



IBM Software Group

How Jazz Team Server makes global software development a joy

IBM's view of software development environment

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Rational software

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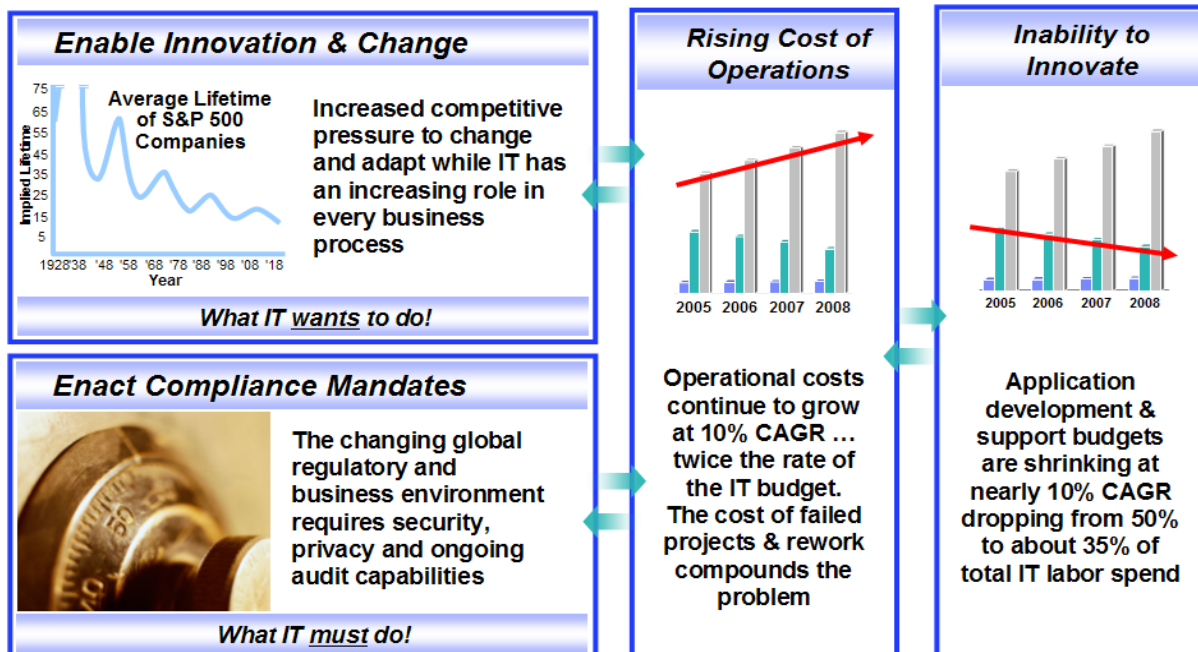
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The business landscape facing IT & business leaders

The need to innovate with less

"The State of the CIO, 2006" - CIO Magazine



Bottom Line: Enable Business Flexibility...

