

IBM Software Group

IBM Rational Team Concert

*Accelerate enterprise agile development
with a lean and collaborative
application lifecycle management (ALM) solution*

Jan Svoboda

al. software

→ Go to IBM



Innovation for a smarter planet

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Agenda

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Business Challenges

2

Rational Overview

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ALM Business Imperatives – Our Value

- Team collaboration
- Real-time dynamic planning
- Process guidance
- Transparency and status for everyone
- Collaborative change management
- Advanced source control
- Continuous integration

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Summary



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Business needs software development that supports IT agility....

Must Deliver:

- ✓ More business solutions
- ✓ More flexibility
- ✓ More quality
- ✓ More business value



-yet-

- ✓ Less risk
- ✓ Less costs
- ✓ Less or flat resources

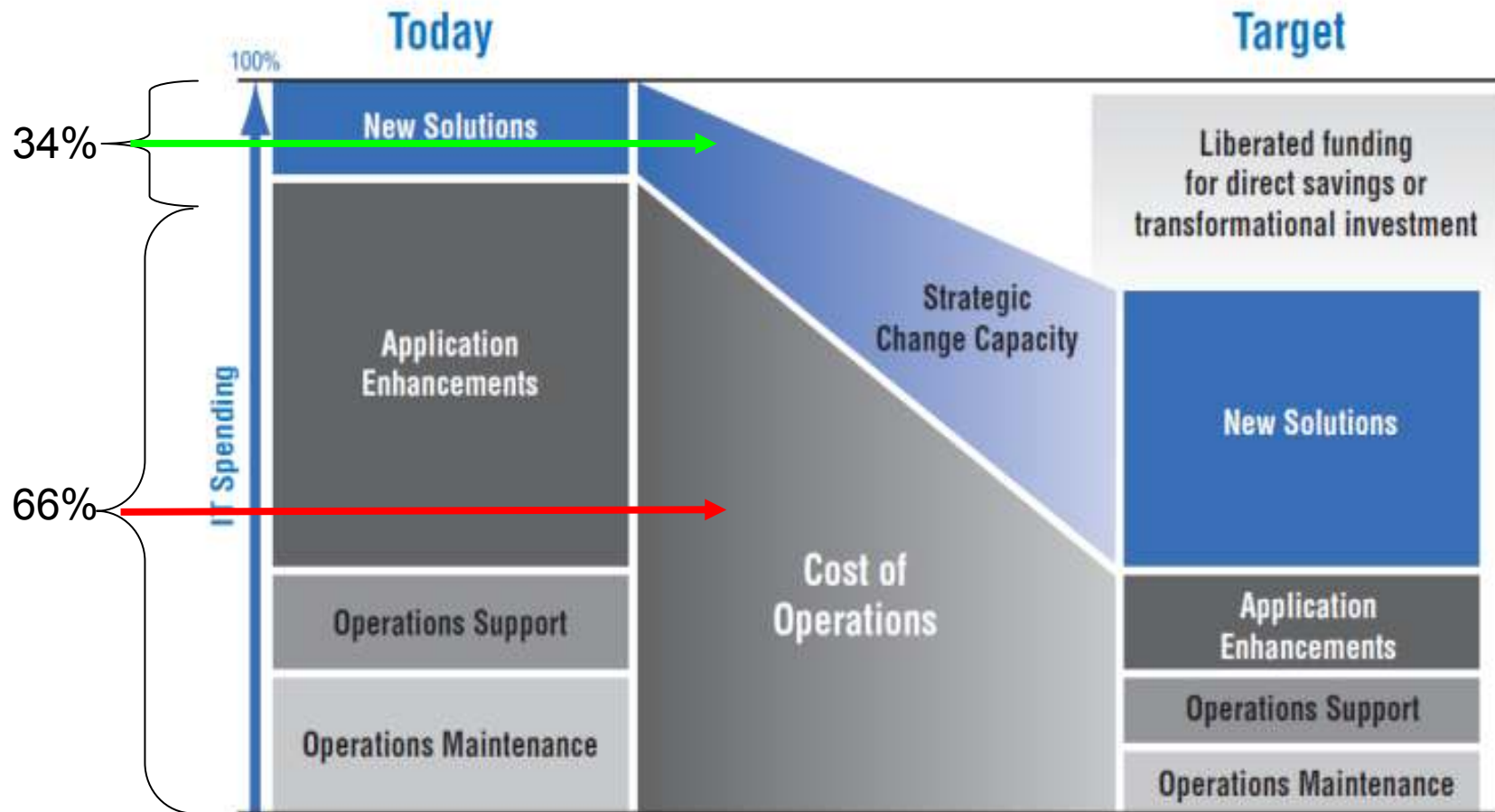


Effective software development promotes a delicate balance of resources, reducing costs while delivering more, higher-quality business solutions.



Business and IT Agility: Balancing Resources to Support Business Innovation

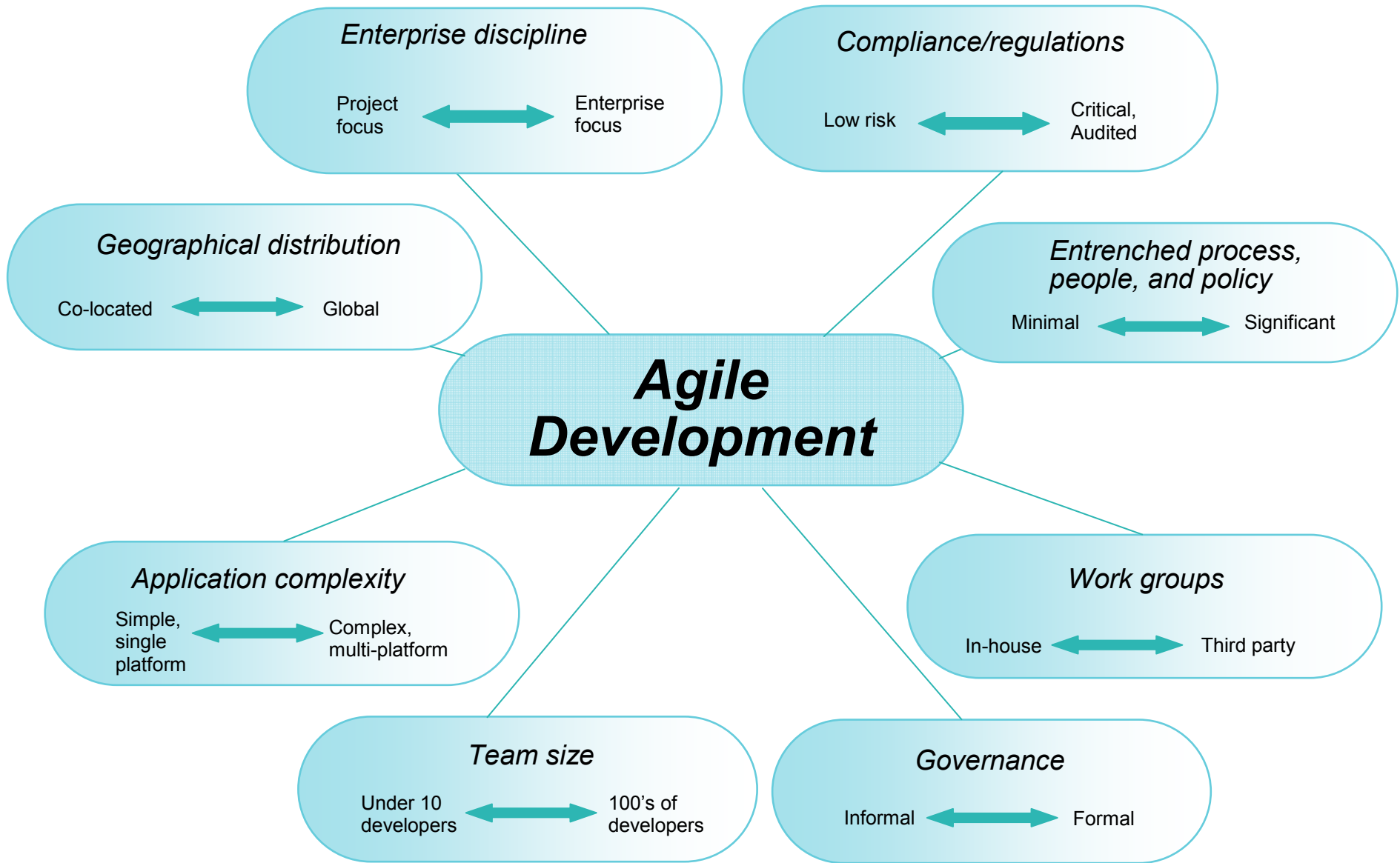
Balance IT investments to focus on new solutions.



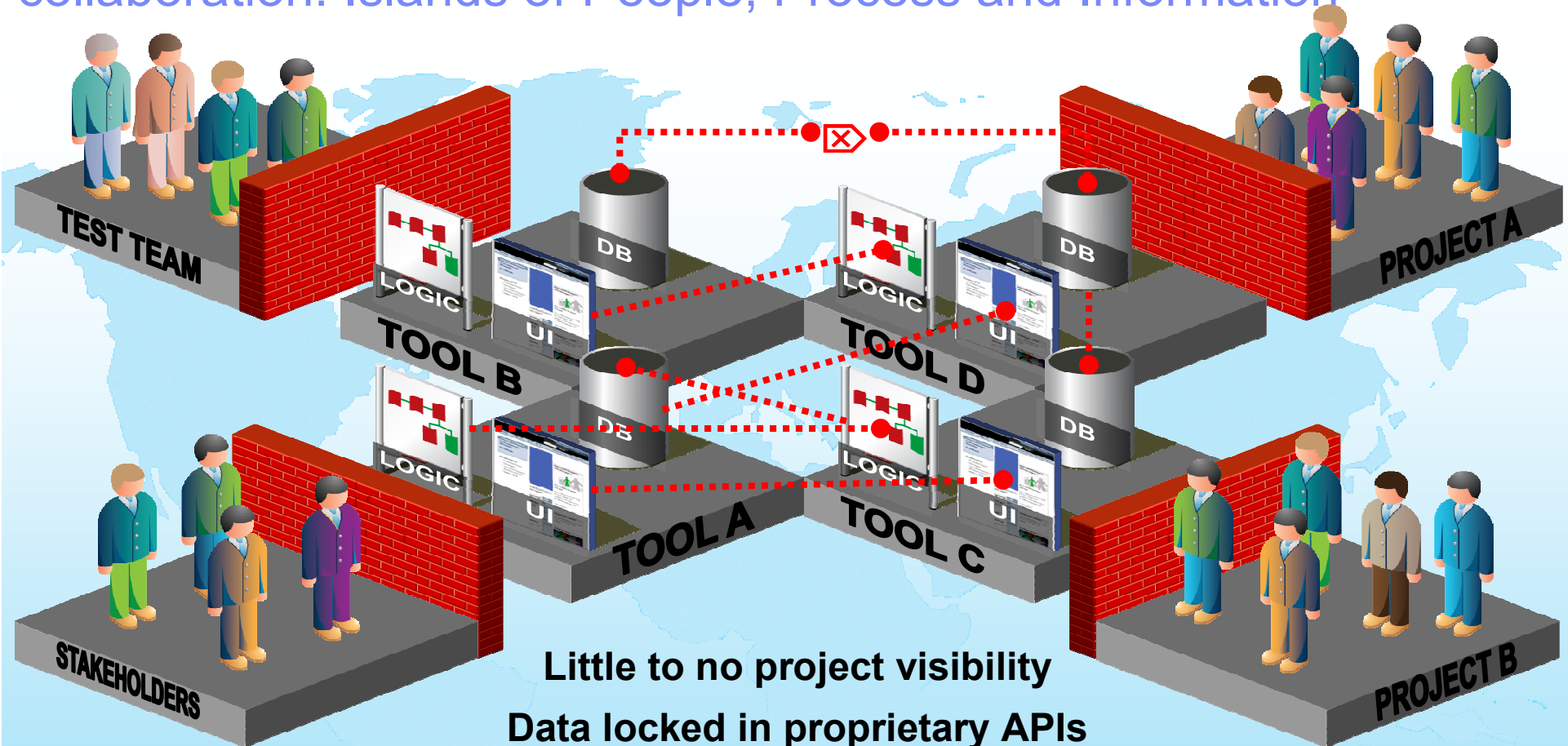
- Forrester estimates that ongoing operations and maintenance consume **66%** of IT budgets
- While new projects and software initiatives represent only **34%**



Challenges with becoming more Agile



Traditional software delivery environments limit productive collaboration: Islands of People, Process and Information



