IBM Rational Software Development Conference 2008

WHERE TEAMS ARE

Introduction to IBM Rational Team Concert

Terry Quatrani Rational Evangelist





RU READY TO SAVE THE DAY?



Agenda

- Today's Software Development Landscape
- All that Jazz
- Rational Team Concert
- Demo





Agenda

Today's Software Development Landscape

- All that Jazz
- Rational Team Concert
- Demo







Today's reality: An intense focus on business outcomes



Align *IT* investments with rapidly evolving business priorities



Manage value and mitigate risks by improving project management



Control costs & improve global operational efficiencies



Ensure security and compliance in a changing global environment



Integrate value in organizationally diverse environments





Creates pressure on software delivery and solution sourcing

_		
	<i>"</i> 2/3 of our projects span multiple business units and locations"	
	"People knew it was a train wreck; no one could see what to do"	
	"The business is always changing what they want and we are the last to know"	
	We run on the Web we run fast so new code makes us really nervous"	
	"As-is won't do, we need new business models and capture the best talent"	

- Increasing reliance on out sourced partnerships & software reuse
- Interest in replicating the proven models of open, communitygoverned software delivery models
- Popularity of Agile development
- Investments in SOA and Web 2.0 to enable new business models



Impact of growing modularity

- More granular service functionality used across business applications
- Larger number of projects and assets including custom, outsourced and packaged

Impact of accelerating change

- Asset are impacted by frequent updates and changing interdependencies
- Effective cross-organizational visibility and synchronization becomes an imperative!





The defining challenges in effective software delivery

Only 37% of stakeholders are satisfied with the speed of internal application development¹..
Only 42% are satisfied with the quality¹.
50% of outsourced projects are expected to underperform².

Silos of people, process, and projects

Geographic Barriers

- Poor communication
- Language, culture, time
- Process gaps resulting in rework
- High degree of friction

Organizational Barriers

- Lack of meaningful collaboration
- Weak project governance
- Lack of domain expertise
- Poor LOB oversight
- Security of IP when outsourcing

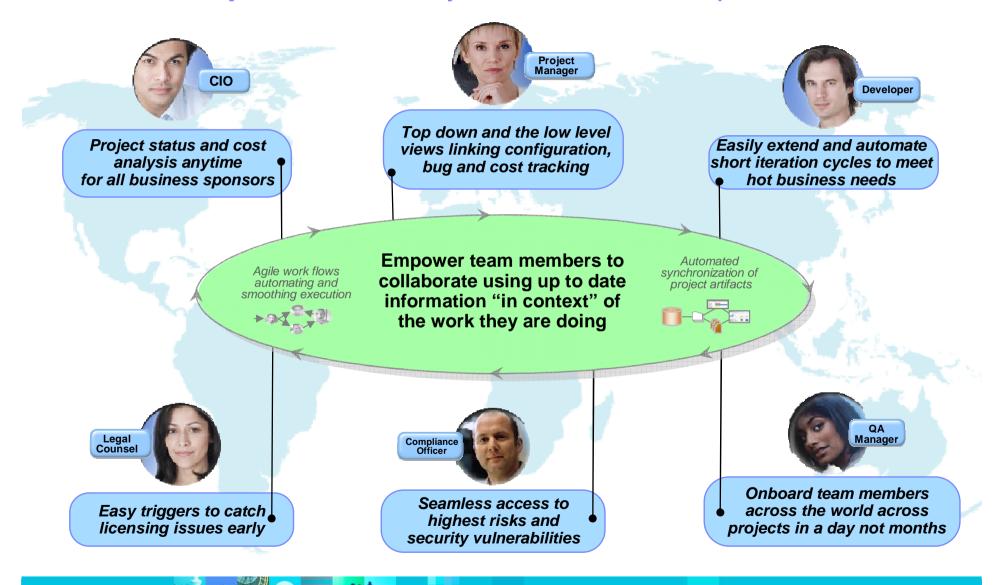
Infrastructure Barriers

- Incompatible tools / repositories
- Unreliable access artifacts
- Lengthy on-boarding
- Inflexible tooling integration

