

IBM Rational Software Development Conference 2008

WHERE TEAMS ARE **R-HEROES**

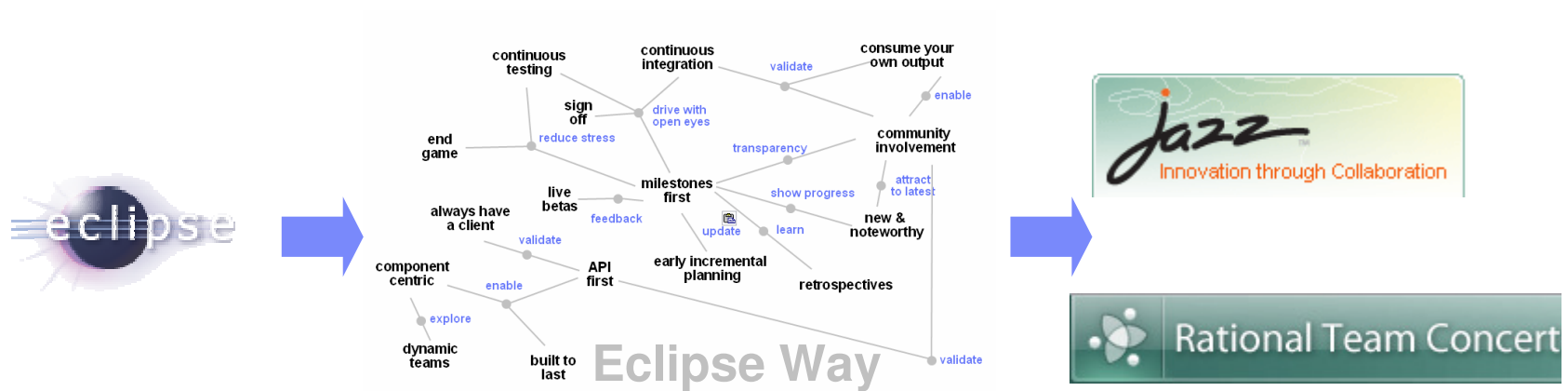


Globally Distributed Software Development

Erich Gamma

Distinguished Engineer, Jazz Technical Lead
IBM Rational Zurich Research Lab
erich_gamma@ch.ibm.com

