





Introduction to IBM Rational Team Concert

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Agenda

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







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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



"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









Customer Speak: What they would like to see possible



Project status and cost analysis anytime for all business sponsors



Top down and the low level views linking configuration, bug and cost tracking



Easily extend and automate short iteration cycles to meet

hot business needs

Agile work flows automating and smoothing execution

Empower team members to collaborate using up to date information "in context" of the work they are doing







Easy triggers to catch licensing issues early



Seamless access to highest risks and security vulnerabilities



Onboard team members across the world across projects in a day not months







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

A open technology initiative to transform how people work together to deliver greater value and performance from their software investments



- Robust, extensible and scaleable
- Globally distributed, fluid and dynamic
- Community-based and open at Jazz.net

Collaborate in Context



Right-size Governance



Day One Productivity

- Enable team transparency of "who, what, when, why"
- Build team cohesion and presence
- Automate hand-offs so nothing falls through the cracks

- Automate team workflow improving productivity
- Automate data collection eliminating administrative overhead
- Real time reporting and alerts reduces project risk

- Dynamic provisioning of projects and teams
- Real-time iteration planning and workload balancing
- Unify teams with tools choice

Real-time integration of people, process and projects across the lifecycle







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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

People

Desktop/database integration → Global integration
Function first → Team first
Pre-determined tool function → Dynamically extensible

Process

Rigid rules → Creative collaboration

Manual tasks → Process aware and transparent

Proprietary infrastructure → Internet standards

Projects

Lengthy project onboarding → Day one productivity

Hindsight analysis → Continuous steering

Status guesstimates → Real-time insight

...across the software lifecycle





Dynamic processes streamline team communication and collaboration



3 Collaborate on a plan Patricia: Project Manager,

Manage approval of new requirements, assign request and work. Monitor project status

Top down and the low level views link configuration, bug and cost tracking

4 Develop solution
Al: Software Architect, US
Deidre: Developer, Europe

Develops, integrates and delivers the change to integration team

Doesn't get in the way and doesn't add overhead

Project status anytime for all business sponsors



Packages releases and milestones.

Baseline artifacts

Shorter iterations demonstrate progress and enable continuous stakeholder feedback

Collaborative
Application Lifecycle
Management

6 Manage quality
Test Lead, India

Assigns system tests. Ensure release quality following the

Onboard team members across the world across projects in days, not months

5 Build and verify Mark Release Engineer,



Reduce integration errors with continuous build management





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







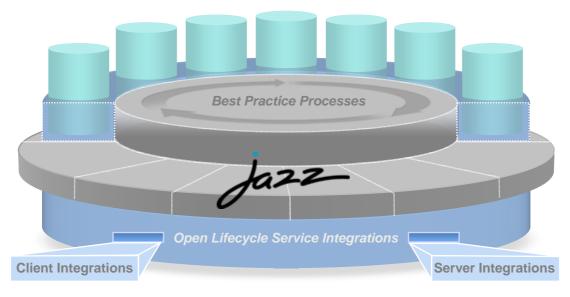
An evolution of value for new and existing customers

The next generation of the IBM Rational Software Delivery Platform

Existing Offerings

New Offerings

Business Partner Offerings











The Jazz Project

Home Community 🙃 Login

Create a jazz.net account

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:	Mailing Address:
Check this User ID for availability	*Address line 1:
Personal Information:	Address line 2:
*First name:	
	*City:
*Last name:	
1	State/Province (required U.S./Canada):
*E-mail:	-None -
	Zip/Postal Code (required U.S./Canada):
*Re-type E-mail:	
	*Country/region:
*Company or Organization name:	United States
565 559 555	
*Select the entry that best describes	If you have a <u>registration code</u> , enter it below:
- Select One -	

