

IBM Software Group

IBM Rational's Jazz Vision

Scott Rich, IBM Distinguished Engineer Rational CTO for Northeast Europe 11 May, 2011

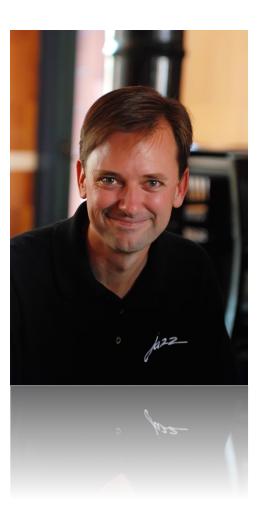
Rational. software



IBM

Introduction - who am I and what's my perspective on Jazz?

- Scott Rich
- IBM Distinguished Engineer
- CTO for Rational in NE Europe
- srich@ch.ibm.com
- One of the leaders of the Jazz Project
 - Building tools for Agile
 - Leading a worldwide Agile team





- What is Jazz? Why did we do it?
 - Rational Team Concert a Jazz-based product
- Team Concert Today
 - How we use it ourselves
 - Recent development focus areas:
 - Application Lifecycle Management growing the Jazz family
 - Using Jazz and OSLC to integrate other tools





The New Normal! Do more with less! Work Smarter! Ugh...

Software Development Must Deliver:

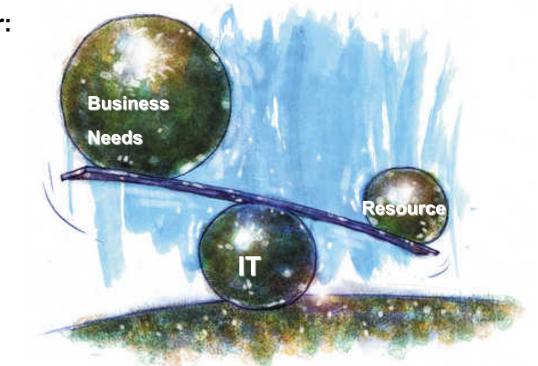
- ✓ More business solutions
- ✓ More flexibility
- ✓More quality
- ✓More business value

-yet-

✓Less risk

✓Less costs

✓Less or flat resources



In our experience, Agile practices and collaborative development tools can help solve this apparent conflict.



Five Years Ago: Our Pain Points...

- joining a team
- get my environment configured to be productive
- what is happening in my team
- collecting progress status
- following the team's process
- ✓ ad hoc collaboration/sharing of changes
- starting an ad hoc team
- ✓ is the fix in the build?
- ✓ run a personal build
- tracking a broken build
- ✓ why is this change in the build?
- reconstructing a context for a bug/build failure
- interrupting development due to a high priority bug fix
- working on multiple releases concurrently
- tracking the code review of a fix
- referencing team artifacts in discussions
- how healthy is a component?
- collecting project data/metrics?
- keeping plans up to date



Build awareness

Project

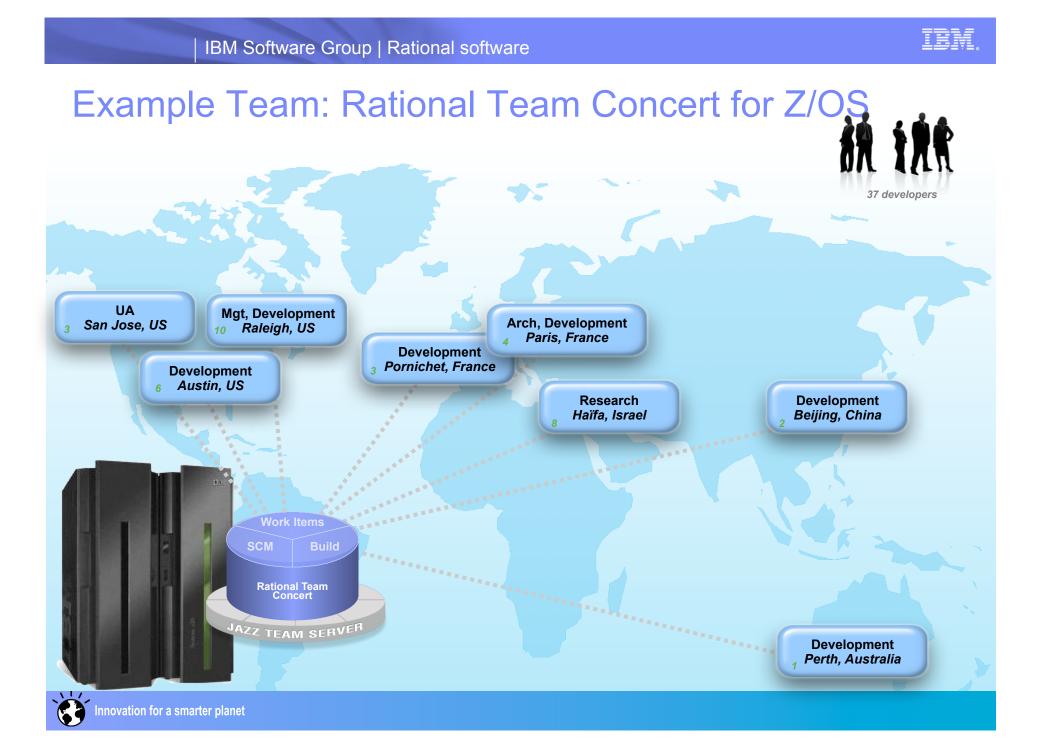
awareness



Boring and painful

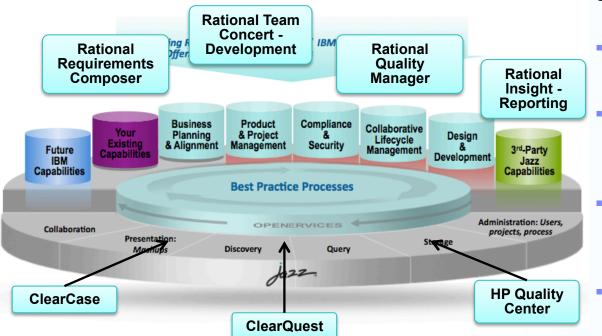
Team awareness







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. Jazz is...

