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Putting the Agility into software delivery with IBM Rational Team Concert

X IEM

Sudhakar Frederick sudhakar@au1.ibm.com Jazz Jumpstart Specialist (AP and Japan)

Business needs software delivery that supports agility.

Must Deliver:

More solutions
 More flexibility
 More quality
 More value

-yet-

Less risk

✓ Less costs

✓ Less or flat resources

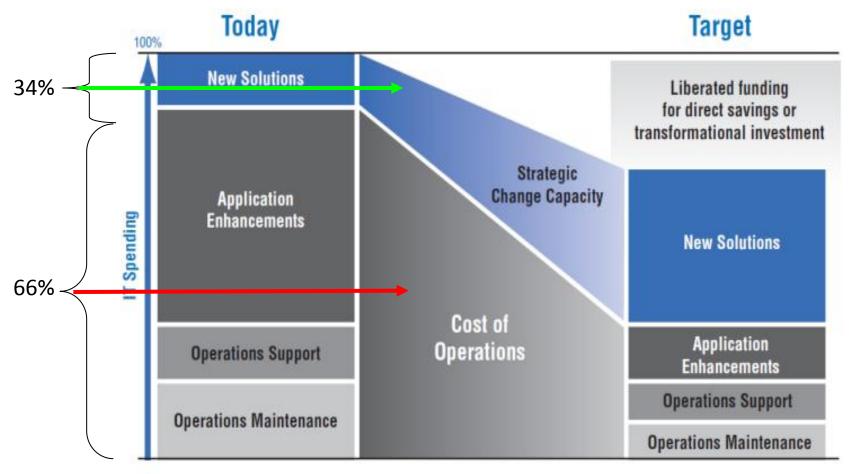


Effective software & systems development promotes a delicate balance of resources, reducing costs while delivering more, higher-quality business solutions.

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Business and Agility: Balancing Resources to Support Business Innovation



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



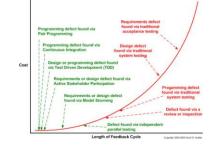




Lean Software Development Principles



Eliminate Waste







Build Quality In

Next NOW!