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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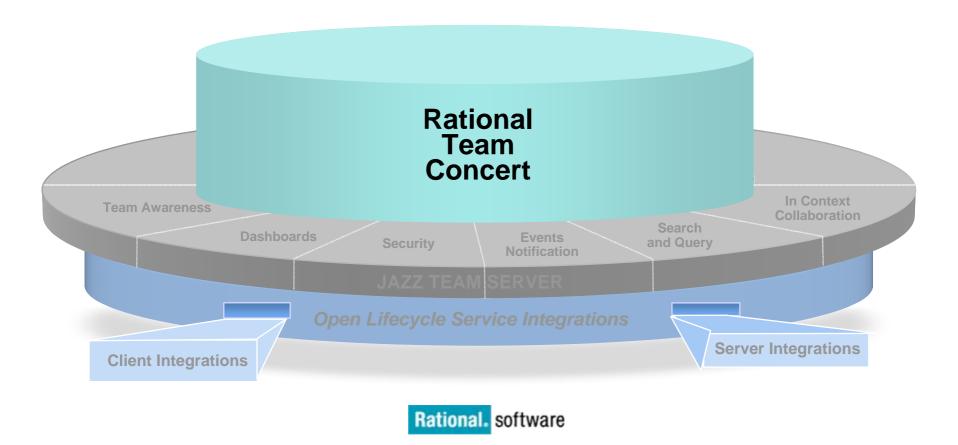






Rational Team Concert

The first offering built on the Jazz technology platform







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)









Translating words to actions

Fewer meetings and status reports Collaboration Reduction in late scrap and rework Collaborate in Context Reduced attrition of skills and greater leveraging top technical / business talent Easier to stay compliant with standards Clarity Right-size Governance Earlier detection and accelerated resolution of defects Improved predictability of projects Project initiation in days not weeks Continuity Day One Productivity Reduction in time to first demonstration. Improved cycle times through automated patterns, services and architectures Viral, but Controlled Development Open and Extensible Community Architecture Expanded Community Selectable integration characteristics





The Rational Team Concert family 2008

Express-C

Community and Academia

- In-context collaboration
- Open source middleware
- Up to 10 users per server

Express

Mid-sized and Departmental

- Transparent development
- Out-of-the-box processes
- Commercial middleware
- Up to 50 users per server

Standard

Corporate Teams

- Customizable process
- Real-time project health
- LDAP admin
- Enterprise scale and extensibility
- Up to 250 users per server

Statement of Direction (2009)

Enterprise

Enterprise Deployments

- Enterprise optimized extensions
- Integrated ClearCase, ClearQuest Build Forge
- Enterprise scale, security, governance & provisioning

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







Rational Team Concert

Iteration Planning

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

Project Transparency

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

SCM

- Integrated stream management 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

Build

- Work 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

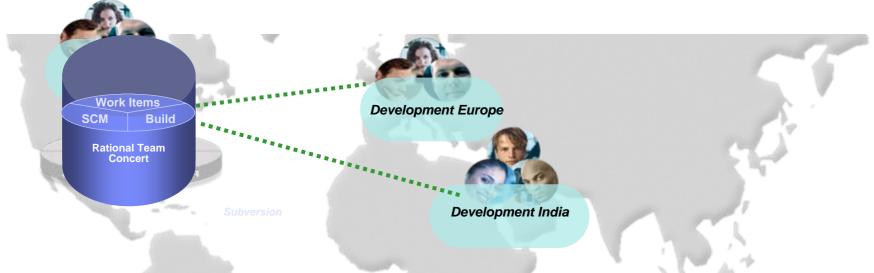
- Single structure for project related artifacts
- World-class team on-boarding / offboarding including team membership, sub-teams and project inheritance
- Role-based operational control for flexible definition of process and capabilities

- 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

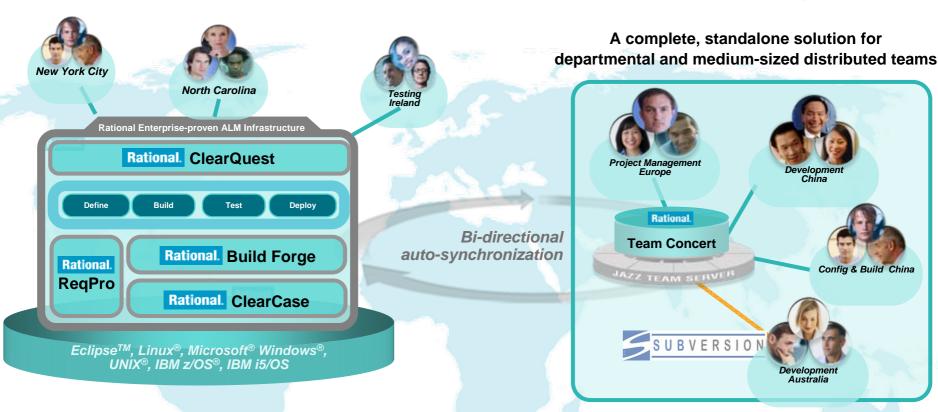


- ✓ Rational Team Concert Standard, Express, Express-C
 - A standalone development environment optimized for small and mid-sized teams
 - ✓ All the collaborative capabilities of the Jazz platform – plus integrated work items, SCM and build management
 - Dashboards and real-time reports
 - √ Team and Process-aware