- A scalable, extensible team collaboration platform
 - A community at Jazz.net where you can see Jazz-based products being built
 - Our vision of the future of systems and software delivery, supporting globally distributed teams
- An integration architecture enabling mashups and non-Jazz based products to participate
- An evolution of our portfolio which will evolve to leverage Jazz technology over time



Rational Team Concert: An Overview

Agile Planning

- Integrated release/iteration planning
- Effort estimation & progress tracking taskboards
- Out of the box agile process templates

SCM

- Integrated stream management
- Component level baselines
- Server-based sandboxes
- Identifies component in streams and available baselines
- SVN, Git, CC bridge, connector

Work Items

- Defects, enhancements and conversations
- View and share query results
- Support for approvals and discussions
- Query editor interface
- ClearQuest bridge, connector

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 enables team members to communicate in context of their work

Build

Project Transparency

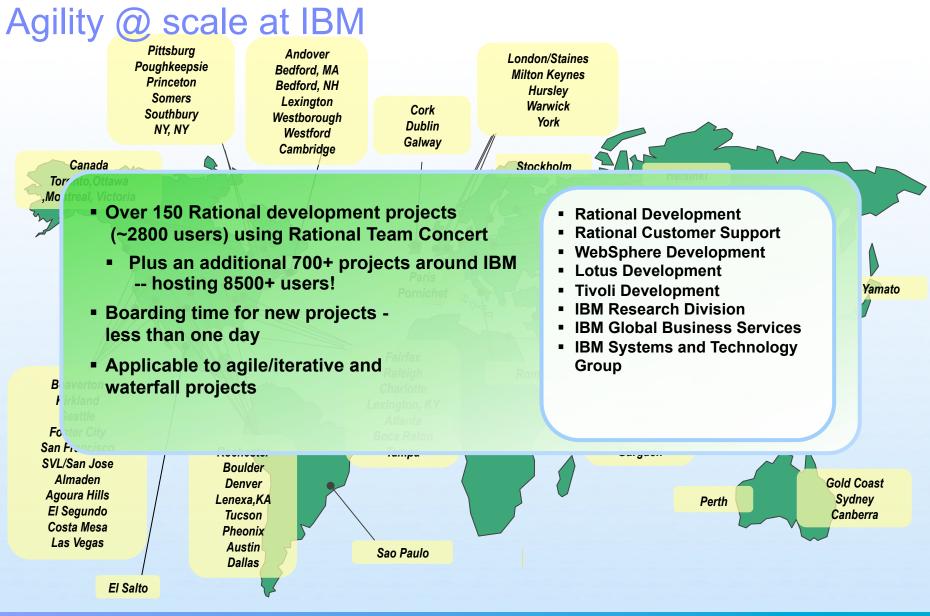
Real time metrics and reports

Customizable web based dashboards

Project milestone tracking and status

- Work item and change set traceability
- Build definitions for team and private builds
- Local or remote build servers
- Supports Ant and command line tools
- Integration with Build Forge

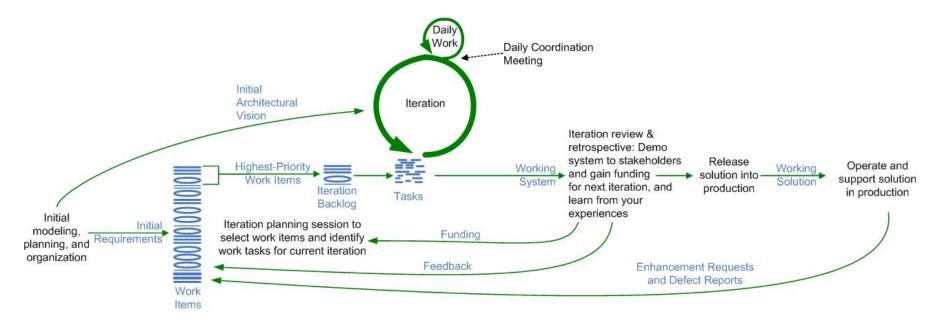








The disciplined agile lifecycle: An extension of Scrum

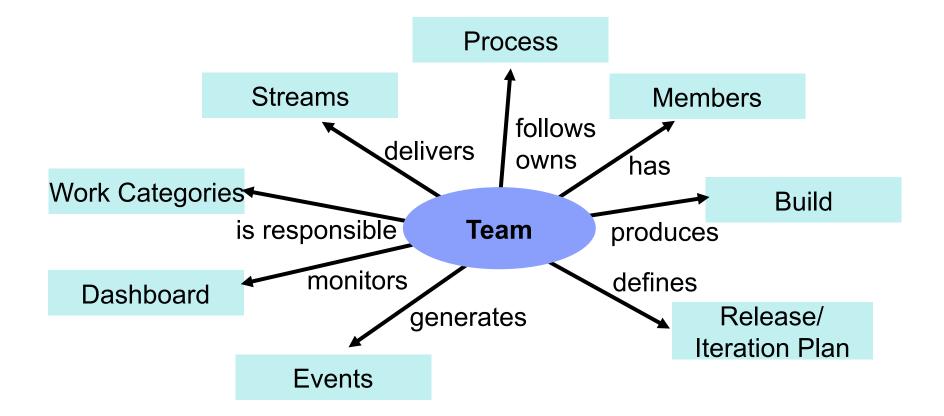


| Inception | Construction | Transition | Production |
|------------------------------|---|------------------------------|------------|
| One or more short iterations | Many short iterations producing a potentially shippable solution each iteration | One or more short iterations | Ongoing |
| Stakeholder consensus | Sufficient functionality | | |
| Proven architecture | | Production ready | |