Little to no project visibility

Data locked in proprietary APIs

Poor process and workflow integration

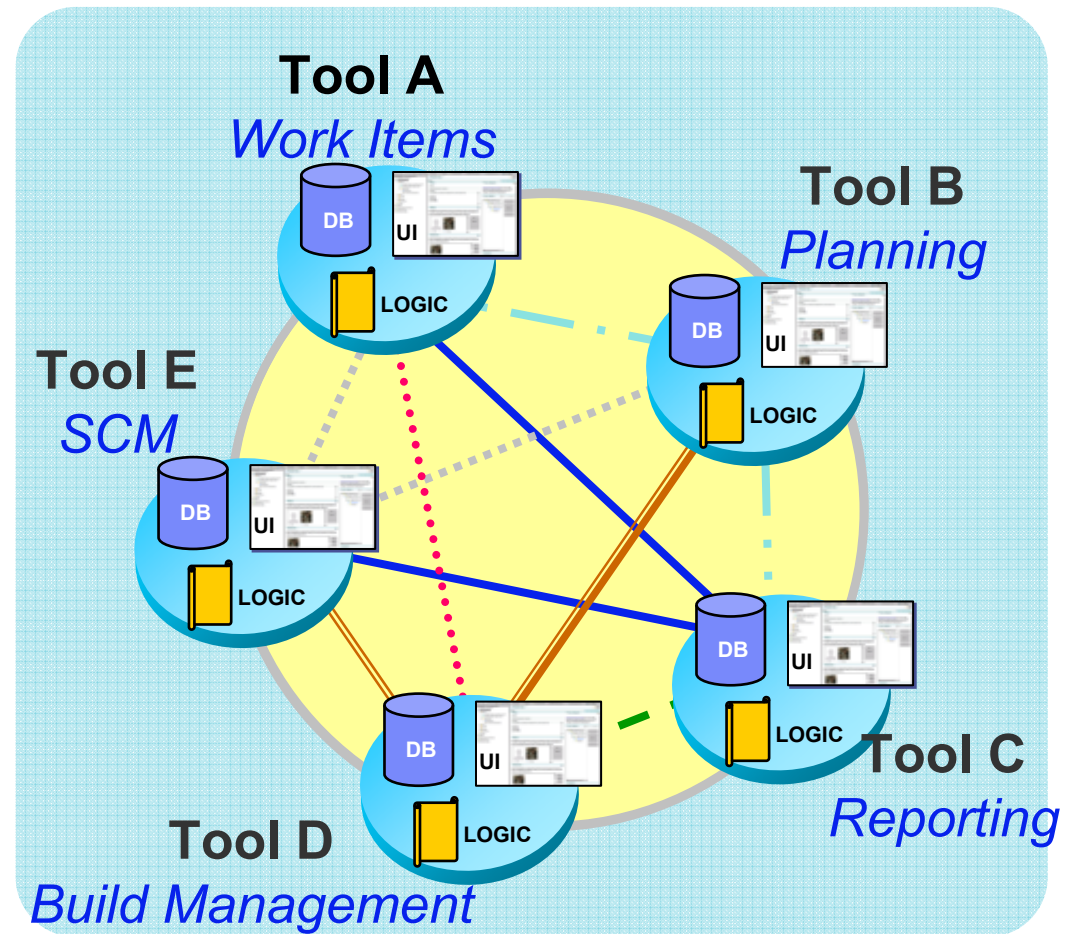
High maintenance and administration costs

Persistent functional, geographic and organizational silos



Our customers have invested in a diverse set of ALM tools...

- Traditionally, each tool came with its own
 - ▶ UI - Web and desktop presentations of views and tasks
 - ▶ Logic – Workflow, process, search, query, scale, security and collaboration
 - ▶ Storage – Availability, traceability
 - ▶ Privacy, backup/archive
- Resulting in...
 - ▶ Brittle integrations
 - ▶ Silos everywhere
 - ▶ High cost to maintain and administer
 - ▶ Proprietary API's

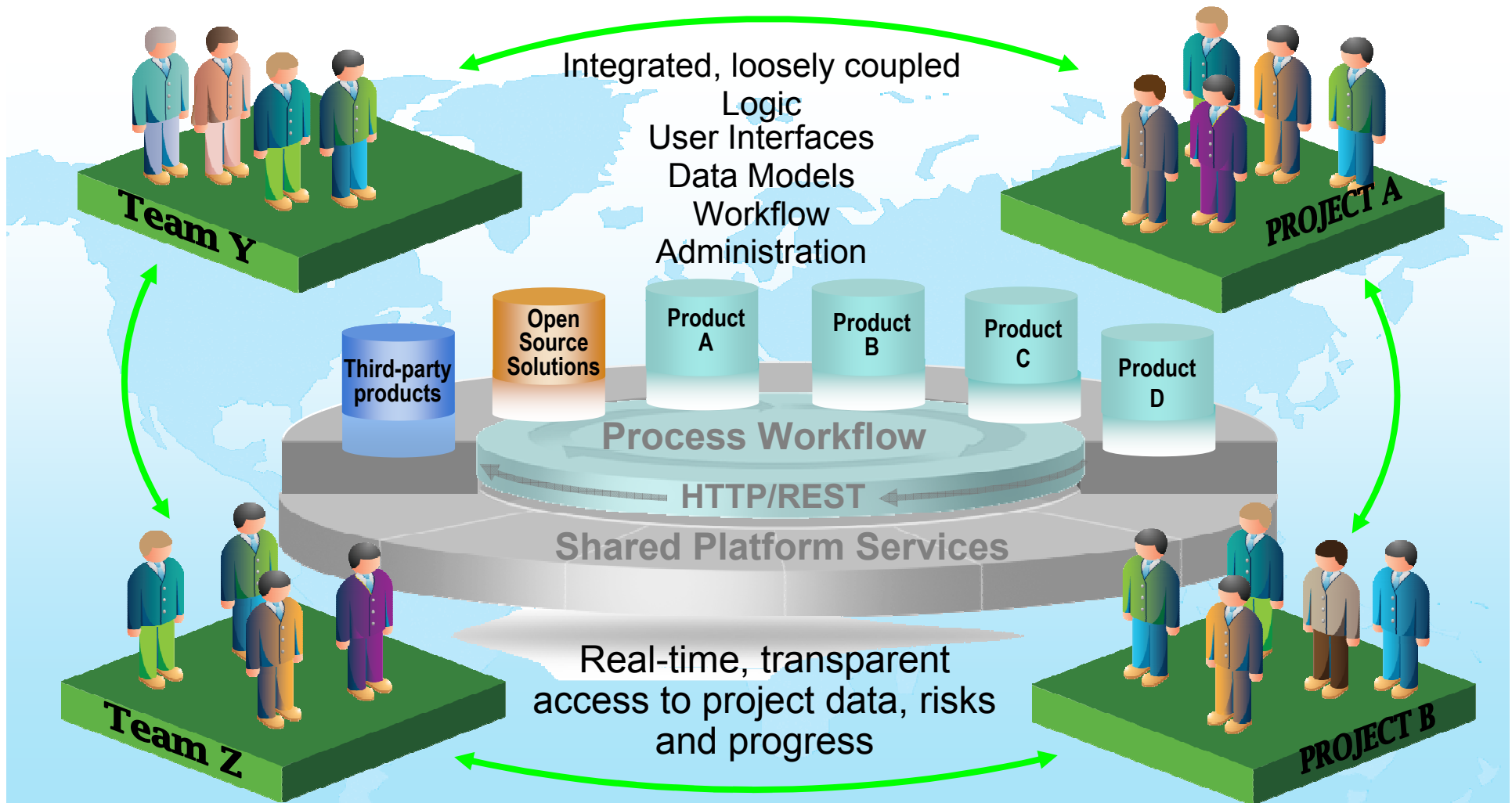


How do you solve this?



Jazz:

A platform for software integration and collaboration



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1 Business Challenges

2 Rational Overview

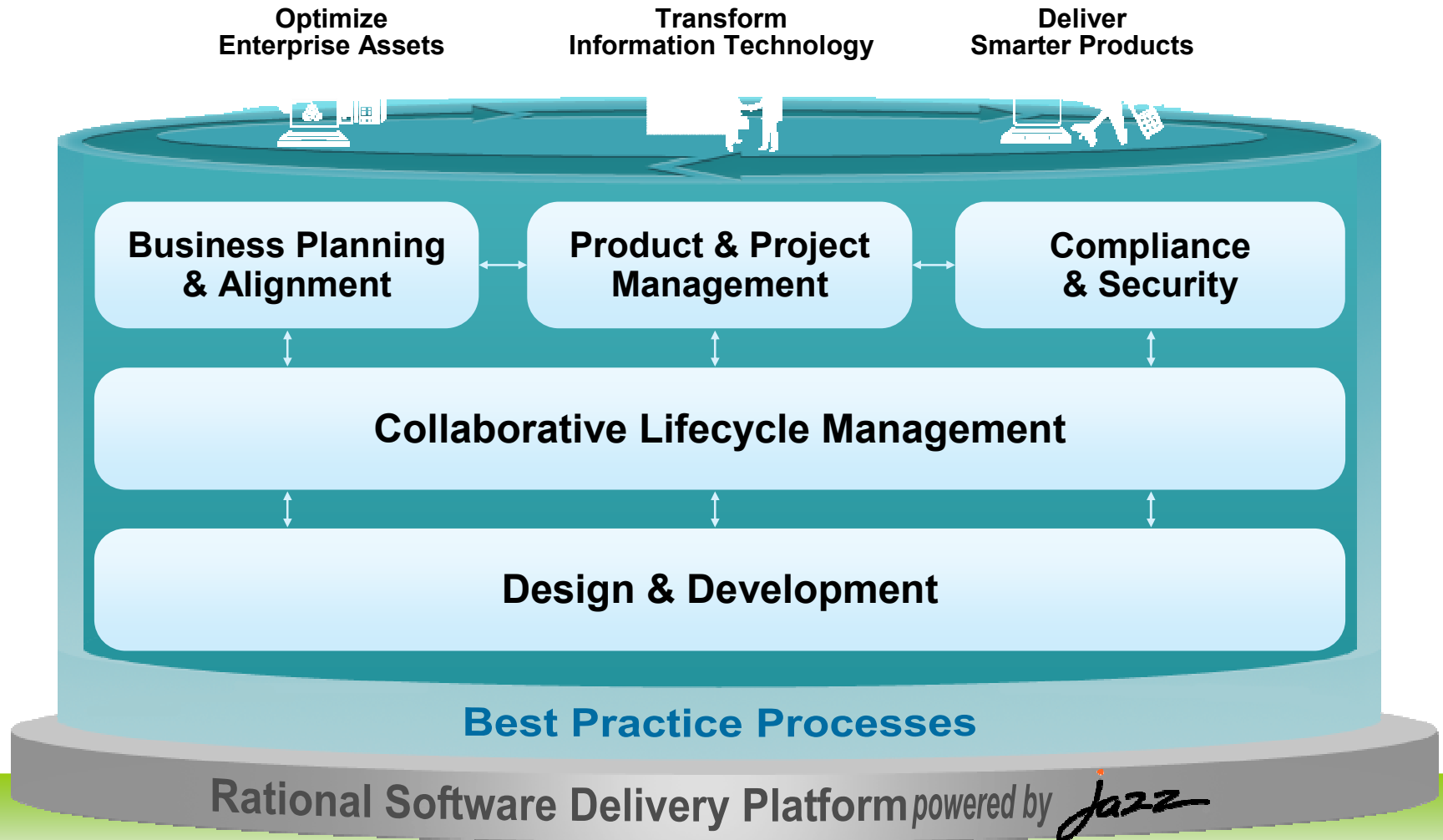
3 ALM Business Imperatives – Our Value

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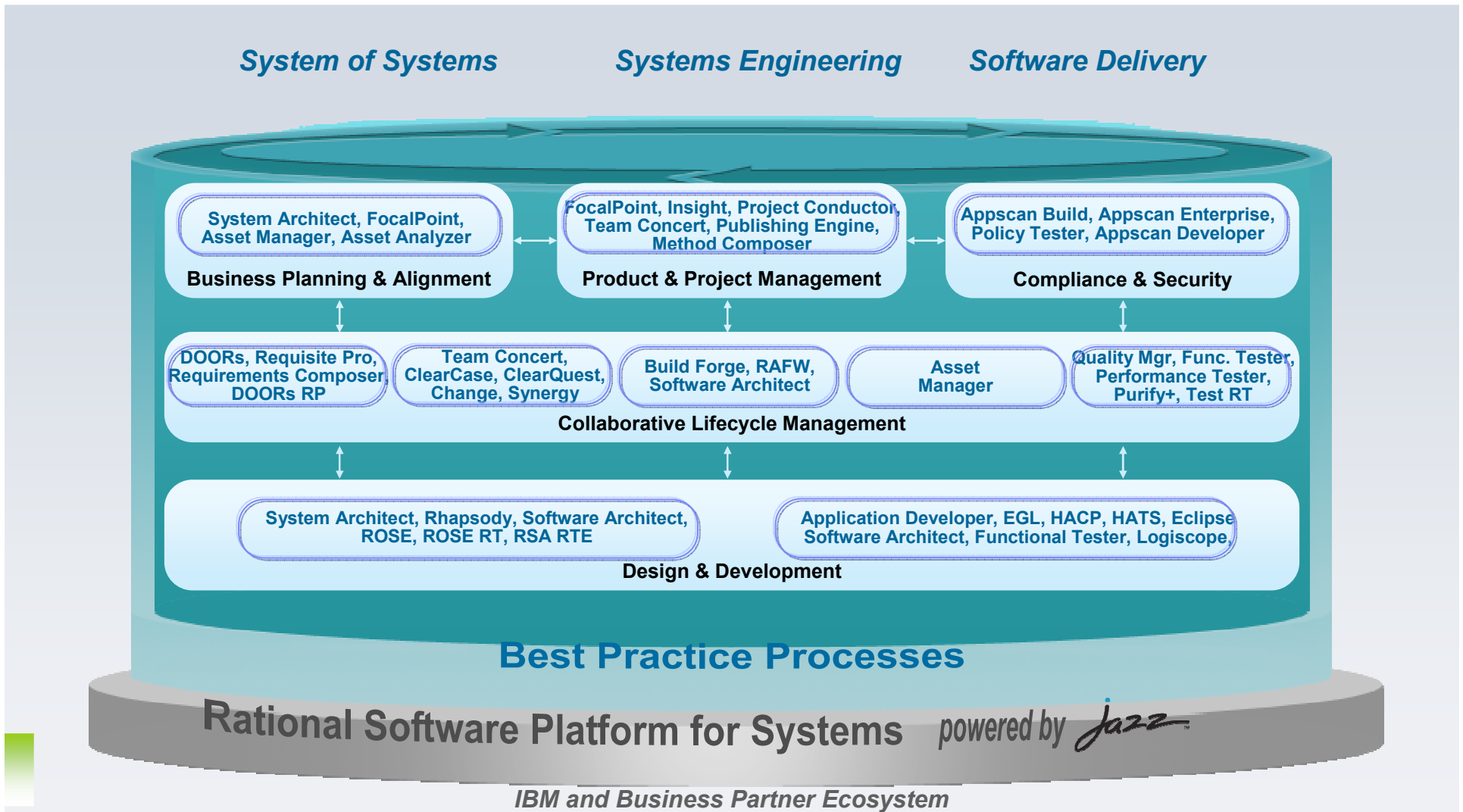
Rational software for managing product and software delivery