Today's reality: An intense focus on business outcomes

"The State of the CIO, 2006" - CIO Magazine



Align IT investments with rapidly evolving business priorities



Manage value and mitigate risks by improving project management



Control costs & improve global operational efficiencies



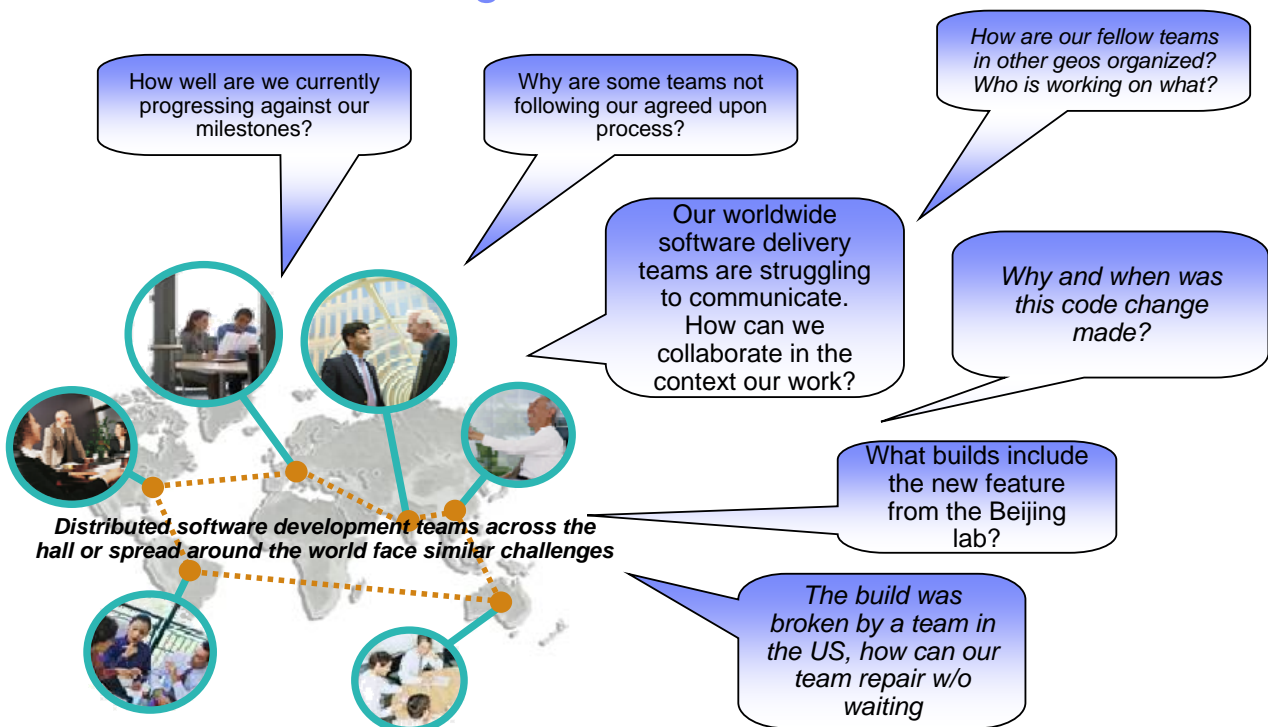
Ensure security and compliance in a changing global environment



Integrate value in organizationally diverse environments



Collaboration Challenges with Distributed teams



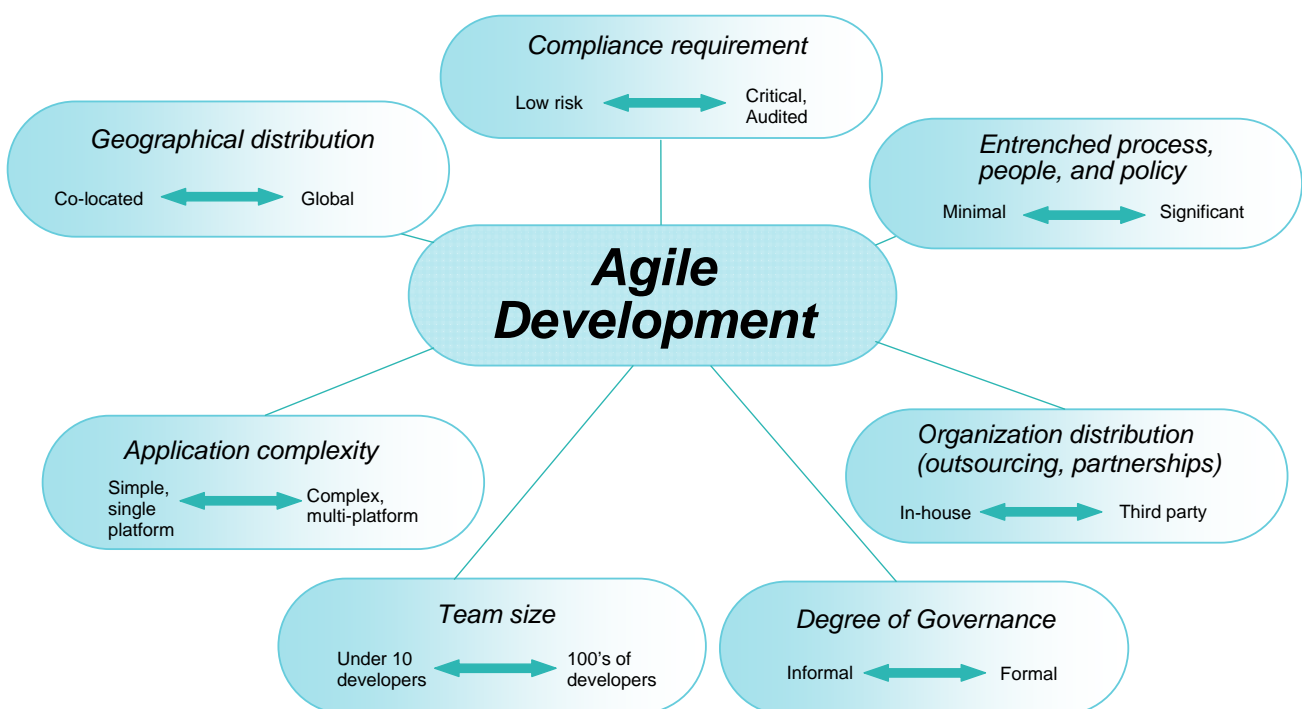
What is Agile?