Defer Commitment

Deliver Fast



Amplify learning



Engage Everyone



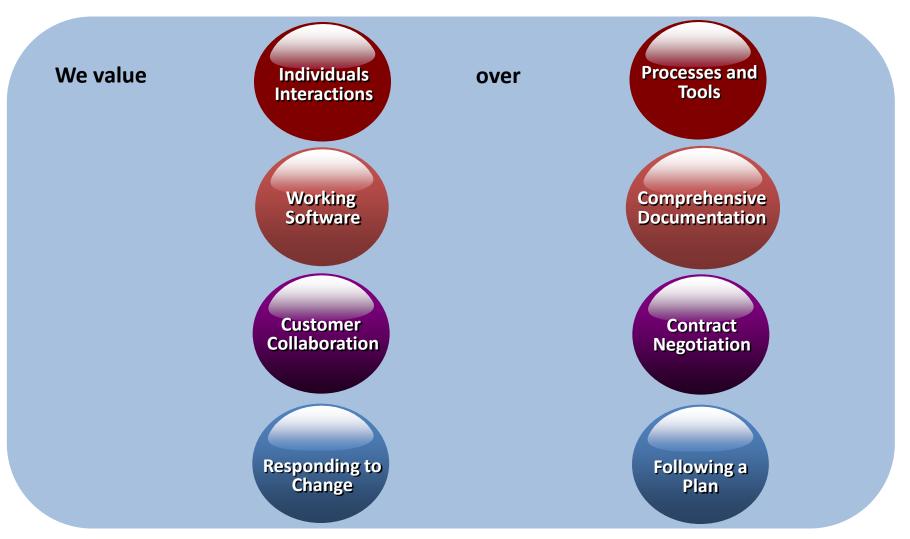
Optimize the Whole

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Agile values

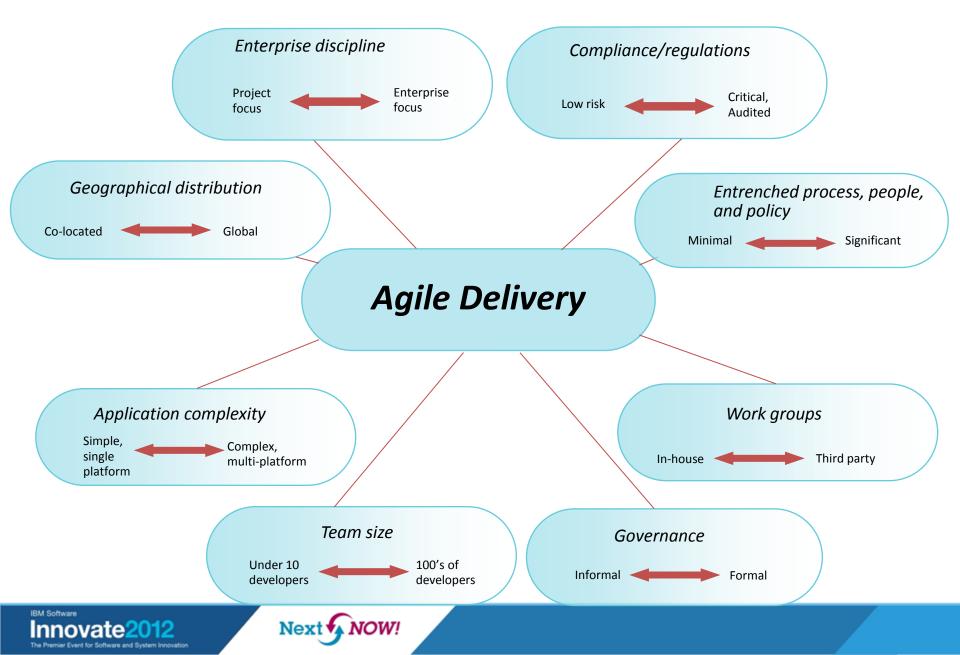


While there is value in the items on the right, we value the items on the left more. www.agilemanifesto.org

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Challenges with becoming more Agile

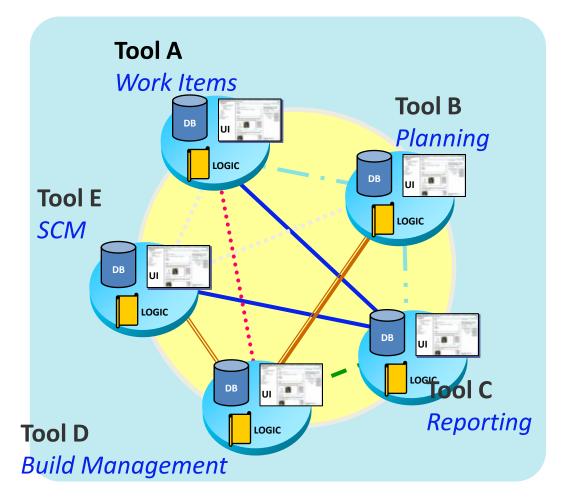


Our customers have invested in a diverse set of tools...



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?

Team Concert enables teams to more easily adopt and support agile **IBM** development with greater team productivity and results



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 Use RTC SCM or SVN, Git, ClearCase or Synergy 	 Work Defects, enhance and conversation View and share Support for app discussions Query editor information Connects to Cle Change 	ons query results provals and terface	 Build Automated Work item and change set traceability Build definitions for team and personal builds Local or remote build servers Multi-level continuous integration Can integrate with Build Forge
	Jazz Team Ser	rver	

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

NOW!