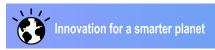


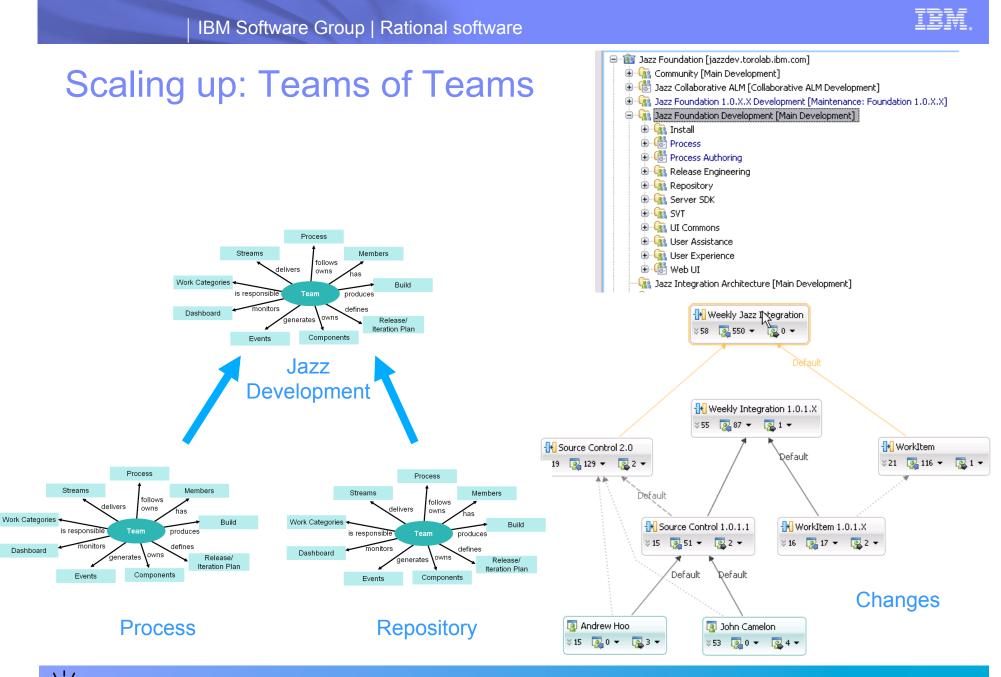


Way of Working: Team Centric



Teams are self-tuned but share a common rhythm

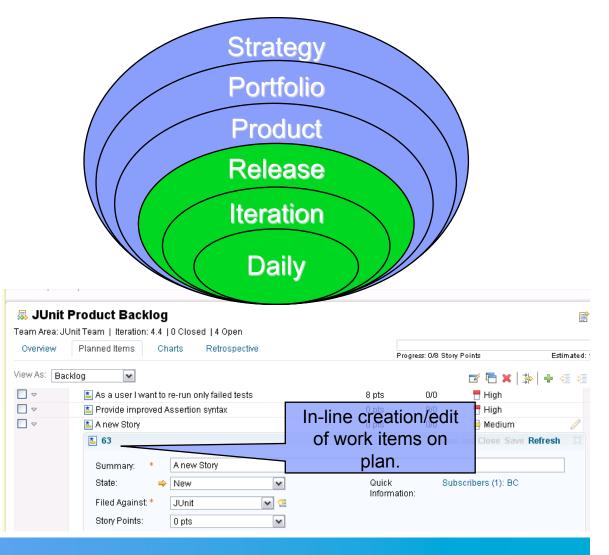






Planning with the Agile "Planning Onion"

- The Planning Onion
 (Mike Cohn Agile Estimating and Planning)
 - Daily (my work view)
 - Iteration
 - Release
 - View by iteration
 - View by team
- All this is available in Eclipse or the Web



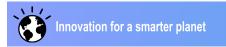




Backlog Plan Mode Easily rank work items to define priority

- Ideal for managing SCRUM backlog
- Ranking is reflected in all planning views, e.g. iteration plans and release plans
- Supports separating size from effort estimation

| 5 JUnit Product Backlog | | | items to | d drop work o rank them e to others. | |
|--|--------------------------|---------------------|-----------|--|---|
| Team Area: JUnit Team Iteration: 4.4 0 Closed 4 Open | | | | | |
| Overview Planned Items Charts Retrospective | | Progress: 0/8 Story | Parints | Estimated: 100% | % |
| View As: Backlog | | | 🖻 🖻 🗙 🔆 | 🖶 🍕 🍇 🌶 | P |
| 👗 As a user I want to re-run only failed tests | 8 pts 🖊 | 0/0 | 🖶 High | 62 | |
| Provide improved Assertion syntax | 0 pts | 0/0 | 🖶 High | 60 | |
| Improve documentation for 4.4 | imentation for 4.4) pts | 0/0 | 🖶 Medium | 55 | |
| 😼 No download link to latest version | | | 🖶 Medium | 12 | |





Taskboards track Work in Progress Accelerate stand-up meetings, increased track

See the work currently in progress

| | Closed Items: 4 Open It | ems: 7 | | | Progress: 0.25 | Estimated: 7 | 1% |
|--------------|--------------------------------------|--------|---|----|--|--|----|
| | | | 👄 To Do | | 💷 In Progress | 🗸 Done | |
| « - | Improve documentation for 4.4 | 55 | isvadoc updates for @lgnore in 4.3 | 30 | | Docs] Cookbook [Docs] Cookbook [Docs] [Docs] [Docs] [Docs] [Dockbook [Dockbook] [Dockboo | 24 |
| <- | Provide improved Assertion syntax | 60 | Based on the assertThat syntax we should provide assumptions and theories support | 59 | | | |
| | | | assertArrayEquals misses differences | 7 | | shows green bar while assert false | 44 |
| | | | testCount hard-coded to 1 for childless Description | 27 | assert Array Equals misses differences | Should not call derived's afters if super's before failed | 47 |
| | | | Tests on protected methods fail | 14 | | @After method not called after my test timeout in 4.3.1 | 40 |
| | | | assertThat fails with Class tests (documentation problem) | 10 | | | |
| | | | | | | | |
| | | | | | Drag and dro items to chan | - | |



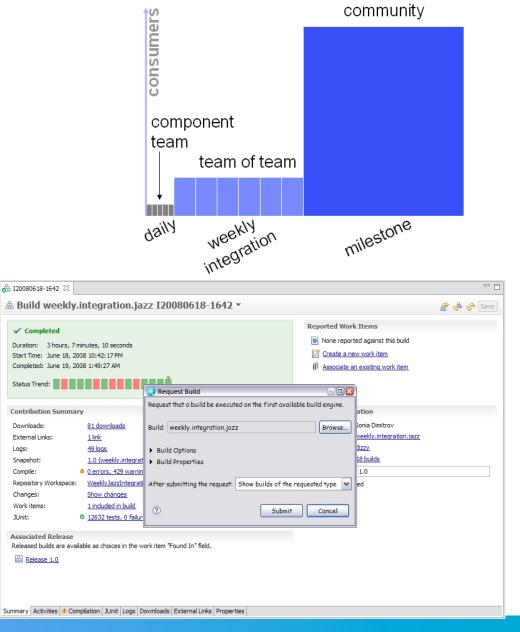
Planning/Execution: Feature Teams

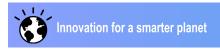
A feature team is a cross functional team owning a plan item

| 🛙 🤣 *99043: Support task tracking as a service - Jazz Collaborative ALM | »1 |
|--|--|
| Plan Item 99043 Summary: Support task tracking as a service | Feature status |
| Status Dev Status: Defined Risk Status: Yellow Risk Description Roadn | Weekly Status 2/22/2010: - finished exploration. Details can be found in Story 94074. End of M4 we will have a list of tasks to be addressed in M5. - Delegated artifact creation in RTC has been implemented (see item 103616) ORAP ore details to enhancement 75131 |
| Roadmap Exploration Done: 2010 M4 Implementation Done: -> 2010 M6 Team Feature Team Lead: André Weinand Feature Home Page: https://jazz.net/wiki/bin/view/Main/CALMIZ Feature Team: André Weinand April L de Vries Craig Lawton Erich Gamma Jennifer Hayes John Whitfield Larry Smith Patrick Streule Pratik Shah Feature team | 3/5/2010: added two proposals to <u>story 10844</u> (see description) 3/12/2010: added more details to <u>story 94074</u> prepared detailed tasks for RQM team an iFrame in our <u>standalone</u> Module Test: see <u>attachment 34998</u> Feaster more inspary presences more une remove common science removes Service discussed detailed tasks with RQM team implementing redirecting link clicking in embedded UI to container (see item 108817) created library for Compact Rendering support: see <u>https://jazz.net/wiki/bin/view/Main/CompactRenderingInRichClient</u> already adopted by SCM 3/26/2010: RQM has defined done criteria imbeddable Web UI implementation on track; discussion with UX and Web UI Foundation teams investigation for item 108424, we are planning to provide a patch for Foundation 4/1/2010: embeddable Web UI implementation done; can be explored in standalone Module Test web app. Waiting for RQM to consume t. discussions with UX and Web UI foundation teams: planning to base implementation on Open Social in M6 Process is willing to accept a patch for the proposal presented in item 108424 4/9/2010: RTC 3.0 MS endgame 4/15/2010: |
| Overview Planning Execution Done Criteria Links Approvals History | |