IBM and Business Partner Ecosystem

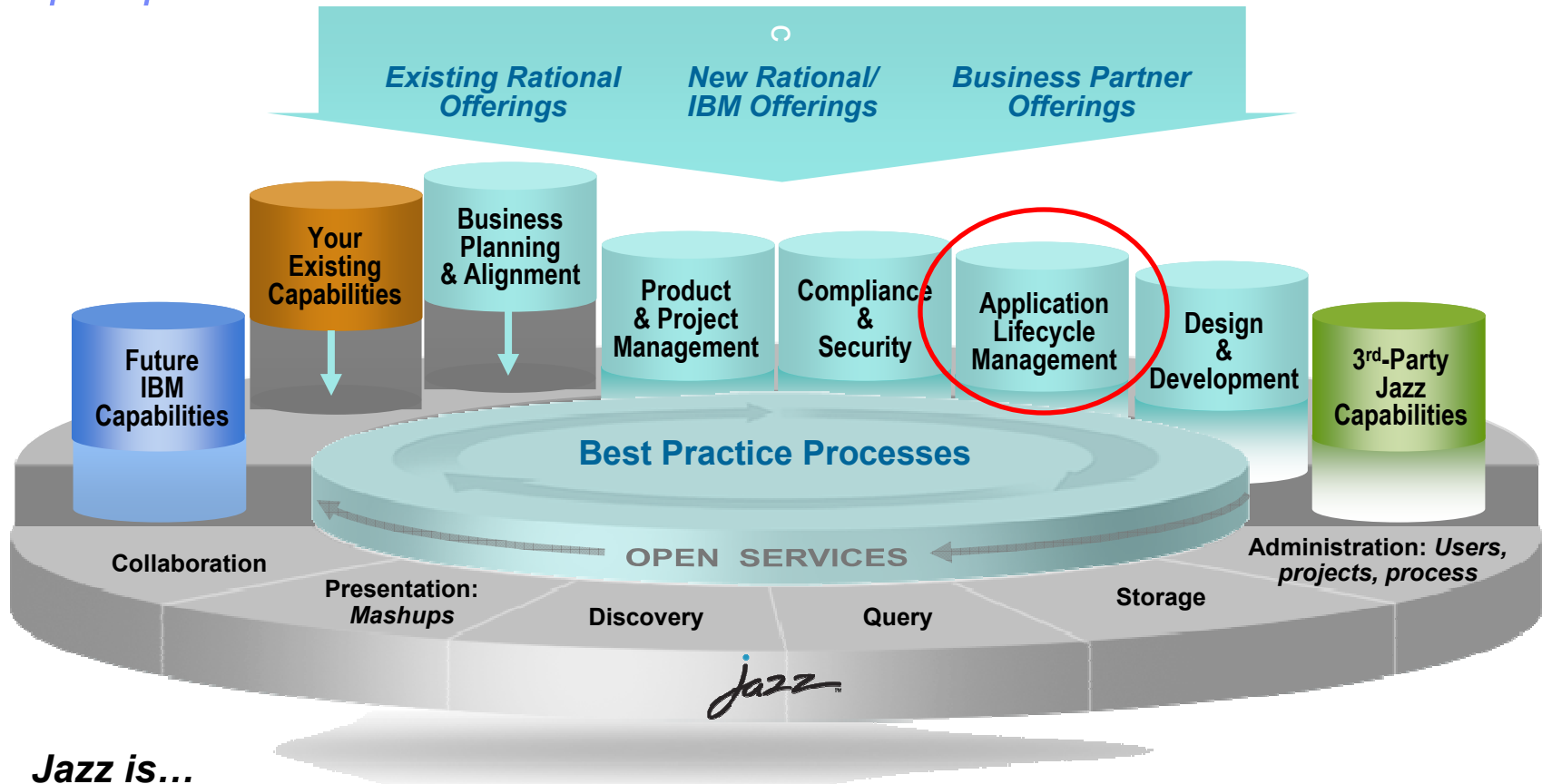


And Rational's Product Offerings



Rational Team Concert is based on Jazz

An open platform with a shared set of services



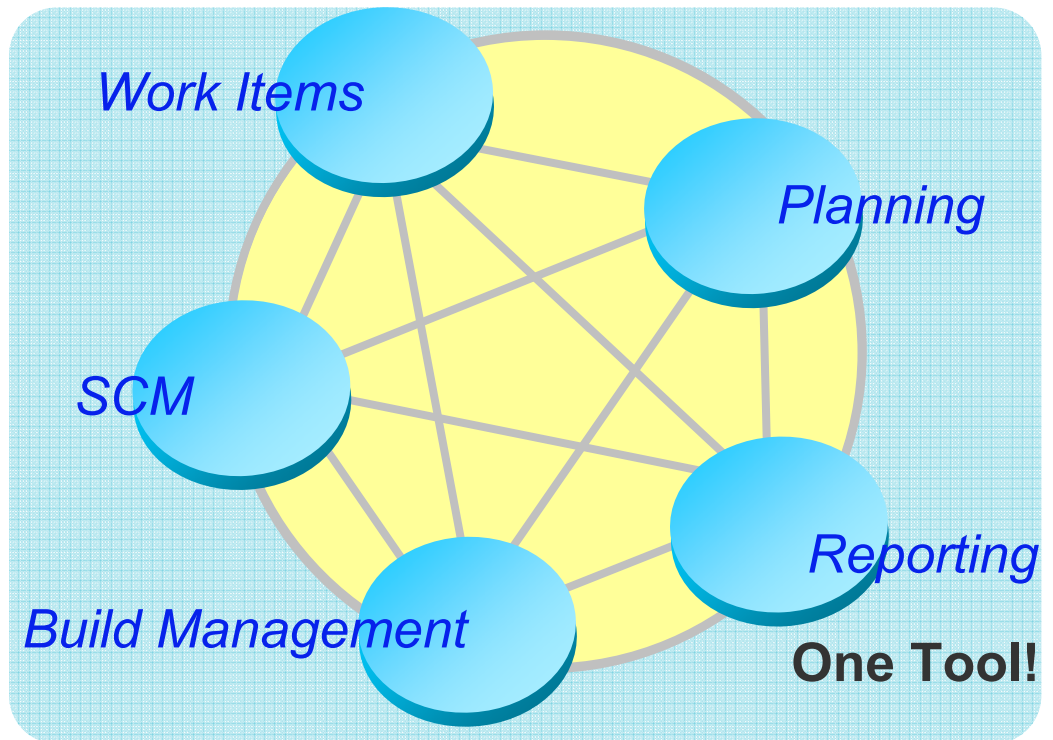
Jazz is...

- A scalable, extensible team collaboration platform
- A community at Jazz.net, where you can see Jazz-based products built in the open
- An open architecture for lifecycle integration (OSLC - www.open-services.net)

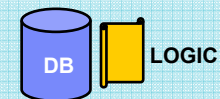
Rational Team Concert provides ...

- Unified Work Items, Planning, SCM, Build Mgmt, Reporting
- Single UI, storage and process
- Reduces Cost of Ownership
 - ▶ Administrative costs
 - ▶ Training/Adoption
 - ▶ Customizations

A unified client



With unified storage



Rational Team Concert: A Closer Look

Planning

- Integrated release/iteration planning
- Effort estimation & progress tracking taskboards
- Out of the box process templates: formal or agile

Project Transparency

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

SCM

- Component based SCM enables reuse across projects
- Change set based for easy addition or removal of features
- Server-based sandboxes
- Can also work with SVN, Git, ClearCase or Synergy

Work Items

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

Build

- Automated work item and change set traceability
- Build definitions for team and personal builds
- Local or remote build servers
- Multi-level continuous integration
- Integration with Build Forge

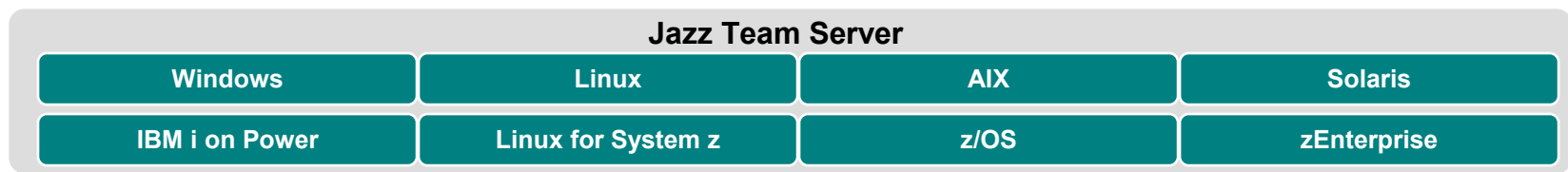
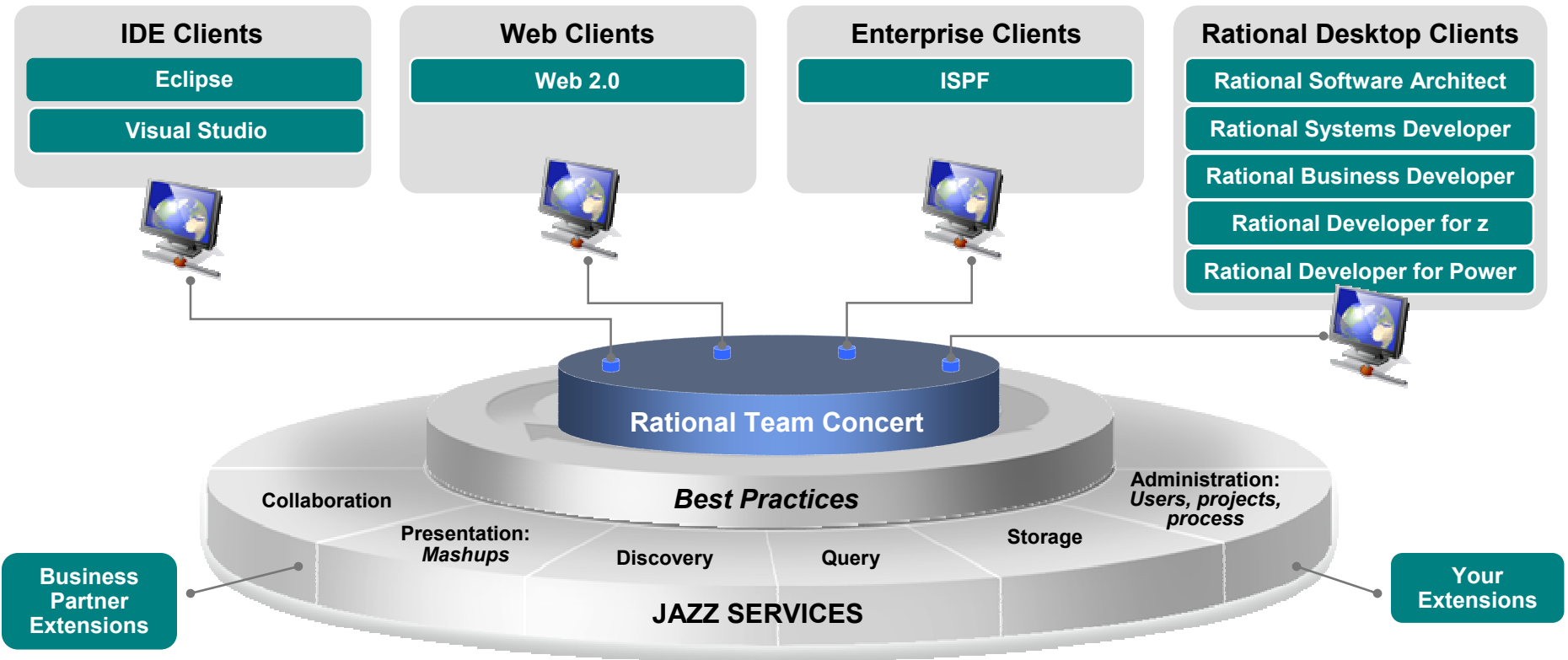
Jazz Team Server