- An iterative and incremental (evolutionary) approach performed in a highly collaborative manner with **just the right amount of ceremony** to produce high quality software in a cost effective and timely manner which meets the changing needs of its stakeholders.

- Core principles
 - ▶ “Fits just right” process
 - ▶ Continuous testing and validation
 - ▶ Consistent team collaboration
 - ▶ Rapid response to change
 - ▶ Ongoing customer involvement
 - ▶ Frequent delivery of working software



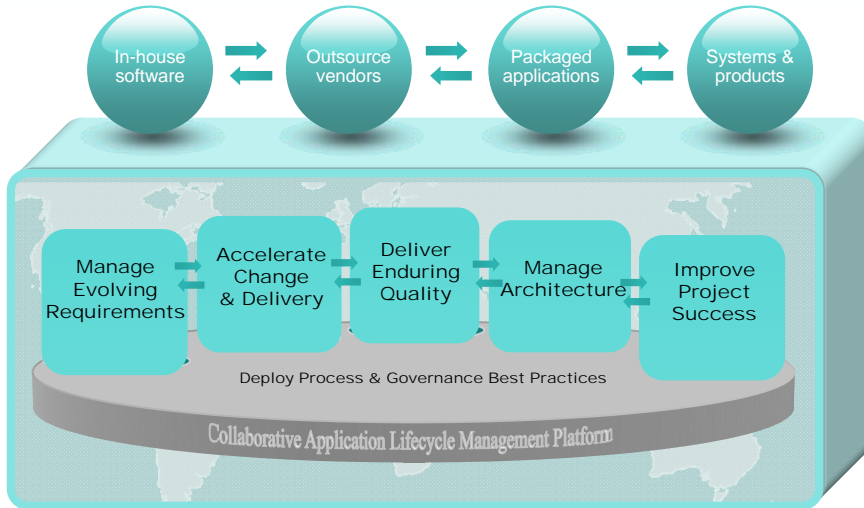
Challenges with Agile in the Mainstream



IBM Rational Software Delivery Platform

Rational. software

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

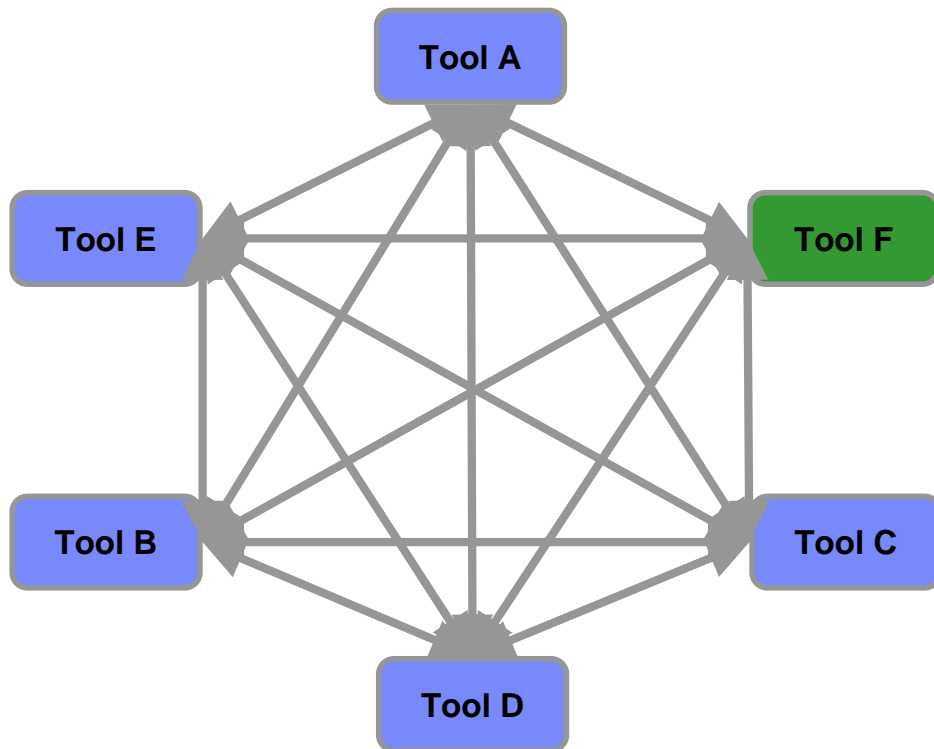


- Enterprise Modernization and Transformation
- Organizational Governance
- Skill Development and Community
- Implementation Services