Building

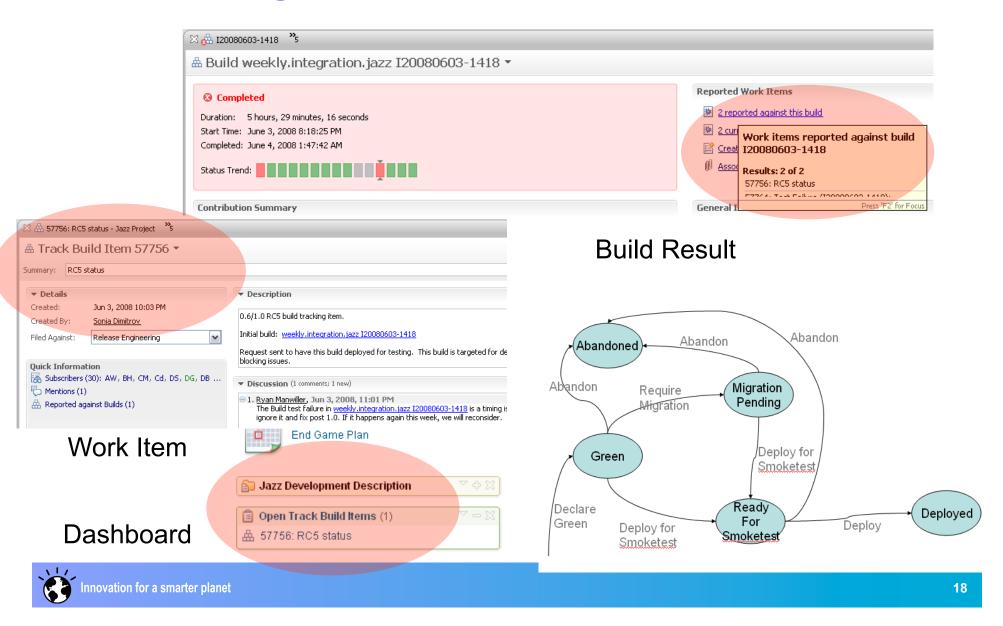
- Team of Teams
 - Scheduled weekly integration build
 - Stabilized until green
 - Continuous integration stream
 - Share changes, rarely green
- Each Team
 - Continuous builds
 - Always green
- A Developer
 - Personal builds