- Single structure for project related artifacts
- World-class team on-boarding / offboarding 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



Rational Team Concert - an open, extensible architecture

Supporting a broad range of desktop clients, IDE's, languages and platforms



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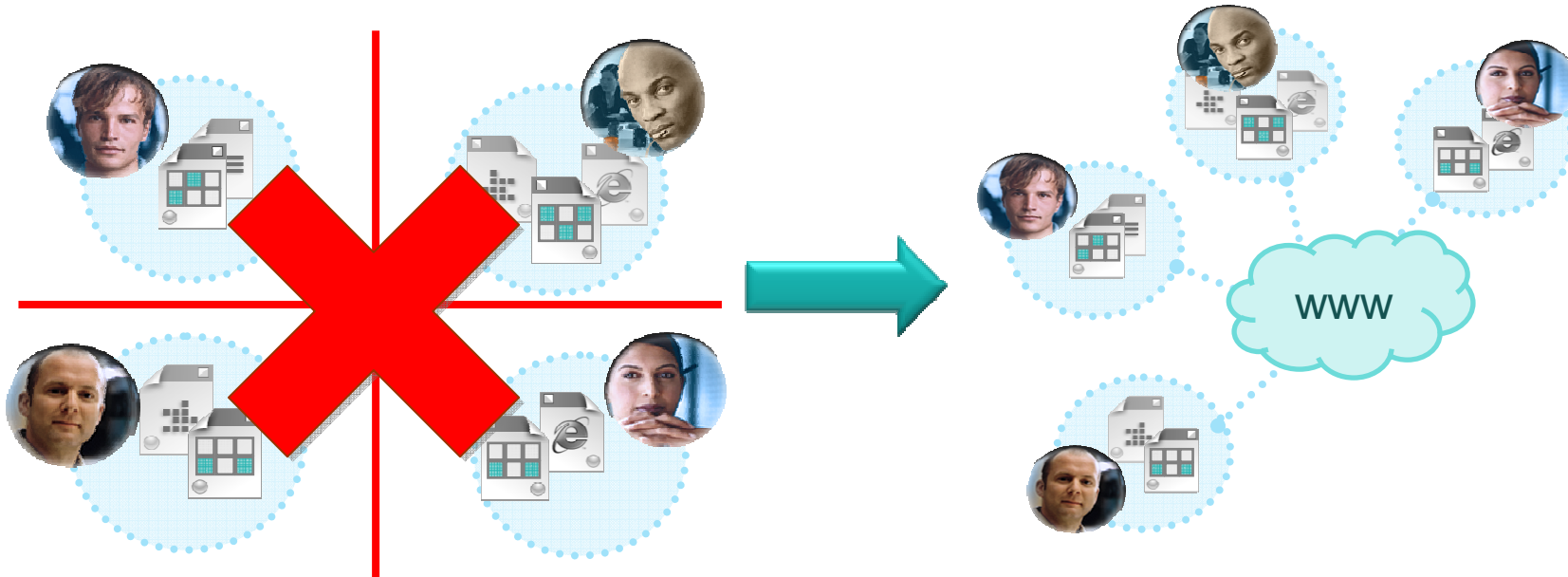
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Team collaboration across silos

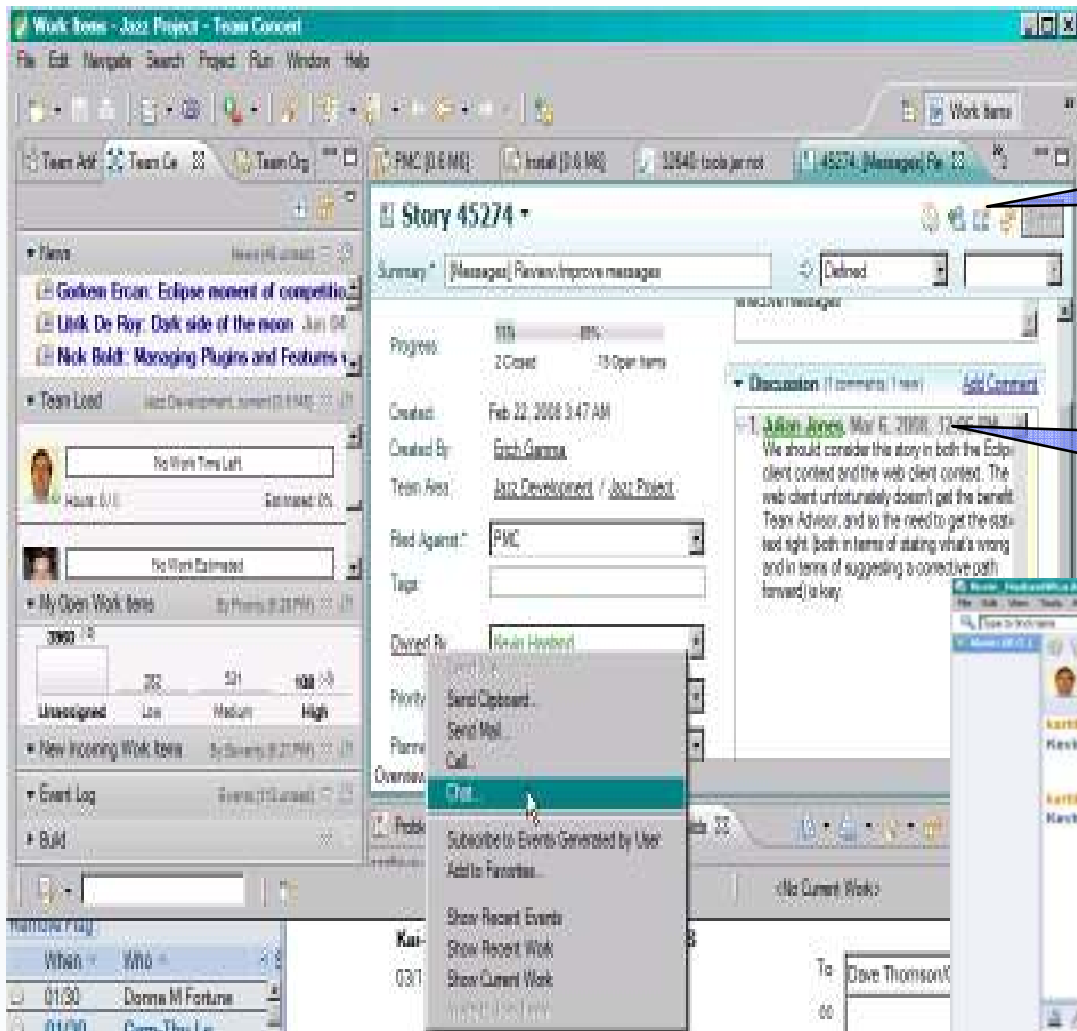


- Silo'd teams; disconnected data
- Important discussions are lost to email - project records are missing the “real reason” for decisions
- Unified team shares linked data
- ALM environment tracks what is important for delivering
- “Am I blocking others”
- “Are others waiting for my approval”

Every artifact is a web link. Traceability is automated as you perform work. Empower teams AND provide flexibility to utilize resources from anywhere.



Collaborate in real-time and in context of project work - maximize progress

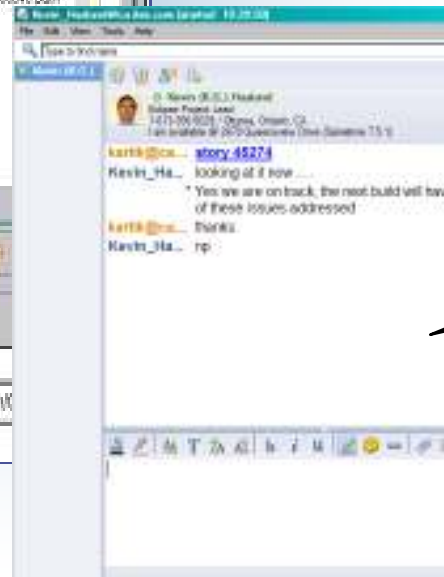


Avoid Duplication

- Find potential duplicates
- Subscribe team members
- Move / Copy work between projects

Team Awareness

- Shows team members and their online status
- Discussions kept with work for all time



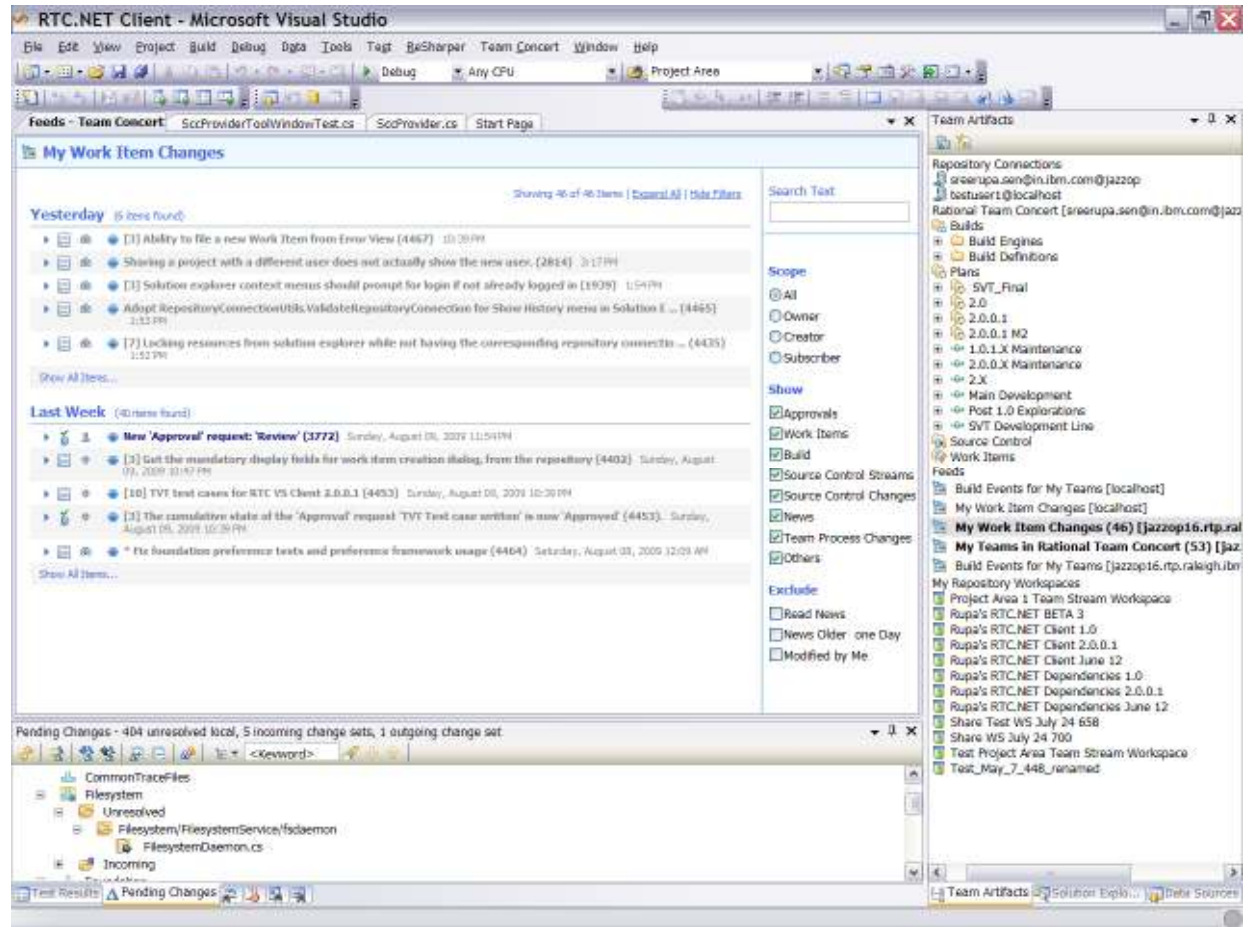
Change Awareness

- Automatically links to changes if mentioned in chat
- Drag and drop any work item or query into chat

Markus Kent mentioned you in: JUnit4 should detect and report if it cannot invoke a method (38)

Provide transparency and focus to what matters to you

- Create feeds for
 - ▶ work items, queries
 - ▶ builds, build definitions
 - ▶ team events
- A consolidated view of events in your team area/project area
- Feeds are available in both the Visual Studio and Eclipse IDE
- You can customize feeds by filtering



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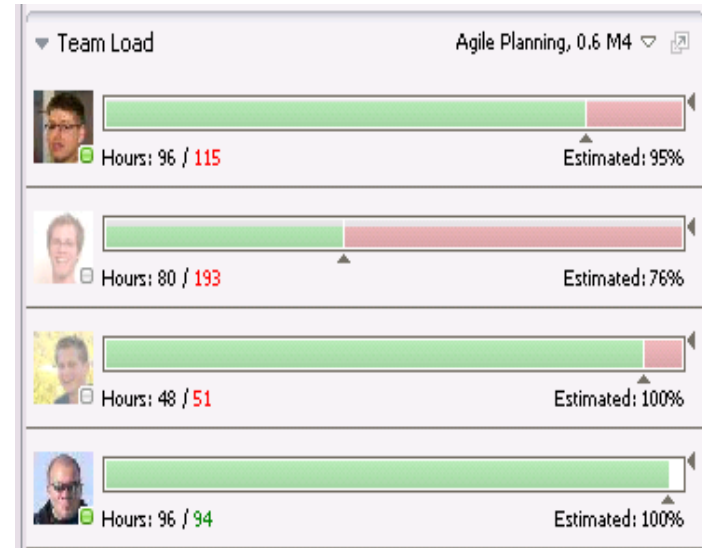
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- [Real-time dynamic planning](#)
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Real-time dynamic planning



- Plans live outside of ALM environment
- Manual, error-prone updates
- Separate from team activities and assignments

- Plans fully integrated with execution
- Continuous planning
- Instantly see the impact of changes to delivery dates

What is the impact of business trade-offs on our current delivery dates?