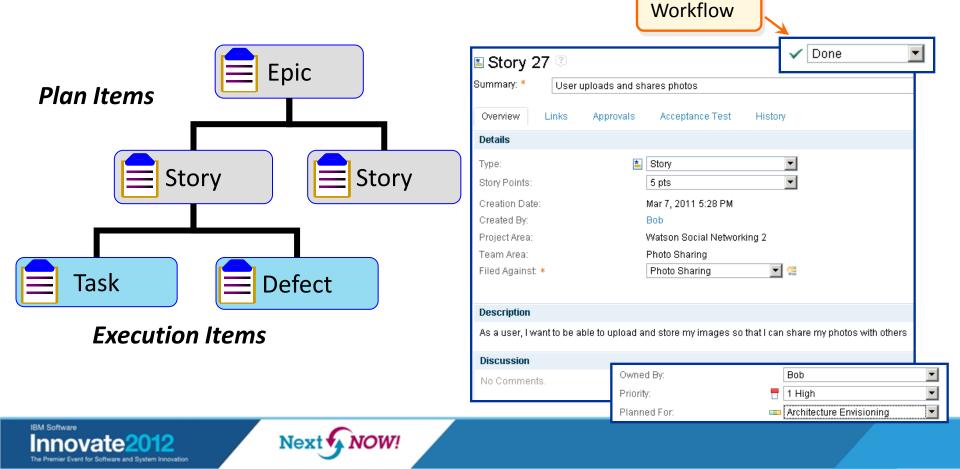
Next

- 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

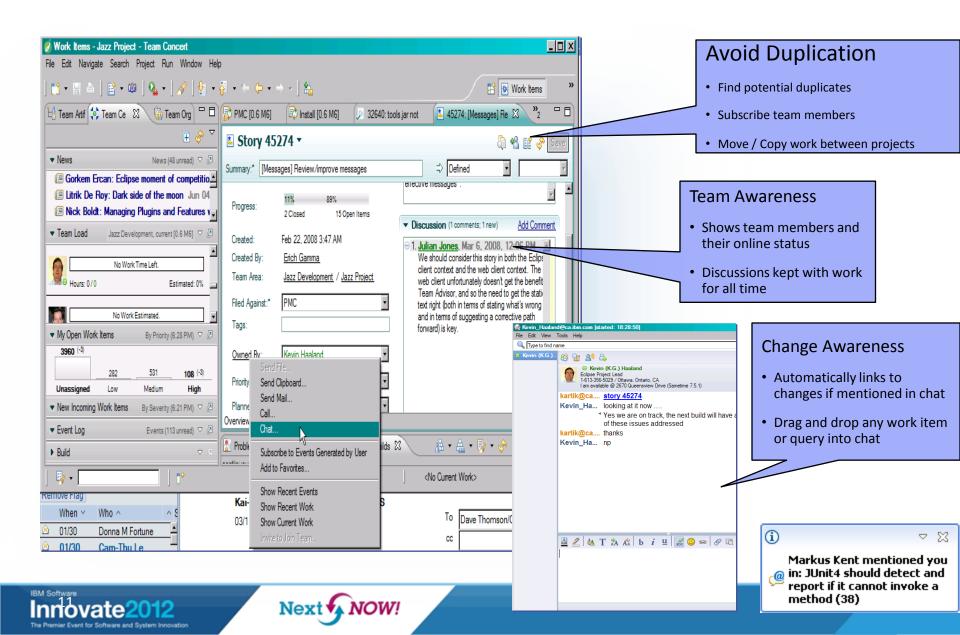


Work items

- A work item captures any type of task or activity
 - Plan items are work items used for high-level planning.
 - Execution items are work items which are planned for a single iteration and assign work.



Collaborate in real-time and in context - maximize progress





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
- You can customize feeds by filtering