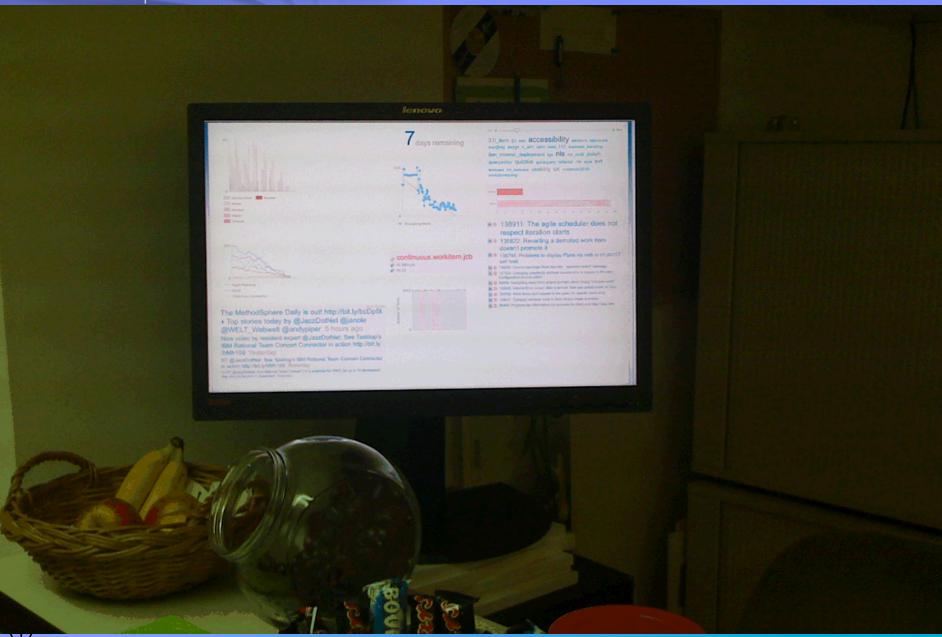




Build Tracking Work Item

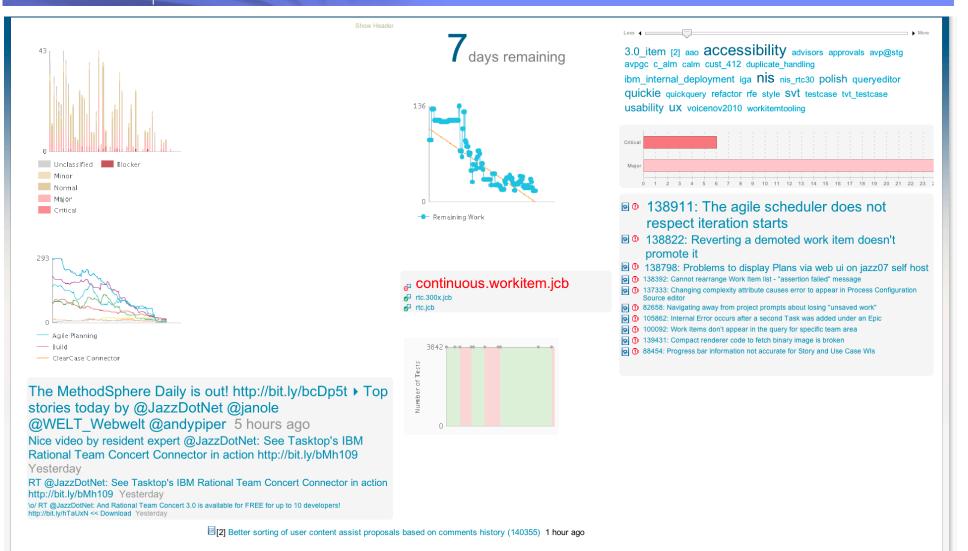








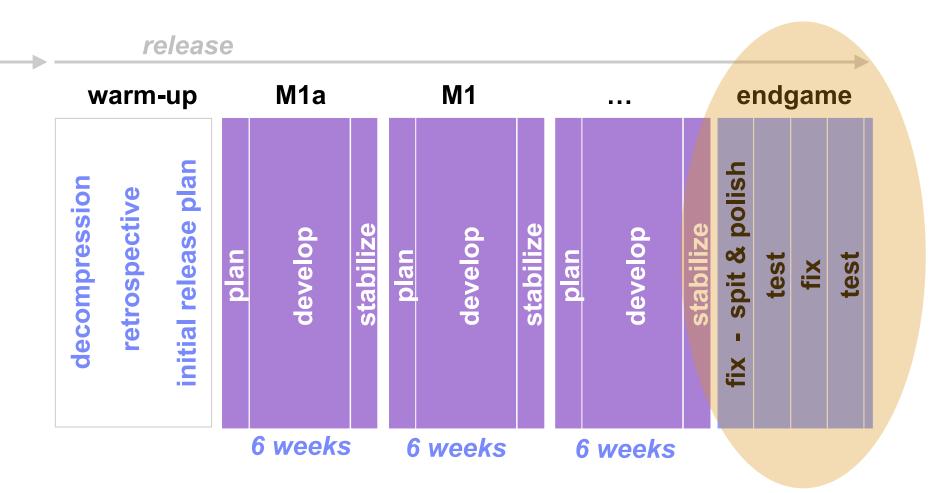






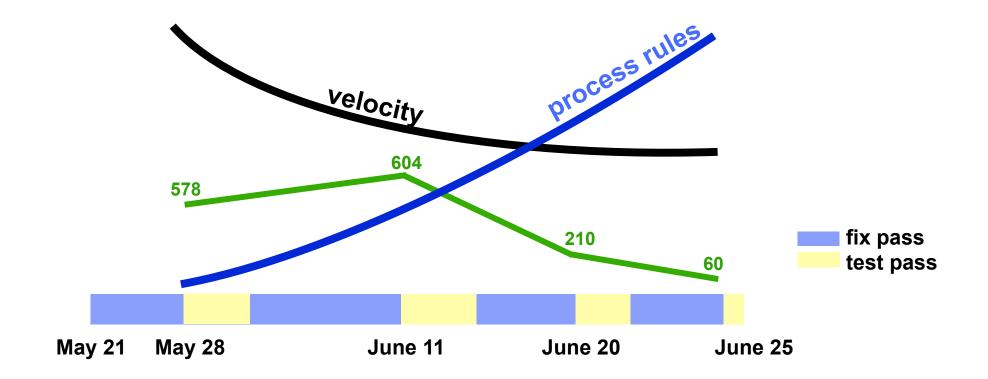


Endgame Focused and Disciplined





Endgame Convergence





Raising the Bar: Approvals

Operation Behavior

| Operations | Everyone (default) | PMC | compon | contributor | parttime | projecta | connect | dashboa | integrati | integrati | ¢ |
|-----------------------------------|--------------------|-----|--------|-------------|----------|----------|---------|---------|-----------|-----------|---|
| Save Team Area (server) | | | | | | | | | | | |
| 🚊 Reports | | | | | | | | | | | |
| - Deploy Report (server) | | | | | | | | | | | |
| - Deploy Report Template (server) | | | | | | | | | | | |
| Display Report (server) | | | | | | | | | | | |
| Manage Report Folder (server) | | | | | | | | | | | |
| Source Control | | | | | | | | | | | |
| - Deliver (client) | <u>(8</u>) | | | | | | | | | | |
| Deliver (server) | | | | | | | | | | | |
| 🖃 Work Items | | | | | | | | | | | |
| | | | | | | | | | | | |

The deliver operation is performed when changes or baselines are delivered from a workspace to a stream.

Preconditions and follow-up actions are configured for this operation

Final (ignore customization of this operation in child team areas)

| Preconditions (7 available): | Name: Approved Changes | 📃 Fail if |
|--|--|-------------|
| Add IBM Copyright No Compile Errors | Description: | 🔽 User i |
| Remove Require Work Item Up Down | All changes you release in RC4 need two separate approvals and one review. The first approval needs to list your component lead as approval needs to list two members of the PMC as approvers. The Review needs to list two team members as reviewers. | prover. The |
| | Required approvals: | |
| Follow-up actions (0 available): | Approval: 1 componentlead Approval: 2 PMC Review: 2 contributor | |



Endgame Tracking

| General RC5 Candidates RC4 Candidates - Open Defe | cts by Themes | Builds | Open Defects by Team | SVT Defects by 1 | Feam 👘 | Defect Trend Comparison | Defect Trends by Price | rity |
|---|---------------------------------|------------------------------------|--|----------------------|----------------|--|---------------------------------------|---------|
| Deferred Items by Team Closed Daily Add New Tab | | | | | | | Ad | d Viewl |
| RC4 Candidates | - | | jile Planning (13) ne 8.0 opens team chat wh | ≂ ⇔ ⊠ | - | 4 Candidates Build (1) 57220: Update versions to (|) 6 0 qualifier (Build) | ⊽⇔∑ |
| Work items which are candidates for RC4 are tagged with rc4candidate. Work item needs to stay at least 4 hours in this state. | chatin () 57159: VPN free | context. : Chat in c om Home | ontext doesn't work after co | onnecting via | RC 🗊 | 4 Candidates Web UI Found | lation (22) | ⊽ ⇔ Σ |
| 📋 All RC4 Candidates (113) 💎 🗢 💥 | V - | : Persona place item | l Plan Mode shows all non- | personal items | 20 | 57354: NullPointerException in provision profile file | i when mailormed un p | rovide |
| 57494: Copyright comments are being echoed on the screen when running repotools 57331: Sametime 8.0 opens team chat when executing chat in context. | 🔎 🛈 51673 🏓 🛈 56946 | : NPE in V : Filter est | VorkitemWorkingCopyMana imated item filters too muc notfixes in the Sametime u | h | » (1) | 56119: Update web About s 52716: Admin Web UI - "Typ null or not an object" 52331: "Error uploading Ser | e Error: "this.domNode | |
| 0 57244: Query Editor: Selected columns are missing in the 'sort columns' list | | | Page 1 of 3 | | 🏂 🕚 | too quickly. 55692: Not enough license | | n |
| 0 57354: NullPointerException when malformed url provided in provision profile file | _ | | earQuest Connector (0) | $\square - \square$ | | server setup wizard (Standa 56467: Default ADMIN can s | · · · · · · · · · · · · · · · · · · · | Wohl |
| In provision prome me 9 56119: Update web About screen(s) for GA | No work item: | s Iouria. | | | | when WS Allow Admin Acce | | /veb (|
| 9 57154: Deadlock saving screenshot | 📋 RC4 Cand | lidates Pr | ocess (5) | $\Sigma = \Sigma$ | | Page 1 | of 4 | |
| Page 1 of 19 | v | | sers does not handle invali | | 🛱 RC | 4 Candidates Repository (1 | 9) | ▽ |
| 📋 RC4 Candidates ClearCase Connector (0) 🛛 🗢 🔀 | improv | e usabilit | /antage of functional' attrib y in the web user editor | | _ | 57494: Copyright comments screen when running repote | s are being echoed on f | |
| No work items found. | disable 😸 | | tor marked as dirty, but sav | e putton | ۵ 🍬 | 56231: Jazz getClientLibrary | |) API |
| 📋 RC4 Candidates Dashboard (6) 🛛 🗢 💥 | 🛛 😼 😑 56970: Area ta | | zed project areas are shov | vn on Project | ΒO | Call Exception 50467: Repotools should no | ot he allowed to run wh | on tho |
| S6887: Viewlets targetting work item queries from different project areas are broken S7278: Viewlets contain broken links S3513: Add comments and examples to extension point | 😼 🥯 57009: call IVV | : SetupCli orkitemC | oudburstProjectParticipant ommon.setDefaultTeamArt ticipant does | | به ال | server is still running 56063: DB2z provider shoul 57012: Response already c FeedService | d implement collectSta | |
| schemas 9 | _ | | Team Web UI (1) pup should fail silently on (| v ⇔ X open errors |) | 57125: More improvements failures Page 1 | | ionin |