Source: ¹Forrester, ²Gartner



Customer Speak: What they would like to see possible





Collaborative Development Environments

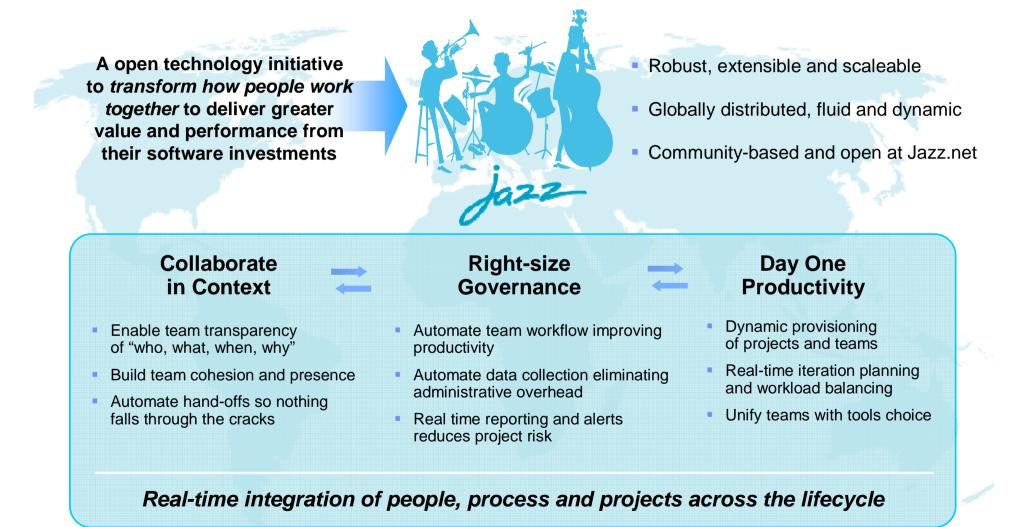
The purpose of a **Collaborative Development Environment** is to create a **frictionless surface** for development **by eliminating of automating many of the daily, non-creative activities** of the **individual and the team** and by providing mechanisms that encourage creative, healthy, and **high-bandwidth modes of communication among a project's stakeholders** – Grady Booch

- Guiding Principles
 - Integration of work flows and artifacts
 - **Team First** the tools know about the team
 - Collaboration on artifacts/work products following the rules of the team (Process)
 - Transparency/visibility into what is happening in project for everybody





Envisioning a platform that can transform software delivery







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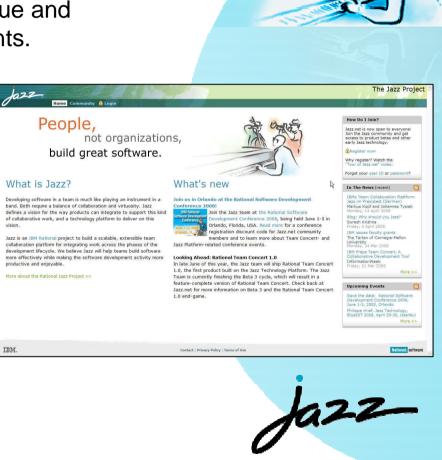


The Jazz project

People working together to deliver great software

Jazz is a project and platform for *transforming how people work together* to deliver greater value and performance from their software investments.

- A major investment by IBM to create a scalable, extensible team collaboration platform.
- IBM's vision for the future of software delivery -- supporting a workforce that is increasingly organizationally and globally distributed, fluid and dynamic.
- An evolution of the Rational portfolio, which will evolve to support the Jazz technology platform over time.
- A community at Jazz.net the online venue for open commercial development of select Jazz-based products.

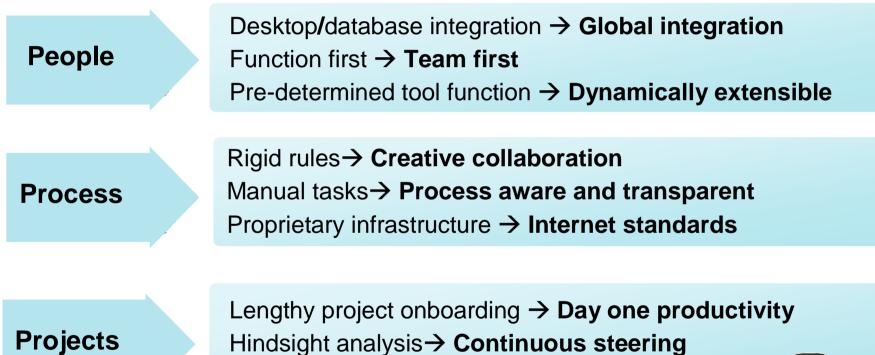






How Jazz is different

Dynamic integration of



Status guesstimates \rightarrow Real-time insight

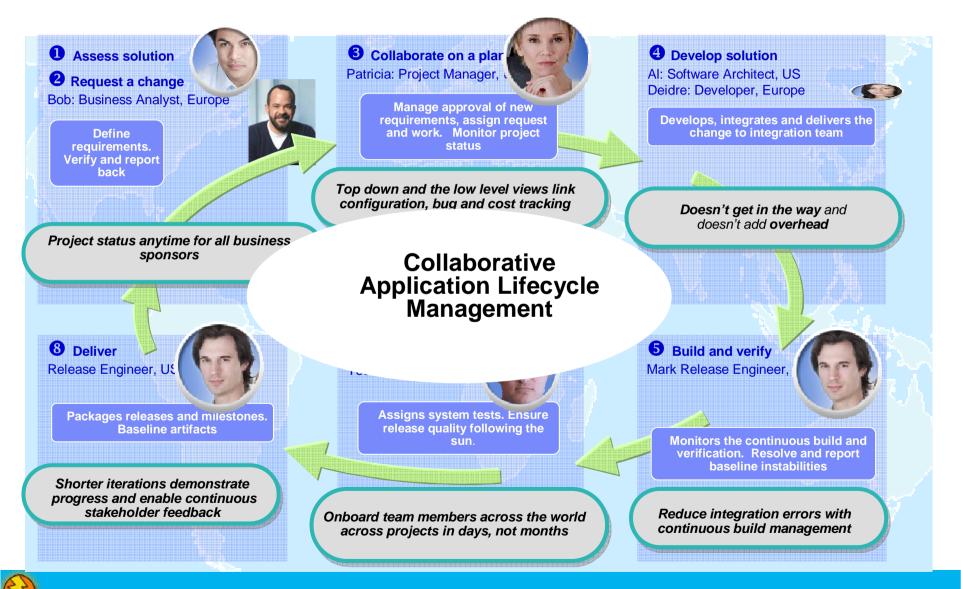
...across the software lifecycle







Dynamic processes streamline team communication and collaboration





Jazz.net: Delivering greater openness and customer participation in the products they depend on for software delivery

