

IBM Software

# Impact2010

Comes to You



Increase Team Agility with  
IBM Rational Team Concert

Martin Lee  
[yeekee@my.ibm.com](mailto:yeekee@my.ibm.com)



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# Everyone encounters these challenges



CIO

*There is no visibility back. It takes 2 weeks of effort to pull a consolidated view from 5 lines of businesses.*



Legal counsel

*I'd like to get involved early. Can't keep up with open source software licensing issues across multiple projects*



Project Manager

*Each tool comes with it's own repository. We need to connect and trace items and assets in a meaningful way.*



Developer

*Collaboration, sure but today these are just brittle point integrations and not scalable.*



Security Director

*I simply can't keep up. It would help if test and dev can do more*



Testing Team Lead

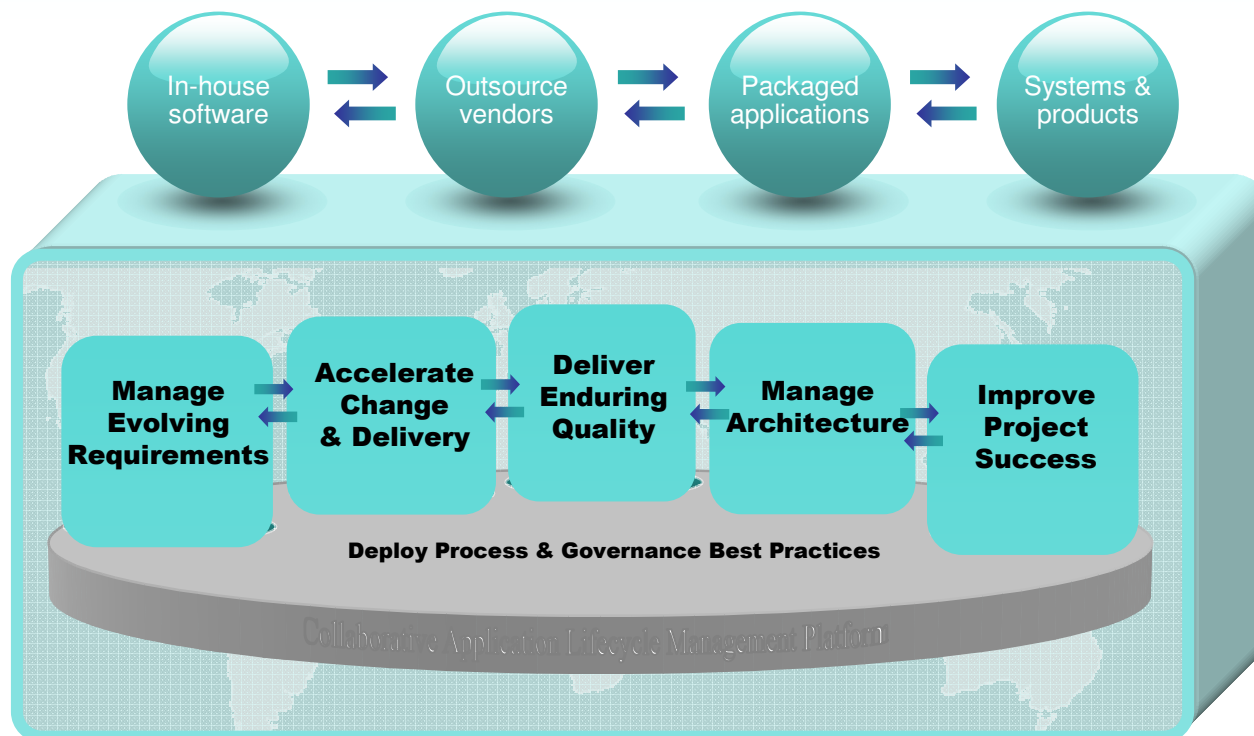
*We're ramping fast with our distributed teams. Transition and training is a huge cost.*



# IBM Rational Software Delivery Platform

**Rational.** software

*Solutions to help customers achieve greater value and performance from their investments in delivering software*