Create, manage, and prioritize your backlog – put your work in its place

The screenshot shows the Rational Team Concert web interface. The main content area displays the 'Product Backlog' for the 'Call Center' project. The backlog is viewed as a 'Ranked List' and contains 7 items. Each item is a task with a priority level, a point value, and an assigned release or sprint. A context menu is open over the 'Release 1.0' column, showing options for 'Release 1.0', 'Sprint 3', 'Sprint 4', and 'Backlog'.

Task	Priority	Points	Release/Sprint	Points
Voice recordings don't activate during holidays	High	-	Release 1.0	151
Activate call recording automatically based on a voice queue	High	20 pts	Backlog	150
Control the dashboards with a remote control	High	20 pts	Release 1.0	149
Provide a mechanism to block return calls	Medium	8 pts	Sprint 3	147
Phone login can timeout when network drops a packet	Medium	-	Sprint 4	152
Allow caller ids to be blocked when temp workers are helping out	Low	13 pts	Backlog	148
Control of call forwarding to another specialist is too slow	Low	-	Backlog	153

See and manage the big picture for releases, roll up progress and work load

The screenshot displays the Rational Team Concert web interface. At the top, the browser address bar shows the URL: `https://localhost:9443/jazz/web/projects/Call%20Center#action=com.ibm.team.appt.viewPlan&page=viewMo`. The page title is "Rational Team Concert" and the user is logged in as "Jean-Michel Lemieux".

The main content area shows a project plan for "Call Center 1.0". The plan is titled "Call Center 1.0" and has a progress bar showing "Progress: 121/327 pts" and "Estimated: 100%". The plan is owned by "Call Center" and is for "Iteration: Release 1.0 (10/20/09 - 11/29/09)". There are 15 closed items and 23 open items.

The plan is viewed as "Iterations". Below the plan, there is a table of work items for "Release 1.0". The table has columns for "Item", "Points", "Hours", "Status", "Assignee", and "Points".

Item	Points	Hours	Status	Assignee	Points
Prepare sample data for call demos	5 pts	0/27 h	New	Unassigned	144
Allow home handlers to call in and take calls	100 pts	--	New	Jennifer Guinness	84
Send thank you notices to Facebook accounts	8 pts	--	New	Markus Kent	115
Allow voice note talking for customer accounts instead of typing in messages	20 pts	--	New	Bill Cassavelli	116
Allow concurrent modification of non-conflicting users settings	20 pts	--	New	Unassigned	131
Provide bundle options based on customer loyalty	13 pts	--	New	Unassigned	132
Need more build servers for continuous integration			New	Jean-Michel Lemieux	101
Report doesn't consider dial tone differences			Done	Unassigned	100
Call forwarding broken in latest build			Done	Unassigned	90
Allow adding calls to the dashboard	0 pts	0/0 h	New	Unassigned	158
Task 1			New	Unassigned	159

Below the "Release 1.0" section, there is a section for "Sprint 1 (1.0)" with 4 closed items and 0 open items. The progress bar shows "Progress: 71/71 pts" and "Estimated: --".

Team and project work breakdown - easily rebalance and self organize

Plan: Sprint 3 [Sprint 3] - IBM Rati... Rational Team Concert - Call Centre

Rational Team Concert Jean-Michel Lemieux | Log Out

Dashboards Project Areas Work Items **Plans** Source Control Builds Reports Admin | Call Center

Plans Related to Timeline 'Main Development [Project Timeline]' >

Previous | 4 of 5 | Next

Sprint 3

Owner: Call Center | Iteration: Sprint 3 (11/30/09 - 1/15/10) | 5 Closed | 19 Open

Overview | **Planned Items** | Charts

Progress: 36/171 | -51.75 h Estimated: 79%

View As: Work Breakdown

Team Member	Task	Duration	Status	Priority	Estimate
Jean-Michel Lemieux Closed Items: 1 Open Items: 6 Load: 57/132.75 +75.5 h Estimated: 83%					
	Backport call hang-up fix to Sprint 1	-	New	High	157
	Fix up unit tests to avoid having to re-initialize for each suite	2 days	New	High	156
	Update blocked listed table	5 minutes	New	High	155
	Prepare sample data for call demos	0/27 h	New	Medium	144
	Problem with build I20091217-1336	4 hours	Done	High	143
	Adding new content to the server	2 days	New	High	140
Jennifer Ginness Closed Items: 1 Open Items: 6 Load: 32/132.75 +100.75 h Estimated: 67%					
	Prepare sample data for call demos	0/27 h	New	Medium	144
	Allow adding features via addons that can be added to a running call center application	32/64 h	In Progress	High	87
	Allow home handlers to call in and take calls	-	New	High	84
Markus Kent Closed Items: 0 Open Items: 3 Load: 44/132.75 +88.75 h Estimated: 100%					

Personal planning at the developers fingertips

The screenshot shows the Rational Team Concert IDE interface. The main window displays a work plan for 'Tomorrow (16 items)'. The tasks listed include:

- Document the ScriptEngine (ID: 112030)
- Document the View Model (ID: 112032)
- Plan view column configuration: Cursor keys don't work on combos
- "Associated Project/Team Area" dialog does not work on non IE browser
- Pressing enter on a work item link does not work
- GroupProgress and Load doesn't listen on plan metadata changes
- Assertion failure when switching to work breakdown mode in product backlog
- ApiEnumConstructorFunction leaked from plan editor
- Progress Bar for a plan artifact is not showing up on thick client and web ui
- Adding a column triggers a complete recreation of the viewer
- Allignment problems under IE7 (ID: 129482)
- Twisty shown, but children are filtered (ID: 130350)
- Dragging the gantt bar is not changing the finish date and throwing multiple errors in firebug console. (ID: 134255)
- Gantt arrow doesnot start from the end point for tasks with 1d/2d duration in the default view (ID: 137632)

A context menu is open over the task 'Plan view column configuration: Cursor keys don't work on combos', showing time estimation options: 30 minutes, 1 hour, 2 hours, 4 hours (selected), 1 day, 2 days, 3 days, 1 week, No Estimate, and More...

- Developers plan personal work inside their IDE
- Easy update of plan related information
- More accurate and more up to date plans

Make it simple for developers to estimate and prioritize work

Support for traditional development processes



- A new “Formal project management process template” for waterfall development
 - ▶ Single Timeline, Enhanced Scheduling
 - ▶ Gantt Charts and Critical Paths
 - ▶ Risk and Risk Actions
 - ▶ MS-Project Import/Export

Timelines

The project timeline defines a start and end date along with an iteration breakdown. Additional timelines can be defined to track secondary activities.

- Main Development [Project Timeline]
 - Release 1.0 [5/10/10 - 8/8/10]
 - Requirements [5/10/10 - 6/9/10]
 - Design
 - Implementation
 - Testing
 - Backlog

Buttons: Edit Properties..., Duplicate..., Create Timeline..., Create Iteration..., Delete...

Formal Project Template

Work Item types

- Defect
- Task
- Change Request
- Issue
- Plan Item
- Risk
- Risk Action

Risk Work Item

Overview | Links | Approvals | History

Details

Type: Risk
 Creation Date: Jun 1, 2010 11:58 AM
 Created By: ADMIN
 Project Area: Formal Project Management Project
 Team Area: Development
 Filed Against: Development
 Tags:
 Owned By: Unassigned
 Priority: Unassigned
 Risk Category: Cost Control
 Identification Date:
 Occurrence Date:

Probability: 40% - Unlikely
 Impact: Major
 Exposure(%): 24
 Probabilty(%)
 100
 80
 60
 40
 20
 20 40 60 80 100
 (Impact%)

Consequence Cost: 0
 Probability Cost: 0
 Precision: Medium

Risk Work Item

Planned Items | Links | Snapshots | Resources | Notes

View As: Work Breakdown and Schedule

Progress: 0:53 h | Estimated: 100%

Actions	Summary	Estimate	Constraint Type	Constraint Date	Predecessor	Id	9/10	9/5/10	9/12/10	9/19/10	9/26/10	Priority
T3		2.2 days	As Soon As Possible	--	--	11						High
T2		1 day	As Soon As Possible	--	--	10						Medium
T1		3.4 days	As Soon As Possible	--	--	9						Low

Actions	Summary	Estimate	Constraint Type	Constraint Date	Predecessor	Id	9/10	9/5/10	9/12/10	9/19/10	9/26/10	Priority
T4		1 week	As Soon As Possible	--	--	37						Unassign

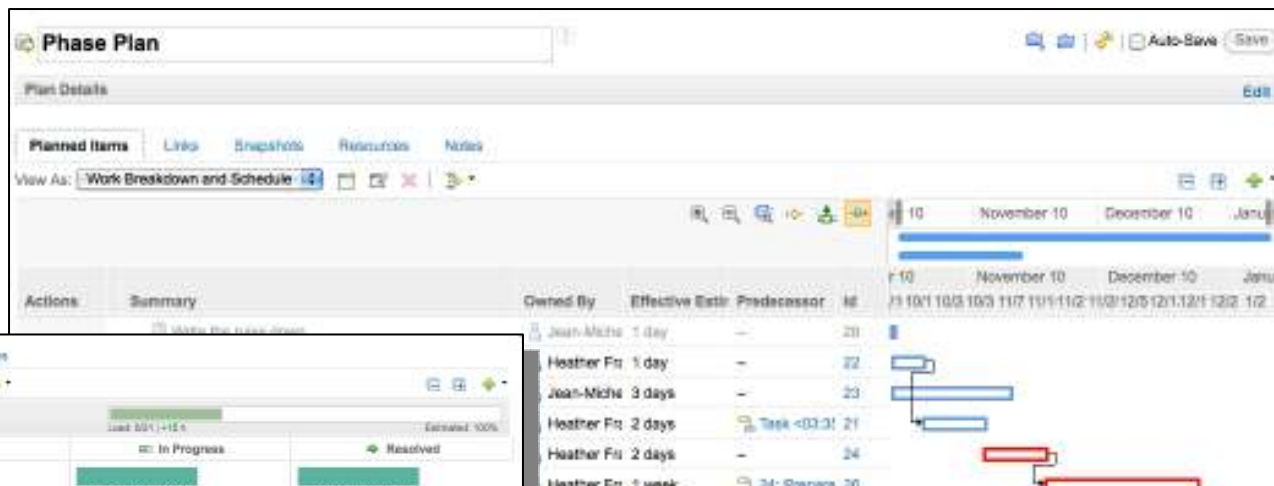
Gantt Chart with Critical Path



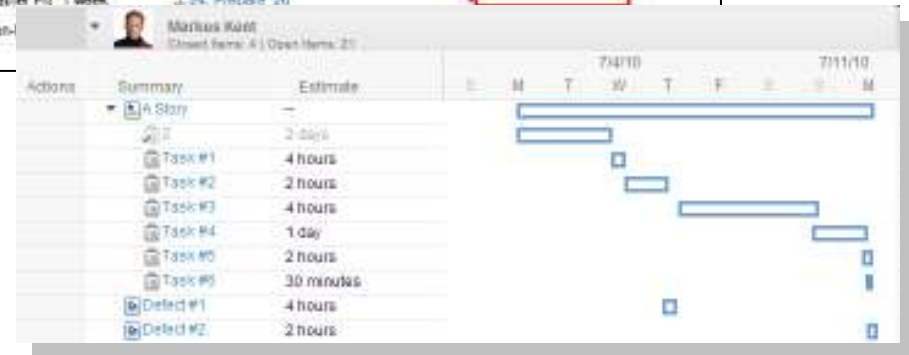
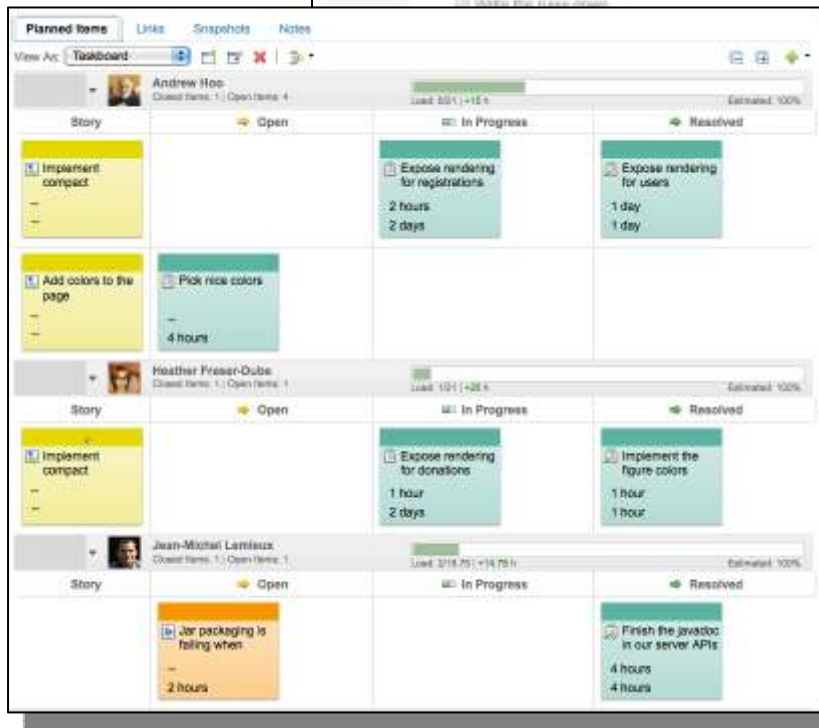
Provide both agile and traditional views on a plan



Gantt charts



Taskboards



Roadmap charts

Support any planning method
Enable success w/ transparency



Resource Allocation and Scheduling



Resource Allocation

- ▶ Search and add a resource to your plan based on availability
- ▶ You can now allocate ranges of availability to a project or team.

