	Story	--	--

Plans tied to execution

- Deliverables and Work Products show results

BRM Sprint 2 (1.0) Plan

28 items: 25 open, 3 closed | Ends in: 3 days

Plan Details

Planned Items ? Links

View As: Work Breakdown

Bob
Closed Items

Deb
Closed Items: 0 | Open Items: 9

Marco
Closed Items: 2 | Open Items: 11

Tanuj
Closed Items: 0 | Open Items: 0

Unassigned
Closed Items: 0 | Open Items: 2

Annotations:

- ✓ Change Sets & Attachments are better !
- ✓ Progress & Status are good indicators of execution.

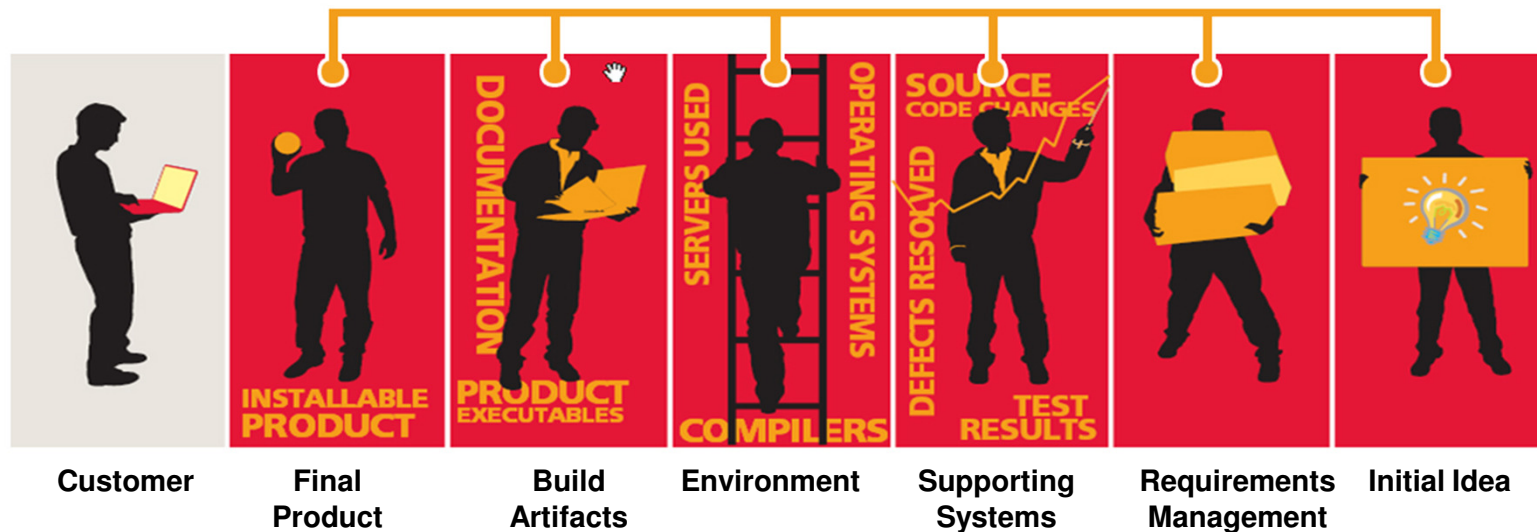
Actions	Summary	Effective Estimate	Progress	Status	Work Item Type	Change Sets	Attachments
	Improve link colors	1 hour	0/1 h	New	Defect	--	--
	Donor Dividend Allocation Criteria	--	0/5 pts 0/20 h	In Progress	Story	--	Links (2...)
	Implement - Donor Dividend A...	2.5 days	0/20 h	New	Task	--	--
	Update router module with ne...	--	0/0 h	In Progress	Task	△ Changes in P...	--
	create new service for validati...	--	0/0 h	In Progress	Task	△ Changes in W...	--
	Performance on first startup is bad	2 hours	0/2 h	New	Defect	--	--
	Some links are not working	5 hours	0/5 h	New	Defect	--	--
	Frequency of dividend transfer	--	0/13 pts 0/40 h	New	Story	--	--
	Requests sent in form of email	--	0/8 pts 0/32 h	New	Story	--	--
	Marco		Progress: 12/52 -33.25 h				Estimated: 91%
	Tanuj		Progress: --		No Work		Estimated: --
	Unassigned						

What is Lifecycle Traceability?