Unify distributed teams in mid-sized or enterprise settings

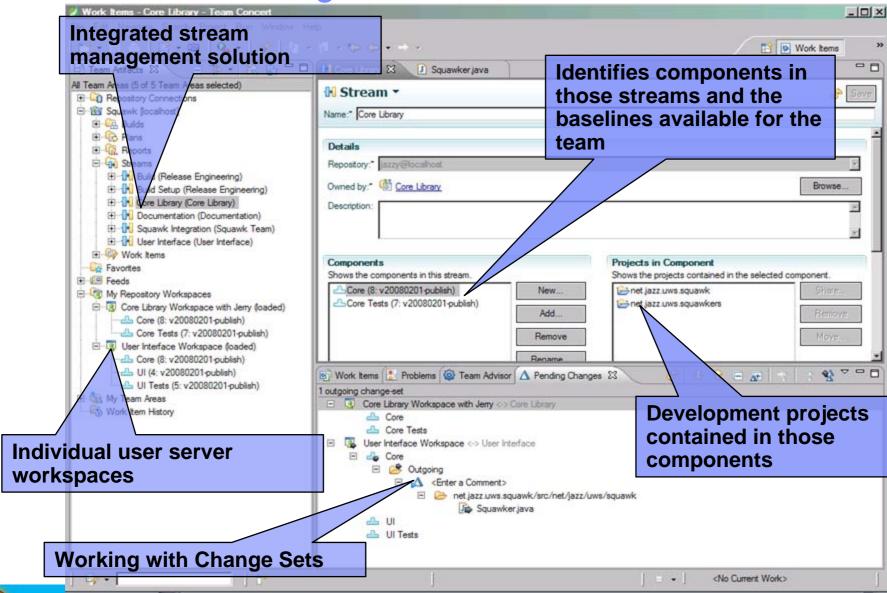


- Supports departmental "satellite" or "agile" projects optionally integrated with existing enterprise-proven Rational ALM infrastructure offerings
- Enhances existing ALM offerings with new collaborative & process capabilities