- IBM is opening up the Rational Software Delivery Platform for greater ease of consumption, extensibility and integration to meet the unique usage needs of our customers
- IBM is providing transparent, collaborative customer participation in the development of new Rational technologies through an open commercial community

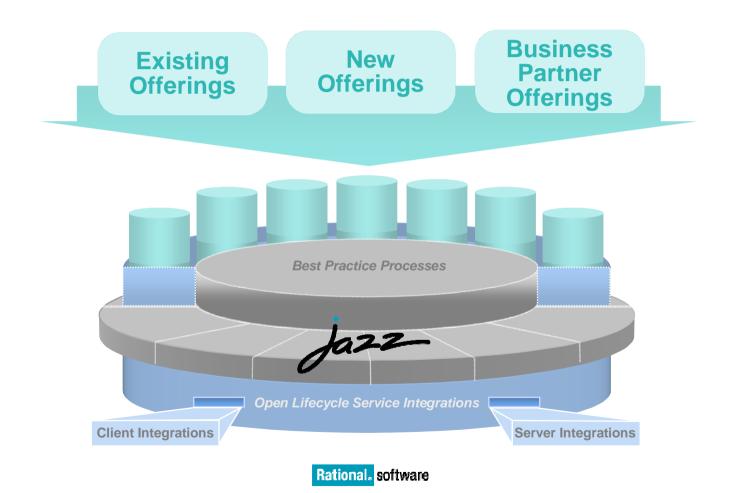




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An evolution of value for new and existing customers The next generation of the IBM Rational Software Delivery Platform







The Jazz Project

Home Community 💼 Login

Create a jazz.net account

Ja22

Jazz.net registration is now open to everyone! In most cases, we can validate your registration and send you your password right away if you provide us with complete and accurate information.

*Create a jazz.net User ID:	î
Check this User ID for availability	
Personal Information:	
*First name:	
*Last name:	
*E-mail:	
*Re-type E-mail:	
*Company or Organization nai	me:
*Select the entry that best d you:	escribes
- Select One -	

Mailing Address:	
*Address line 1:	
Address line 2:	
*City:	
State/Province (required U.S./0	Canada):
-None-	
Zip/Postal Code (required U.S./	'Canada):
*Country/region:	
United States	1

If you have a registration code, enter it below:

Why register?

Creating a jazz.net account allows you to take part in the Jazz community. You can download product Betas, and other previews of Jazz technology.

You'll be able to interact directly with the Jazz development team and other members of the Jazz community through forums and mailing lists, and help guide the evolution of the Jazz platform.

Still not sure? Watch the guided tour of Jazz.net.





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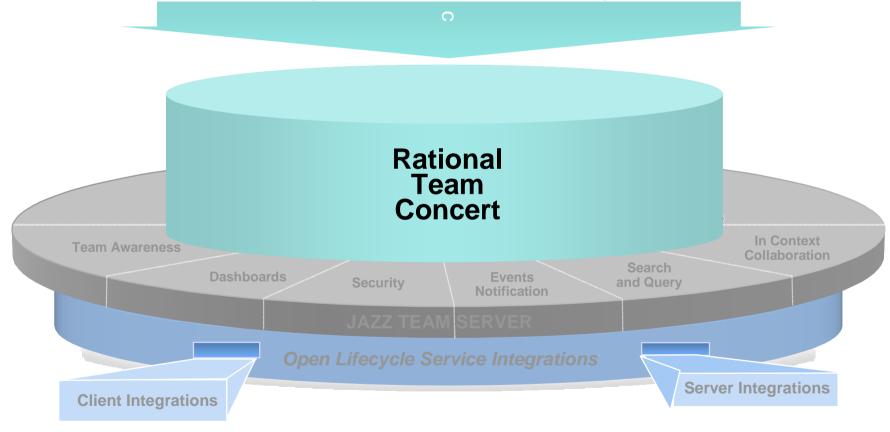






Rational Team Concert

The first offering built on the Jazz technology platform



Rational. software





Software innovation through collaboration

Real time, in-context team collaboration

- Make software development more automated, transparent and predictive
- "Think and work in unison"
 - Integrated source control, work item and build management
- Assess real-time project health
 - Capture data automatically and unobtrusively
- Automate best practices
 - Dynamic processes accelerate team workflow
 - Out-of-the-box or custom processes
- Unify software teams
 - Integrate a broad array of tools and clients
 - Extend the value of ClearQuest and ClearCase
 - Visual Studio Client (4Q08)
 - Support for System z and System i servers (2H08)