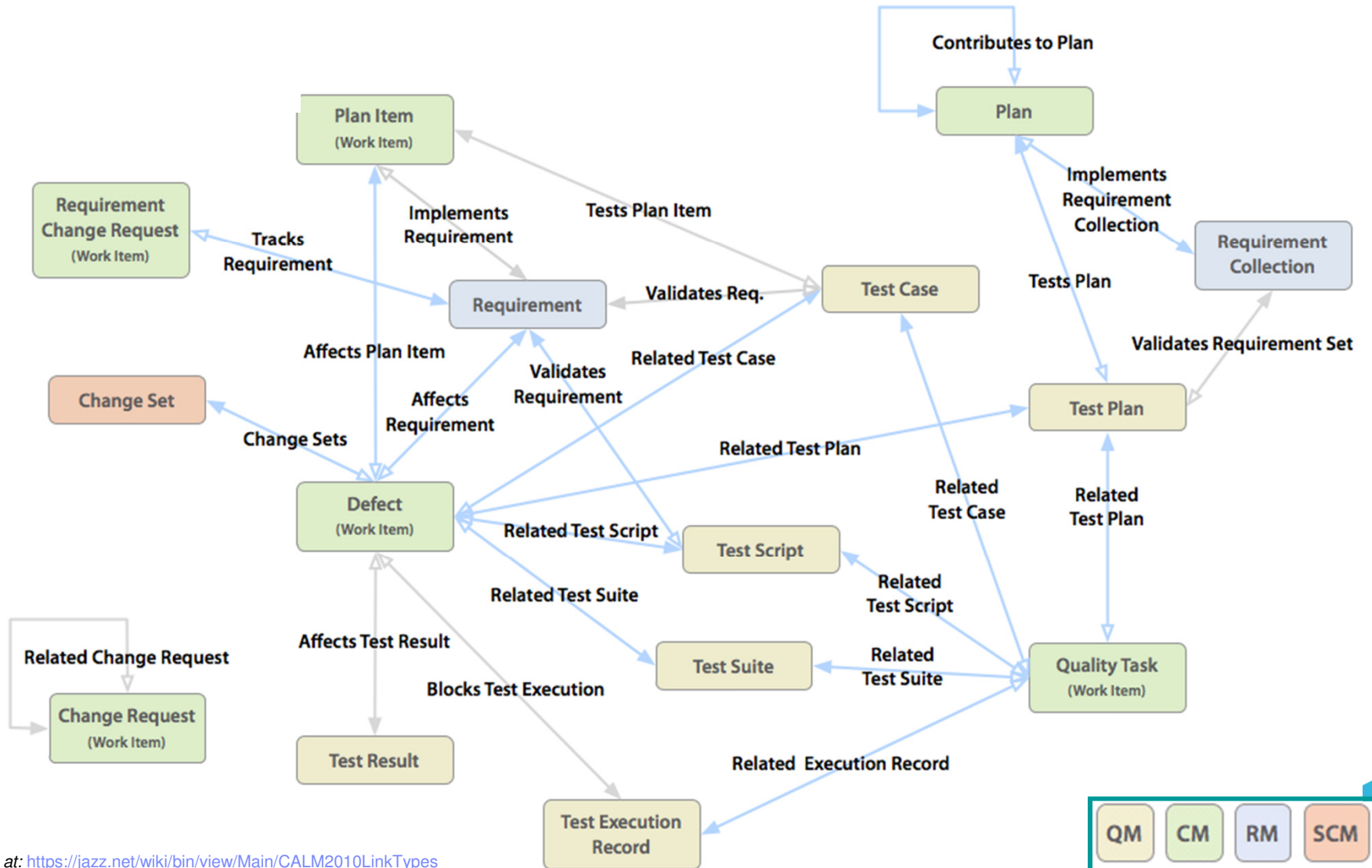
Lifecycle Traceability improves quality by:

- Establishing **relationships between software artifacts**
- Helping you **identify and close artifact gaps**, ensuring **coverage** across disciplines
- Provides visibility into the **completeness** of planned items by inspecting all related artifacts
- Provides easy **access to related artifacts** ensuring everyone shares the same view
- Delivers transparency which enables everyone to make **fully informed decisions** based business priorities

Instant access to details from any point in the development process



CLM Link Types



Learn more at: <https://jazz.net/wiki/bin/view/Main/CALM2010LinkTypes>

Team Leads have visibility into coverage & completeness

- Proactively respond to gaps as they surface through out the project
- Issues quickly highlighted and resolved