The screenshot shows the 'Phase Plan' interface with a 'Resources' tab selected. A resource named 'Heather Fraser-Dube' is listed with an allocation of 20%. An 'Add Users' dialog box is open, allowing the user to search for resources based on start date, end date, and hours required. The search criteria are set to start on 10/15/2010, end on 11/26/2010, and require 80 hours. The results show 'Andrew Hoo' with 100% allocation and 80.00 available hours for the period Oct 15, 2010 - Oct 26, 2010.

Work Allocations

Associate resources to teams and timelines:

Team	Allocation	Allocation Dates	Actions
Agile Project		(No Date Restriction)	
-B+ Main Development *	16 %	(No Date Restriction)	
Analysis		Oct 11, 2010 - Nov 26, 2010	
-B+ Main Development	5 - 16 %	Oct 11, 2010 - Nov 26, 2010	
└ Allocation	16 %	Oct 11, 2010 - Nov 15, 2010	
└ Allocation *	5 %	Nov 15, 2010 - Nov 26, 2010	



Plan Snapshots - Compare plans over time



How has my plan changed over time?

- ▶ What is the quality of our planning?
- ▶ Did we make our date because we changed the plan and/or our estimates?

Planned Items Links **Snapshots** Resources Notes

[Back to Snapshots](#)

	Comparison - Oct 15, 2010 4:53:52 AM	End - Oct 15, 2010 4:53:45 AM	Start - Oct 15, 2010 4:44:47 AM
Overview			
Start Date	0	Oct 15, 2010	Oct 15, 2010
End Date	8 weeks 3 days 1 hour	Oct 25, 2010	Dec 23, 2010
Work Items Total	2	5	7
New	2	4	6
In Progress	0	0	0
Closed	0	1	1
Work Done	6 hours	1 day	1 day 6 hours
Work Estimated	2 weeks 2 days 4 hours	2 days 4 hours	3 weeks
Progress	-	8/20 h <input type="text" value=""/>	100% 14/120 h <input type="text" value=""/>
Work Items			
	Modified Items	Added Items	Removed Items
	Write the requirements	-	Create the schedule for the team
	Add more items to our list	-	WAN access from WTP site is slow - need to
	Setup more work for the team	-	-
	Prepare the milestone plans	-	-



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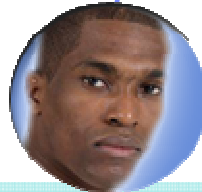
Process awareness

Making process executable and repeatable



Process Architect

**Step 1:
Customize**



Project Manager

**Step 2:
Enact**

Variant #1

Scrum

Variant #2

Iterative

Variant #3

Waterfall

Project A

Agile

Product Owner

Scrum Master

Team Member

Project B

Iterative

Analyst

Developer

Quality Professional

Release Engineer

Project C

Waterfall

Analyst

Developer

Quality Professional

Release Engineer

Work Items | Plans | Source Control | Build

- Welcome to Work Items
- Queries
 - My Queries
 - Shared Queries
- Create Query
 - New Query
- Create Work Item
 - Defect
 - Task
 - Story
 - Epic
 - Track Build Item
 - Impediment
 - Adoption Item
 - Retrospective
- Create Work Item Set
 - Create from Template

Scrum agile template

Work Items | Plans | Source Control | Builds

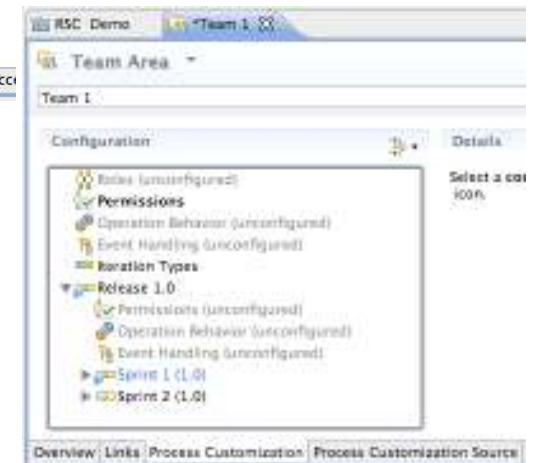
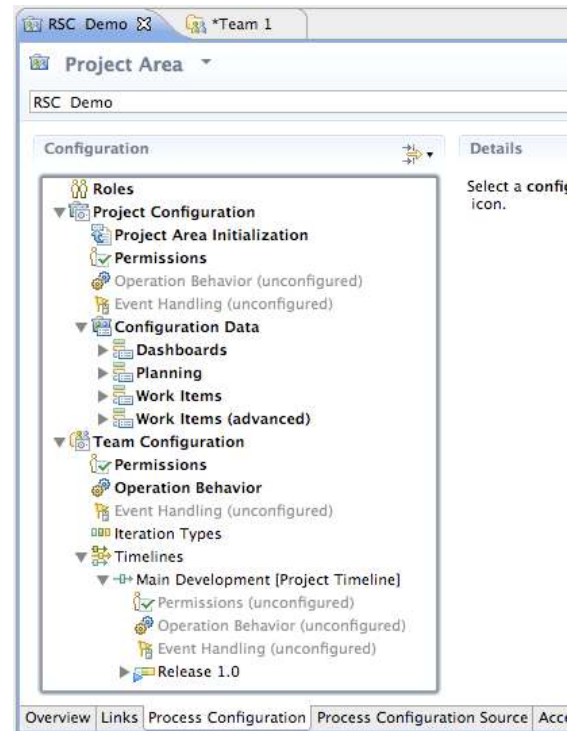
- Welcome to Work Items
- Queries
 - My Queries
 - Shared Queries
- Create Query
 - Create Query
- Create Work Item
 - Defect
 - Task
 - Project Change Request
 - Issue
 - Business Need
 - Risk
 - Risk Action
 - Milestone
- Create Work Item Set
 - Create From Template...

Formal project mgt template



Project and team security and process control that adjusts to your projects progression

- **Role based security**
 - ▶ Establish permissions and controls for the roles on your project
- **Project level security and configuration**
 - ▶ Configure the process and security controls for the entire project
- **Team level security and configuration**
 - ▶ Give teams security and configuration rights so they can take control of their unique needs
- **Timeline / Iteration level control and configuration**
 - ▶ Dynamically adjust the permissions and operations for your project based on the iteration / timeline



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Transparency and Status for Everyone

Every stakeholder knows project status without having to ask

Jazz Project Description

Process enabled team collaboration platform

The goal of the Jazz project is to build a scalable, extensible team collaboration platform for seamlessly integrating tasks across the software lifecycle. The new technology is called the Jazz Platform. The Jazz project is defining the overall architecture of the Jazz Platform, and building an initial set of Jazz components that plug in to the Jazz Platform.

The work in the Jazz project is divided into development work and maintenance work. Development work produces a consecutive line of releases. Maintenance work produces bug fix releases of the released produced by the development work.

Development as well as maintenance work is overseen by the PMC. The team members listed in this project area constitute the PMC.

Jazz Project Members (11)

- CQ Connector Account connector
- Dejan Glozic dashboardadmin
- Erich Gamma dashboardadmin, projectadmin, PMC, contributor
- Jean-Michel Lemieux dashboardadmin, projectadmin, PMC, contributor
- John Vasta connectoradmin
- Kai-Uwe Maetzel PMC, contributor
- Kevin Haaland PMC, contributor
- Kim Moir projectadmin
- Peter Klenk PMC, contributor
- Scott Rich PMC, contributor

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Jazz Project

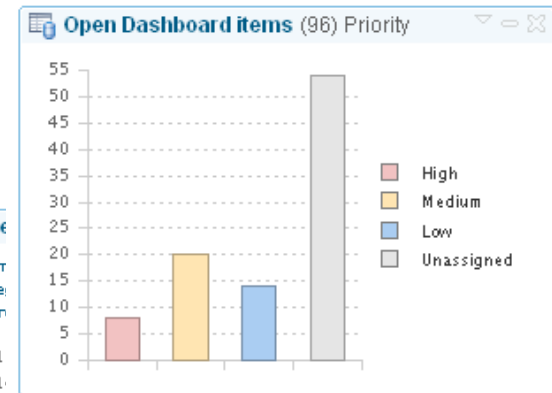
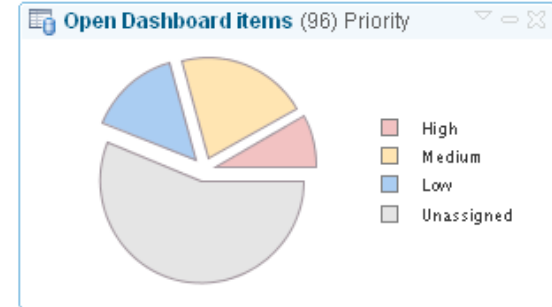
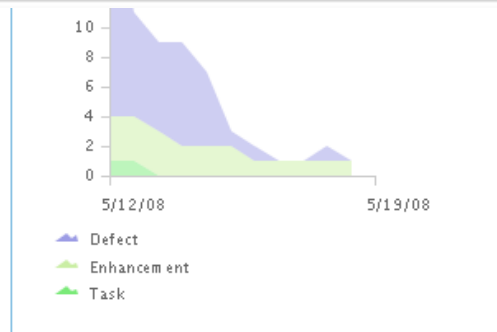
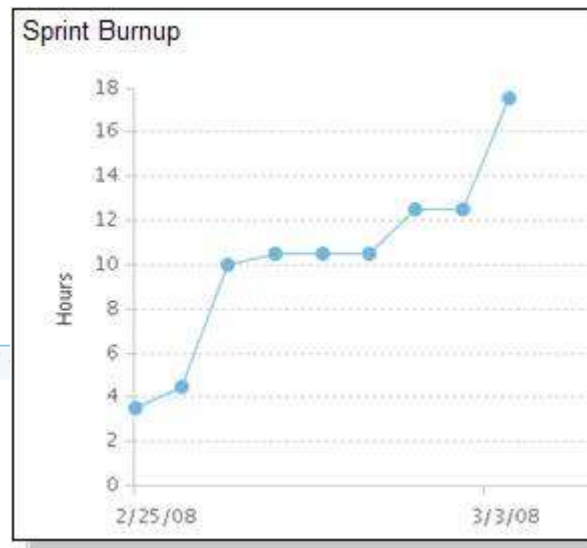
- Jazz Devel
- Agile P
- Build
- ClearC
- ClearQ
- Comm
- Dashb
- Develo
- Improv
- Incubat
- Install
- Jumps
- Proces
- Releas
- Report
- Reposi
- Source
- System
- UI Des
- User A
- Web UI
- Work It
- X-Team
- Jazz Maint

Open vs Closed Work Items

Team Area: /Jazz Development/Dashboard
 Category: Dashboards
 Interval: 0.6 RC3

5/12/08 5/19/08

Open Closed



Open Dashboard items (96) Priority

High(8) Medium(20) Low(14)
Unassigned(54)

Open Dashboard items (96) Priority

Priority	Count
High	8
Medium	20
Low	14
Unassigned	54



Automated dashboards

- Role based dashboards - Personal, Team, Project dashboards
- Dashboards populated with data from across the silos
- Review status on-line – Stay informed – Automated Project Status w/o having to ask.