Endgame Tracking

| All Dashboards > Jazz Project > Jazz Development [*] | | 🖦 🚸 🗖 . | Auto-save Save |
|--|---|---|--------------------|
| General RC5 Candidates RC4 Candidates Open Defects | by Themes Builds Open Defects by Team | SVT Defects by Team Defect Trend Comparison Defect Trends | by Priority 🔹 |
| Deferred Items by Team Closed Daily Add New Tab | | | Add Viewl |
| 📊 Work Item 🗸 🗢 🕅 | 🛐 Process | ▽ – X) 🚺 Build | $\forall = \Sigma$ |
| Team Area: /Jazz Development/Work Item Category: All Iteration: 0.6 RC1, 0.8 RC2, 0.6 RC3, 0.6 RC4 350 250 250 150 0 Unassigned Low Medium High | Team Area: JJazz Development/Process Category: All Iteration: 0.6 RC1, 0.6 RC2, 0.6 RC3, 0.6 RC4 | Team, Area: XJazz Development/Build Category: All Iteration: D.8 RC1, D.8 RC2, D.8 RC3, D.8 RC4 55 50 45 45 50 45 50 45 50 45 50 45 50 45 50 45 50 45 50 45 50 45 45 45 45 45 45 45 45 45 45 | |
| Source Control $\bigtriangledown \Rightarrow \bigotimes$ | 👔, Agile Planning | ∽ – 🛛 🔒 ClearCase Connector | ~ - ∑ |
| Team Area: /Jazz Development/Source Control Category: All Iteration: 0.6 RC1, 0.8 RC2, 0.6 RC3, 0.6 RC4 | Team Area: /Jazz Development/Agile Planning Category: All tteration: 0.6 RC1, 0.6 RC2, 0.6 RC3, 0.6 RC4 | Team Area: /Jazz Development/ClearCase Connector Category: All Iteration: 0.6 RC1, 0.6 RC2, 0.8 RC3, 0.6 RC4 | |



What next? ALM, CLM and Jazz

The Rational Collaborative Lifecycle Management solution provides turnkey ALM for project teams of any size or configuration. Built on the latest Jazz technology, the solution helps organizations transform software delivery so it is more collaborative, transparent and productive.

- Real-time planning
- End-to-end traceability
- Continuous process improvement
- ✓ Development intelligence
- Active collaboration



Plan Collaboration improves value & time to delivery

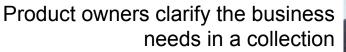
- ✓ Creating a shared vision delivers what the stakeholders want
- Ensuring coverage improves quality for the release and each sprint
- ✓ Whole team buy-in improves team trust, efficiency and focus

49: Release 1 Planning -

Showing 18 Artifacts

Allocate dividends

| It Dashboards V Work Items V Plans | 1: JKE Banking Release 1 Understand the |
|---|---|
| Release 1.0 Backlog | Name State 1: JKE Banking Release 1 Approved Approved |
| Plan Details Planned Items Links Snapst | Description Defines testing for the Release 1 of JKE Banking. Signi Release 1 include the Money that Matters initiative when redirect dividends from their investments to causes nee |
| Add: 🌄 Contributes To Plan in 'Currer 🗸 🔞 Implements Requirement Colle 🔞 Release 1 Planning | Details Originator: tammy Updated: 9/21/10 Calculated Risk: 00000 Project Area: JKE Bar Community Risk: 00000 Team Area: |
| Lested by Test Plan <u>1: JKE Banking Release 1</u> | Show More JKE Banking Release 1 Image: Show More Discard Changes Save Image: Show More Test Plan Overview Shapshots History Image: Show More Discard Changes Save Image: Show More Originator: Tammy Owner: Tammy Action: Select Action Image: State: Approved Image: Show More Description: Defines testing for the Release 1 of JKE Banking. Significant capabilities being added in Release 1 include the Money that Matters initiative whereby account holders can elect to redirect dividends from their investments to causes needing assistance. |
| s Collections C Release 1 C Release 1 C Release 1 C Release 1 C Release 1 Planning JKE Business Recovery Matters on Sep 20, 2010 8:39:48 PM On Sep 21, 2010 8:39:48 PM Py CP C Release Collection | Development Plan Lir Linked development plans Owner: JKE Banking Uteration: Release 1.0 (9/6/10 - 10/17/10) Show All Items per page Summary Release 1.0 Backlog * Show More |
| Release Collection | Testers understand Sprint Plans and business expectations |



BJKE Business Recovery Matte

Sep 20, 2010 8:39:57

49; Re

💷 🚛 No grouping 👻 📲 👘 📌

Artifact Last Modified Last Modified Date

Type By User Story Elaboration

ср

Dividend alloc - Release 1.0 Backlog [Release 1.0] Owner: JKE Banking Iteration: Release 1.0 (9/6/10 - 10/17/10)