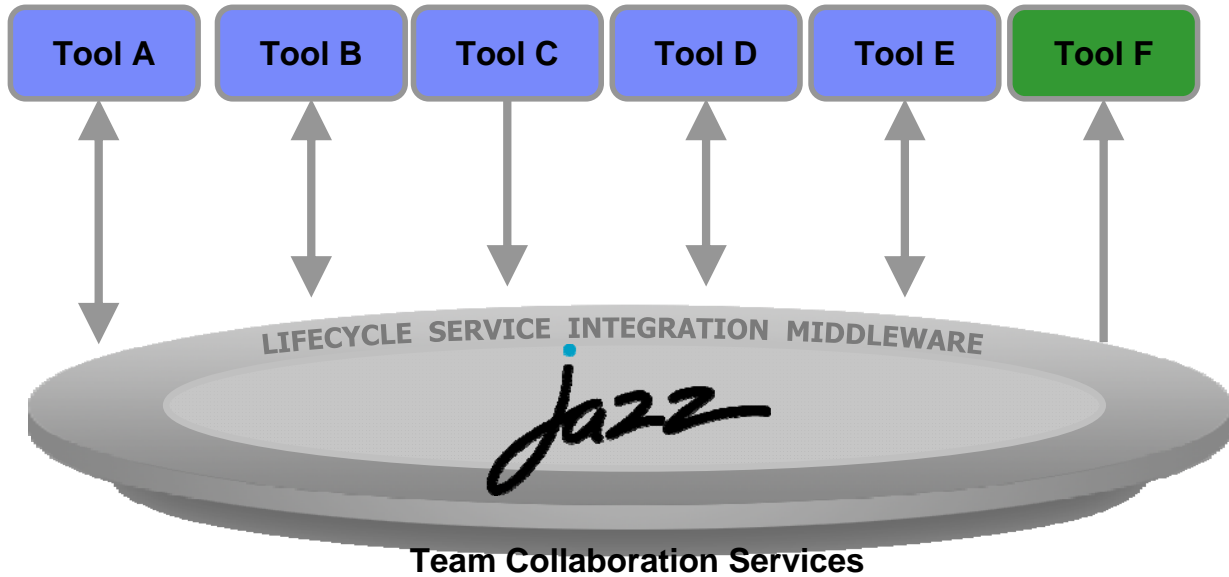
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Tools collaboration generally means exponential complexity!



Tools collaboration based on middleware services



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.



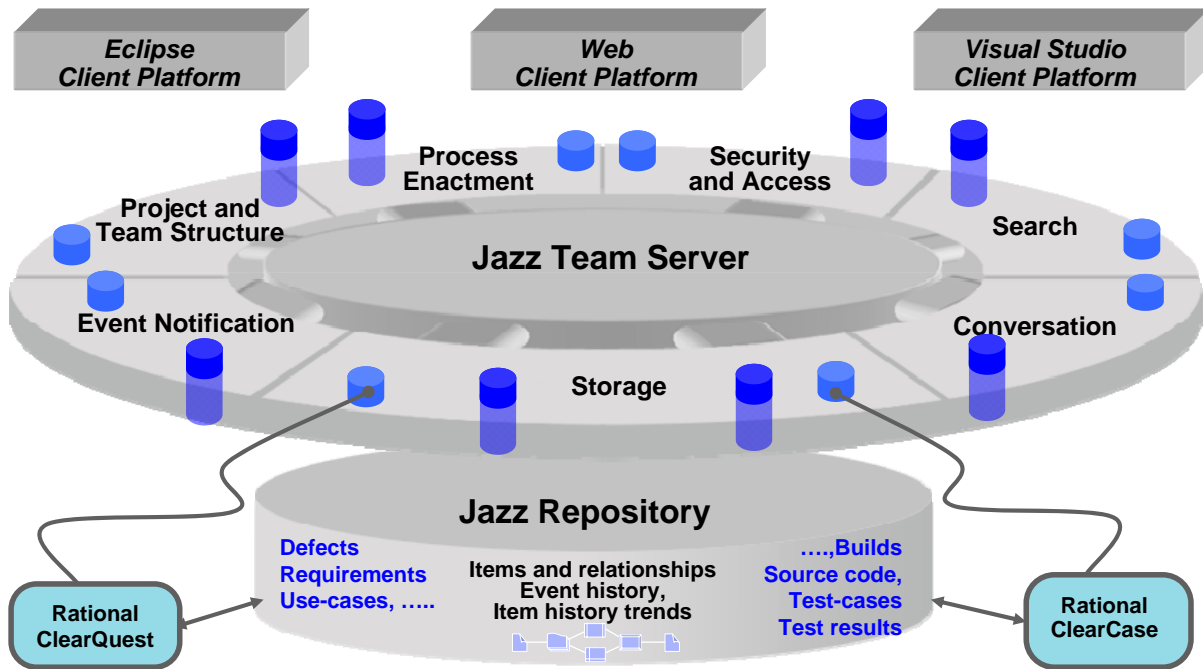
- robust, extensible and scaleable
- globally distributed, fluid & dynamic
- community-based & open at Jazz.net