Personal Dashboard

eg's Dashboard

General

About eg

Name: eg
User ID: eg
Email: eg@ch.ibm.com

Projects and teams

CD Classic (Quality Management) tester
JKE Banking leader

My Projects (7)

Change and Configuration Management (CCM) 100
CD Classic (Change Management)
JKE Banking
All Projects

Quality Management (QM) 100
CD Classic (Quality Management)
JKE Banking
All Projects

Requirements Management (RM) 100
JKE Business Recovery Matters
CD Classic (Requirements)
Demo (Requirements)

My Bookmarks

CLM Home Page
CLM Testing Script
jaz2.net

Team Dashboard

JKE Banking

Overview | 1.0 Planning | 1.0 Development | 1.0 Testing

Open Track Build Items (1)

36. Track Build for Sprint 2

Our Builds

Tags changed: jke dev (20101021-1314) Last Week
Failed: jke dev (20101021-1305) Last Week
Succeeded: jke dev (20101021-1302) Last Week

Open Stores for Current Sprint (8) Owned By

Member	Count
Unassigned	8

Open Work Items for Current Sprint (27) Severity

Severity	Count
Critical	1
Major	1
Normal	25
Minor	1

Standing Approvals (3)

43. SWT Exception
38. Retrospective for Sprint 2
36. Track Build for Sprint 2

Work Item Queries

Blocked Work Items (1)
Closed created by me (0)
Closed subscribed by me (0)
Defects affecting Stores (0)
Done Stores (5)
Done Tasks (5)
My current work (0)
New unassigned (0)
Open Assignments (0)
Open assigned to me (0)
Open assigned to me (current sprint) (0)
Open created by me (0)
Open Epics (0)
Open for Current Iteration (27)
Open Impediments (1)



Agile planning dashboard

The screenshot displays the Rational Team Concert Agile planning dashboard for a 'Call Centre' project. The interface includes a navigation bar with 'Dashboards', 'Project Areas', 'Work Items', 'Plans', 'Source Control', 'Builds', and 'Reports'. The current view is '1.0 Planning', with sub-tabs for 'Overview', '1.0 Planning', '1.0 Development', and '1.0 Testing'. The dashboard is divided into several sections:

- Open Impediments (1):** A list of impediments, including '101: Need more build servers for continuous integration'.
- Call Center Plans (5):** A section showing the current iteration as 'Sprint 3' and a progress bar for 'Call Center 1.0' across Sprints 1, 2, and 3.
- Story Points By Iteration:** A bar chart showing story points across iterations, with a value of 71.0.
- Stories Blocked (1):** A list of blocked stories, including '144: Prepare sample data for call demos'.
- Stories In Progress (1):** A list of stories in progress, including '87: Allow adding features via addons that can be added to a running call center application'.
- Stories that haven't been started (11):** A list of 11 stories that have not yet started, including '150: Activate call recording automatically based on a voice queue', '149: Control the dashboards with a remote control', '148: Allow caller ids to be blocked when temp workers are helping out', '147: Provide a mechanism to block return calls', '144: Prepare sample data for call demos', '132: Provide bundle options based on customer loyalty', '131: Allow concurrent modification of non-conflicting users settings', '116: Allow voice note talking for customer accounts instead of typing in messages', '115: Send thank you notices to Facebook accounts', and '85: Enable home handler billing based on hours logged in'.
- Release Burndown:** A line chart showing 'Remaining Work' (blue line) and 'Planned Work' (black line) across Sprints 1, 2, and 3. The y-axis ranges from 0.0 to 222.0.
- Open vs Closed Work Items:** A bar chart showing the number of open and closed work items, with a value of 70.

The dashboard also includes a user profile for 'Jean-Michel Lemieux' and a 'Log Out' button. The page number 'Page 1 of 2' is visible at the bottom.

Development dashboard

The screenshot displays the IBM Rational development dashboard for the 'Call Centre' project. The interface includes a navigation menu on the left with sections for 'Recently Viewed', 'My Dashboards', and 'Public Dashboards'. The main content area is titled 'Call Centre' and features several widgets:

- Open Track Build Items (3):** A list of build items with status icons (checkmarks and error icons).
 - 141: Tracking 1.0 Sprint 2 Integration
 - 103: Tracking 1.0 Sprint 1 Integration
 - 142: Tracking 1.0 Sprint 3 Integration
- Call Center Builds:** A list of build results, including 'Succeeded: staggung web deploy 20091223-1048 2 hours ago' and several 'Failed' items with error codes.
- Integration Build Health:** A line graph showing the 'Number of Tests' over time, with a value of 68 indicated.
- All Defects (19) Status:** A horizontal bar chart showing the status of defects, with 'Resolved' and 'New' categories.
- Build Details Modal:** A pop-up window for a completed build item with the following details:
 - Completed** (indicated by a red 'X' icon)
 - Start time: Dec 23, 2009 9:06:29 AM
 - End time: Dec 23, 2009 9:06:51 AM
 - Duration: 23 seconds
 - Tags: <none>
 - Time in queue: 1 seconds

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Business Challenges

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Rational Team Concert Overview

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ALM Business Imperatives – Our Value

- Team collaboration
- Real-time dynamic planning
- Process guidance
- Transparency and status for everyone
- Collaborative change management
- Advanced source control
- Continuous integration

4

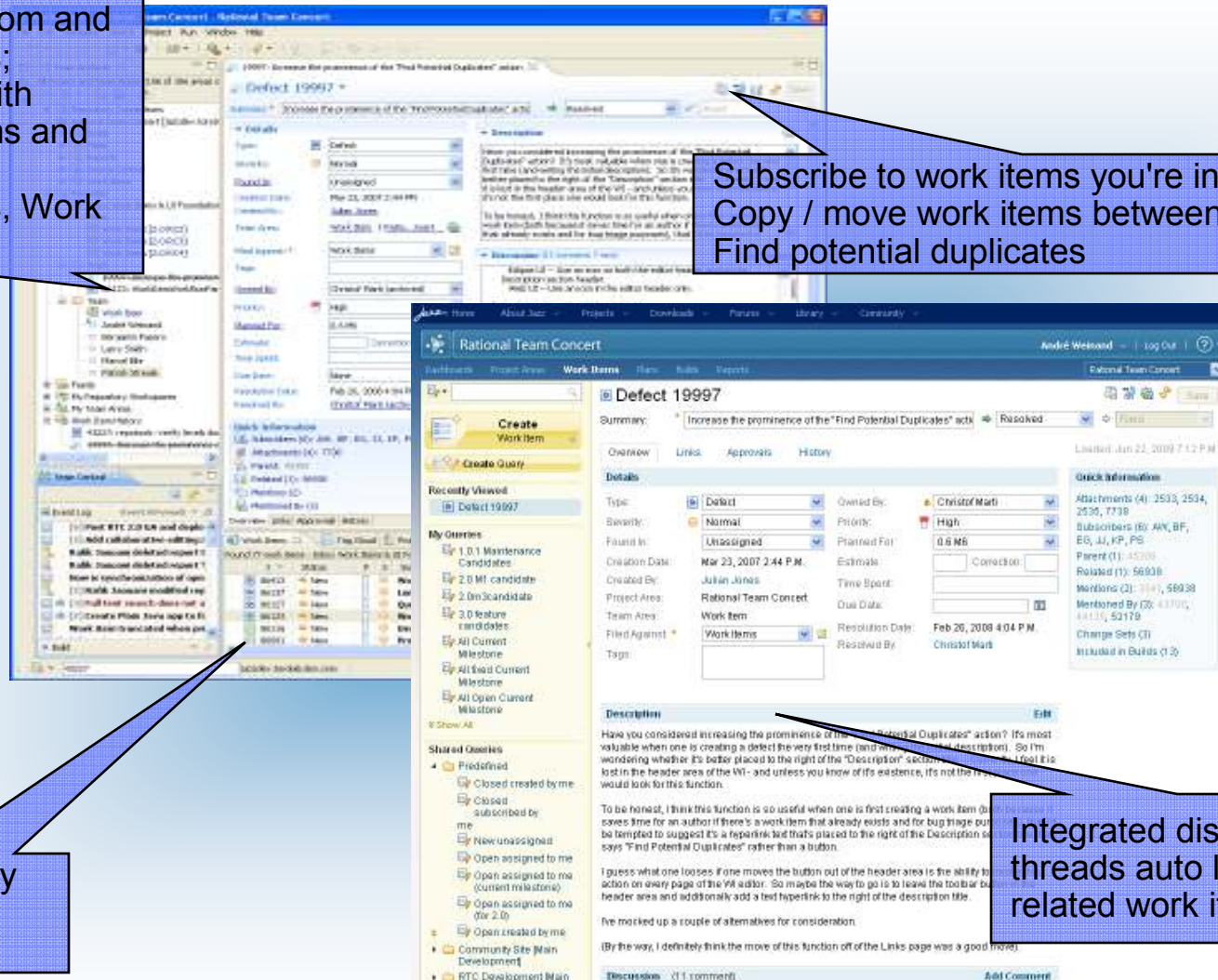
Summary



Change management available everywhere – IDE or Web

Predefined, custom and personal queries;
Share queries with individuals, teams and projects
Favorite Queries, Work Items

Subscribe to work items you're interested in
Copy / move work items between projects
Find potential duplicates

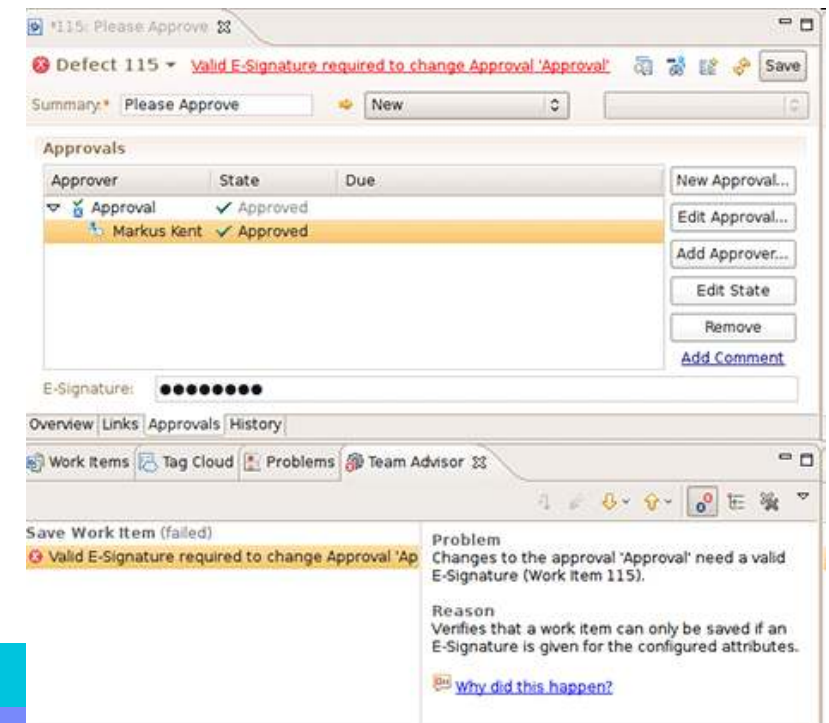


Interactive query results
Bulk Edit Mode

Integrated discussion threads auto linking to related work items

Govern change

- Establish and enforce approval and review checkpoints in your change workflow
- Require approvals and reviews before a workflow state change
 - ▶ Example: Rejecting a submitted workitem, moving a defect from submitted to planned, moving an enhancement from resolved to implemented
- Establish multiple approvals and reviews integrating comments and discussion
- Require an electronic signature when changing the state
 - ▶ Example: As part of an approval, when moving an enhancement or defect from submitted to rejected or accepted.



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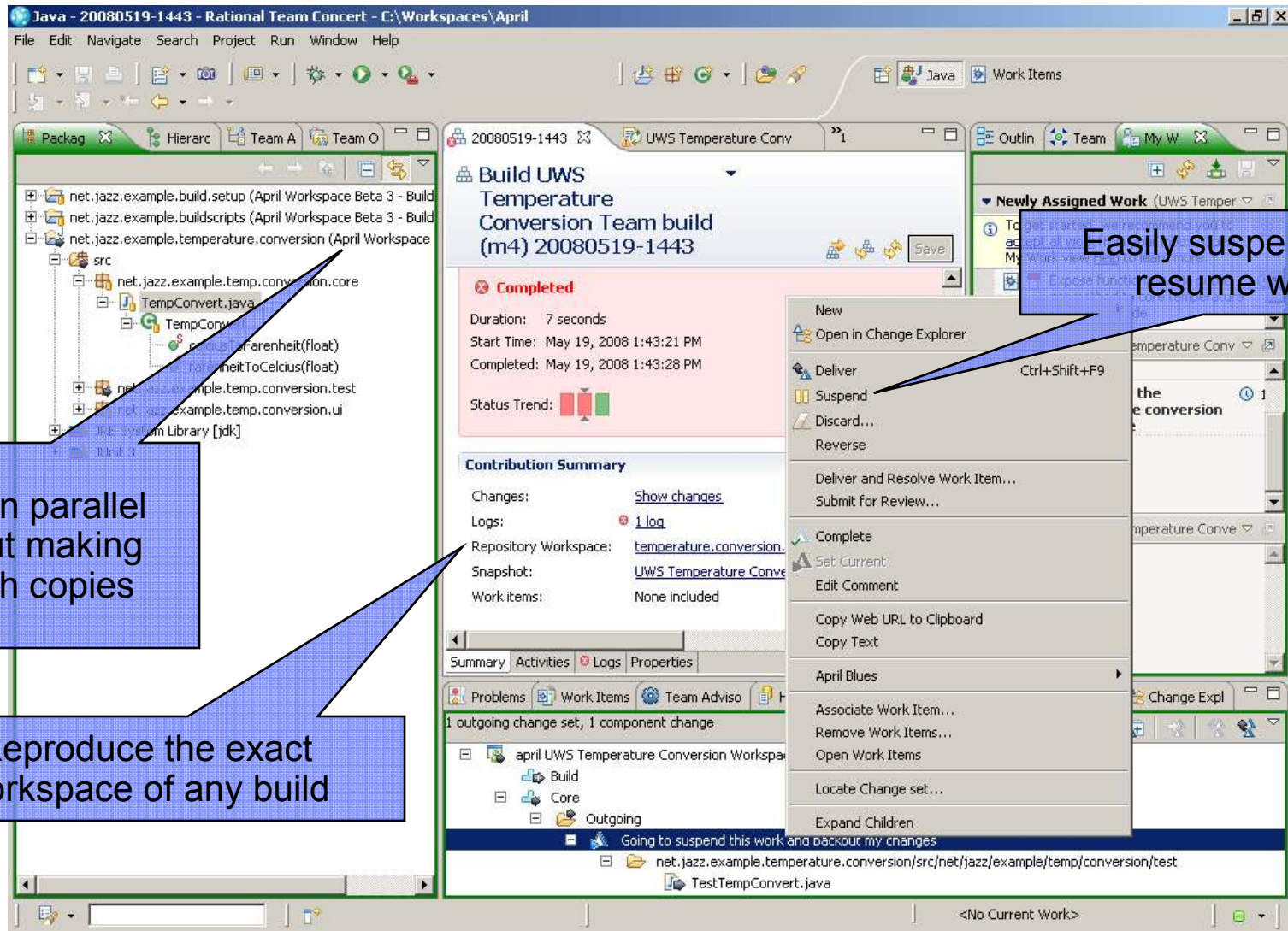
- Team collaboration
- Real-time dynamic planning
- Process guidance
- Transparency and status for everyone
- Collaborative change management
- [Advanced source control](#)
- Continuous integration