BRM Sprint 2 (1.0) Plan Auto-Save Save

26 items: 23 open, 3 closed | Ends in: 3 days

Plan Details Edit

Planned Items Links Snapshots Dashboard Notes

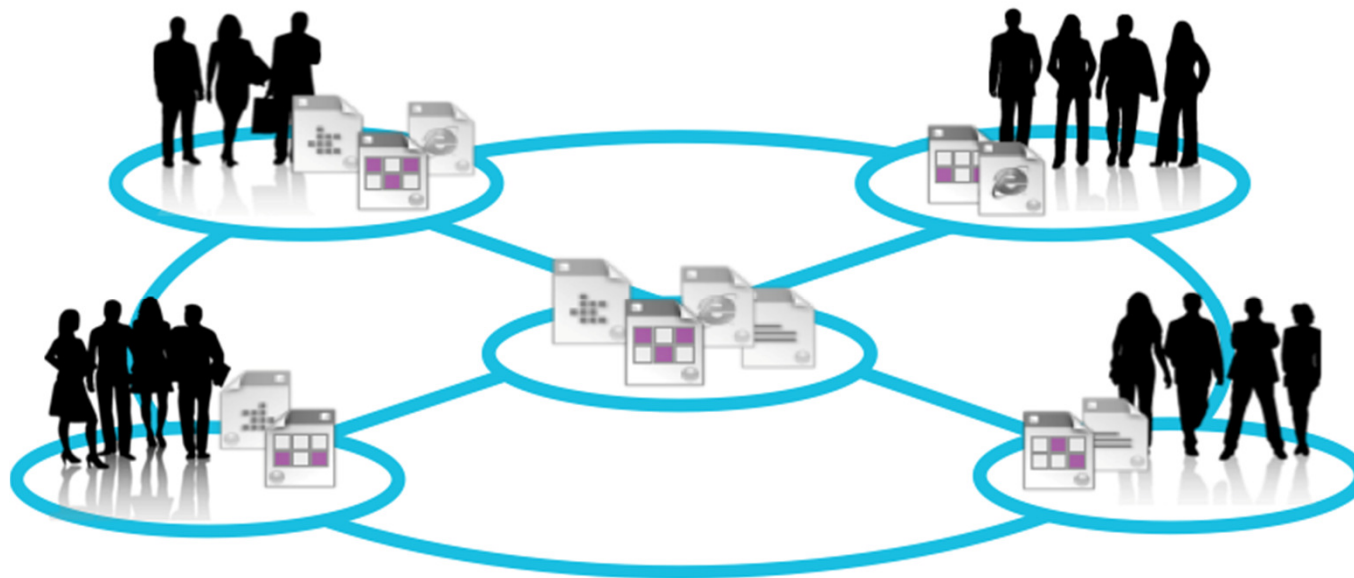
View As: Traceability Type to Filter (17 items filtered) Add Work Item

Actions	Summary	Owned By	Implements Requirement	Tested By Test Case	Affected by I
	Requests sent in form of email	Unassigned	Requests sent in form of email	--	--
	Frequency of dividend transfer	Unassigned	--	Verify dividend transfer frequency	--
	Organization must provide justification for why funds are need	Marco	Organization must provide justification for why funds are ne	Organization must provide justificatio	--
	Organizations can Apply	Marco	Organizations can apply	Organizations can Apply	--
	Organization must identify how much money is desired	Marco	Organization must identify how much money is desired	Organization must identify how much	Links (2)
	Donor Dividend Allocation Criteria	Deb	Donor Dividend Allocation Criteria	Donor dividend allocation conforms t	--
	Organizations may apply with an initial request	Bob	Organizations may apply with an initial request	Organizations may apply with an initi	--
	JKE Charity Coordinator will respond to request in the website	Marco	JKE Charity Coordinator will respond to request in the web	JKE Charity Coordinator responds to	425: Rur
	Customers can Nominate an Organization	Marco	Customers can nominate an organization for the program	Customers can Nominate an Organi	--

What is In-Context Collaboration?

In-Context Collaboration improves product value by:

- ▶ Making **information immediately accessible** to all team members in the context of their work
- ▶ Empowering teams to collaborate on and review software development artifacts so they can **incorporate feedback early and often**
- ▶ Providing **single source of truth** hosted in a shared repository so that team members can collaborate effectively around the globe



Rich hovers automate information access without having to click

The screenshot shows a web application titled 'Quality Management (/qm)' with a sub-header 'JKE Banking (Quality Management)'. The main navigation bar includes 'Requirements', 'Planning', 'Construction', 'Lab Management', 'Builds', 'Execution', and 'Reports'. A 'Mini Dashboard' is visible on the left with a 'My Tasks' section. A rich hover menu is displayed over the '14: Release 1 Planning' item in the dashboard. The hover menu contains the following information:

- 14: Release 1 Planning**
- 58: Dividend processing payment is a one time transaction.
- 78: Requests sent in form of email
- 80: Donors will receive confirmation and receipt
- 69: Dividend allocation by percentage
- 79: Organizations may apply with an initial request
- ... 13 More
- Location**
 - JKE Banking (Requirements)
 - Collections
 - Release 1
- Attributes**
 - Type: Release Collection
 - Format: Collection
 - Description:
 - Status: Approved
- Links**
 - Validated By (1): ...
 - Implemented By (1): ...

✓ Rich hovers provide quick access to information to determine if additional details are required!

In-context Collaboration always shows the latest

Comments (4)

- Bob to Deb, Marco 5 minutes ago (2 replies)

Percentage format - numer of decimal places

How many decimal places should we support for percent

Example: none - 16%, 1 decimal place 16.5%
- Marco to Bob, Deb 5 minutes ago

RE: Percentage format - numer of decimal places #1]

I checked the DB table. We did not take into account decimals for this percentage. If we are going to support decimals I need to know ASAP.
- Deb to Bob, Marco Now

RE: Percentage format - numer of decimal places #2]

Bob, is no decimal support acceptable to the business?
- Tanuj to Bob 1 minute ago

What is the minimum percentage?