Our Journey: XDE -> CDE



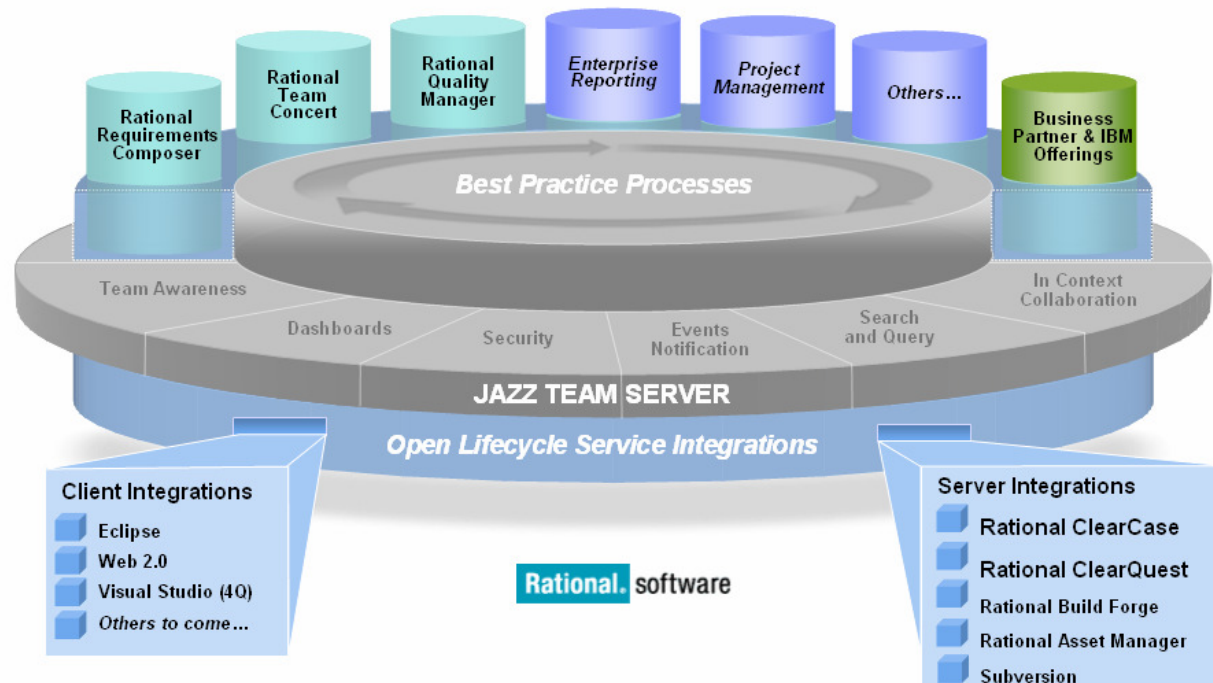
The Jazz Project

- An effort to create a scalable, extensible team collaboration platform.
- A vision for the future of software delivery – supporting a workforce that is organizationally and globally distributed.
- A community at Jazz.net – the online venue for open commercial development of Jazz-based products.



Jazz and Team Concert

- Jazz is a technology platform



- Rational Team Concert is the first Jazz based product



Team Concert

SCM

- Change sets
- Suspending changes
- Workspaces, Streams
- Components, Baselines
- Snapshots
- *ClearCase Connector, SVN Bridge*

Work Items

- Defects, Enhancements
- Task tracking
- Approvals
- Iteration planning
- Workflow customization
- *ClearQuest Connector*

Build

- Continuous integration
- Build engine
- Work Item and Change Set Traceability
- Run Personal Builds
- *Integration with Build Forge*

Project Health

- Reports
- Dashboards (project, team, personal)

- Project, Teams, Users
- Process enactment, customization, role based Permissions
- In-context Collaboration, Events, Presence