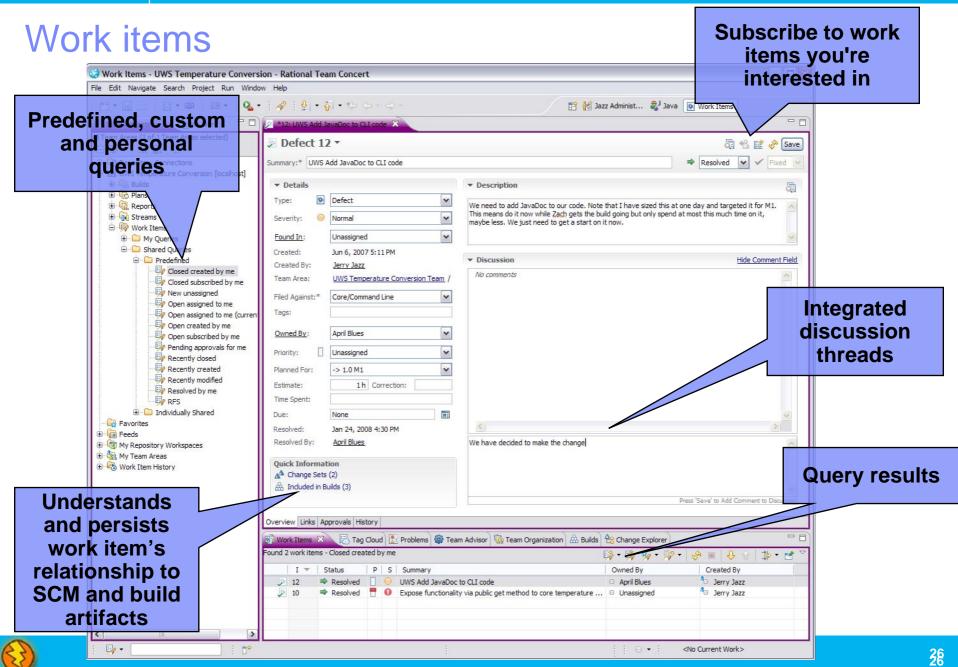


Source code management

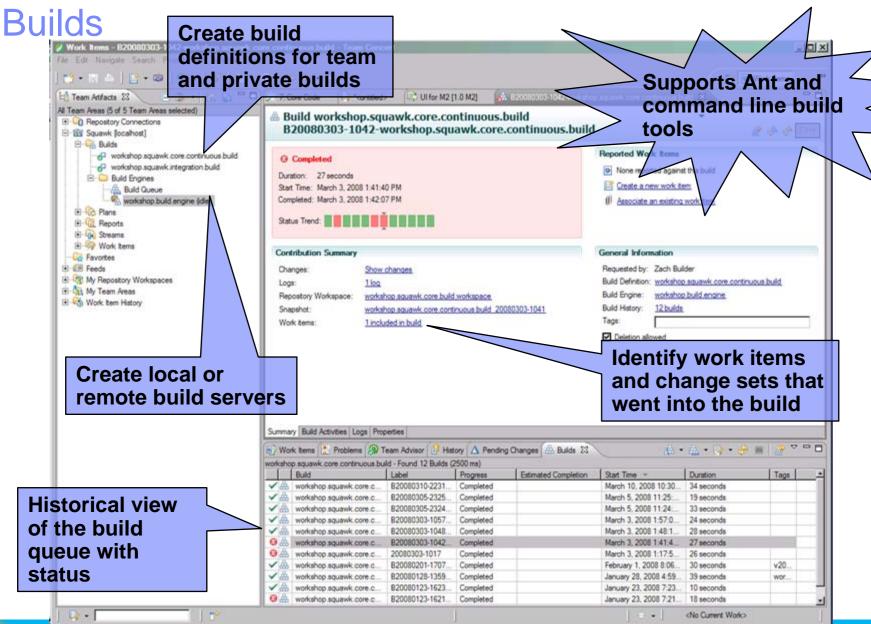








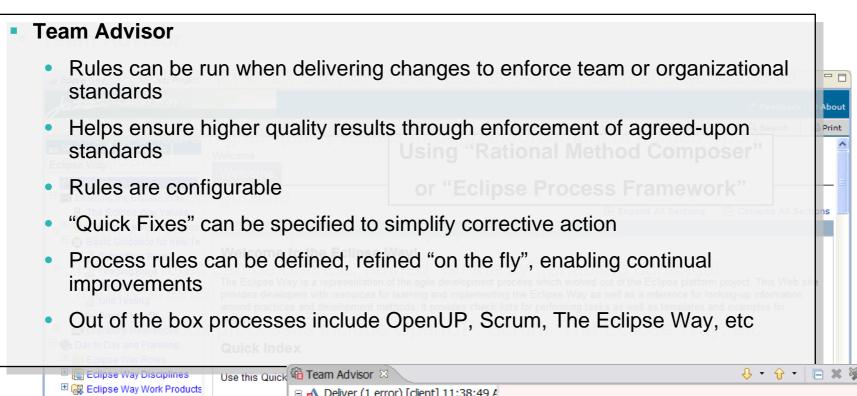


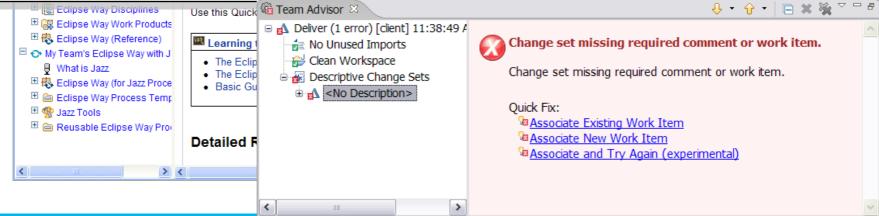






Enables process awareness and guidance