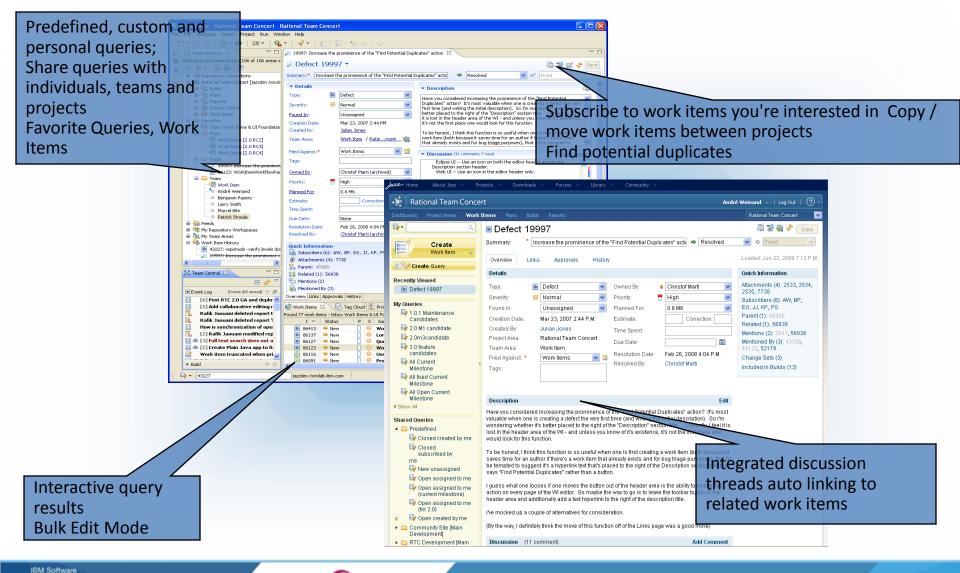
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 E & Sharing a project with a different user does not actually show the new user. (2814) 3:17 PM 		🕀 🗀 Build Definitions
 E 60 [3] Solution explorer context menus should prompt for login if not already logged in (1939) 1:54 PM 	Scope	Plans
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E & Fix foundation preference tests and preference framework usage (4464) Saturday, August 08, 2009 12:09 AM	Team Process Changes	My Teams in Rational Team Concert (53) [j
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Change management available everywhere – IDE or Web



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Real-time dynamic planning



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

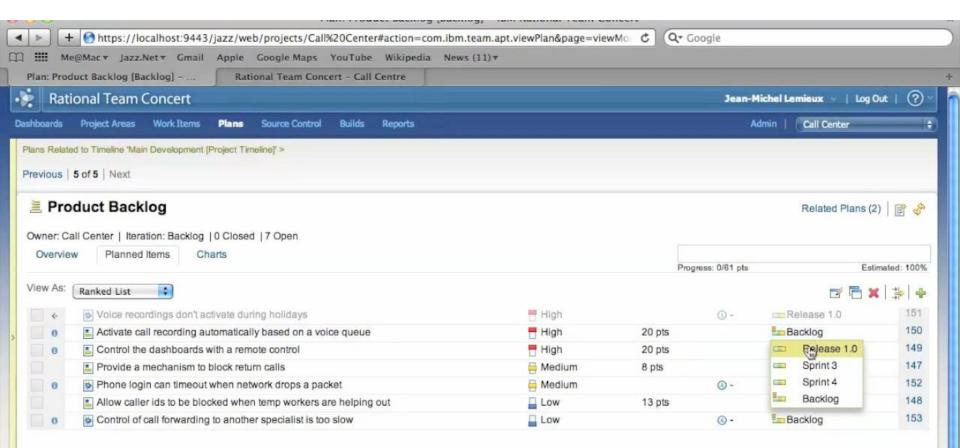


- Plans fully integrated with execution
- Continuous planning
- Instantly see the impact of changes to delivery dates

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



Create, manage, and prioritize your backlog(s)



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

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Next NOW!

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Team and project work breakdown - easily rebalance and self organize

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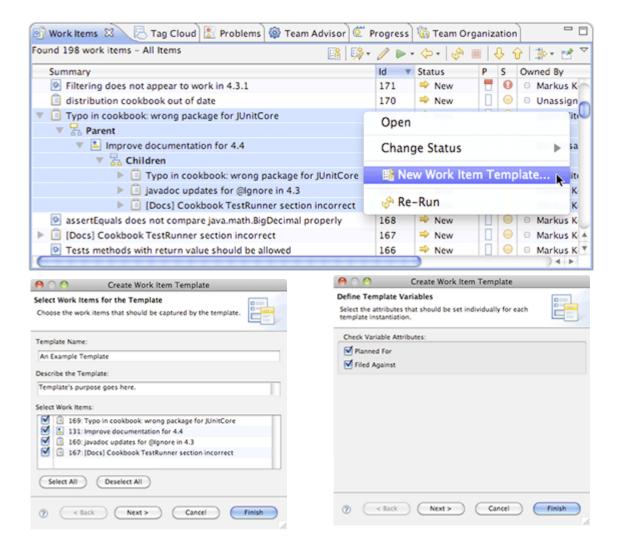
Agile planning dashboard