Collaborate in Context	Right-size Governance	Day One Productivity
<ul style="list-style-type: none"> ▪ Enable team transparency of "who, what, when, why" ▪ Build team cohesion and presence ▪ Automate hand-offs – so nothing falls through the cracks 	<ul style="list-style-type: none"> ▪ Automate team workflow improving productivity ▪ Automate data collection eliminating administrative overhead ▪ Real time reporting and alerts reduces project risk 	<ul style="list-style-type: none"> ▪ 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



The Jazz approach



Open Services for Lifecycle Collaboration

An initiative aimed at simplifying collaboration across the software delivery lifecycle

Barriers to sharing resources and assets across the software lifecycle

- ▶ Multiple vendors, open source projects, and in-house tools
- ▶ Private vocabularies, formats and stores

Open Services for Lifecycle Collaboration

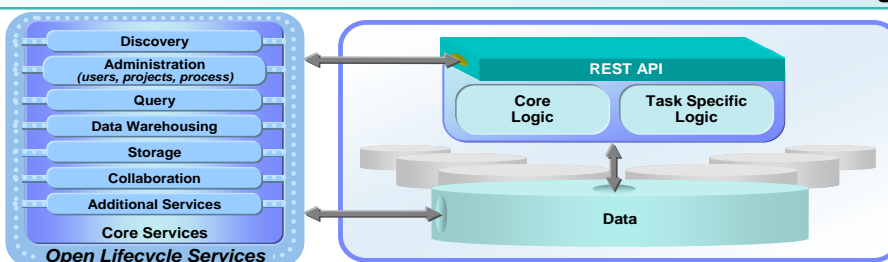
▶ A proposed architecture for sharing lifecycle resources

- Described on Jazz.net through illustrative resource definitions, service implementations, and use cases

▶ Inspired by Internet architecture

- Loosely coupled integration with “just enough” standardization
- Common resource formats and services