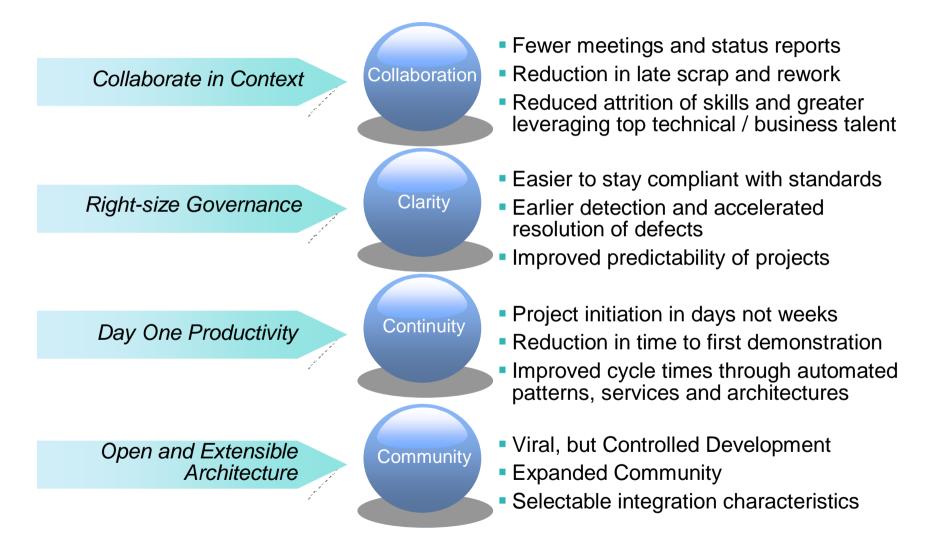


transparent integrated presence wikis OPEN real-time reporting chat automated hand-offs Web 2.0 custom dashboards automated data gathering EXTENSIBILITY Eclipse plug-ins Services architecture FREEDOM TO CREATE





Translating words to actions

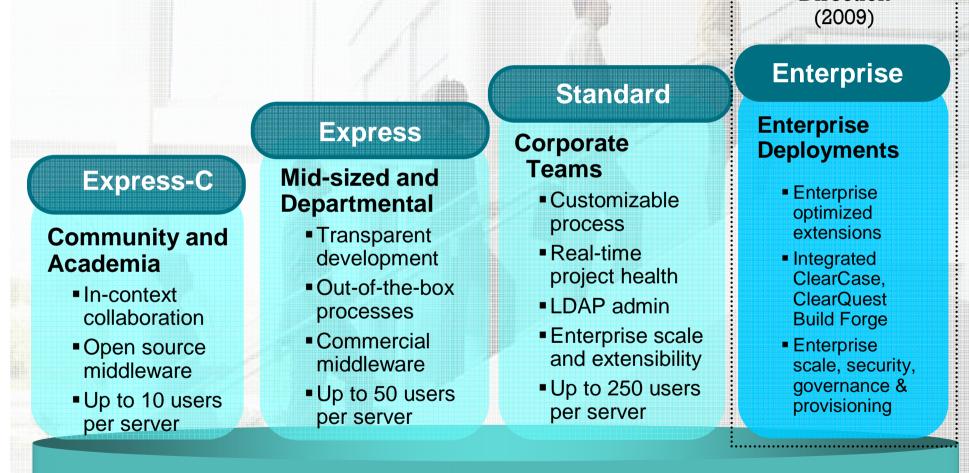






Statement of Direction

The Rational Team Concert family 2008



Eclipse[™], Linux[®], MS Windows[®], UNIX[®] - z/OS[®] (1H 09) & i5/OS (3Q) w/ native asset & work item mgmnt

21



Rational Team Concert

Iteration Planning

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

SCM

- Integrated stream management with flow relationships
- Component level baselines
- Server-based sandboxes
- Identifies component in streams and available baselines
- ClearCase connector

Work Items

- Defects, enhancements and conversations
- Query results view and share queries with team or member
- Support for approvals and discussions
- ClearQuest connector
- Query editor interface

Project Transparency

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

Build

- vvork item and change set traceability
- Local or remote build servers
- Supports ant and command line tools
- Integration with build forge
- Build definitions for team and private builds

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 shows team members and status of their work



