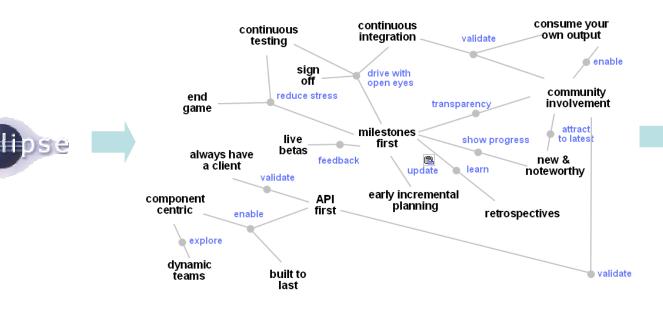


From **Eclipse** to **Jazz** to **Team Concert** Developing Software like a band plays Jazz

Erich Gamma

Jazz Technical Lead IBM Distinguished Engineer IBM Rational Zurich Research Lab

Our Journey





Ja22_



Eclipse Way

Eclipse and Jazz

- Eclipse components used by Jazz
 - OSGi run-time
 - Eclipse platform
 - ▶ EMF
 - ▶ GEF
 - Birt
 - Mylin (incubator)
 - TPTP ProbeKit (incubator)
- More Open Source Apache
 - ▶ Log4j
 - Lucene

ibm

You can use all your favorite plug-ins CDT, PHP...



Jazz and Team Concert

Jazz is a technology platform





- Team Concert is the first Jazz based product
- Source control, build system, work items
- Other products will follow





Free for qualified Open Source Projects and academic use

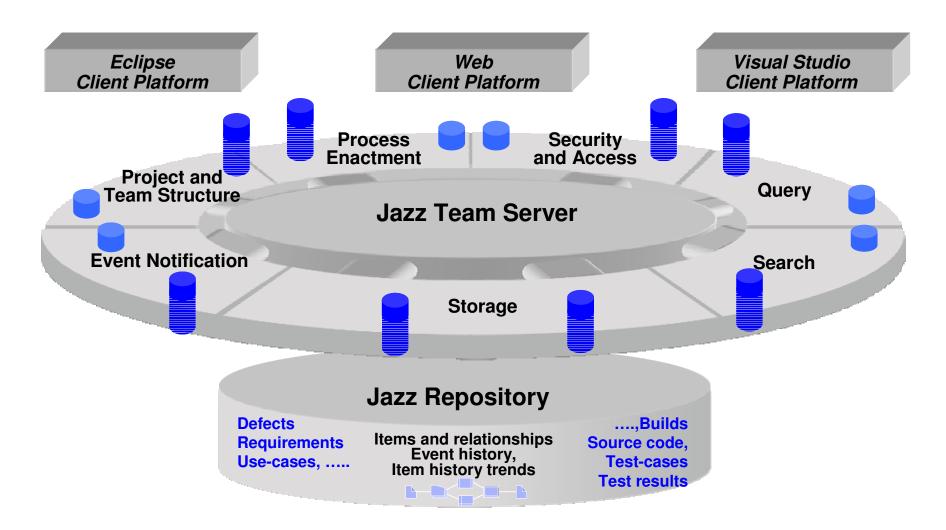


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Rational. software

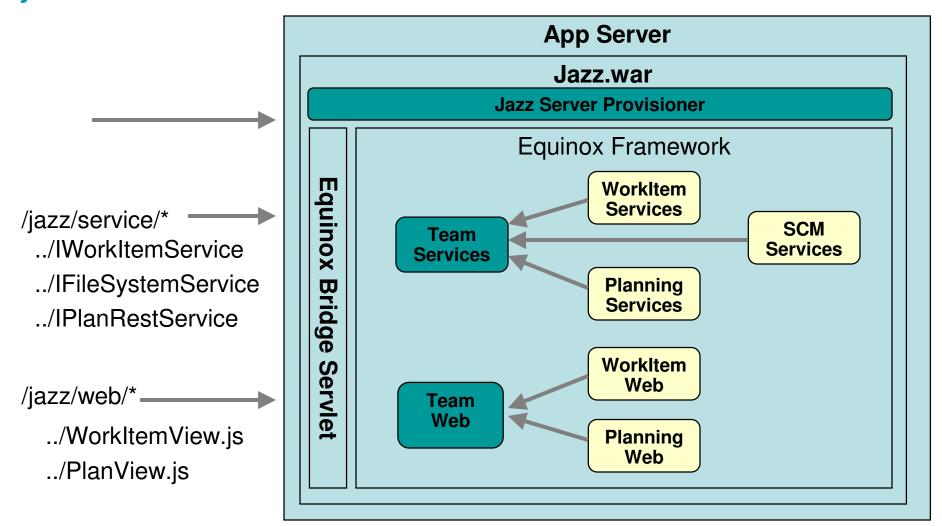
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Jazz Conceptual Architecture





Extending the Jazz Platform – Understanding jazz.war

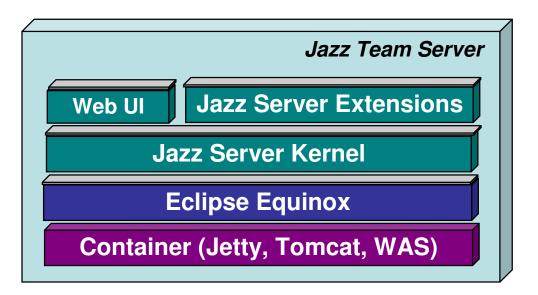


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Jazz Server Kernel

- Team Repository Services
 - Provides the basics for querying, fetching, and updating repository data
 - Provides support for change events and feed rendering
 - Provides the notions of projects, teams, and process
 - Provides a platform for extensible AJAX Web UIs
 - Runs in an OSGI environment