Threaded discussions on requirements

View All Artifacts

Page size: 20

ID	Name	Artifact Type	Last Modified By	Last Modified Date
44	Accounts Overview	Part	JTSAdmin	Mar 26, 2011 5:43:06 PM
50	Transaction History	Part	JTSAdmin	Mar 26, 2011 5:43:10 PM
53	Accounts Overview (Home Page)	Sketch	JTSAdmin	Mar 26, 2011 5:43:11 PM
55	Dividend Contribution - screen flow	Screen Flow	JTSAdmin	Mar 26, 2011 5:43:11 PM
60	Account Details	Part	JTSAdmin	Mar 26, 2011 5:43:13 PM
67	Dividend Contribution	Storyboard	JTSAdmin	Mar 26, 2011 5:43:15 PM
75	Donor must be registered user to access account details	Business Rule	JTSAdmin	Mar 26, 2011 5:43:19 PM
79	Donors will receive confirmation and receipt	Feature	JTSAdmin	Mar 26, 2011 5:43:21 PM
89	Dividend contribution - confirmation	Sketch	JTSAdmin	Mar 26, 2011 5:43:23 PM

Recent Threaded discussions highlighted on requirements

Work Items Tag Cloud Problems

Found 9 work items - Stories (current sprint)

Id	Status	P	Story Points	Summary	Owned By
55	New	13 pts	13 pts	Frequency of dividend transfer	Deb
59	Implemented	8 pts	8 pts	Requests sent in form of email	Marco
60	New	3 pts	3 pts	Organization must identify how much money is desired	Marco
62	New	1 pt	1 pt	Organizations may apply with an initial request	Marco
64	In Progress	2 pts	2 pts	Customers can Nominate an Organization	Deb
66	New	1 pt	1 pt	Organization must provide justification for why funds are needed	Marco
69	New	2 pts	2 pts	Organizations can Apply	Marco
70	In Progress	5 pts	5 pts	Donor Dividend Allocation Criteria	Deb
71	New	1 pt	1 pt	JKE Charity Coordinator will respond to request in the website trigg...	Marco

Unread work Items bolded for developers

Viewlets focus the team on recent comments and changes

Comments in All Projects (4)

- Marco to clmadmin 10 minutes ago
Respond to customer request within forty eight hours
- Tanuj to clmadmin 15 minutes ago
Back Office System
- Tanuj to clmadmin 20 minutes ago
Organizations can apply
- clmadmin 20 minutes ago
Dividend allocation by percentage

Page 1 of 1



Requirements comment updates

Feeds focused on Requirement comments focus stakeholders on changes and strip out the noise of attributes changes etc..

Any changes to a Requirement

Feeds on all changes give project leads visibility into all requirements changes so that know exactly what is changing by whom and can access immediately assess the impact for the team.

Recent Changes in All Projects (100)

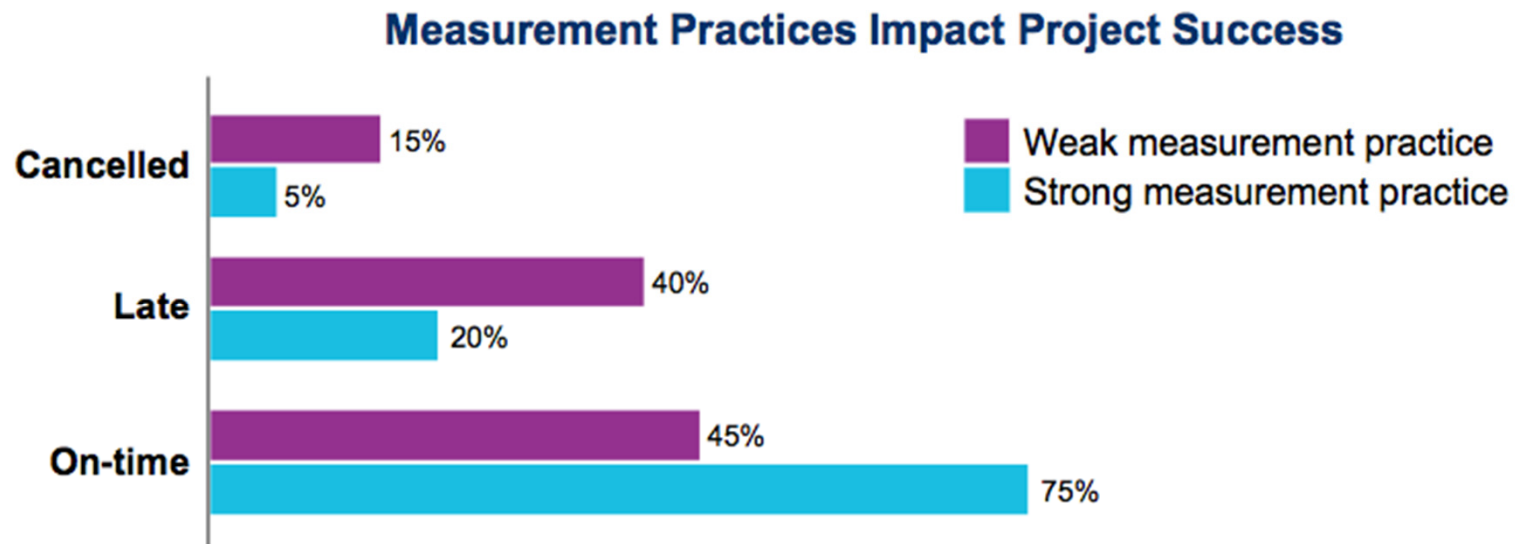
- Dividend Contribution to Multiple Organizations (122) Mar 26, 2011
- User Story Elaboration Template (121) Mar 26, 2011
- Dividend allocation by percentage (120) Mar 26, 2011
- Use Case Template (119) Mar 26, 2011
- Donors can choose to support an organization (118) Mar 26, 2011
- Allocating Dividends to Cause (117) Mar 26, 2011
- Allocate dividends by amount and frequency (116) Mar 26, 2011
- Donate wizard pg 1 (115) Mar 26, 2011
- Apply for Organizational Funding (114) Mar 26, 2011
- Core Functionality (113) Mar 26, 2011