- Enterprise Modernization and Transformation
- Organizational Governance
- Skill Development and Community
- Implementation Services



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# Envisioning a platform that can transform software delivery

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



- robust, extensible and scaleable
- globally distributed, fluid & dynamic
- community-based & open at Jazz.net

## Collaborate in Context

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

## Right-size Governance

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

## Day One Productivity

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

*Dynamic integration of people, process and projects across the lifecycle*



# 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



# 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)

Open and extensible on



- ✓ Collaborate in context
- ✓ Right-size governance
- ✓ Day one productivity



**IBM Rational Team Concert**

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

*Collaborate in Context*

Collaboration

- Fewer meetings and status reports
- Reduction in late scrap and rework
- Reduced attrition of skills and greater leveraging top technical / business talent

*Right-size Governance*

Clarity

- Easier to stay compliant with standards
- Earlier detection and accelerated resolution of defects
- Improved predictability of projects

*Day One Productivity*

Continuity

- Project initiation in days not weeks
- Reduction in time to first demonstration
- Improved cycle times through automated patterns, services and architectures

*Open and Extensible Architecture*

Community

- Viral, but Controlled Development
- Expanded Community
- Selectable integration characteristics



# 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

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# Iteration Planning

Understand how well you are progressing against your targets in real-time

UWS Temperature Conversion M1 Plan [1.0 M1]

UWS Temperature Conversion M1 Plan

Team Area: UWS Temperature Conversion Team | Iteration: 1.0 M1 (12/1/07 - 6/20/08) | 5 Closed | 9 Open

Owner	Task	Progress	Estimated	Priority
April Blues	UWS Create the temperature conversion CLI package	1 / 17   -15 h	100%	Unassigned
Derek Holt	UWS Define permissions	0 / 8   -7 h	100%	Unassigned
Jerry Jazz	UWS Define team members	0 / 4   -3 h	100%	Unassigned
Zach Builder	UWS Create the core temperature conversion package	25 / 37   -10 h	100%	Unassigned
Zach Builder	UWS Define iterations/milestones	4 hours	100%	Unassigned
Zara Intern	UWS Add JavaDoc to core temperature conversion JUnit tests	0 / 17   -16 h	100%	Unassigned
Zara Intern	UWS Create the core temperature conversion package JUnit tests	0 / 8   -16 h	100%	Unassigned
Unassigned	Expose functionality via public get method to core temperature conversion code	8 / 9 h	100%	High

Group by: Owner

Sort By: Priority

Bars: Progress

Exclude:  Future and past items,  Resolved items

Related Work Items: Show Backlog

Drag-and-drop work items to change owners/create child parent relationships

Plan and execute iterations while managing team and individual load



# In-context collaboration

**Team Awareness**  
**Shows team members and their online status**  
**Shows what they are working on**

The screenshot displays the IBM Team Concert interface for a 'Jazz Project - Team Concert'. The main window shows a 'Story 45274' with a summary '[Messages] Review/improve messages' and a progress bar at 11%. A 'Discussion' section shows a comment from Julian Jones dated Mar 6, 2008, discussing the story's context. A context menu is open over the 'Owned By' field, listing options like 'Send File...', 'Send Clipboard...', 'Send Mail...', 'Call...', 'Chat...', 'Subscribe to Events Generated by User', 'Add to Favorites...', 'Show Recent Events', 'Show Recent Work', 'Show Current Work', and 'Invite to Join Team...'. The 'Chat...' option is highlighted. To the right, a chat window titled 'Kevin (K.G.) Haaland' shows a conversation between 'kartik@ca...' and 'Kevin\_Ha...' regarding the story. The left sidebar shows 'Team Load' for 'Jazz Development, current' with a 'No Work Time Left' indicator and a 'My Open Work Items' section with a total of 3960 items. The bottom of the interface shows a table with columns 'When' and 'Who'.