▶ Innovation from the Jazz technology platform

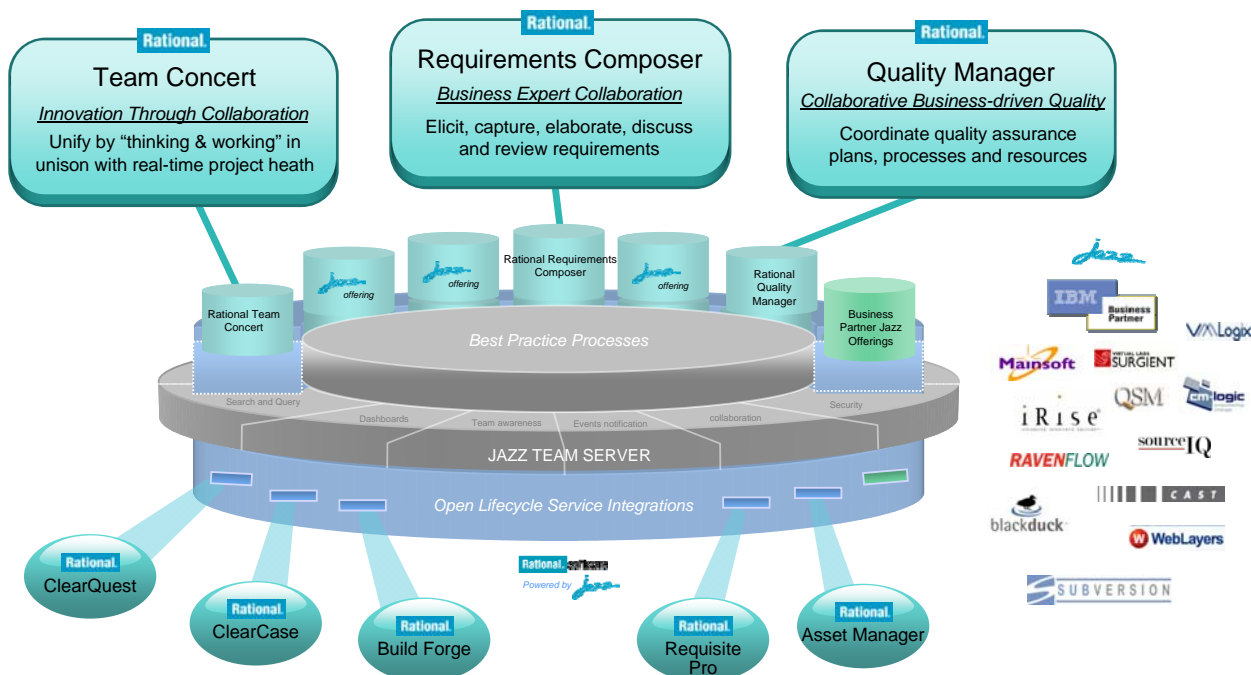


Jazz.net: Delivering greater openness and customer participation in the products they depend on for software delivery

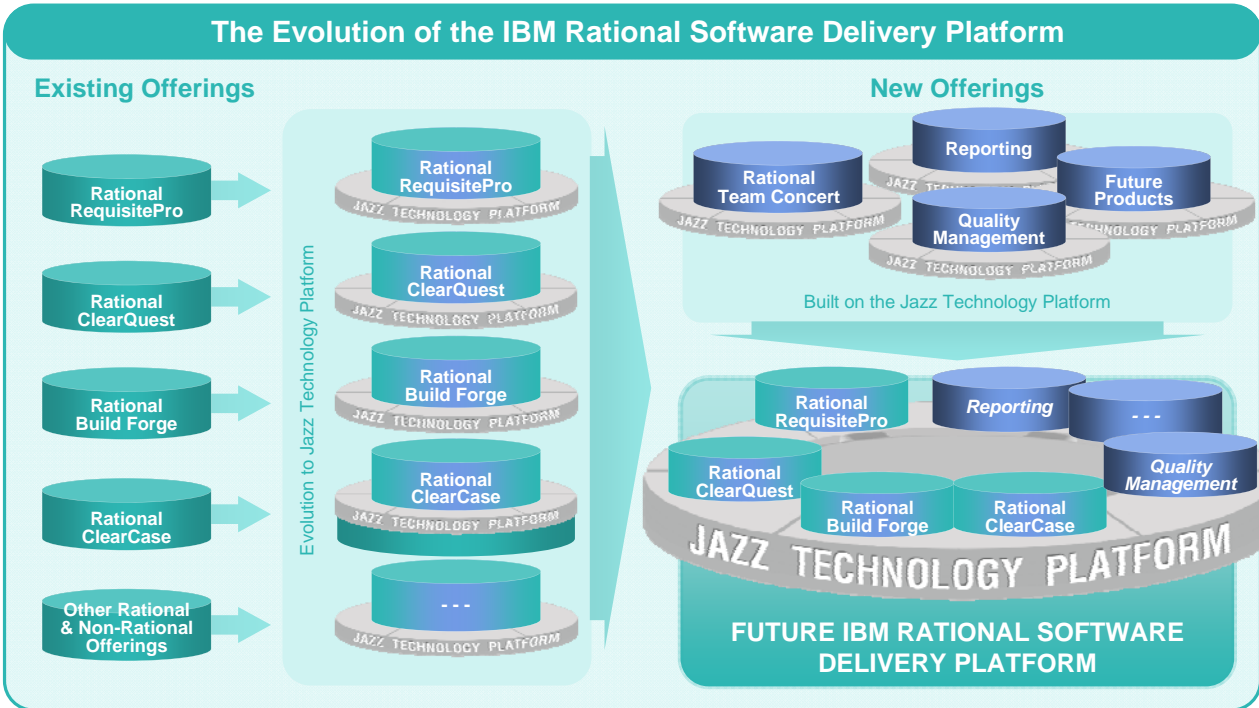
- IBM is opening up the Rational Software Delivery Platform for greater ease of consumption, extensibility and integration to meet the unique usage needs of our customers
- IBM is providing transparent, collaborative customer participation in the development of new Rational technologies through an open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