Page 1 of 10

What is Development Intelligence?

Development Intelligence improves predictability by:

- Applying **Business Intelligence techniques** to software and systems development
- Enabling **fact-based decision making** (to communicate status, monitor progress, diagnose problems, identify corrective actions)
- **Steering projects and programs** to deliver on-time



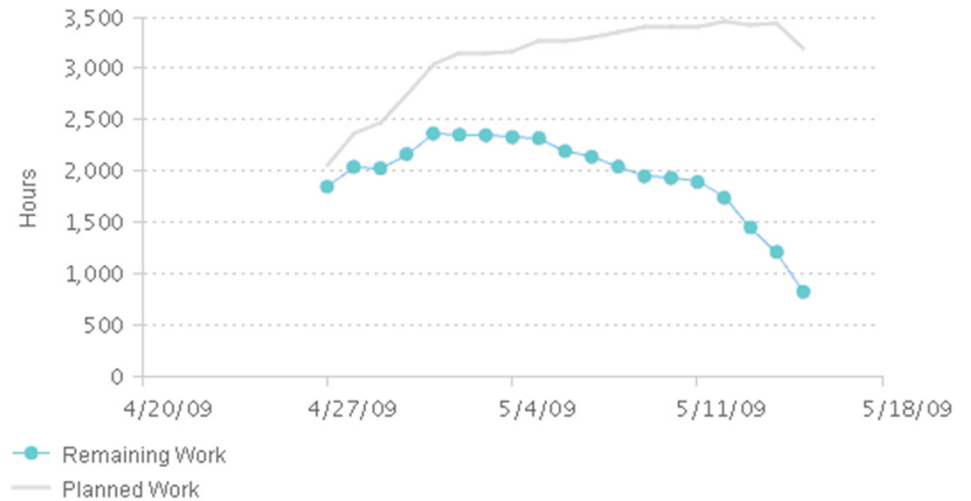
Source: Capers Jones, Measurement, Metrics and Industry Leadership, 2009 and Software Engineering Best Practices, McGraw Hill, 2010.

Measuring Time-to-Value (Schedule)

Iteration Burndown

Showing how much work is left to do in an iteration. It enables the team to adjust scope or resources to finish the iteration successfully.

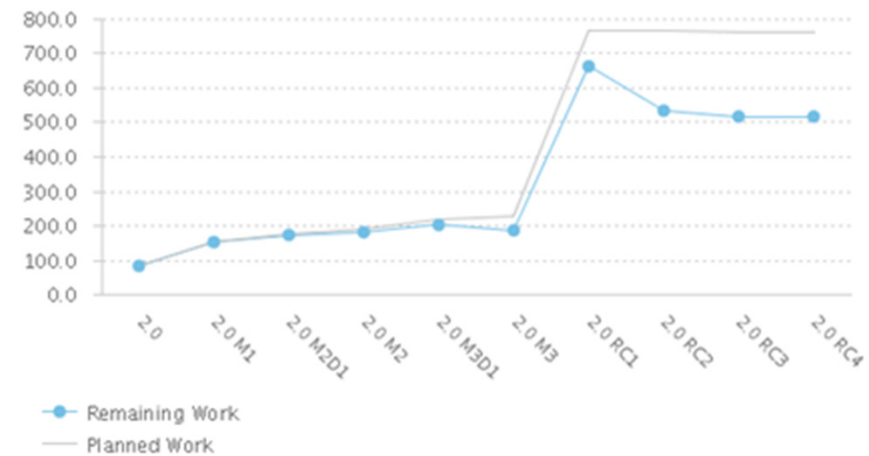
Burndown



Release Burndown

Shows the estimated functionality remaining to complete the current release.