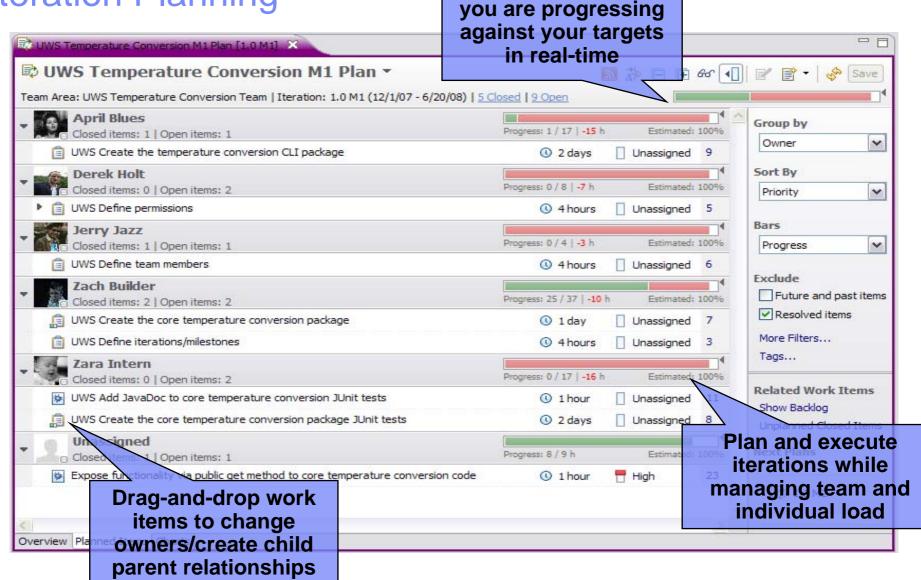








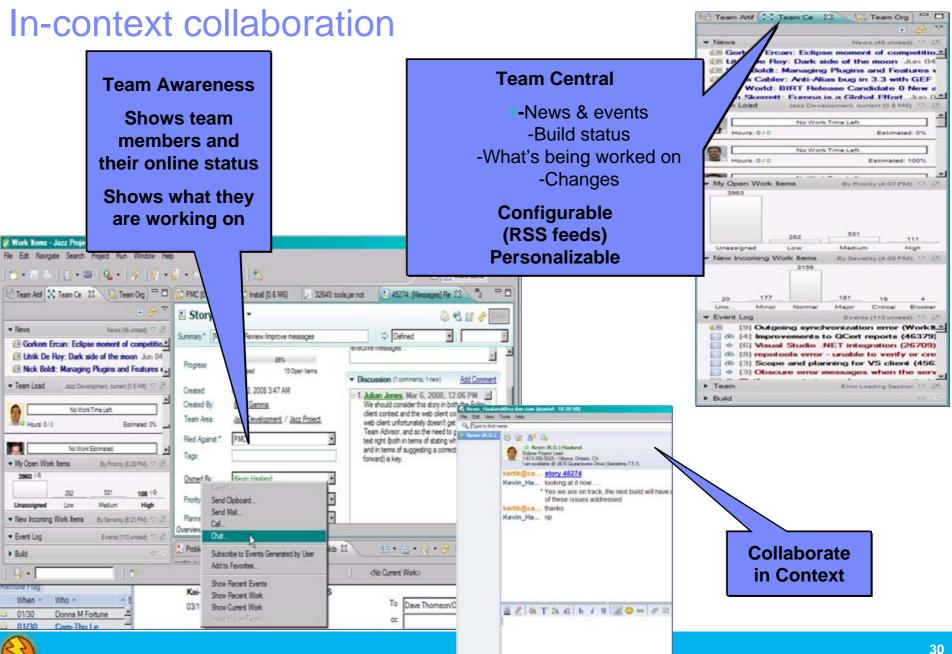
Iteration Planning



Understand how well



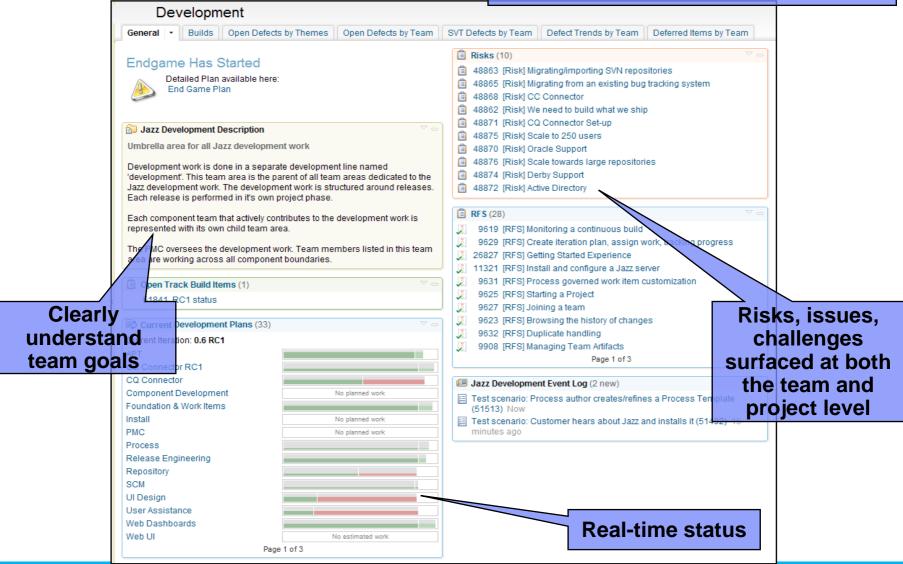






Dashboards

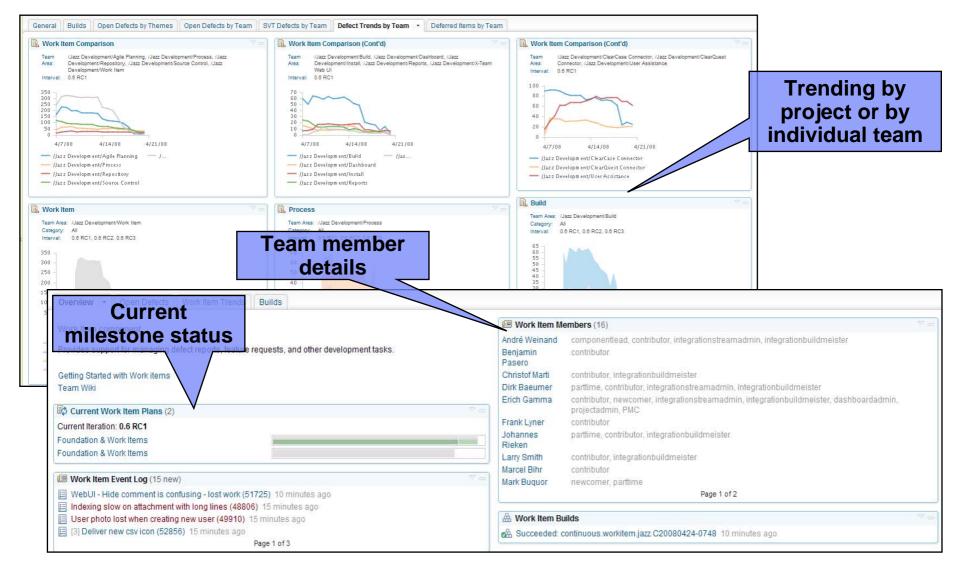