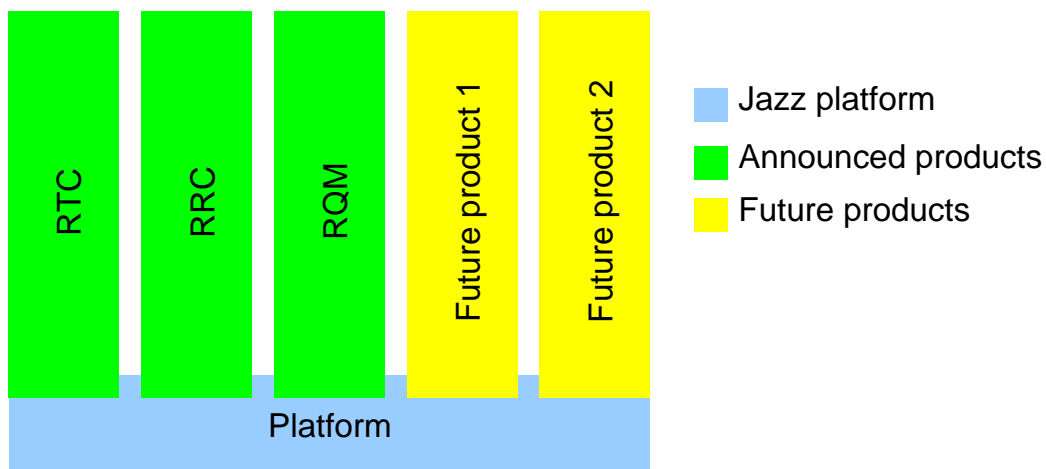
Introducing the first wave of new Jazz offerings



Jazz technology will be introduced in an evolutionary manner

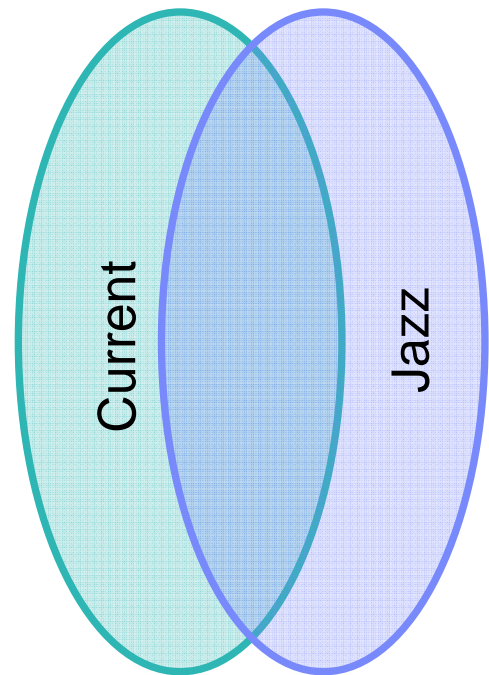


Jazz is not a product (it's a platform)