Release burndown

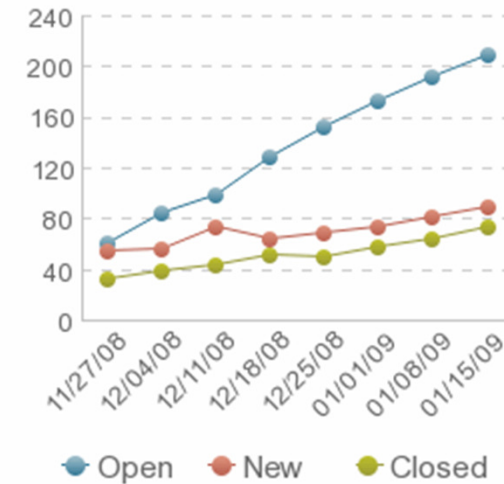


Measuring Product Quality

Defect Trends

Shows defect arrival and closure rates, determines the remaining defect backlog, projects the future defect arrival/close rate up to and post-ship

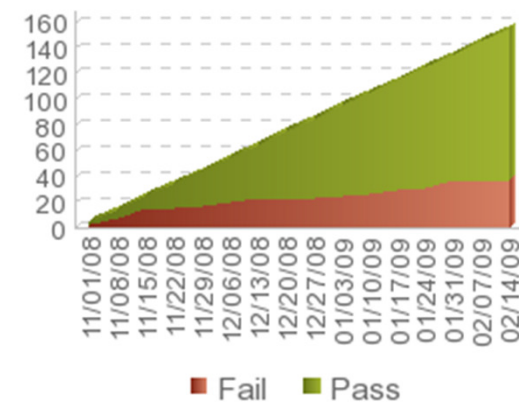
Number of Defects



Test Execution Status

Monitors test completion and success

Number of Executed Tests



Use dashboards to provide that 1 view of project health

JKE Banking (Change Management)* ?

Overview | Time to Value (Schedule) | Product Value | Product Cost | Product Quality | Reports | Stabilization +

Story Status Current Iteration

Shows the status of all stories planned for the current iteration

Status	Count
Testing	2
Implementing	17
Invalid	2
Done	17
Ready to Test	6
New	14
Ready to Implement	1

Burndown Current Iteration

Shows the remaining amount of estimated work in hours of work items planned for the current iteration.

1,935

- Remaining Work
- Planned Work
- Ideal
- Expected Complete

Stories Open/Closed/In Progress

Shows the number of stories which are open, in progress, done during the iteration.

63

- Open
- In Progress
- Closed

1 - Current Stories (60)

- 150501: Improve Web UI error reporting
- 154382: Completion (M14) of foundation support for migrating RRC 2.x to 3.0, and JTS consolidation
- 155918: Provide TVT testcases and testcase updates to TVT team
- 154263: [Continuation] Create server diagnostics tests and reports that make various checks
- 155024: Track the fixing of hangs occurring on shutdown of the CLM server
- 155399: [Repository - M14] Performance, quality and robustness enhancements
- 156051: Improvements and fixes for CLM migration automation
- 154929: [Repository - M14] Address high severity defects, Reduce backlog
- 155033: Explore servlet dispatching enablement as a backup option
- 155486: [Repository M14] Serviceability and Consumability Improvements

Page 1 of 6

- Burndown

2,776

- Stories Open, Closed, In Progress

67

- Open
- In Progress
- Closed

What is Continuous Improvement?

Continuous Improvement reduces cost by:

- Improving software delivery through the ongoing **adoption of best practices and automation** to reduce manual, non-creative and error prone tasks
- Promoting **incremental improvement of a project** when needed
- Enabling breakthrough improvement by **capturing best practices and reusing** across teams
- Allowing **everyone to participate** with easy to adopt best practices at your fingertips.



“Successful analytics requires taking it beyond software and reporting, and into the realm of management practices and operations improvement.”