# Work items

Predefined, custom and personal queries

Subscribe to work items you're interested in

Integrated discussion threads

Query results

Understands and persists work item's relationship to SCM and build artifacts

The screenshot displays the Rational Team Concert Work Items interface. The main window shows a defect detail view for 'Defect 12'. The summary is 'UWS Add JavaDoc to CLI code'. The status is 'Resolved' and 'Fixed'. The details section includes fields for Type (Defect), Severity (Normal), Found In (Unassigned), Created (Jun 6, 2007 5:11 PM), Created By (Jerry Jazz), Team Area (UWS Temperature Conversion Team / Core/Command Line), Filed Against (Core/Command Line), Tags, Owned By (April Blues), Priority (Unassigned), Planned For (-> 1.0 M1), Estimate (1 h), Time Spent, Due (None), Resolved (Jan 24, 2008 4:30 PM), and Resolved By (April Blues). The description states: 'We need to add JavaDoc to our code. Note that I have sized this at one day and targeted it for M1. This means do it now while Zach gets the build going but only spend at most this much time on it, maybe less. We just need to get a start on it now.' The discussion section shows a comment: 'We have decided to make the change|'. Below the defect view, there is a table showing query results for 'Closed created by me'.

I	Status	P	S	Summary	Owned By	Created By
12	Resolved			UWS Add JavaDoc to CLI code	April Blues	Jerry Jazz
10	Resolved			Expose functionality via public get method to core temperature ...	Unassigned	Jerry Jazz





# Source code management

The screenshot displays the IBM Rational Team Concert (RTC) interface. On the left, a tree view shows 'All Team Areas' with a selected 'Core Library (Core Library)' component. The main pane shows the 'Stream' configuration for 'Core Library', including details like repository and ownership, and lists components such as 'Core' and 'Core Tests'. Below this, a 'Projects in Component' list shows 'net.jazz.uws.squawk' and 'net.jazz.uws.squawkers'. At the bottom, a 'Pending Changes' section shows an outgoing change set for the 'Core Library' workspace, listing files like 'Squawker.java' and 'UI Tests'.

**Integrated stream management solution**

**Identifies components in those streams and the baselines available for the team**

**Individual user server workspaces**

**Working with Change Sets**

**Development projects contained in those components**



# Builds

Create build definitions for team and private builds

Supports Ant and command line build tools

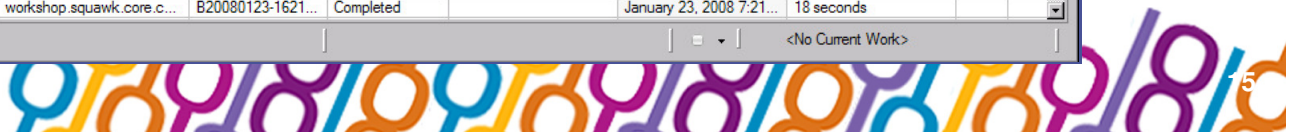
Create local or remote build servers

Identify work items and change sets that went into the build

Historical view of the build queue with status

The screenshot displays the IBM TeamForge Build interface. The top left shows a tree view of 'Team Artifacts' with 'Builds' expanded. The main area shows details for a completed build: 'Build workshop.squawk.core.continuous.build B20080303-1042-workshop.squawk.core.continuous.build'. It indicates the build is 'Completed' with a duration of 27 seconds, starting at 1:41:40 PM and ending at 1:42:07 PM on March 3, 2008. A status trend bar shows a mix of green and red segments. Below this, a 'Contribution Summary' lists changes, logs, repository workspace, snapshot, and work items. A 'General Information' section provides details on the requested user, build definition, engine, history, and tags. At the bottom, a 'Builds' table provides a historical view of 12 builds.