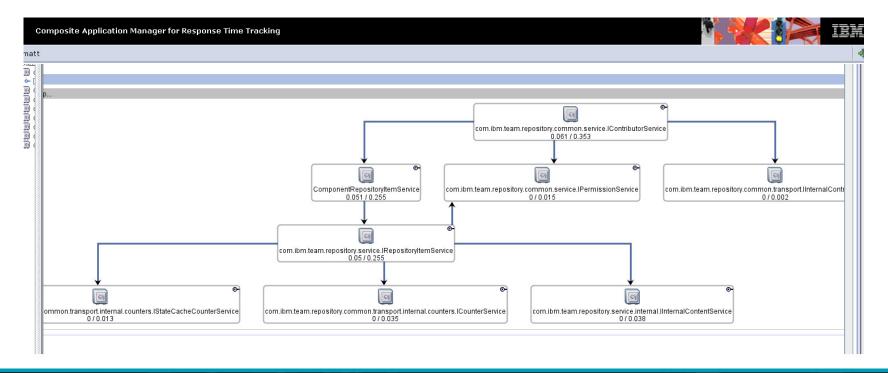
TRM



Extending the platform - Service programming model

- It's stateless services all the way down...
- Services are contributed by bundles

- Statelessness is key to scalability
 - All state is in the DB, all client interactions are atomic
 - Clusterable and restartable
 - No session state (clients are stateful)

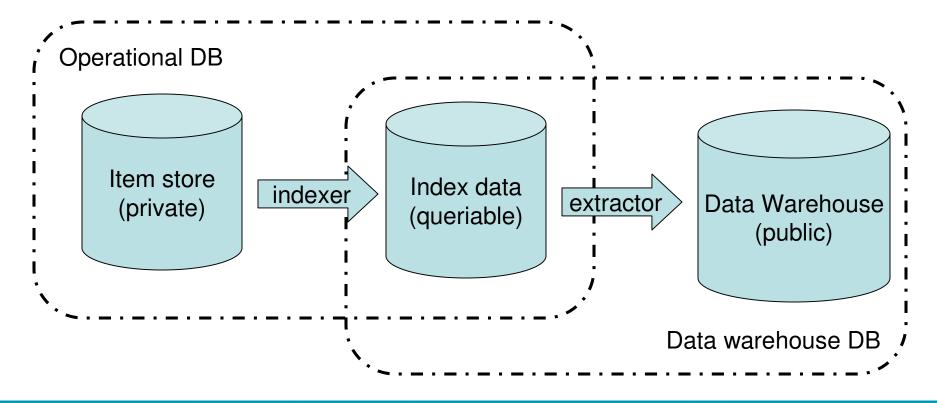




Extending the Jazz Platform – repository data model ...three DBs in one ...three DBs in one

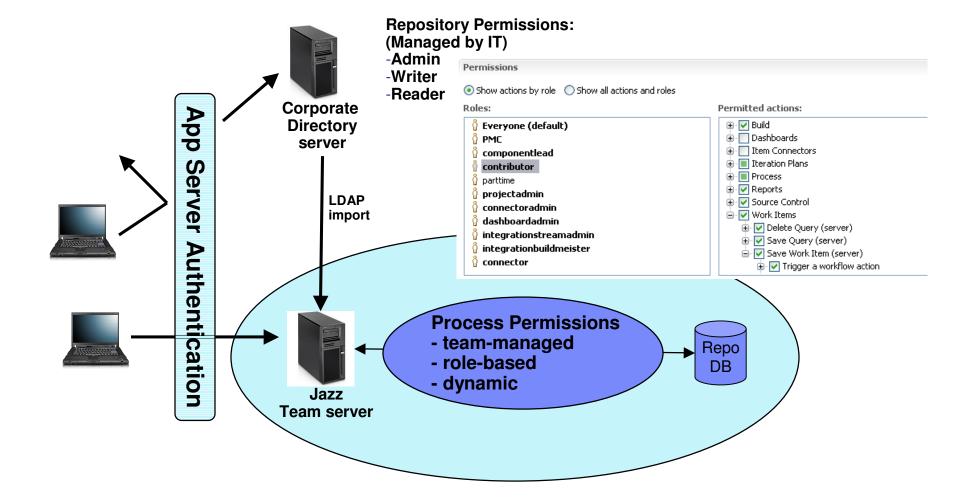
- An open-ended item store
 - Stores structured items as XML
 - Stores arbitrary content as BLOBs

- query
- Lucene to support full-text search
- A snapshot framework for extracting summary data for reporting





Authentication and Permissions

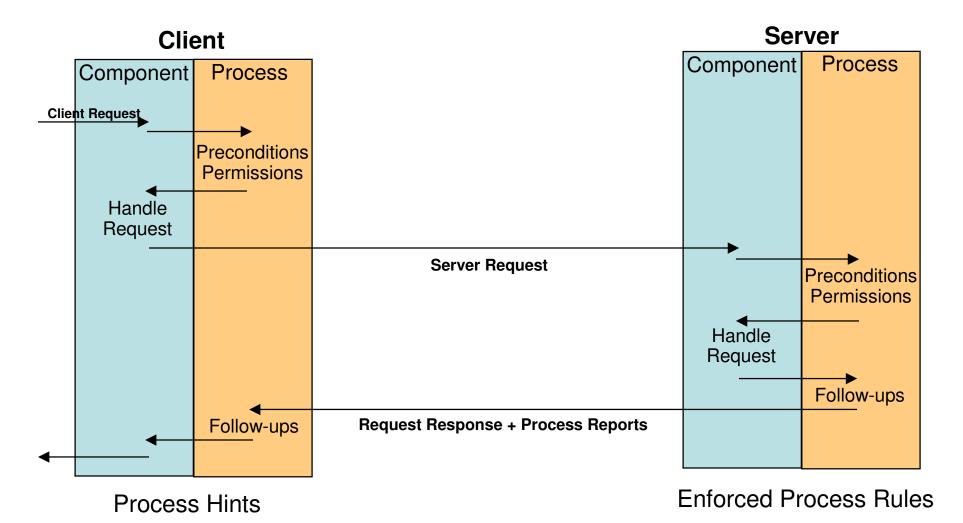


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Process basics

- Teams work on projects
- Each project follows a process
- Work inside the scope of a team follows the team's process
- Team members play roles defined by the process
- Process manifests itself through artifacts types, operations manipulating the artifacts, and artifact change events