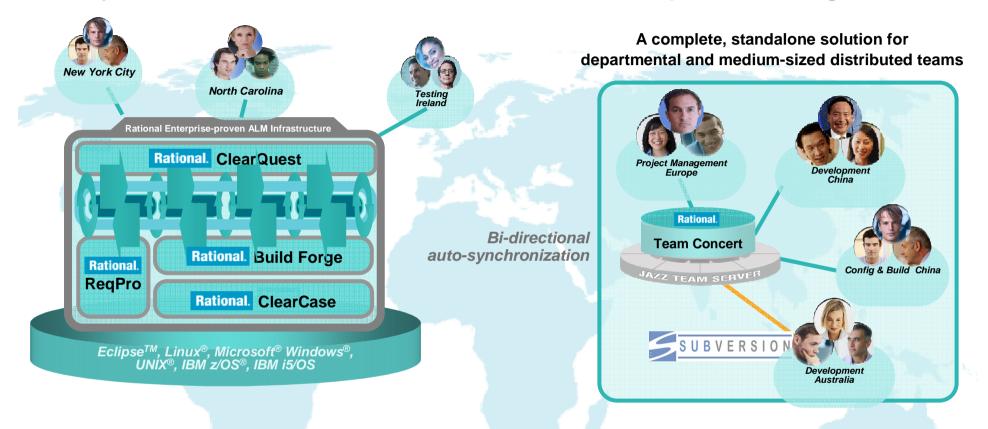
Leveraging Rational Team Concert independently







Unify distributed teams in mid-sized or enterprise settings

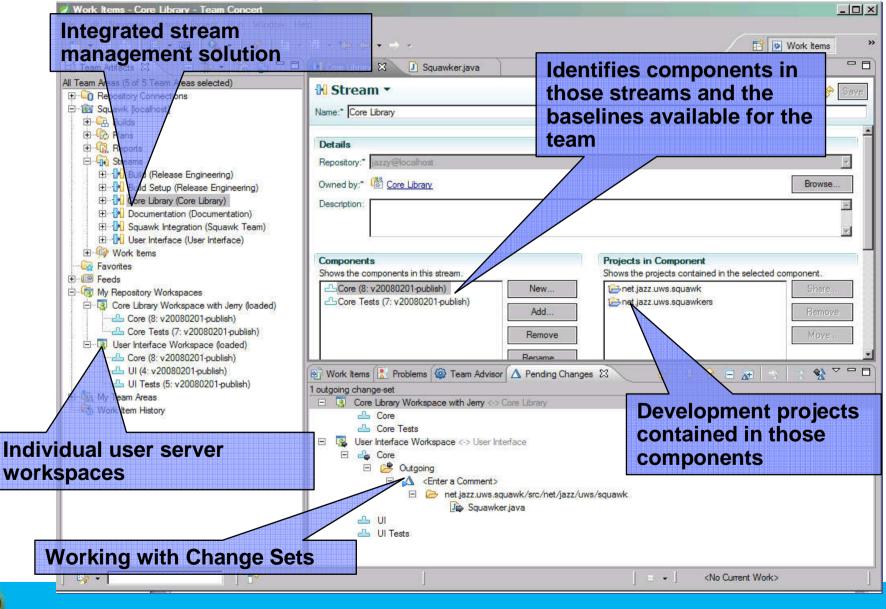


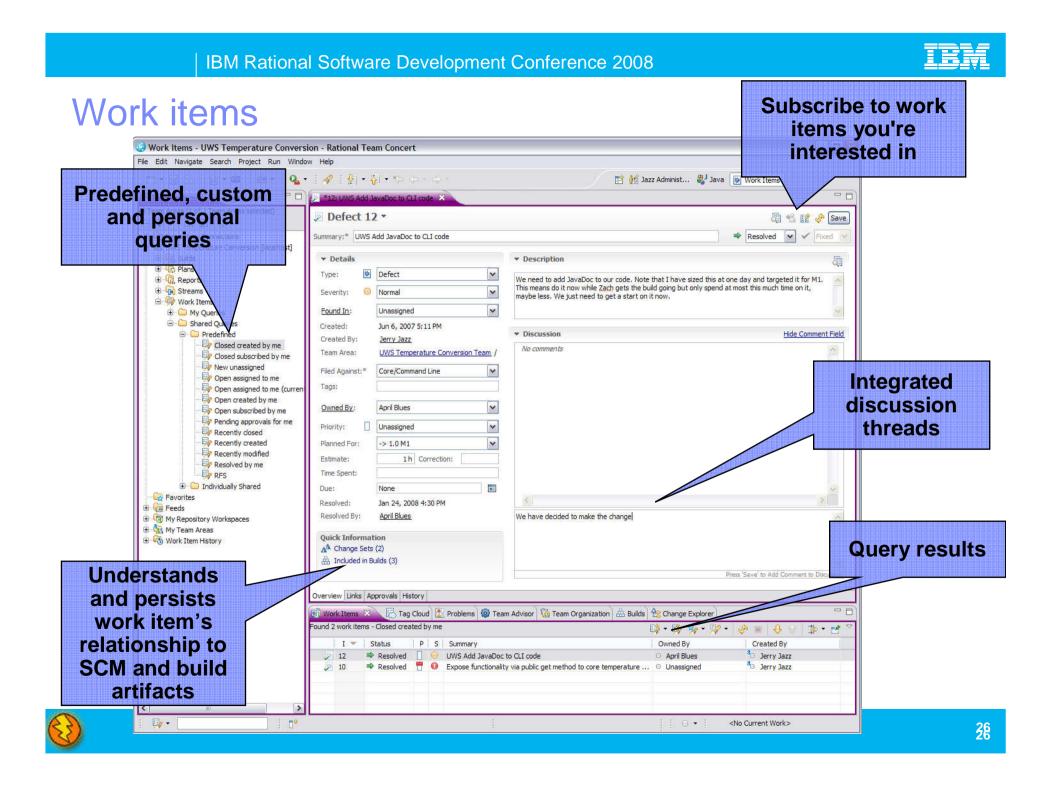
- Supports departmental "satellite" or "agile" projects optionally integrated with existing enterprise-proven Rational ALM infrastructure offerings
- Enhances existing ALM offerings with new collaborative & process capabilities