	Build	Label	Progress	Estimated Completion	Start Time	Duration	Tags
✓	workshop.squawk.core.c...	B20080310-2231...	Completed		March 10, 2008 10:30...	34 seconds	
✓	workshop.squawk.core.c...	B20080305-2325...	Completed		March 5, 2008 11:25...	19 seconds	
✓	workshop.squawk.core.c...	B20080305-2324...	Completed		March 5, 2008 11:24...	33 seconds	
✓	workshop.squawk.core.c...	B20080303-1057...	Completed		March 3, 2008 1:57:0...	24 seconds	
✓	workshop.squawk.core.c...	B20080303-1048...	Completed		March 3, 2008 1:48:1...	28 seconds	
✗	workshop.squawk.core.c...	B20080303-1042...	Completed		March 3, 2008 1:41:4...	27 seconds	
✗	workshop.squawk.core.c...	20080303-1017	Completed		March 3, 2008 1:17:5...	26 seconds	
✓	workshop.squawk.core.c...	B20080201-1707...	Completed		February 1, 2008 8:06...	30 seconds	v20...
✓	workshop.squawk.core.c...	B20080128-1359...	Completed		January 28, 2008 4:59...	39 seconds	wor...
✓	workshop.squawk.core.c...	B20080123-1623...	Completed		January 23, 2008 7:23...	10 seconds	
✗	workshop.squawk.core.c...	B20080123-1621...	Completed		January 23, 2008 7:21...	18 seconds	



# Dashboards

Transparency, collaboration and control via customizable dashboards

The screenshot shows a 'Development' dashboard with several sections:

- General** tab selected, with sub-tabs: Builds, Open Defects by Themes, Open Defects by Team, SVT Defects by Team, Defect Trends by Team, Deferred Items by Team.
- Endgame Has Started** notification with a warning icon and text: 'Detailed Plan available here: End Game Plan'.
- Jazz Development Description** section: 'Umbrella area for all Jazz development work'. It explains that development work is in a separate line named 'development' and is structured around releases. It also mentions that each component team has its own child team area and that the PMC oversees the work.
- Open Track Build Items (1)** section: Shows item 41841 with RC1 status.
- Current Development Plans (33)** section: A table with progress bars for various components. The 'UI Design' component shows a significant red segment, indicating a critical issue or delay. Other components like 'CQ Connector', 'Component Development', 'Foundation & Work Items', 'Install', 'PMC', 'Process', 'Release Engineering', 'Repository', 'SCM', 'User Assistance', 'Web Dashboards', and 'Web UI' show varying levels of progress.
- Risks (10)** section: A list of risks with IDs and descriptions, such as '48863 [Risk] Migrating/importing SVN repositories' and '48872 [Risk] Active Directory'.
- RFS (28)** section: A list of Release Functionality Set (RFS) items with IDs and descriptions, such as '9619 [RFS] Monitoring a continuous build' and '9908 [RFS] Managing Team Artifacts'.
- Jazz Development Event Log (2 new)** section: Shows recent events, including 'Test scenario: Process author creates/refines a Process Template (51513) Now' and 'Test scenario: Customer hears about Jazz and installs it (51482) 15 minutes ago'.

Clearly understand team goals

Risks, issues, challenges surfaced at both the team and project level

Real-time status





# Dashboards and reporting

The dashboard displays several key components:

- Work Item Comparison (Cont'd):** Three line charts showing trends for different teams and areas over time (4/7/08 to 4/21/08).
  - Chart 1: Team: /Jazz Development/Agile Planning, /Jazz Development/Process, /Jazz Development/Repository, /Jazz Development/Source Control, /Jazz Development/Work Item. Area: Development/Repository, /Jazz Development/Source Control, /Jazz Development/Work Item. Interval: 0.6 RC1.
  - Chart 2: Team: /Jazz Development/Build, /Jazz Development/Dashboard, /Jazz Development/Install, /Jazz Development/Reports, /Jazz Development/X-Team. Area: Web UI. Interval: 0.6 RC1.
  - Chart 3: Team: /Jazz Development/ClearCase Connector, /Jazz Development/ClearQuest Connector, /Jazz Development/User Assistance. Area: Connector, /Jazz Development/User Assistance. Interval: 0.6 RC1.
- Work Item:** A bar chart showing work item counts for various categories.
- Process:** A bar chart showing process-related metrics.
- Build:** A bar chart showing build counts.
- Work Item Members (16):** A list of team members and their roles.
 