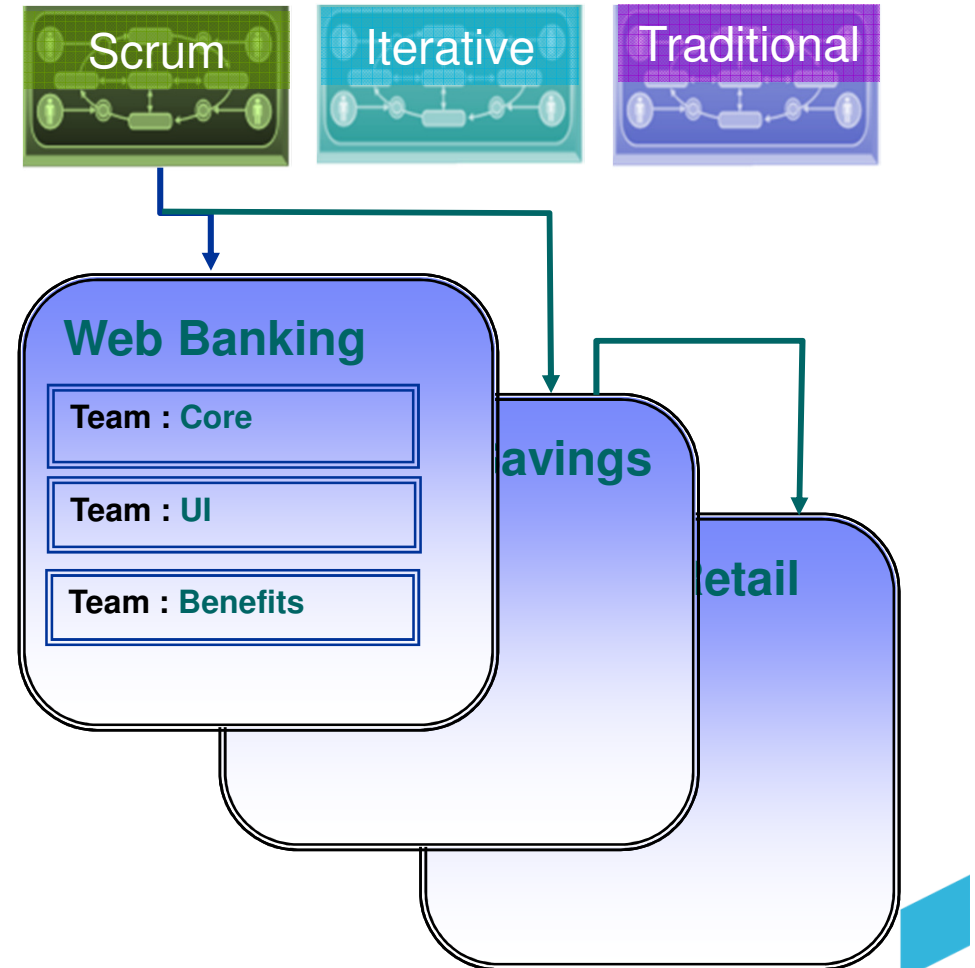
Information Management Online, February 23, 2011

Adopt - Process Sharing

Leverage the Best practices from Rational and other teams

Process Templates on Server: JKE.tools.com:9443/JTS

- 1 Import/export Templates**
Provides the ability to leverage best practices from Rational and other teams
- 2 Servers support multiple templates**
Allowing administrators to support different processes. Teams improve their process independently.
- 3 Process updates can be shared**
Allows teams to control when they want to accept improvements.



Team Retrospectives help identify areas of improvement

- Tracking Retrospectives help team members to collaborate on improvements
 - Ranking of process improvements help to focus on where the team feels the biggest pain.
 - Metrics where available help support process improvements and show results.

The screenshot shows the IBM Jazz Change and Configuration Management (ccm) interface. The main window displays a list of Retrospectives under the heading 'Retrospectives'. The table below shows the data from the screenshot:

Id	Status	Summary	Filed Against	Planned For	Actions
77	New	Builds are not completing as frequent as before	Build	Unassigned	
32	New	Retrospective for Sprint 2	JKE	Sprint 2	
31	Done	Retrospective for Sprint 1			

The details for item 31, 'Retrospective for Sprint 1', are shown in a pop-up window:

- Status:** Done
- Details:**
 - Filed Against: JKE
 - Planned For: Sprint 1
 - Project Area: JKE Banking (Change Management)
 - Resolution Date: March 26, 2011 5:44 PM
 - Owned By: Marco
 - Resolved By: Marco
- Quick Information:**
 - Subscribers (1): M
 - Mentions (3)
 - Approve Sprint 1 Retrospective: Approved (1 of 1)
- Notes:**
 - Discussion:**
 1. Deb, Mar 6, 2011, 1:58 AM: @marco When will we have the meeting for the retrospective?
 2. Sally, Mar 6, 2011, 8:10 PM: @deb I think it will be tomorrow?
 3. Marco, Mar 8, 2011, 6:41 AM: Yes @deb and @sally, it will be today!

Implement : Require Unit test before deliver

Operation Behavior

Select a cell in the table below to configure the preconditions and follow-up actions for the corresponding operation and role.

Preconditions are checked before running an operation; follow-up actions are executed after. An operation's preconditions and follow-up actions can be configured differently for each role. Note that operation configurations completely replace each other; they are not additive. The process runtime will choose the most appropriate operation configuration for the logged-in user and will use only the preconditions and follow-up actions defined in that configuration.