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hboards Project Areas Work Items Plans Source Control	Builds Reports	Admin Call Center +
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Show Parameters	 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 	Statistics Statistics Remaining Work Planned Work
	 Instead of typing in messages 116: Allow voice note talking for customer accounts instead of typing in messages 115: Send thank you notices to Facebook accounts 85: Enable home handler billing based on hours logged in Page 1 of 2 	Open vs Closed Work Items Show Parameters 70



Save time by using work item templates

- Work item templates allow you to create a set of work items in an automated fashion and populate them with preset attributes and links
- For example: Work items that reflect repeating tasks in different iterations can be created simply by instantiating a template for each iteration.
- A work item template wizard makes it easy to capture and create new templates.





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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Example Use case:

- Each supplier has a team area
- Each member of that team area can see work items in their team area but not in the others.
- Company ABC can read all work items in all team areas under their Project Area

	Company ABC's Project Area	
$\overline{\ }$	Supplier X – Team Area	
	Supplier Y – Team Area	

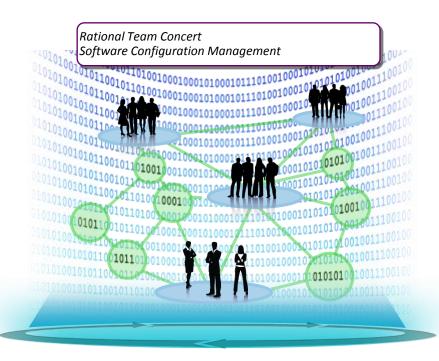


Next



Advanced source code management

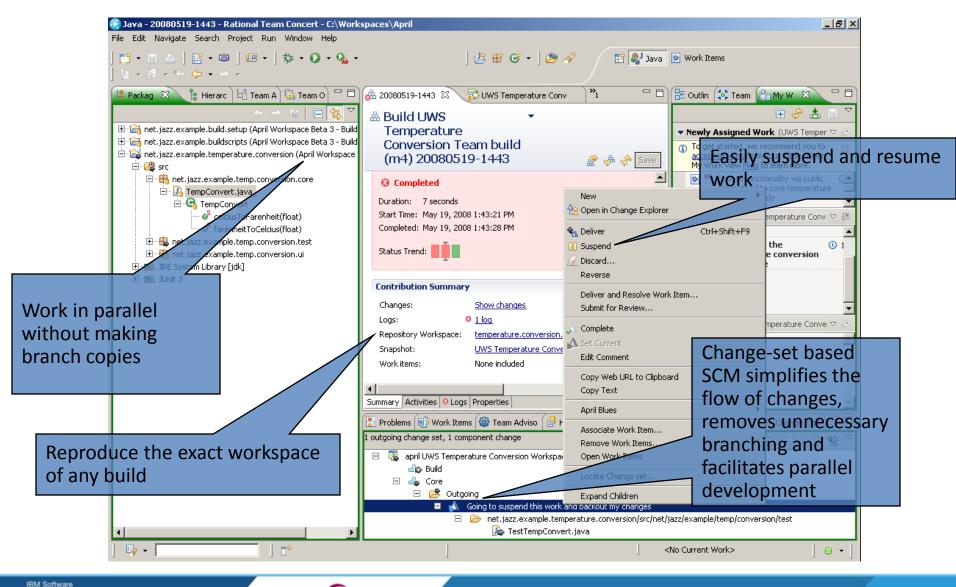
- Efficiency
 - Change-set based SCM, rather than file-based, raises the abstraction level, simplifies the flow of changes, removes unnecessary branching and facilitates parallel development
 - Private workspaces allow indivduals to experiment and backup their work without interfering with the rest of the team
 - Ability to suspend and resume work, work on a new task and then resume the saved task, supports interruptions to work seamlessly
- Security
 - Distributed source control works on selected streams and components on a "need to know" basis, rather than copying the entire repository
- Governance
 - Tightly integrated traceability across plans, work items, source control and builds supports the imperatives of effective application lifecycle management