André Weinand	componentlead, contributor, integrationstreamadmin, integrationbuildmeister
Benjamin Pasero	contributor
Christof Marti	contributor, integrationbuildmeister
Dirk Baeumer	parttime, contributor, integrationstreamadmin, integrationbuildmeister
Erich Gamma	contributor, newcomer, integrationstreamadmin, integrationbuildmeister, dashboardadmin, projectadmin, PMC
Frank Lyner	contributor
Johannes Rieken	parttime, contributor, integrationbuildmeister
Larry Smith	contributor, integrationbuildmeister
Marcel Bihl	contributor
Mark Buquor	newcomer, parttime
- Work Item Builds:** A list of recent build events, including "Succeeded: continuous.workitem.jazz C20080424-0748 10 minutes ago".
- Current Work Item Plans (2):** Shows the current iteration (0.6 RC1) and progress bars for "Foundation & Work Items".
- Work Item Event Log (15 new):** A list of recent events such as "WebUI - Hide comment is confusing - lost work (51725) 10 minutes ago".

Callouts highlight specific features:

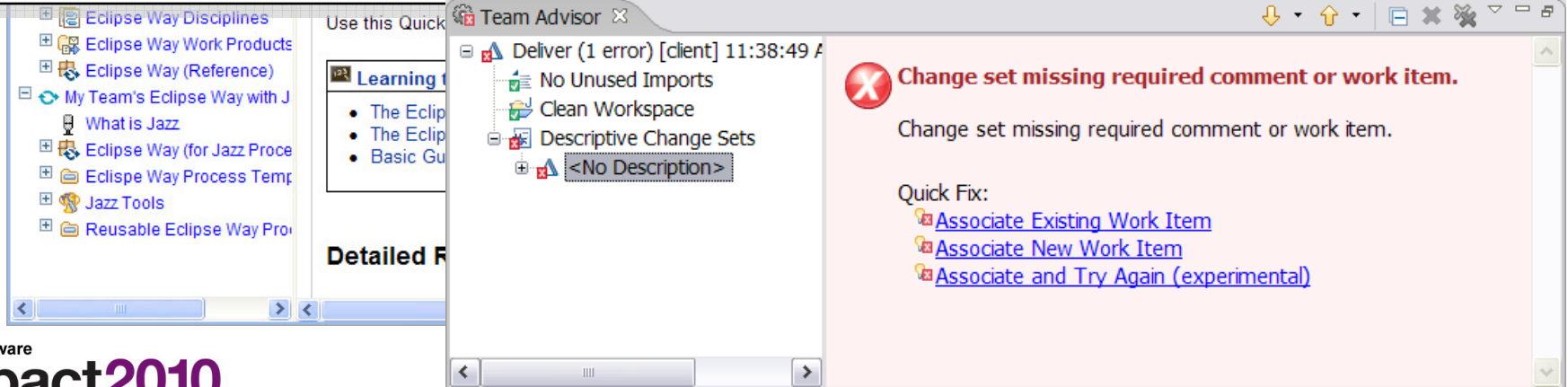
- Trending by project or by individual team:** Points to the Work Item Comparison charts.
- Team member details:** Points to the Work Item Members list.
- Current milestone status:** Points to the Current Work Item Plans section.