Process Execution Flow

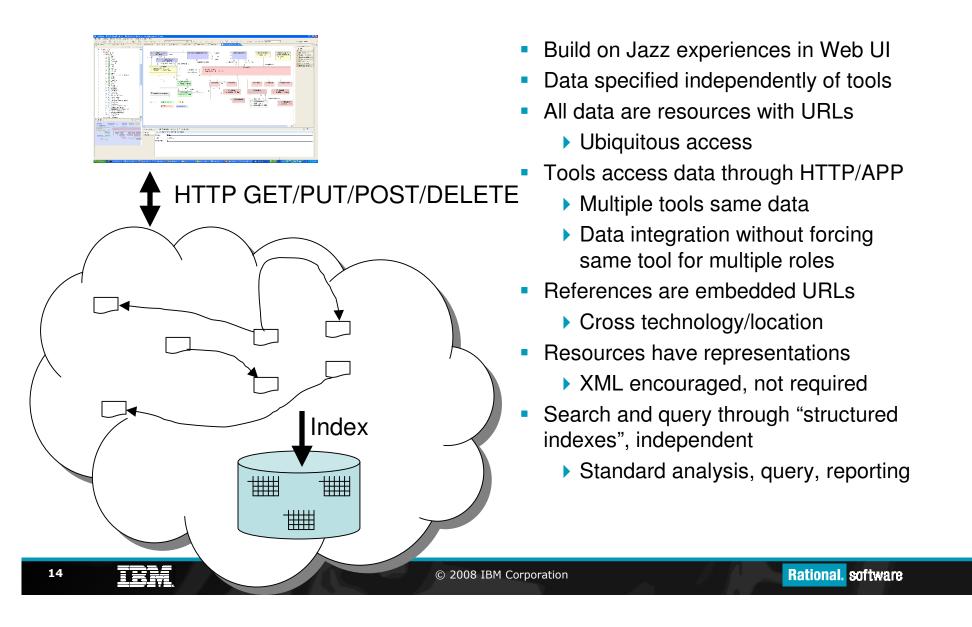


What we learned

- Jazz Platform 0.6 provides a general server-side programming model
 - Wire protocol is implementation, clients program to Java client libraries
 - Resources modeled; serialized between client and server
 - Clients communicate using RPC style interface
- Currently exploring providing a simpler programming model
 - Provide an on-ramp to ease extensibility
 - Characteristics of experiment
 - Wire protocol is API, accessible to clients of all kinds
 - Resource representations explicitly specified
 - Clients communicate using RESTful interface
 - More declarative building blocks



Experiment: Implement tools like an internet application





Team Concert: Developing software like a band plays "Jazz"?

- Developing software in a team is like playing an instrument in a band. Both require a **balance of team** collaboration and solo expertise
- Band members knows what the others are doing/playing
- Live music/live software



Guiding Principles

Help *people* work *together* to be more *effective*:

- Integration
- Team First
- Collaboration
- Transparency

Collaborate with pleasure.

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Integration

- Tools should be invisible
- Users work and collaborate on tasks

Jsers work and collaborate on tasks	Work Items	SCM	Build	Reports	Project Mgt.	
joining a team	X	X	X			
what is happening in the team?	X	X	X	X	X	
following the team's process	x	X	X			
starting an ad hoc/dynamic/tiger team	x	X	X			
deliver a change to the team	x	X				
find out if a fix is in the build?	x	X	X			sloo
run a personal build		X	X			S
tracking a broken build	x		X			
reconstructing a context for a bug/build failure	x	X	X			
interrupting development due to a high priority bug fix	x	X				
working on multiple releases concurrently		X	X		X	
tracking the code review of a fix	x	X				
tracking status			X	X	X	

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jazz-

Rational Team Concert

Work Items Bug tracking Task tracking Planning Approvals	Jazz Source Control Change Sets Streams Baselines	Build System Coverage Static analysis					
Foundation : Project Areas, Teams, Users, Process, Chat, Presence, Events, Alerts, Dashboard, Reports							

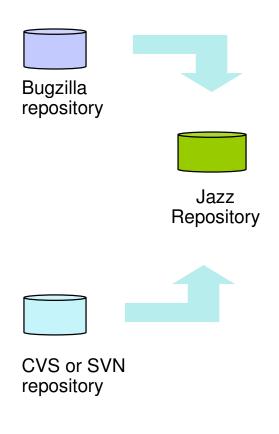
- Team Concert provides an integrated Collaborative development environment
 - Using a single repository
 - Integrated Version Control, Work Item and a Build System

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Playing with Others

Import

One way data migration

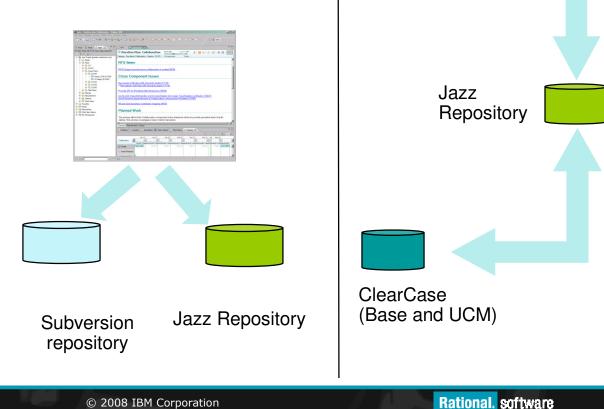


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Bridge

SVN Bridge links work items with change sets.

Mylin repository connector (incubator)