Transparency, collaboration and control via customizable dashboards







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!"

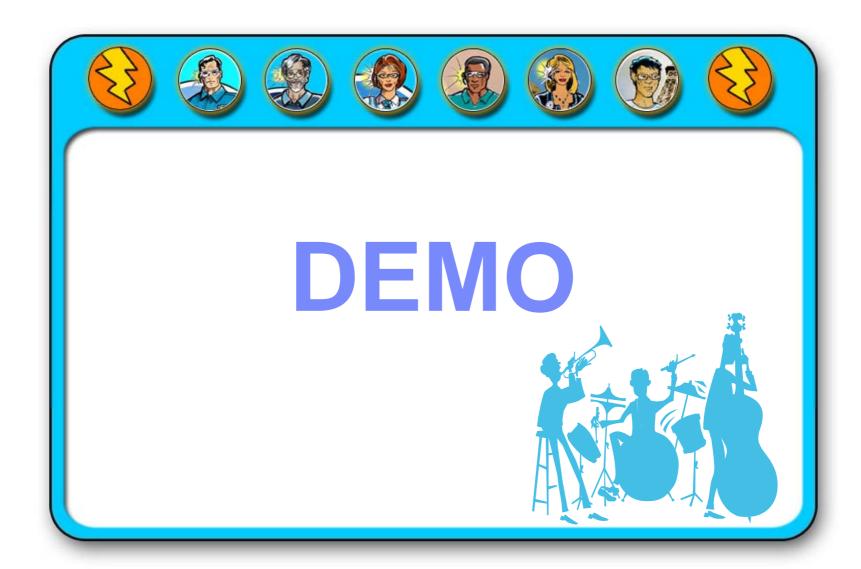
--Mika Koivuluoma - Production Manager, TietoEnator