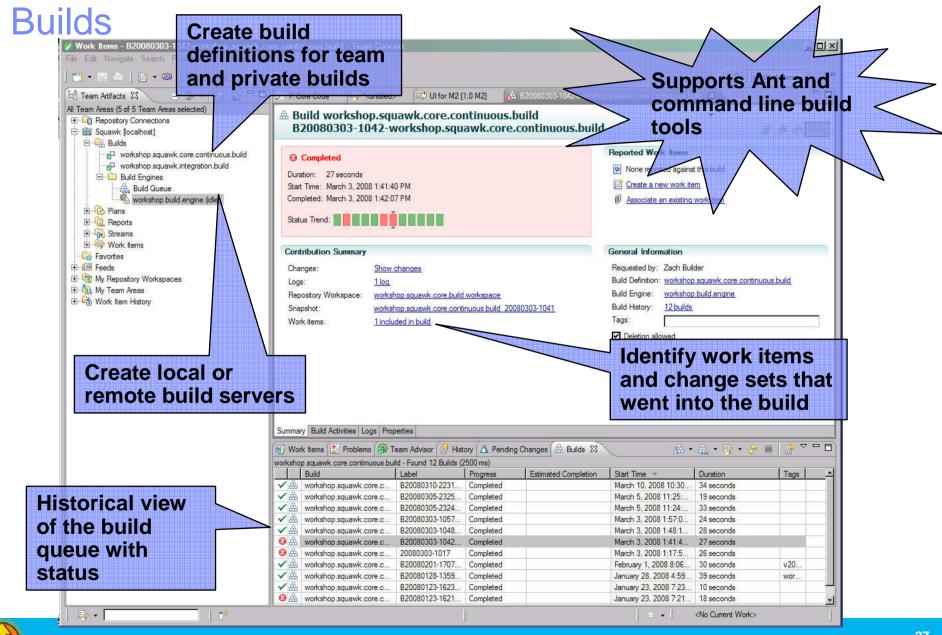
Source code management





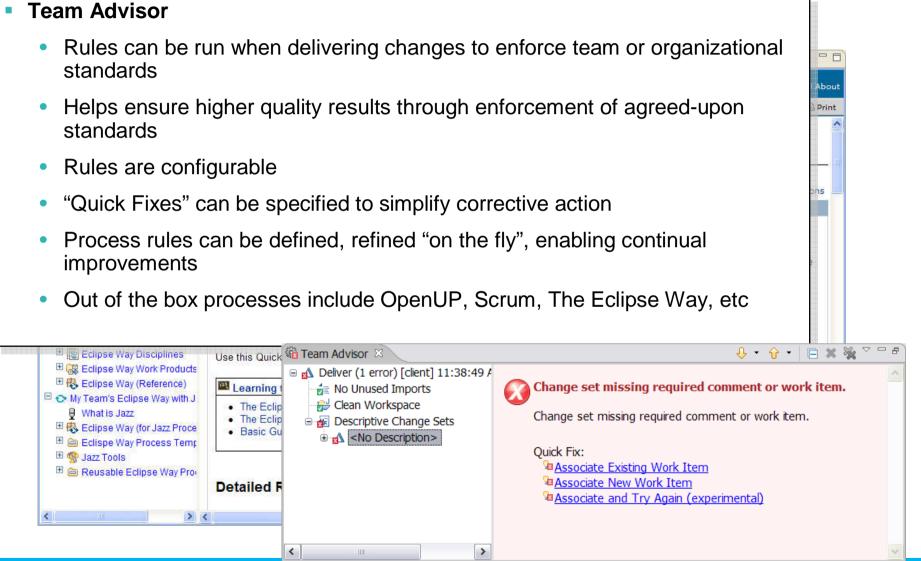
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IBM

Enables process awareness and guidance





IBM Rational Software Development C	Conference 2008
Iteration Planning	Understand how well you are progressing against your targets
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- Team Area: UWS Temperature Conversion Team Iteration: 1.0 M1 (12/1/07 - 6/	
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UWS Create the temperature conversion CLI package	Owner
Derek Holt	Sort By
Closed items: 0 Open items: 2	Progress: 0 / 8 -7 h Estimated: 100% Priority
UWS Define permissions	4 hours Unassigned 5
Jerry Jazz Closed items: 1 Open items: 1	Progress: 0 / 4 -3 h Estimated: 100% Progress V
UWS Define team members	4 hours Unassigned 6
Zach Builder	Progress: 25 / 37 -10 h Estimated: 100% Exclude
Closed items: 2 Open items: 2	Resolved items
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UWS Define iterations/milestones	4 hours Unassigned 3 Tags
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UWS Create the core temperature conversion package JUnit tests	2 days Unassigned 8 Show Backlog
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IBM Rational Software Development Conference 2008



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World: BIRT Release Candidate 0 New a Skerrett: Europa is a Global Effort Jun 0

No Work Time Left.