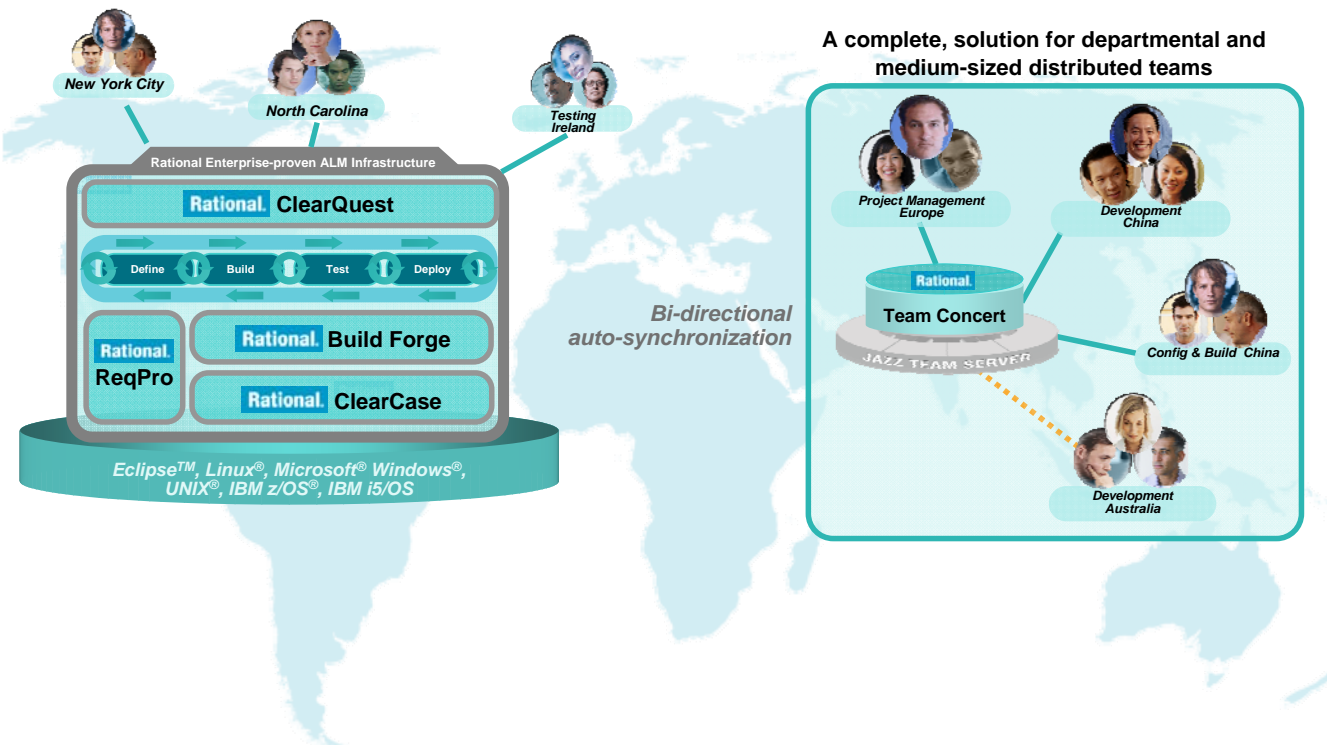


Interoperability

- Jazz has overlapping capabilities to current Rational technology
- Interoperability is major design point
- Coexistence of "traditional" and "agile" teams
 - ▶ Connector – Data synchronization
 - ▶ Users do not have to care about other side



Unify distributed teams in mid-sized or enterprise settings



Rational Team Concert

<h3>Iteration Planning</h3> <ul style="list-style-type: none"> Integrated iteration planning and execution Task estimation linked to key milestones Out of the box agile process templates 	<h3>Project Transparency</h3> <ul style="list-style-type: none"> Customizable web based dashboards Real time metrics and reports Project milestone tracking and status 	
<h3>SCM</h3> <ul style="list-style-type: none"> Integrated stream management with flow relationships Component level baselines Server-based sandboxes Identifies component in streams and available baselines ClearCase connector 	<h3>Work Items</h3> <ul style="list-style-type: none"> Defects, enhancements and conversations Query results view and share queries with team or member Support for approvals and discussions ClearQuest connector Query editor interface 	<h3>Build</h3> <ul style="list-style-type: none"> 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
<h3>Jazz Team Server</h3> <ul style="list-style-type: none"> 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 		



Rational Quality Manager

Tester

Requirements

Quality Management

Defects

- 1000s users
- Web based UI
- No Java experience
- Knows application domain
- Talks business language

Test Management

- Control the planning and ongoing status of the test project
- Responsible for effective execution of test and resources

Tester

- Develops automated tests
- 100s users
- Deep tool/programming language knowledge
- Talks technology language

Test Planning

- Specify test type
- Project requirements
- Platforms
- Team roles
- Test cases
- Quality exit criteria
- Schedules

Test Construction

- Build test scripts
- Create manual tests
- Specify test environment

Test Lab Setup

- Identify build location
- Specify lab request
- Pick test tools
- Select cases to run
- Deploy software

Test Execution

- Execute UI test
- Execute
- Report real time progress
- Create log files

Test Analysis

- Examine test results
- Recommend actions
- Code scanning
- Error analysis
- Run time analysis

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IBM Rational Requirements Composer

Requirements Management and Definition

- **Requirements Definition**
 - ▶ Elicit, capture, review and discuss requirements using a variety of techniques and notations
- **Rich text capture**
 - ▶ Organize the web of information into documents
 - ▶ Create and link requirements across documents and external sources
- **Business processes**
 - ▶ Sketch Processes, Tasks and Decision points, and link to Use cases, Business rules in BPMN notation
- **UI sketches and storyboards**
 - ▶ Capture Sketches and Storyboards, and update over project iterations
 - ▶ Validate user experience requirements
- **Use Cases**
 - ▶ Create informative diagrams
 - ▶ Elaborate with rich document descriptions
- **Glossaries**
 - ▶ Promote consistency, clarity and correctness
- **Collaboration**
 - ▶ Attach comments to elements and run comment threads for conversational context