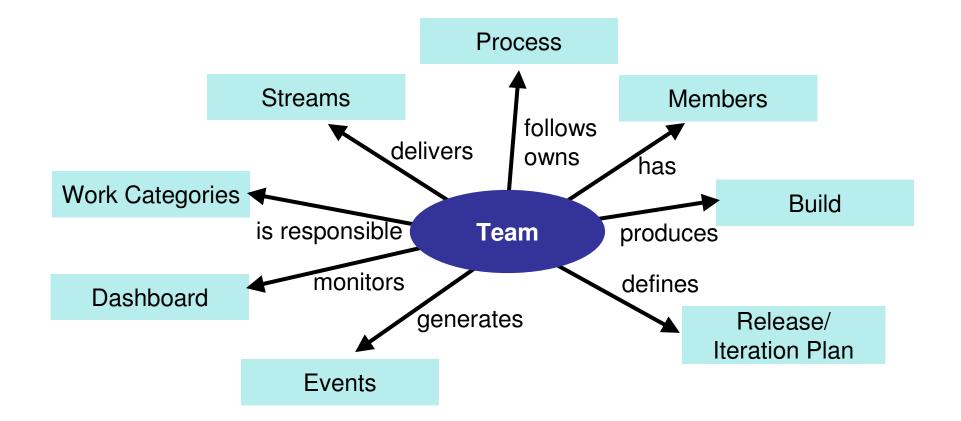


Connectors

Two way data

synchronization

Team First

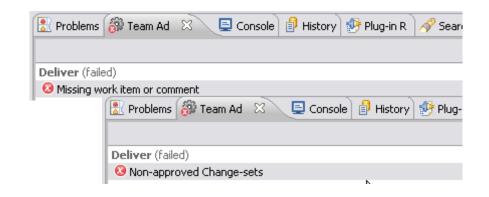




Team First: My Way your Way...

- Jazz allows teams to define their rules and the artifacts they care about
- Process templates define their way and rituals
 - Eclipse Way, Scrum, OpenUp
- Process templates defines
 - Artifacts and their states
 - Bugs, Tasks, Stories
 - Pre/post conditions for team operations
 - delivering a change
 - saving a work item
 - Roles and permissions

	 Defect Task Enhancement RFS Plan Item Track Build Item Retrospective 	 Defect Task Retrospective Story Impediment 	Scrum
Let Story	Story		





Demo: Developer Role



Demo: Joining a team (before...)

If They Come, How Will They Build It?

9 Sep 2007

To: Mike Cooper

From: Ed Johnson

Hi Mike,

I started on the AccountView project today. Can you tell me how to get the code and get started developing?

Thanx,

 Ed

To: Ed Johnson From: Nike Cooper

Hi Ed,

The code is all in CVS in the module called AccountView. Just check it out and you'll be right to go. As you've probably noticed, we're all using the Eclipse IDE here. That's all you need to get stuck into it.

Mike

To: Mike Cooper From: Ed Johnson

Mike,

Can you tell me the connection details for your CVS server? Will I automatically have access to it, or will I need someone to create an account for me?

Ed.

To: Mike Cooper From: Ed Johnson

Mike,

I finally got CVS access today from Arnold. So I've checked out the AccountView module OK, but it won't compile. The Eclipse project has dependencies on about five other projects. I tried checking those dependent projects out as well, but a few of them won't build at all? How are you managing to develop this thing when the dependent projects don't build?

http://www.hacknot.info/hacknot/action/showEntry?eid=97

Ed

From: Mike Cooper To: Ed Johnson

Oh yeah - I forgot to tell you about the dependent projects. I always forget about them. I'm not so surprised some of them don't build for you. I've got versions on my machine that build OK but I haven't checked them in for a while. Gimme about 15 minutes and I'll check them in, then you should be right to go.

М.

From: Ed Johnson To: Mike Cooper

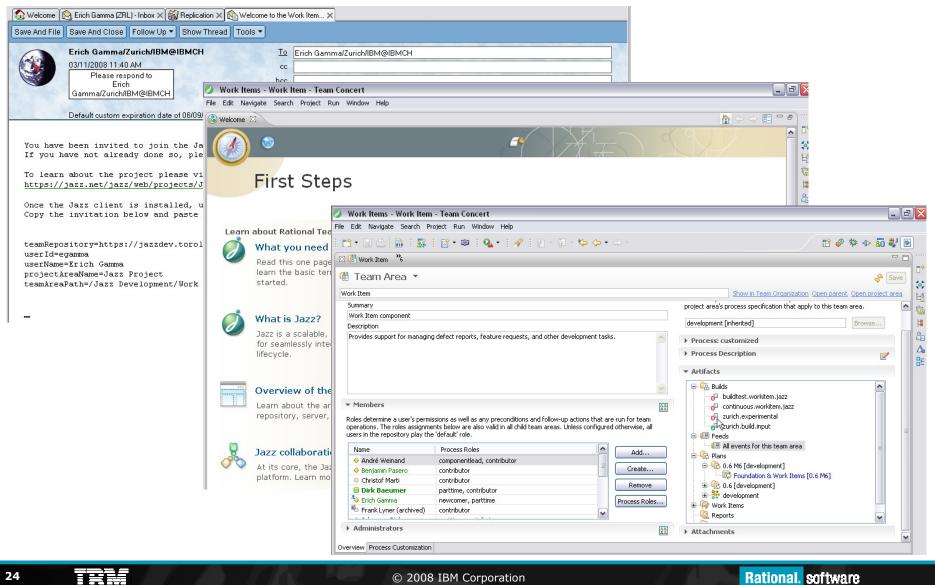
Mike,

I just got your check-ins, but the utils project still doesn't build. Did you forget to check in some logging library?

Ed



Video Demo: Joining a Team (after...)



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Project Lead

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Iteration based Planning

- Planning integrated with bug/defect tracking
- Work break down, e.g., (Stories, Tasks)
- Team load
- Progress tracking, burndown

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Foundation & Work Items 💧 Problems detected	ec 3, 2007 -8 Jar 93%	n 25, 2008 7% Å	÷ <u>∎</u> ∘	s 🖻	🖹 🗝 📄 🔲 🔄 Save
Team Area: Work Item Iteration: 0.6 M5D1 2	14 Closed Items	15 Open			
Open items: 0 Closed items: 32					Show
👕 Better align Web UI and Eclipse UI	🕔 1 day			35966	Parent Summary
🖺 Enable using Jazz for Open Source projects	🕔 0 hou	rs 📑	Medium	35794	Description
Marcel Bihr					🗹 Status
Open items: 0 Closed items: 24					Exclude
Martin Aeschlimann					Empty groups
Open items: 0 Closed items: 0					Estimated items
Michael Schneider					Resolved items
					More filters
Patrick Streule Open items: 13 Closed items: 40					Tags
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🕨 💼 Better align Web UI and Eclipse UI	🕔 1 day	5	High	35966	Owner
छ Edit unsaved queries once they are run	(-	T	High	25047	Semi-sorted (sort)
Set 'Cache-Control: public' header for IImageContentService HTTP resp	onses 🛈 -	F	Medium	38418	Priority
छ Web UI Query Editor: Gray out and disable unavailable attributes	 -	5	Medium	37593	v
				>	Plan Work Items