Advanced source code management



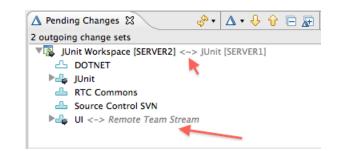
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Distributed source control

- Share, compare, manage the flow of changes between developers, teams, and projects across different repositories
- Provides organizations with flexibility while governing source control across distributed locations
- Improves collaboration with other lines of business, and outside suppliers, who need to share component code changes across repositories

00	Select a Stream or Workspace
Enter stream, wor	space, or owner name prefix or pattern (*, ?):
Matching items:	
JUnit (JUnit) (d	- Workspace flow target matches fault) (current) [SERVER1] tream (Remote Team) [SERVER2] Select Default
Show: 💿 Stream	○ Workspaces ○ Both
Currently searchin	on SERVER2
?	Cancel OK







Restrict team area visibility of Components, Streams, Folders, Files

🕂 *Source Control 🛛	
🚯 Stream 🔻 😪 🗞	е
Name:* Source Control	
	^
Details	
Repository:* chrisx@Ella CCM	
Owned by:* 🙀 Team Area 1 Browse	
Visibility: Team Area 1	
Description: Team Area 1	
BM_Project1	

NOW!

Next

Select a user or team area	
Select the new owner of this component	
BM Project1 [Ella CCM] Team Area 1 [Main Development] Christophe Cornu Tim Mok David Lafreniere	C
Restrict to members who can see this team area	
ОК (Cancel



Continue working if your target stream is offline

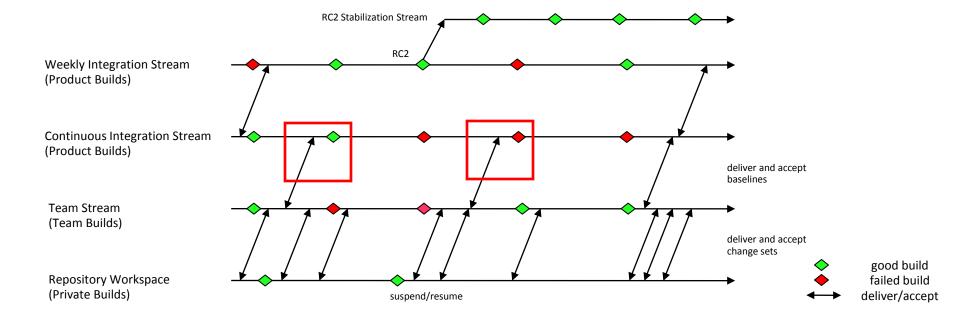
- If you lose connection to your target, you can still keep working in your repository workspace - check in, create change sets and baselines, associate work items, suspend and resume are unaffected.
- When the connection returns, you'll be ready to accept and deliver again!

🛆 Pending Changes 🛛	🗞 र 🗛 🖓 🖓 🗸 🗸 🖓 🖓 🖓 🖓
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Multi-level continuous integration