42/78 pts Donors Depos Show More



Plan Item collaboration improves quality

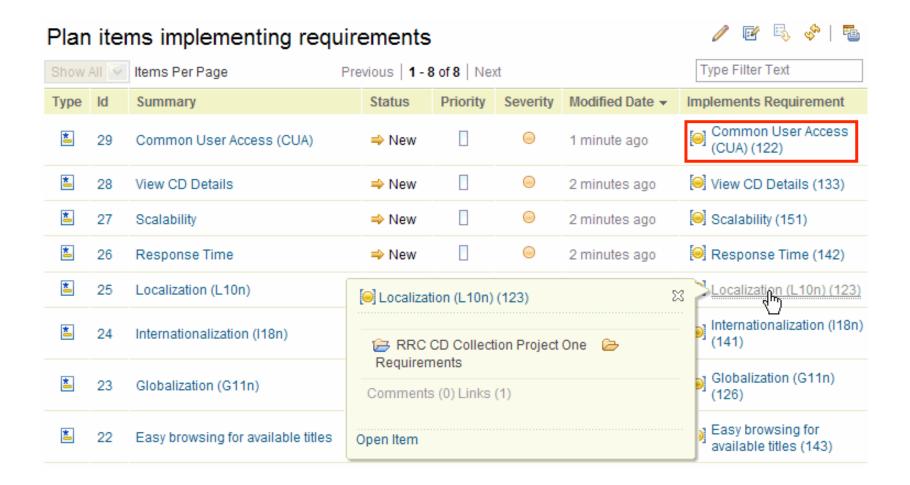
| Story points include test effort | Work Items > Story 67 Summary. * Donor Dividend Allocation Criteria | | Developers understand user story, |
|--|---|--|--|
| ✓ Everyone knows what's being developed when and by whom. ✓ A Story is 'done' when | Add File: Brow No. Attachments. | 16: Donor Dividend Allocation Criteria Name State 18: Donor Dividend Allocation Criteria Draft Description Details Weight 1 Originator: tanuj Trigger: Calculated Risk 00000 Activity: | test effort and done criteria |
| associated tests have passed | Implements Requirement Document 12: Donor Dividend Allocation C Tested By Test Case → ■ 16: Donor Dividend Allocation Criteric< * | | JKE Banking Rele idend Allocat Type: Type: Typ |
| 12: Donor Divid • 🦉 Contract Street Stre | Atures Detended Functionality, Release 1 | Criteria 🛛 | Filed Against. JKE/BRM erview Snapshol Story Points: 5 pts Progress: Team Area: Business Recovery Matters / JKE Banking |
| Requirement: Donor Dividend Allocation Criteria | Links (7) Links (7) Links (7) Links (7) Links (7) | Description: < Click he Development Ite Change management it | Quick Information MS ² ^R Subscribers (1): B ^R Children (1): 49 |
| Donors should have the ability to choose allocation options for their dividends to a cause. These options can include: Dividend Allocation By percentage Dividend Allocation By amount Define frequency of allocation | ✓Link To (1) | Show All 🚽 Items pe | |
| Applicable Roles Product owners clarify the | | case | ers define and execute test es with a clear definition of done' criteria |
| Product owners clarity the | user story | the ' | 'done' criteria |

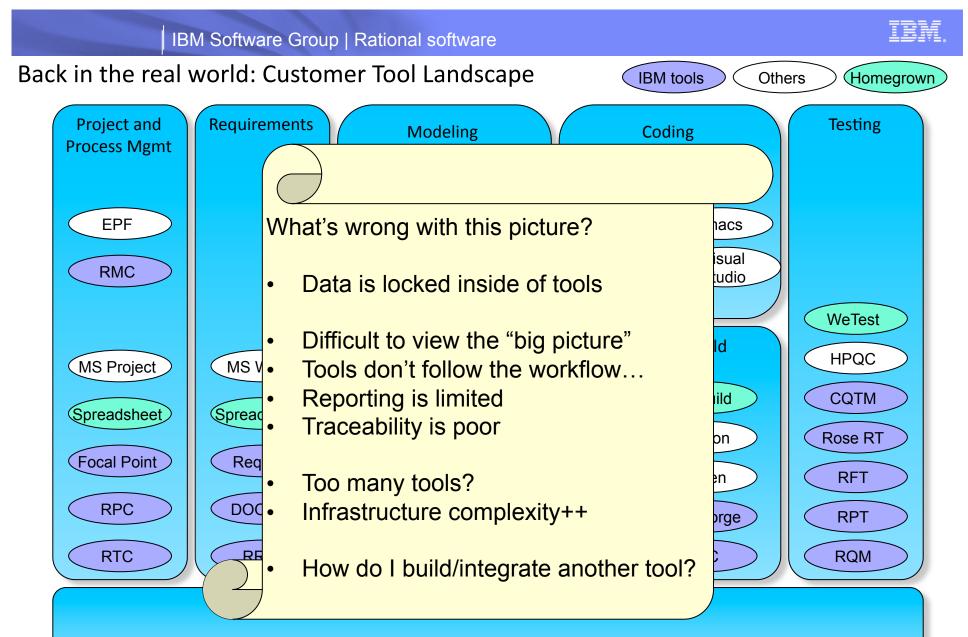




Lifecycle Queries reveal traceability gaps

Show which RTC plan items implement which RRC requirements





Security, identity, collaboration, search, traceability, reporting, publishing, dashboards, license mgmt, ...





- Ten workgroups operating
 - 1.0 spec for Change, Quality and Requirements Management complete
 - Architecture, Asset, Reporting, SCM, Estimation specs anticipated in 1Q10
 - 2.0 specs for Change, Quality, Requirements, building on a common core OSLC V2 spec



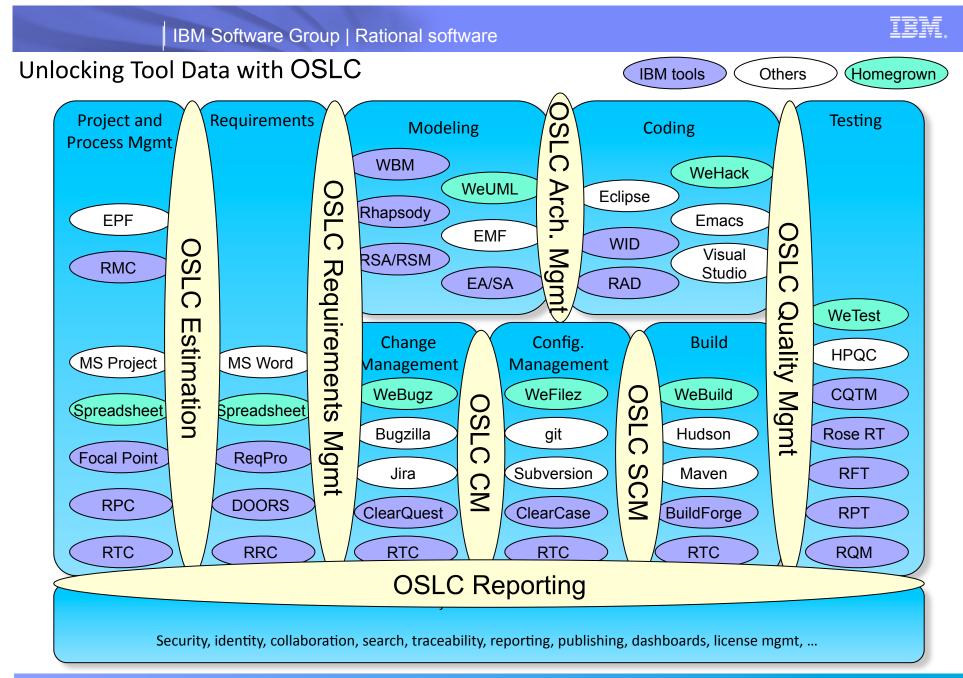
- Community
 - ▶ 230+ registered community members
 - Workgroups have individuals from 25+ different companies
 - Integrators, ISVs, industrial, open source, higher education, consultants
 - Mix of IT and Systems participants

Accenture APG BigLever Black Duck Boeina BSD Group Citigroup EADS **Emphasys Group** Galorath General Motors IBM Institut TELECOM Integrate Systems Lender Processing Services