Tracking/Transparency

27

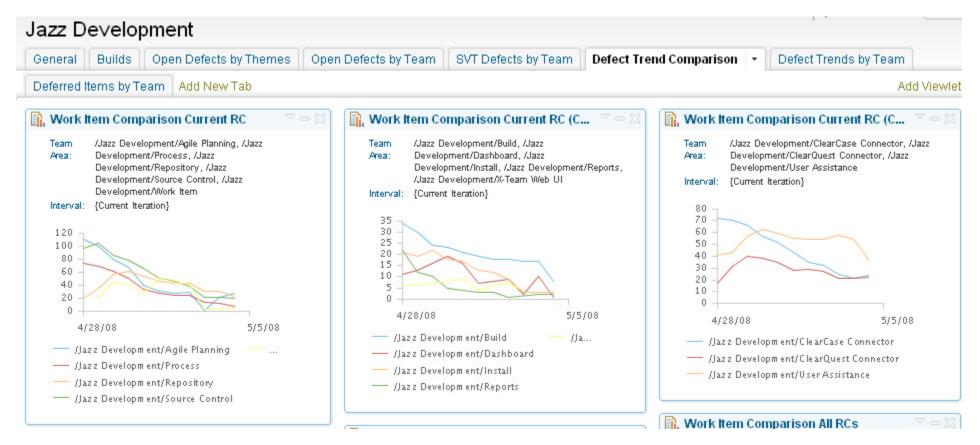
Jazz

Tracking Stabilization

Rational Team Concert Project Areas Dashboards Work Items Iteration Plans Reports Home All Dashboards > Jazz Project > By Type to search Q Jazz Development Create Dashboard General Builds Open Defects by Themes Open Defects by Team SVT Defects by Team Defect Trend Comparison Defect Trends by Priority Deferred Iten **Recently Viewed** Add New Tab 🙀 Jazz Development Erich Gamma's . Work Item R. Source Control R. Process Dashboard Team Area: /Jazz Development/Work Item Team Area: /Jazz Development/Source Control Team Area: /Jazz Development/Proce Category: All Category: All Category: All My Dashboards Interval: {Current Iteration} Interval: {Current Iteration} Interval: {Current Iteration} **H** Erich Gamma's Severity: All Severity: All Severity: All Dashboard 20 -18 -22 -Shared Dashboards 20 18 -----16 -18 -16 -----14 🐣 My Profile 16 14 -----12 . 10 14 -12 -----🝷 🛐 Jazz Project 12 -----8 . 10 -----10 -🝷 🙀 Jazz Development 6 8 -----8 -4 -6 -----6 -R Process 2 -4 _____ 4 -0 -2 🙀 Work Item 5/12/08 2 -5/19/08 0 0 🙀 Jazz Maintenance 5/12/00 5/19/08 5/12/08 III All Dashboards Minor Norm al Norm al Norm al Maior Major Major Critical Critical Critical Repository Agile Planing 👔, Web UI Team Area: /Jazz Development/Repository Team Area: /Jazz Development/Agile Planning Team /Jazz Development/Web Category: All Category: All Area: Development/X-Team We Category: All Interval: {Current Iteration} Interval: {Current Iteration} Interval: {Current Iteration} Severity: All Severity: All Severity: All 12 -14 -6 12 _____ 10 -10 -5 -



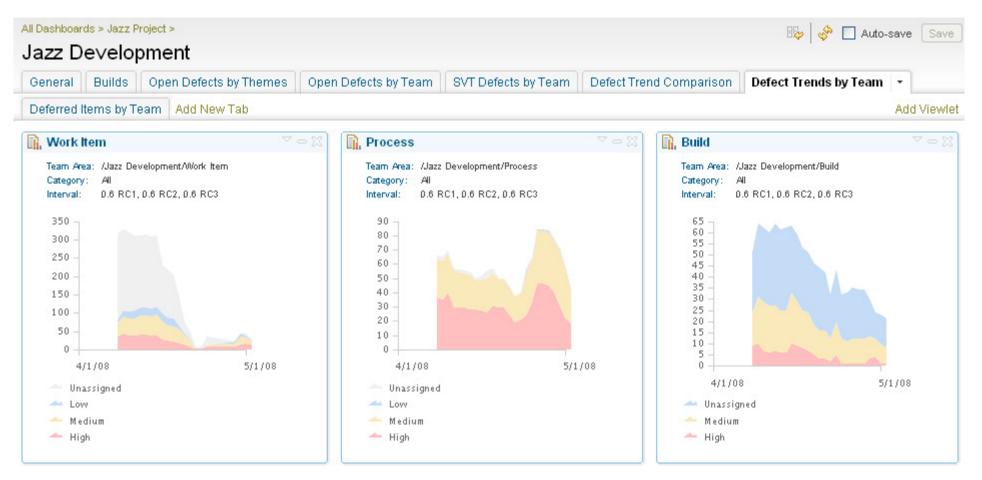
Trends across Teams



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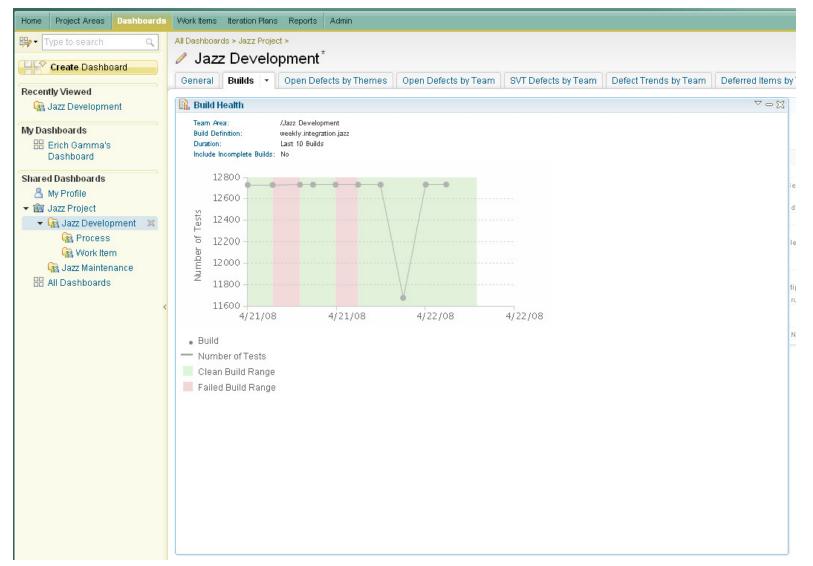
Trends across Teams (Cont'd)