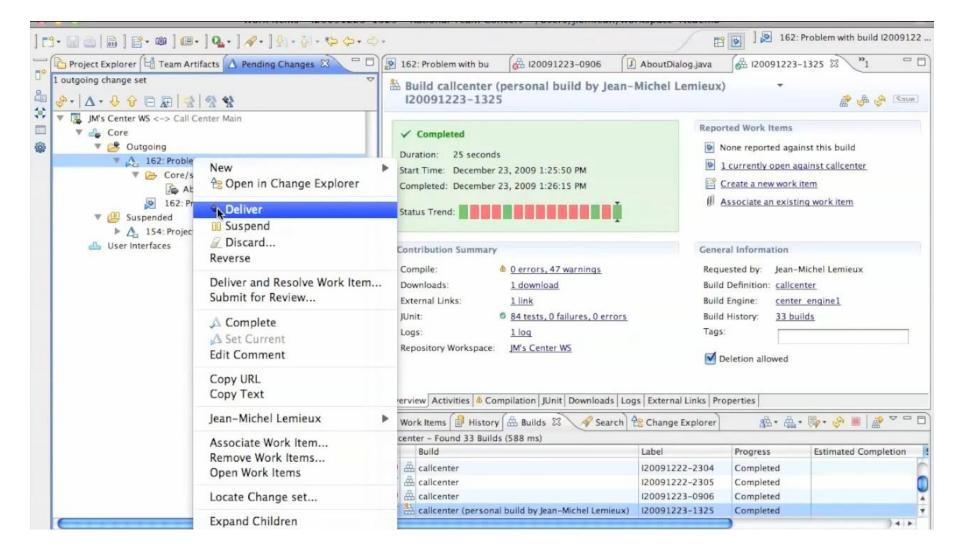






Build auditing





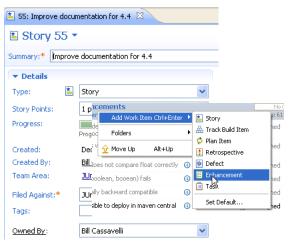
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Rational Team Concert – A single tool, many capabilities



Work Items



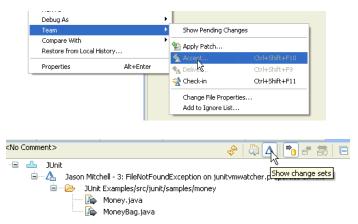
Planning

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Dashboards & Reporting

Source Control



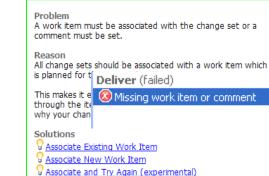
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General 🔹 Add New Tab		Add Vie
Welcome to JUnit Project V = X Welcome to the project dashboard. This dashboard was created from a template	JUnit Project Teams (1)	Current JUnit Project Pl (2) Current Iteration: 4.4 m2 JUnit Plan
and has notyet been customized. Junit Project Description Team Concert example project area based on the Junit project. This example project area illustrates the use of work terms, SCM, builds and other	Juhit Project Queries ♥ ≥ ∞ ⇒ Recently created (0) Recently closed (0) Recently closed (0) New unassigned (6) Useful Links ♥ ≥ ∞ ⇒	JUnit Release Plan
Team Concert components in a project It exemplary shows project work on the next JUnit release 4.4.	Eclipse Jazz	
Jazz News (33 new) Yee (2) When can you get the Jazz based Rational Tools? Jun 12, 2008 IBM Rational Takes Jazz Collaboration Suite on a Roll Jun 9, 2008 IBM seeks consensus on ALM architecture Jun 5, 2008 IBM Gets Jazz with Web 2.0 Jun 2, 2008	Database: Connected Services: Ok Mernor, 228 free of 83MB allocated / 700MB Max Version: 1.0 (20080618-1642) Uptime: 5 hours, 57 minutes	Recently modified (3) Priority

Method Enforcement and Automation



- Associate and Try Again (experiment
- Team productivity increases of up to 50%
- Team collaboration performance up 25%*

Quality of releases improves 12%*

Project governance improvements of 12%



For more information

- Find out more about Rational Team Concert
 - <u>http://ibm.com/rational/rtc</u>
- Explore Rational Team Concert tutorials, demos, downloads and other developer learning resources
 - <u>https://jazz.net/projects/rational-team-</u> <u>concert/</u>
- Check for the latest RTC integrations
 - <u>http://jazz.net/projects/rational-team-</u> <u>concert/integrations/</u>
- Try the RTC ROI Calculator
 - http://www.ibm.com/rational/rtc/roi







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