No Work Time Left.

In-context collaboration 🔓 Team Artif 🔝 Team Ce 🛛 🔀 🐻 Team Org News Gor Gor **Team Central Team Awareness** -News & events Shows team -Build status members and -What's being worked on 2 their online status -Changes My Open Work Items Shows what they Configurable are working on (RSS feeds) 💋 Work Items - Jazz Proje Unassigned Personalizable File Edit Navigate Search Project Run Window Help New Incoming Work Items 📸 • 🐘 🛎 🛛 🔮 • 🚳 🛛 🗛 • 🚀 🖗 • 🖗 • 4 📫 Team Artif 🔅 Team Ce 🛛 🦙 Team Org 🗖 🗖 🔂 PMC (👗 45274: [Messages] Re 🕺 2 - -Install [0.6 M6] 32640: tools.jar.not Unc. Stor Q 📽 😰 🔗 Event Log News News (48 unread) 🗢 🖉 ⇒ Defined • Summary:* leview/improve messages Gorkem Ercan: Eclipse moment of competitio. enective messages ¥ Litrik De Roy: Dark side of the moon Jun 04 29% Progress: Nick Boldt: Managing Plugins and Features v. 15 Open Items Discussion (1 comments; 1 new) Add Comment ▼ Team Load Jazz Development, current [0.6 M6] 🤝 🗵 2, 2008 3:47 AM Created: 1. Julian Jones, Mar 6, 2008, 12:06 PM 🖉 We should consider this story in both the Enline Client context and the web client co Created By Samma No Work Time Left. Development / Jazz Project Team Area: Hours: 0/0 web client unfortunately doesn't get 🔍 Type to find name Estimated: 0% Team Advisor, and so the need to grant Revin (KG). Filed Against:* text right (both in terms of stating wh Kevin (K.G.) Haaland Eclipse Project Laad 1-613-356-5029 / Ottawa, Ontario, CA 1-m available @ 2570 Queensview Drive (Sametime 7.5.1) No Work Estimated and in terms of suggesting a correct Tags: forward) is key. My Open Work Items By Priority (6:28 PM) 🗢 🗵 kartik@ca.... story 45274 3960 Kevin Haaland Owned Rv

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Show Current Work

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Send Mail.

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Dashboards

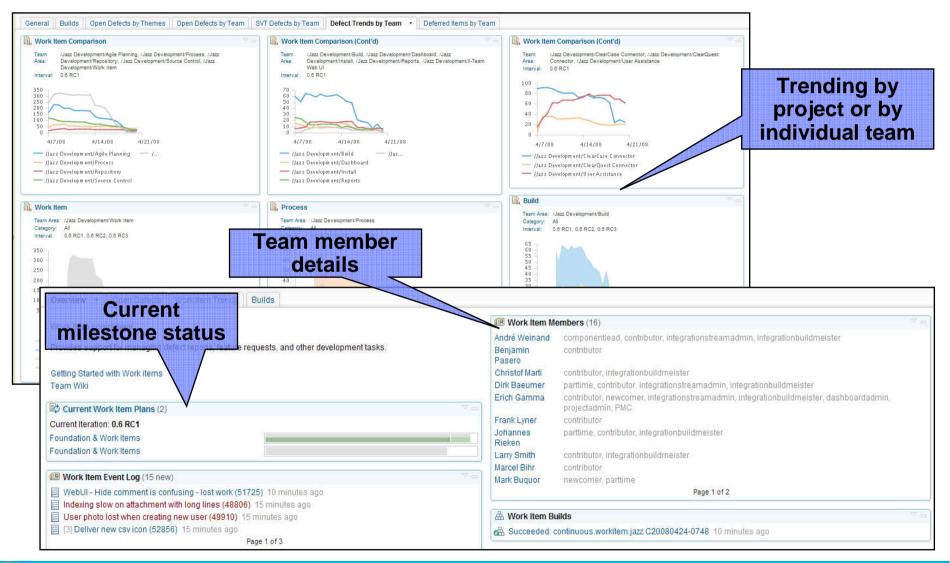
Transparency, collaboration and control via customizable dashboards

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Dashboards and reporting







Customer feedback

"By helping us to make project deliveries more repeatable and predictable, we anticipate that Rational Team Concert will reduce project overrun costs by 20%."

--Matt Pomroy - Business Unit Executive, Software Engineering, Ascendant Technology

"Its automated project management dashboards are transparent to everyone – not just managers. This immediate and **automated feedback helps keeps teams on track and motivated** to achieve project goals."

--Han Jie - Senior Consultant, Siemens

"Where we previously used separate systems, with Rational Team Concert we now have well integrated functionality. **Our developers are more efficient because they are better able to focus on important issues.** Our project managers greatly value the ability to customize these dashboards and **instantly provide status** on their milestones!"