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Summary



Advanced source code management



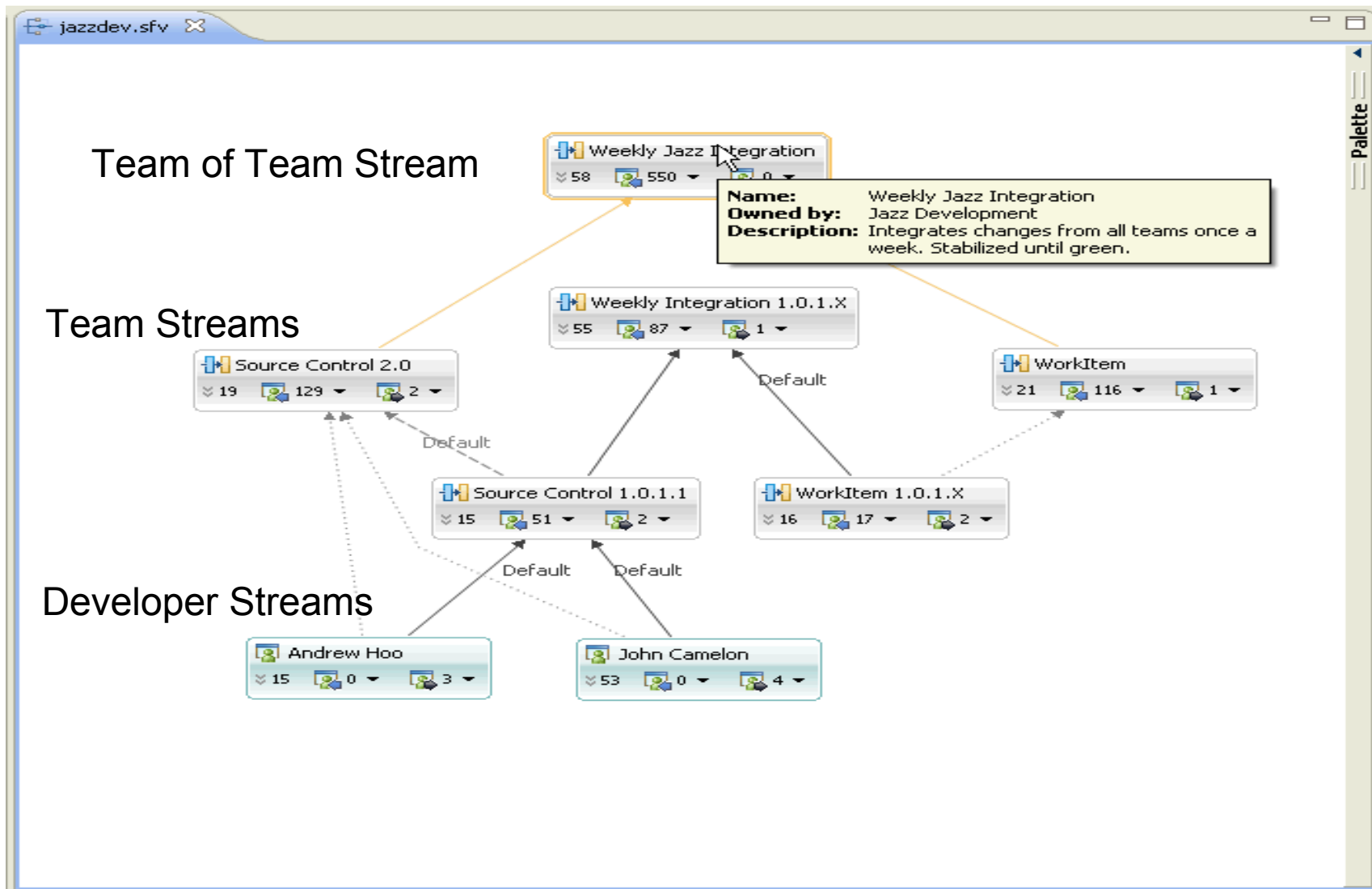
Easily suspend and resume work

Work in parallel without making branch copies

Reproduce the exact workspace of any build

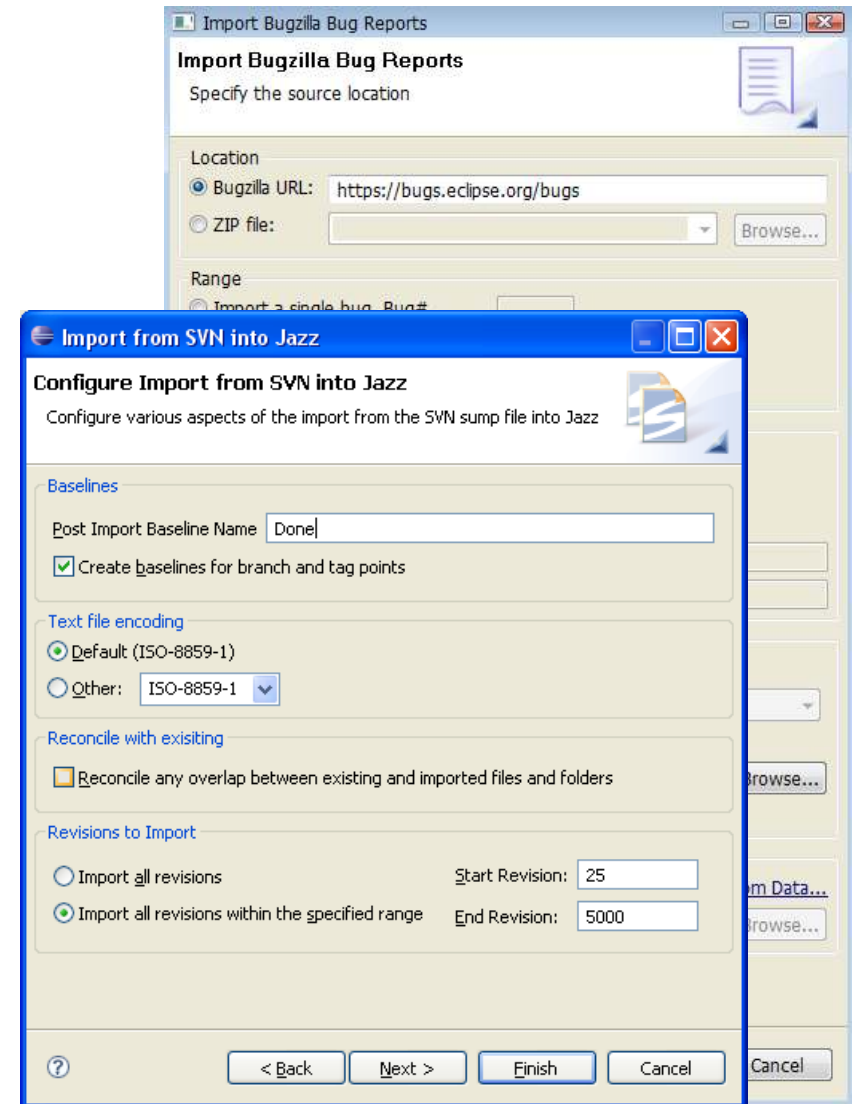


Work on multiple product versions and teams while maintaining order



RTC works with your existing tools

- Easily import Bugzilla, Jira*, or any other change tracking system with CSV file support into RTC Work Items
- Easily import Subversion and CVS repositories into RTC SCM
- Importers also available for ClearCase / ClearQuest for those moving to RTC
- Connectors available to provide dynamic integrations with Subversion, ClearCase, ClearQuest, Synergy, Change



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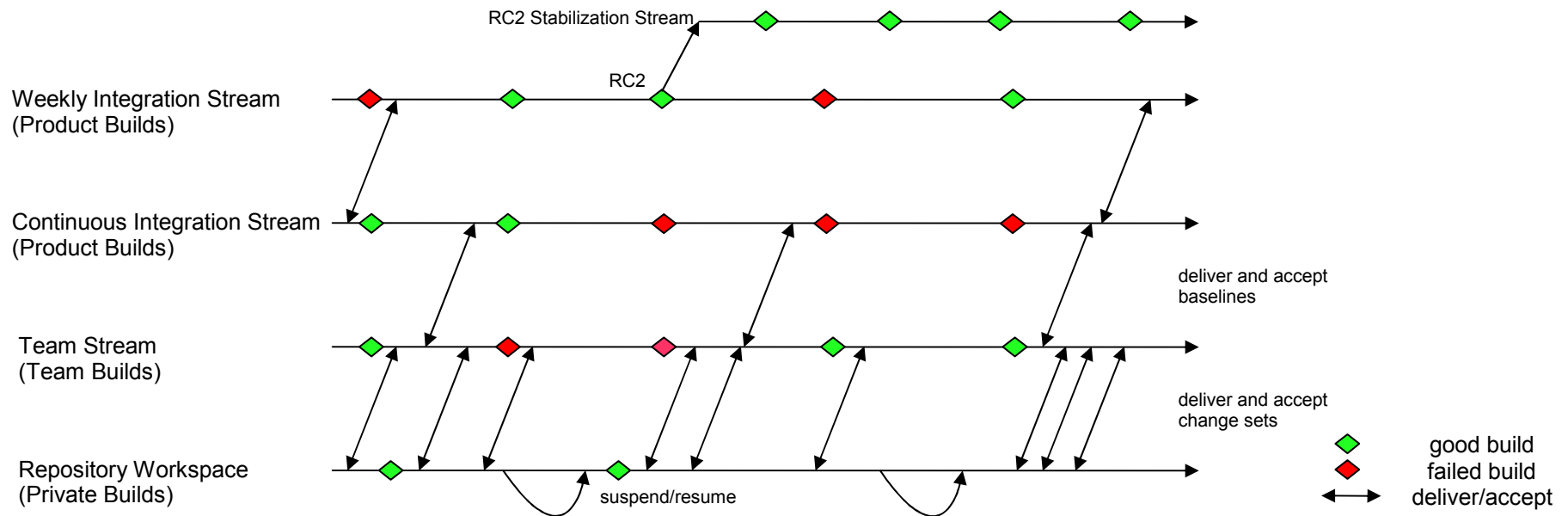
4

Summary



Continuous integration/builds

Incremental and flexible integration with a great reduction in complexity



- Developers deal mainly with accepting and delivering to their team stream. Flowing changes to and from the product and weekly integration streams provides multi-level staged continuous integration support across a complex system.
- Each build references a snapshot of the artefacts that were built. Reproducing a build or patching a build is as simple as creating a new stream from the snapshot.



Build auditing

The screenshot displays the IBM Rational software interface, specifically the 'Build callcenter (personal build by Jean-Michel Lemieux) I20091223-1325' window. A context menu is open over the '162: Problem with bu' item in the Project Explorer, with 'Deliver' selected. The main window shows the build's status as 'Completed' with a duration of 25 seconds, starting at 1:25:50 PM and completing at 1:26:15 PM on December 23, 2009. A status trend bar shows a sequence of red and green blocks. The 'Contribution Summary' section lists: 0 errors, 47 warnings; 1 download; 1 link; 84 tests, 0 failures, 0 errors; 1 log; and Repository Workspace: JM's Center WS. The 'Reported Work Items' section shows 'None reported against this build' and '1 currently open against callcenter'. The 'General Information' section lists: Requested by: Jean-Michel Lemieux; Build Definition: callcenter; Build Engine: center_engine1; Build History: 33 builds; and Deletion allowed: checked. At the bottom, a table lists the build history:

Build	Label	Progress	Estimated Completion
callcenter	I20091222-2304	Completed	
callcenter	I20091222-2305	Completed	
callcenter	I20091223-0906	Completed	
callcenter (personal build by Jean-Michel Lemieux)	I20091223-1325	Completed	

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Summary



THANK YOU