Operations	Everyone (d...)	Team Member	Team Lead
Reports			
Deploy Report (server)			
Deploy Report Template (server)			
Display Report (server)			
Manage Report Folder (server)			
Source Control			
Deliver (client)			
Deliver (server)			
Save Change Set Links and Comments (server)			
Work Items			
Save Work Item (server)			

The deliver operation is performed when changes or baselines are delivered from a workspace to a stream.

Preconditions and follow-up actions are configured for this operation

Final (ignore customization of this operation in child team areas)

Preconditions (7 available):

Add... (highlighted)

Name: <Select a Precondition or Follow-up action>

Description:

Follow-up actions (0 available):

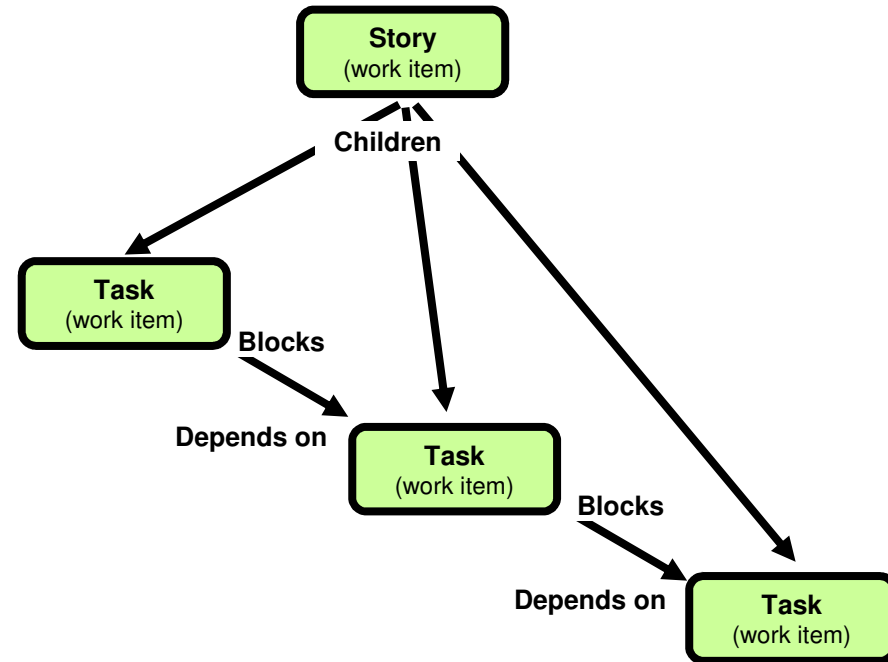
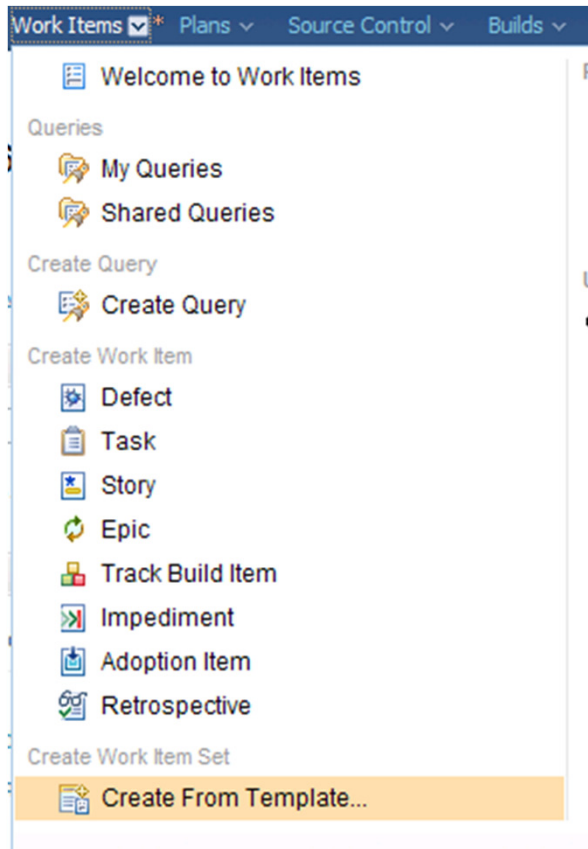
Add Preconditions dialog:

Select the preconditions to add:

- Prohibit Non-Externalized Java Strings
- Prohibit Unused Java Imports
- Prohibit Workspace Errors
- Require Content
- Require JUnit Test Run** (highlighted)
- Require Work Item Approval
- Require Work items and Comments

Buttons: ? OK Cancel

Implement: Work Item Template for a set of repetitive tasks



The Five Imperatives of Application Lifecycle Management

Improve organizational productivity

- Accelerate **time to delivery** with **Real-time Planning**
- Improve **quality** with **Lifecycle Traceability**
- Maximize **product value** with **In-Context Collaboration**
- Refine **predictability** with **Development Intelligence**
- Reduce **costs** with **Continuous Improvement**



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