# Enables process awareness and guidance

## ■ Team Advisor

- Rules can be run when delivering changes to enforce team or organizational standards
- Helps ensure higher quality results through enforcement of agreed-upon standards
- Rules are configurable
- “Quick Fixes” can be specified to simplify corrective action
- Process rules can be defined, refined “on the fly”, enabling continual improvements
- Out of the box processes include OpenUP, Scrum, The Eclipse Way, etc





# The Rational Team Concert family 2008

Statement of  
Direction (2009)

## Express-C

### Entry Level Teams

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

## Express

### Mid-sized & 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

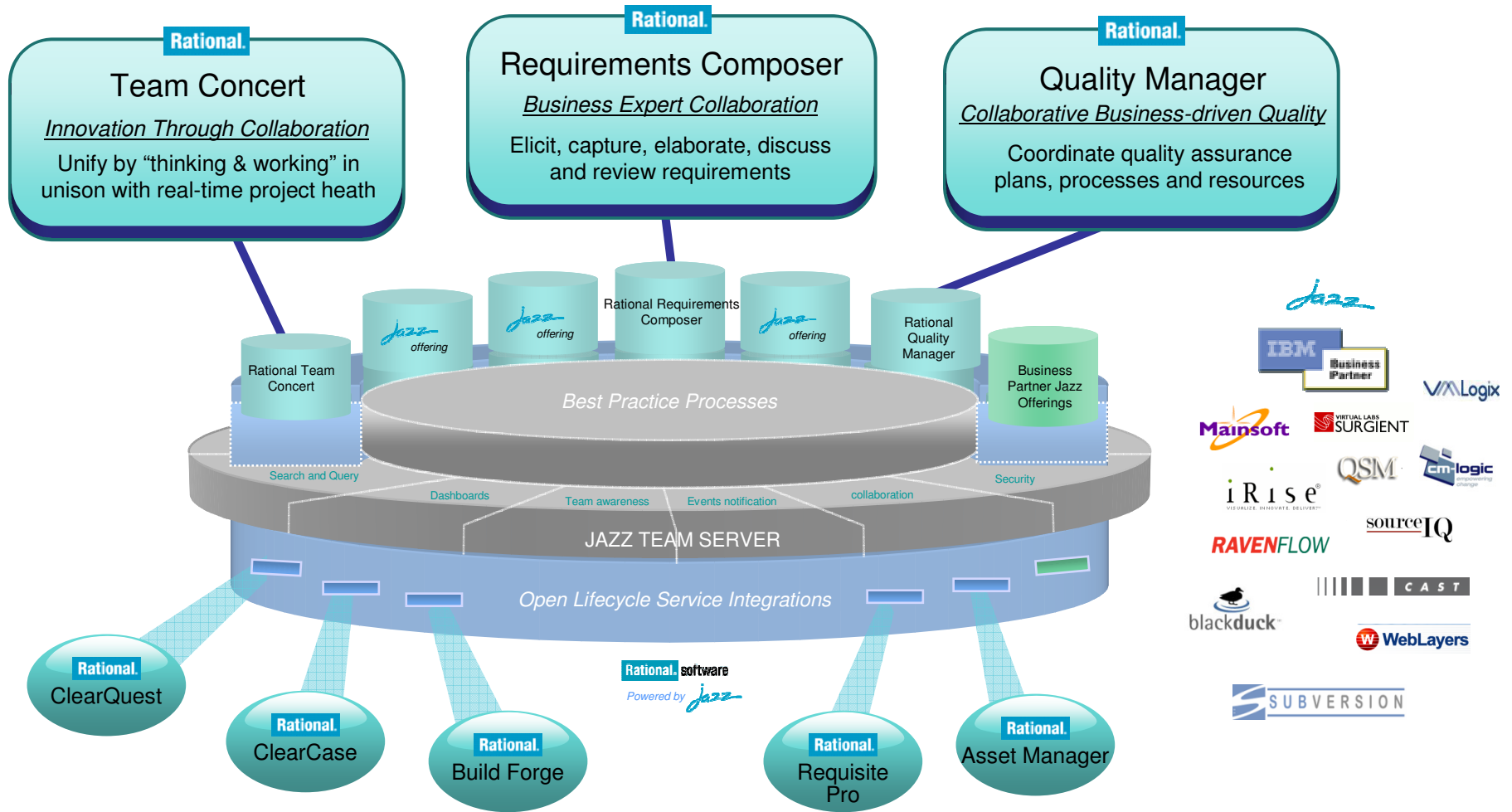
## Enterprise

### Enterprise Deployments

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

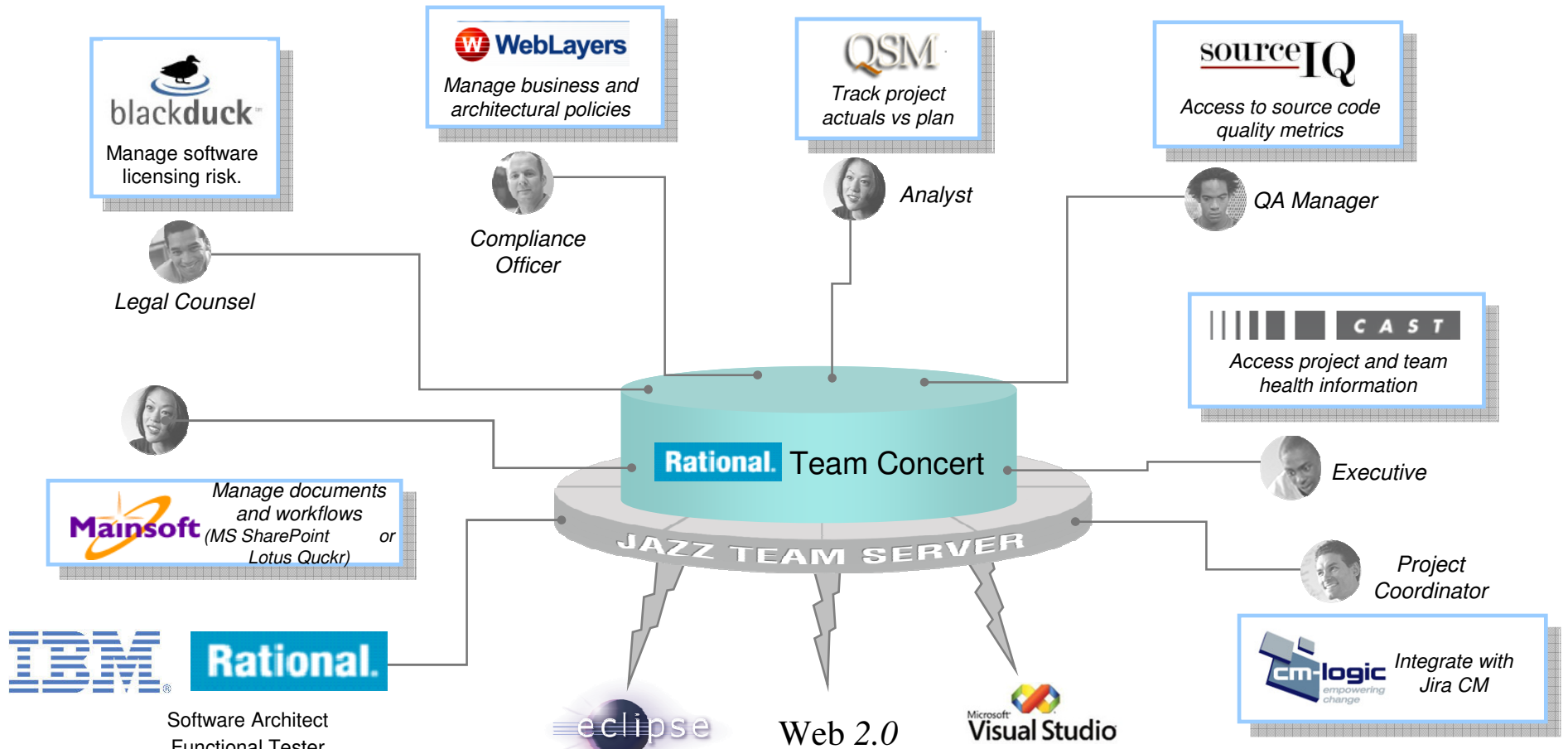
*Eclipse™, Linux®, MS Windows®, UNIX® - z/OS® (1H 09) & i5/OS (3Q) w/ native asset & work item mgmnt*