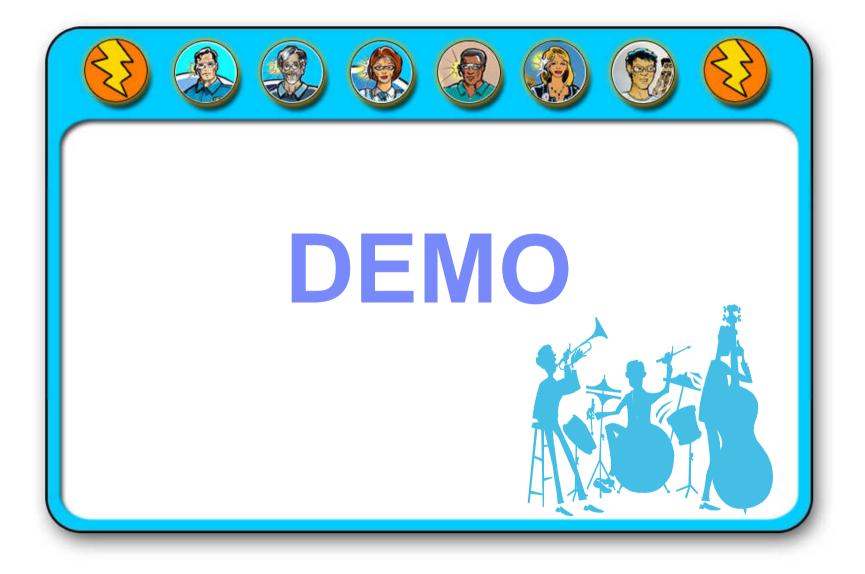
--Mika Koivuluoma - Production Manager, TietoEnator

"Having a unified and extensible environment is very compelling for us. Rational Team Concert provides the team transparency and visibility needed to keep work progressing so everyone knows what's going on without fingerpointing."

--Carson Holmes - Unified ALM Services Manager, Noblestar

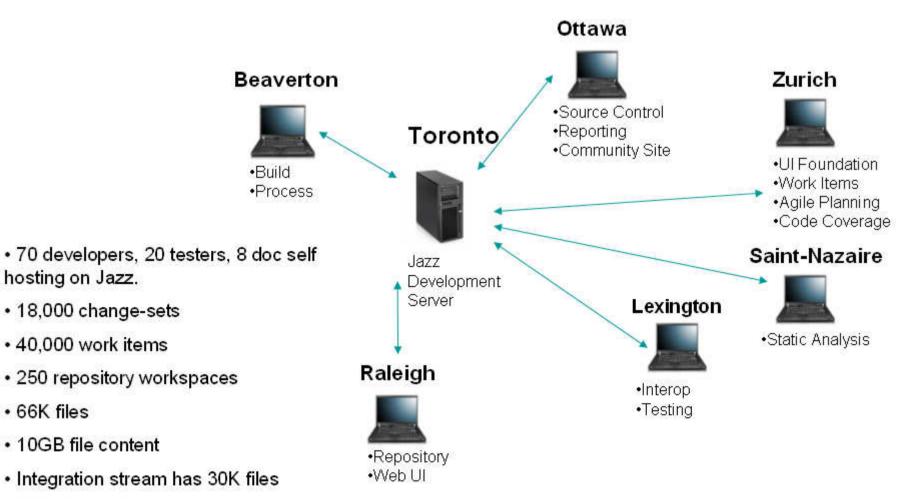








Developing Jazz/Team Concert with Team Concert



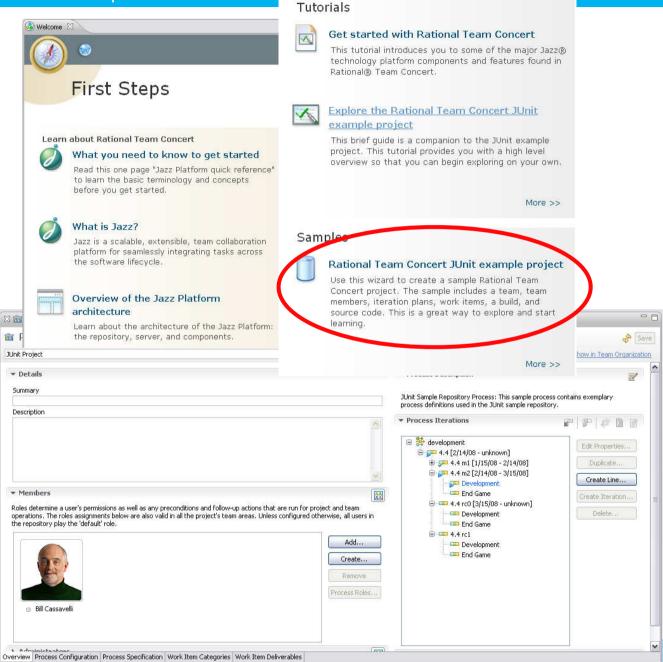
- 40 builds a day
- Weekly integration build

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Getting Started

- Go to Jazz.net
 - Browse the forums
 - Read the Blogs
- Explore the JUnit Sample Project
 - Read the sample guide















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