Northrop Grumman Oracle QSM Rally Software Ravenflow Shell Siemens Sogeti SourceGear State Street Tasktop (Eclipse Mylyn) Tieto TOPIC Embedded Systems UrbanCode WebLayers



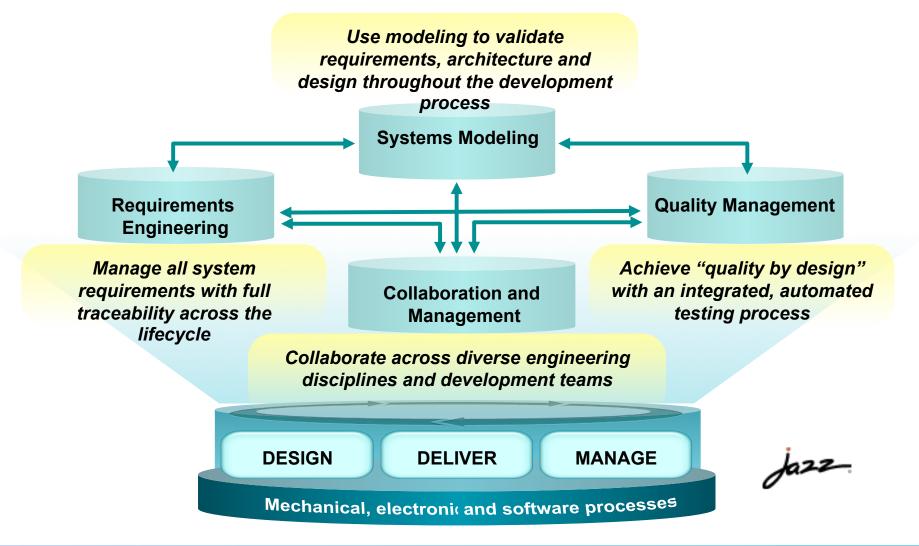








IBM's vision for systems engineering and software development



DOORS 9.3 with Generic CM integratio

Integrations to Change, ClearQuest and RTC

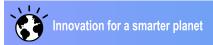
Requirement / Change Request traceability

- Stakeholder requirements submission: Generate draft requirements from enhancements submitted to Change Management system
- Requirements driven development: Create implementation requests from requirements and monitor development progress alongside the requirements
- Requirement defect tracking: Associate a defect with a requirement to investigate a possible change to the requirement

| URD-21233 User Requirements Document | | |
|---|---|--|
| 08 Februrary 2010 Martin Henderson | | 14 March 2010 Martin Henderson |
| | | |
| ex. Sit ex recteque corrumpit, m | el ea vocibus posidor | nium. No pri lobortis |
| <read-denied></read-denied> | | |
| <empty></empty> | | |
| | | |
| | URD-21233 User Requirements Document 08 Februrary 2010 Martin Henderson Lorem ipsum et duo paulo nusq ex. Sit ex recteque corrumpit, m | User Requirements Document OB Februrary 2010 Last Modified On: Martin Henderson Last Modified By: Lorem ipsum et duo paulo nusquam eleifend, his ani ex. Sit ex recteque corrumpit, mel ea vocibus posidor tincidunt. Eu duo etlam facilisis, aeque patrioque ea <read-denied></read-denied> |

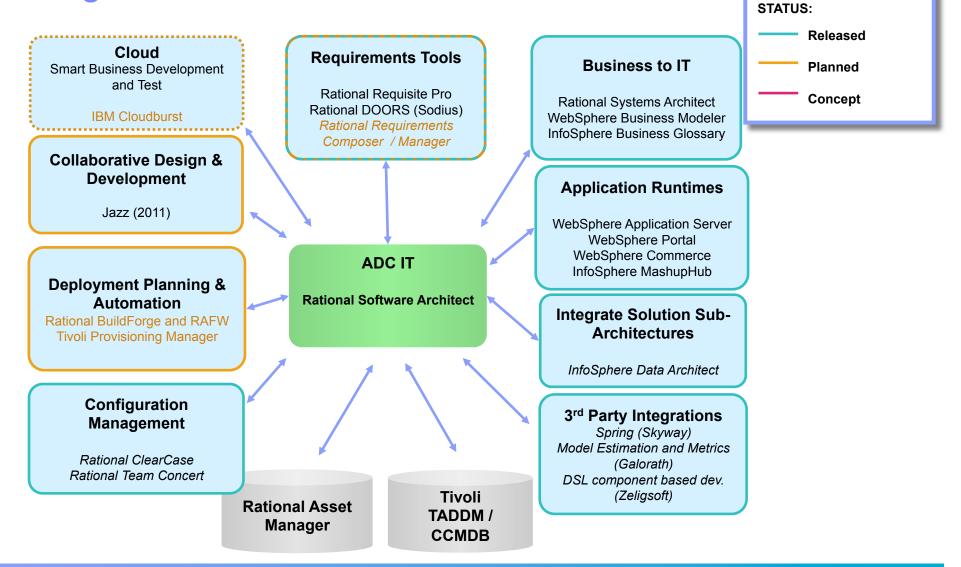
OSLC-style linking and rich hovers

CHAN





Integration-centric Product Reviews

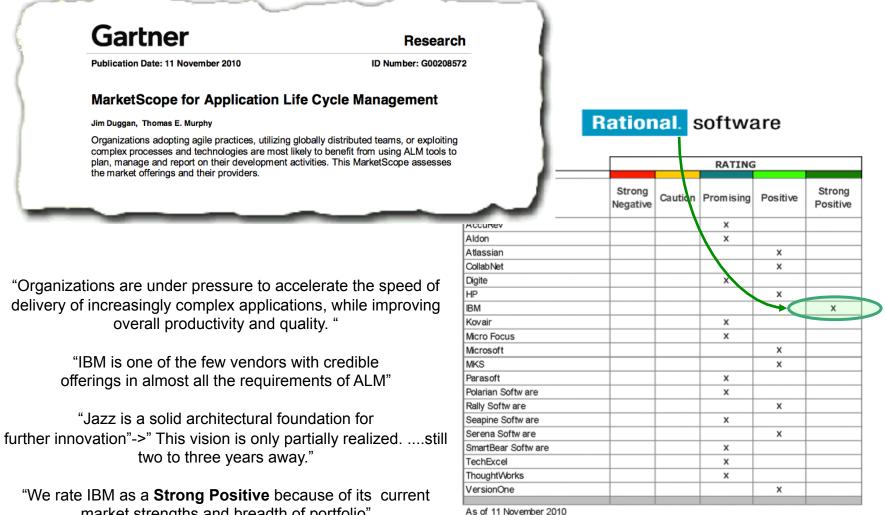






Gartner Marketscope on Application Lifecycle Management

IBM Rational Positioned as a Clear Leader in this Expanding Segment



market strengths and breadth of portfolio"

Source: Gartner (November 2010)





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