Rational Team Concert

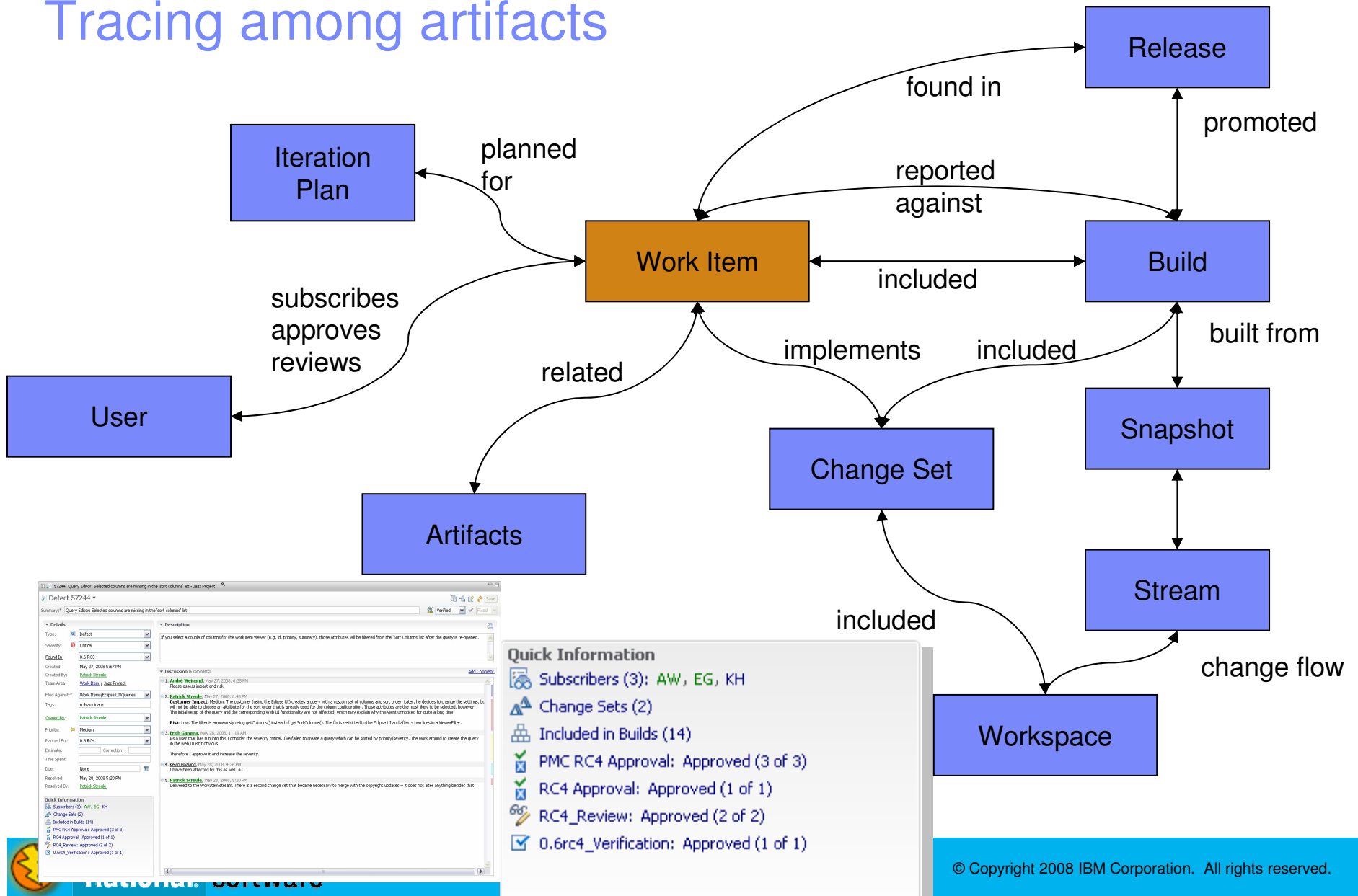


Team Concert Themes

- Themes derived from the CDE properties:
 - ▶ Integration
 - ▶ Team First
 - ▶ Collaboration
 - ▶ Transparency/visibility