"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 finger-pointing."

--Carson Holmes - Unified ALM Services Manager, Noblestar



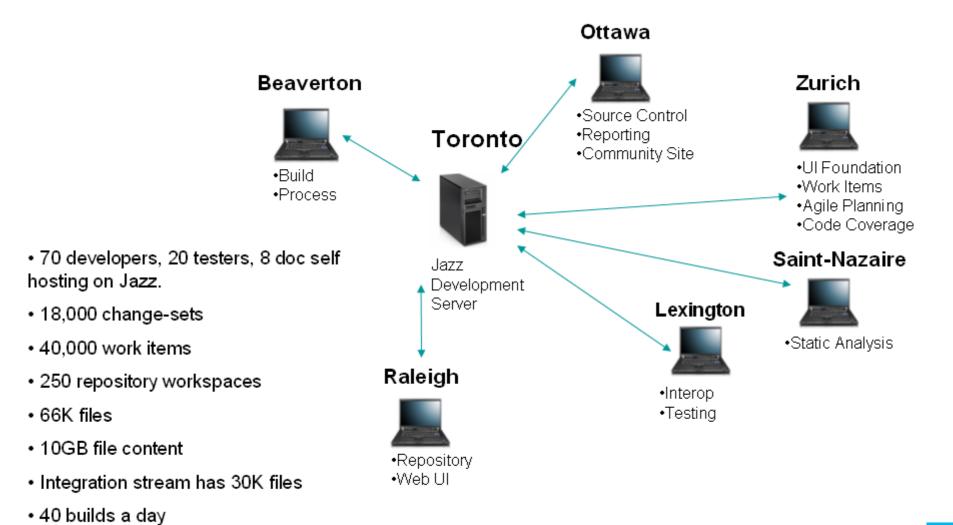








Developing Jazz/Team Concert with Team Concert

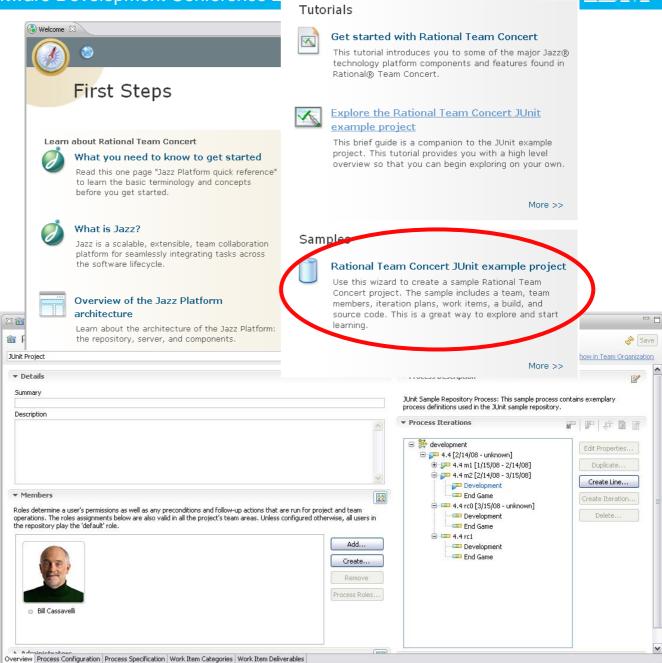


· Weekly integration build



Getting Started

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









QUESTIONS





















THANK YOU

- Learn more at:
- IBM Rational software
- IBM Rational Software Delivery Platform
- Process and portfolio management
- Change and release management
- Quality management
- Architecture management

- Rational trial downloads
- Leading Innovation Web site
- developerWorks Rational
- IBM Rational TV
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