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Jazz-

Build Health



31 IBM



Build Health

Image: Type to search All Dashboards > Jazz Project > Image: Type to search Jazz Development								🔯 🛛 🖑 🗋 Auto-s
	General Builds -	Open Defects by T	hemes	Open Defects by Team	SVT Defects by Team	Defect Trend Comparison	Det	fect Trends by Team
Recently Viewed	Deferred Items by Tear	n Add New Tab						
🔠 Erich Gamma's	🛔 Jazz Development	Builds	🔐 Freq	juent Test Failures				
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Rational Team Concert Project Areas Dashboards Work Items Iteration Plans Reports Home - 9 Q A Track Build Item 55766 RC3 status Summary: Create Work Item Links History Overview Approvals. Create Query Details **Recently Viewed** Creation Date: 14 May 2008 16:03:01 品 Track Build Item 55766 Sonia Dimitrov Created By: My Queries Filed Against: Release Engineering Y 📴 All Open 1.0 All Plan Items Description 🦃 beta2candidate 🦃 Beta3 Candidates Build tracking item for 1.0 RC3. 🦻 Consumability Current build: weekly.integration.jazz I20080514-0250 🦃 Cross Team RFS 🦻 Fixed SVT Defects JUnit failure in CQ Connector: defect 55748 Show All Discussion (4 comments) Shared Queries Collapse All | Expand All Predefined 1. Sonia Dimitrov 15 May 2008 23:31:58 🤤 Closed created by me By Closed subscribed by Heads up that I will be requesting a test deploy of the most recent green weekly.integration.jazz build as of 9 am tomorrow (Friday). me 2. Ritchie Schacher 16 May 2008 03:44:21 🦻 New unassigned We also need to request a background migration, rc1->rc2, against the unused db on bluesdev1, to regression test the fix for bug 55567. 🤯 Open assigned to me 3. Richard Backhouse 16 May 2008 13:44:27 🦃 Open assigned to me I suspect my changes for workitem 55705 have broken alot of junit tests in the Integrations builds. One of the changes I made was to a build pro (current milestone) "com.ibm.team.server.embedded.webapp.webui" plugin to include its plugin.xml among other things. by me 🦃 Open subscribed by I'm guessing that the local tests are all sharing the same target platform and now the "com.ibm.team.server.embedded.webapp.webui" is confli-× me "com.ibm.team.server.embedded.webapp.bridge" plugin because the assembly of the com.ibm.team.server.feature.sdk feature is happening in Jazz Development 4. Sonia Dimitrov 16 May 2008 16:07:57 Process I have delivered a change to exclude the server SDK from being installed in the test target. I have started weekly integration jazz I20080516-1001 Work Item Given the number of changes since the last green build (weekly.integration.jazz 120080515-1452.), I will request a test deploy on a build from tod Individually Shared



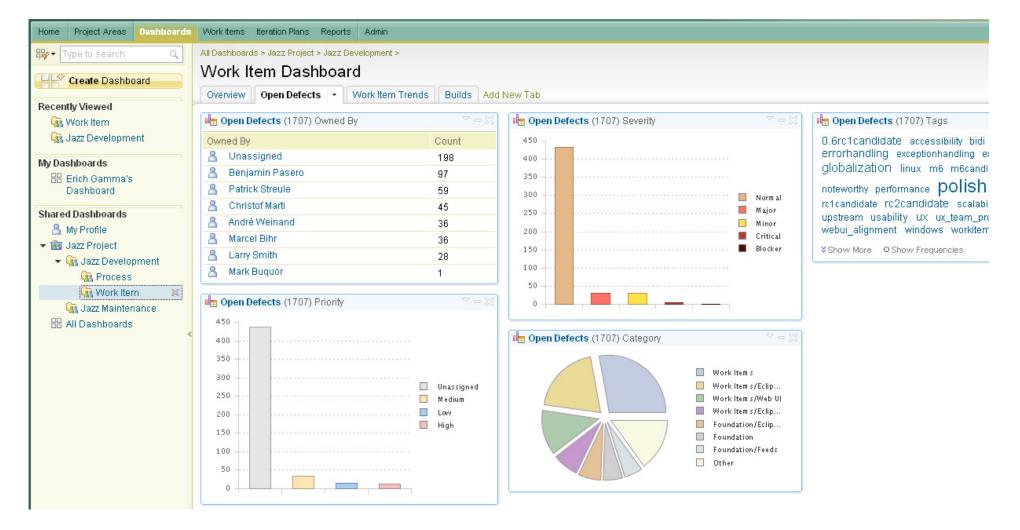
A Dashboard of a Project Lead

	Work Items Iteration Plans Reports Admin	
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Shared Dashboards	minutes ago El Send Mail in context does not work (54367) 20 minutes ago	43083: lifecycle coverage gaps in Team Concert
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▼ i Jazz Project		📋 53856: Scrum: leverage support to define the initial category nam
▼ G Jazz Development	📋 Recently High Severity (57)	
R Process	54458: Add page is a sub menu with no action	Pending approvals for me (2)
🙀 Work Item	54516: Process WebUI editors don't give any significant visual guidance	64208: Beta 3 Install and Licensing test pass
🙀 Jazz Maintenance .	🛛 🐱 54025: Update migration guide for M6a and for Beta3	54403: License bong attempting to suspend change-set says op createPersonalWorkspace
🔠 All Dashboards	54102: Dragging Jazz artifacts to Sametime 8.0.1 chat window does not work anymore	
	54136: Import of existing CQ data using synch tool is still an issue	📋 My Queries
	№ 54162: Confirm Content Accept dialog is modal but not in the foreground	Non IBM Filed (277)
	54186: Clicking inside query selection dialog resets scroll position	All Plan Items (121)
	54217: CQ Connector outgoing synch error.	PMC New (146)
	54239: Install RTC CQ Connectors using the latest Install Doc	PMC Plan Items (39)
	54242: Team Advisor window doesn't redisplay and no message shows in the	Consumability (46)
	Project Area dialog indicating a "Missing required license" issue has occurred when closing down the RTC client in Linux.	Getting Started (143) Recently High Severity (57)
	Page 1 of 6	Plan Items (121)
		RFS (28)