# Introducing the first wave of new Jazz offerings





# Extend team collaboration to a broad range of software professionals

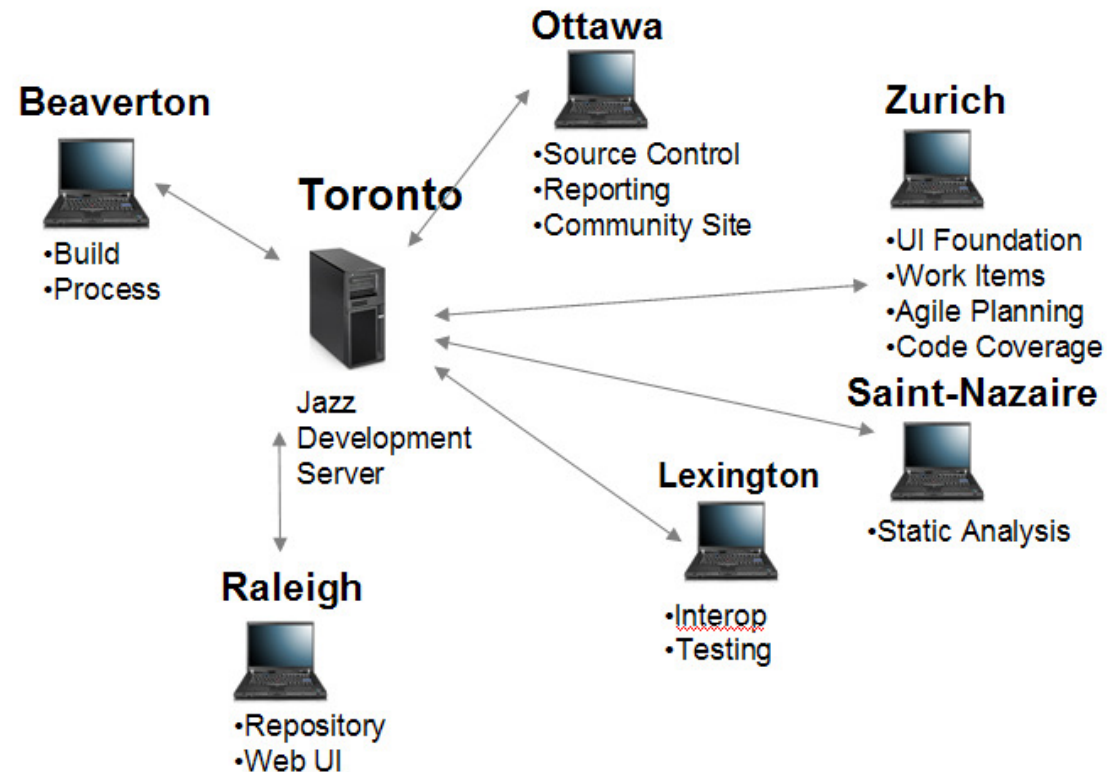


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# How we use Rational Team Concert

- 2-way Xeon Server running application server (WAS) and another running DB2
- Jazz Project – Using bi-weekly iteration builds
  - Jazz and Rational Team Concert self hosting since 4Q06
  - Global team in 7 locations in NA Europe and India
  - ~100 developers, plus jazz.net webclient access
  - Repro > 10G, 66K files, 43K work items
- Established “Rhythm”
- Over 10 internal Rational development teams leveraging Rational Team Concert
- 25+ Other Rational teams using Rational Team Concert



## Additional resources



- Find out more about Rational Team Concert  
<http://ibm.com/rational/rtc>
- Download the trial and participate in the open commercial development project  
<http://jazz.net>
- Explore Rational Team Concert tutorials, demos and other developer learning resources  
<http://ibm.com/developerworks/spaces/jazz>
- Learn more about the Jazz technology and the future IBM Rational product roadmap  
<http://ibm.com/rational/jazz/roadmap>





Thank

YOU

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