TBM



A Dashboard of a Component Lead



IEM



Some Highlights

Work Items Bug tracking Task tracking Planning Approvals	Jazz Source Control Change Sets Streams Baselines	Build System Coverage Static analysis						
Foundation: Project Areas, Teams, Users, Process,								

Chat, Presence, Events, Alerts, Dashboard, Reports



Foundation: Feeds, Presence

- Scoped events
 - My events
 - Team events
- Team central
 - Team awareness
- Dashboard
 - Event viewlets
- User presence

TRM

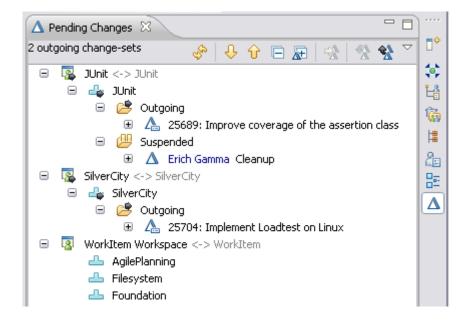
My Way your way: Subscribe to event feeds of interest

	🛟 Team Central 🛛 🕞 🦑 🌱 🗖
	▶ News 45 unread ▽ 🖉
	🗢 Build 5 failing 🗢 🔊
	🚰 beta2.integration.jazz
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P I V [2] Naconacic bring to none of renaing changes re-	



Change Sets, Streams, Components

- Component based development:
 - Components
 - Base lines
 - Snapshots
- Multi-streaming is cheap (branching),
 - flexible flowing of change sets
- Server side workspaces
 - Enables ad hoc sharing of changes, change set sharing
- Change-set cherry picking
- Suspending changes
- Private versions
- ▶ Refactoring tracking ⇒ enables aggressive/agile refactoring



My Way your way:

- Customizable flows
- Stream levels
- Delivery rules

Work Items Planning tracking

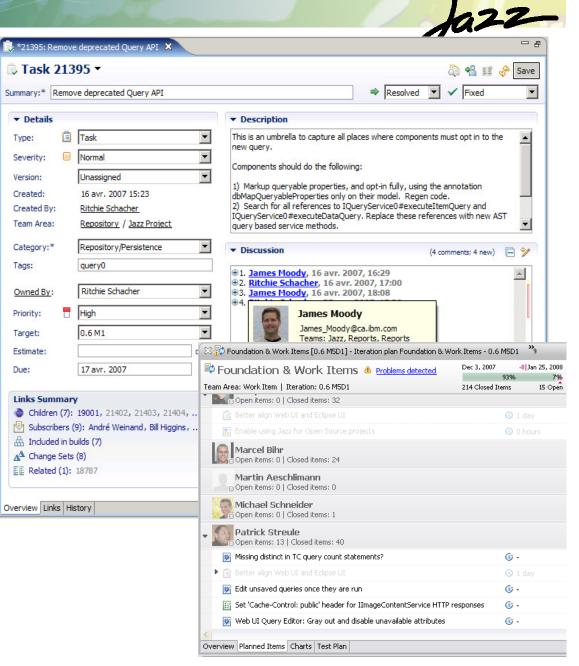
- Tight eclipse integration
- Iteration planning
 - From unstructured to structured
 - Work item decomposition
- Personal planning
 - My work

My Way your way:

- Work item types
- Workflows
- Approvals

IKM

Save preconditions



Builds

- Build awareness for developers
- Build results integrated into eclipse
- Linkage between
 - Work item fixed in build
 - Build corresponding to a
 - Build and release
 - change-sets in build
- Private system builds
- Build comparison
- Build promotion, tagging

My Way your way:

• Build definitions

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• Build result contributions

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Coverage: type::	28%, method: 23%, block: 1	9%, line: 19%				
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Dashboards/Reports

- Scoped by
 - Project
 - Team
 - user
- Viewlet collection
 - Events, feeds
 - Queries, bookmarks
 - Reports with drill down
 - Planning

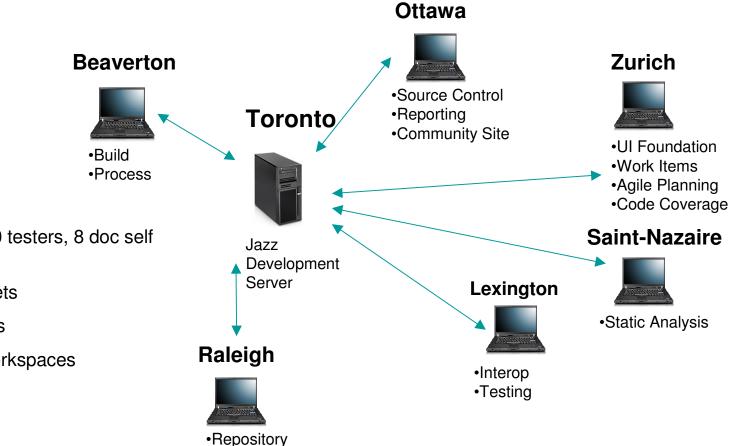
TRM

My Way your way:

- Create dashboards
- Add and customize viewlets

Ja22 Home Work Items Iteration Plans Rep	ports		n as Erich Gamma he Jazz Proj
Work Item Dashboard			
General 🗢 New tab 🖄			
😥 Welcome to Work Item 🛛 🗢 🛛		🙀 Open Work Items by Priority	⊽ ⊂
Welcome to the team dishboard. You can customize it to suit your each in the following ways: 1. Drag the viewlets around to the desired positions 2. Configure viewlet preferences 3. Organize viewlets in tabs 4. Add new viewlets:	Activity: continuous workitem jazz C20071101-0850 (test suite com.ibm.tesm.workitem.cittests.WorkitemPialavarTest) Activity: continuous workitem jazz C20071102-0553 (test suite com.ibm.tesm.workitem.cittests.WorkitemClentTestSuite)) Activity: continuous workitem jazz C20071101-1734 (test suite com.ibm.tesm.workitem.core.tests.Mugalla.BugallaTestSuite)) Activity: continuous workitem jazz C20071106-1410 (test suite com.ibm.tesm.test.core.tests.Stagistatu)	150 50 10/8/07 10/22/07	
🗊 Team Description 🗢 ⊂ 🛛	🕞 Events Log	📥 Unassigned 🏎 High	
Work Item component Provides support for managing defect reports, feature requests, and other development tasks.	 Performance problems with work items view' (32324) SectionPart.layoutTeaser() does not flush layouting cache' (35095) "When grouping is enabled, only one query should be allowed' (35100) 	Aedium Low	
■ Members マーX	Improve RSS UI' (8943)	🙀 New Work Items by Severity	⊽ ⊂
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Larry Smith - contributor, default	\Box Predefined Queries $\bigtriangledown \Box = \boxtimes$	Unclassified Major	
Michael Schneider - partiime, contributor, default 	All Plan Items (105) Closed created by me (152) Closed subsorbed by me (159) Consumability & Polish (155) Darin Verfy (10) Edipse Way Content (1) James Verfy (12) James (11) Jamed (11)	Minor Critical	

How we Develop Team Concert/Jazz: Setup



• 70 developers, 20 testers, 8 doc self hosting on Jazz.

- 18,000 change-sets
- 40,000 work items
- 250 repository workspaces
- 66K files
- 10GB file content
- Integration stream has 30K files
- 40 builds a day

ibm

Weekly integration build

•Web UI

Ja22

Experiences

We have become more continuous

- If it is hard, do it more often, how can you help If it is simple to do ⇒ do it more frequently ⇒ do it continuously
 - Initiate a build, private builds, exchange a change set
 - Coverage, static analysis \Rightarrow you do not want to run this on the desktop
- Things important to us we make explicit
 - custom work item types, retrospectives, stories, adoptions, track build items...
- Increased awareness staying on top of things
 - Linking, build awareness, team awareness, dashboards
- Improved practices
 - \blacktriangleright Retrospectives \Rightarrow leverage project health data
 - Testing \Rightarrow coverage

New & Noteworthy in Beta 3

SCM

- Subversion bridge
- Version graph
- Command line
- Web UI
 - Dashboard
- Process
 - Process editors
 - Scrum, Agile process templates
- Work items
 - Approvals

- New query editor, link queries
- Mylin Incubator

Jazz Team Server

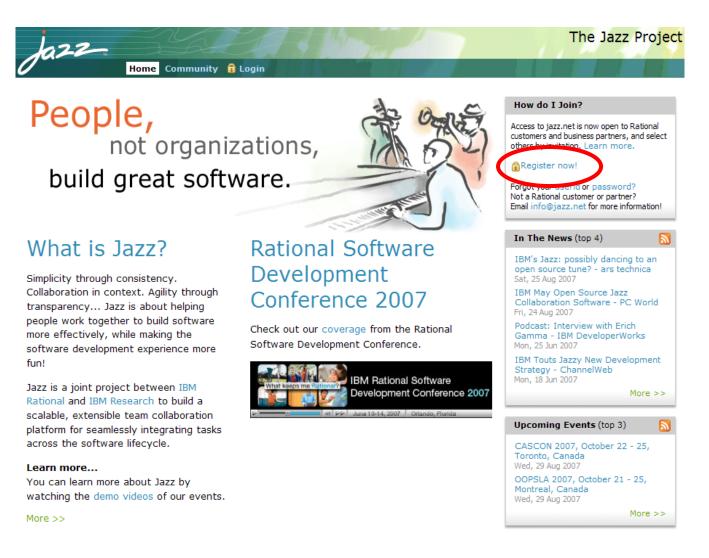
- LDAP
- Permissions
- Oracle support
- Planning
 - Team load, My work view
- Build
 - Personal builds
 - "Found in" links



Everybody can try it out now



www.jazz.net



45



Getting Started 🏠 (+ -) 🖾 🗖 🗗 💫 Welcome 🔀 First Steps Go to Jazz.net Learn about Rational Team Concert Project administrators Forums What you need to know to get started Set up a new Jazz project area and team area Read this one page "Jazz Platform quick reference" Developer Wiki to learn the basic terminology and concepts This cheatsheet quickly guides you through the before you get started. steps for making a repository connection, creating a new Jazz project area, adding a team area, and Blogs adding members to the team. If you just installed the server and client, this is a great place to What is Jazz? start. Jazz is a scalable, extensible, team collaboration Install platform for seamlessly integrating tasks across the software lifecycle. Create a sample Jazz project area 🔀 😥 JUnit Project 🔭 Jazz workshop Click here to add a sample Jazz project area to your repository. The sample includes team areas Overview of the Jazz Platform 🔯 Project Area 💌 team members, processes, work items, streams architecture and components. This is a great way to expl JUnit Project Install Learn about the architecture of the Jazz Platform: nd start planning. the repository, server, and components. ▼ Details Summary Try the JUnit JUnit Sample Repository Process: This sample process contains exemplary process definitions used in the JUnit sample repository. Description ▼ Process Iterations Sample Project 😑 👺 development Edit Properties... = = 4.4 [2/14/08 - unknown] ⊕ 📁 1.4 m1 [1/15/08 - 2/14/08] = = 4.4 m2 [2/14/08 - 3/15/08] Create Line... P Development Members 💷 End Game 22 Create Iteration.. 😑 📟 4.4 rc0 [3/15/08 - unknown] Roles determine a user's permissions as well as any preconditions and follow-up actions that are run for project and team 📼 Development Delete.. operations. The roles assignments below are also valid in all the project's team areas. Unless configured otherwise, all users in - End Game the repository play the 'default' role. - - - 4.4 rc1 Add... Development End Game Create... Remove Process Roles.. 😑 Bill Cassavelli Overview Process Configuration Process Specification Work Item Categories Work Item Deliverables 46 IKM