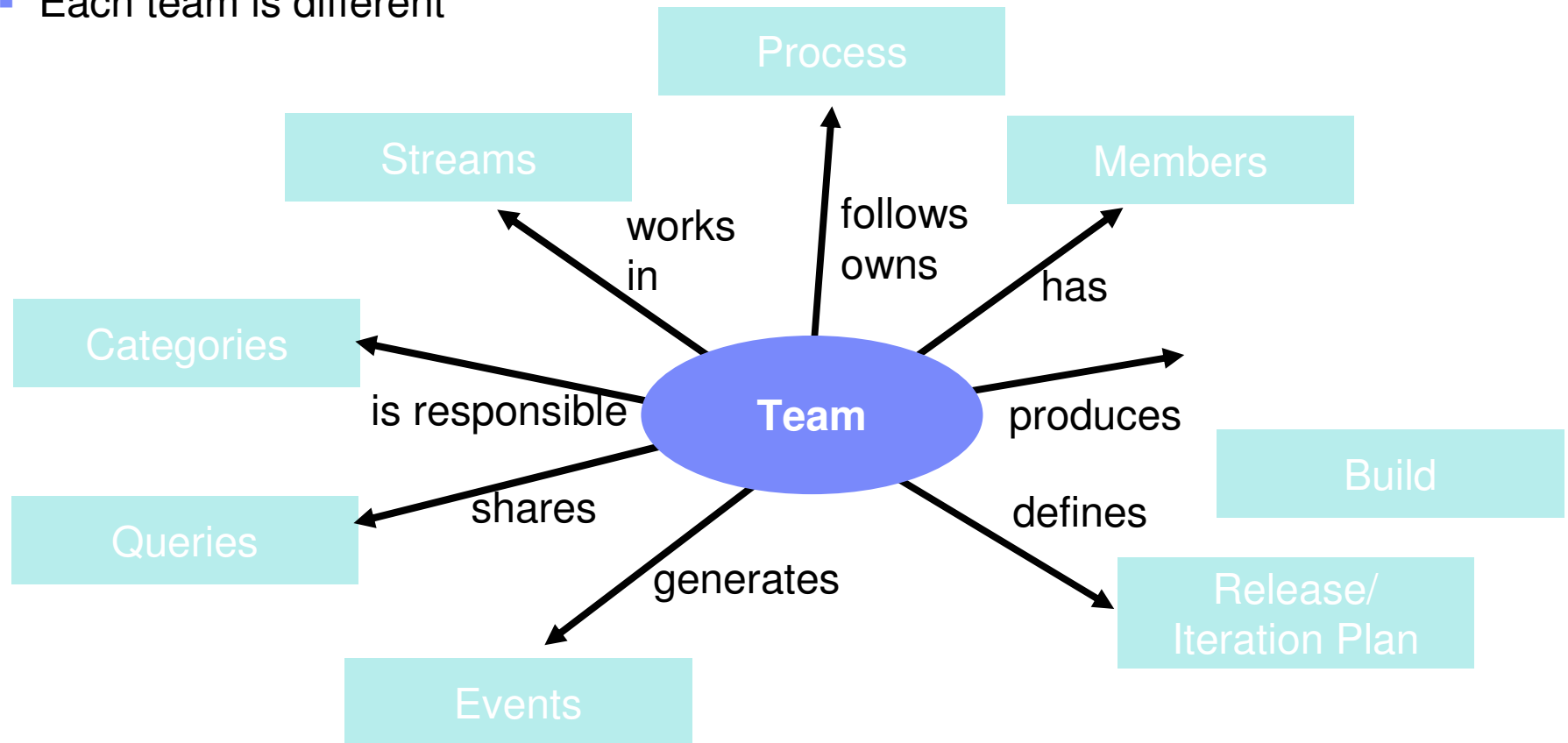


Tracing among artifacts



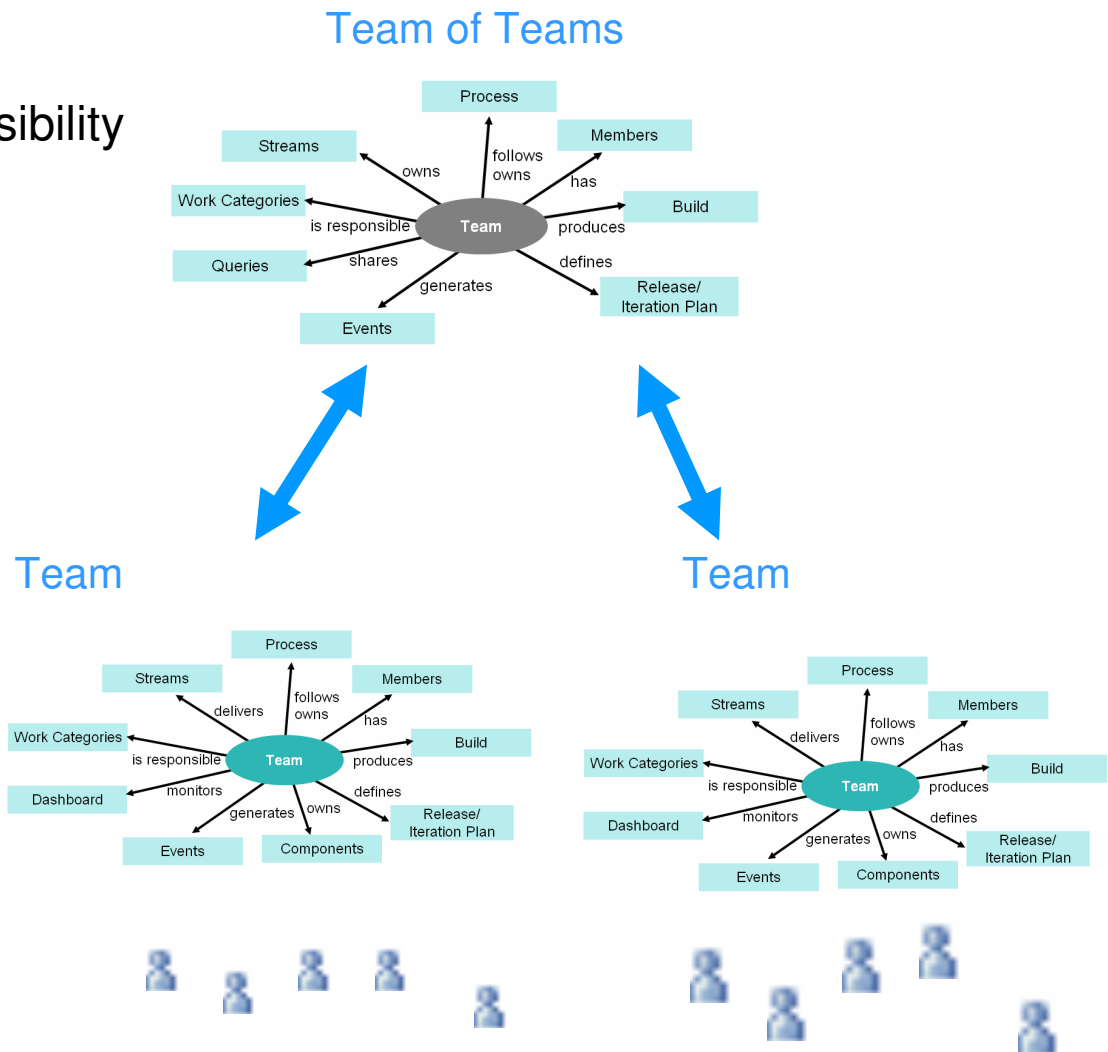
Team First

- Tools know the Team
- Each team is different



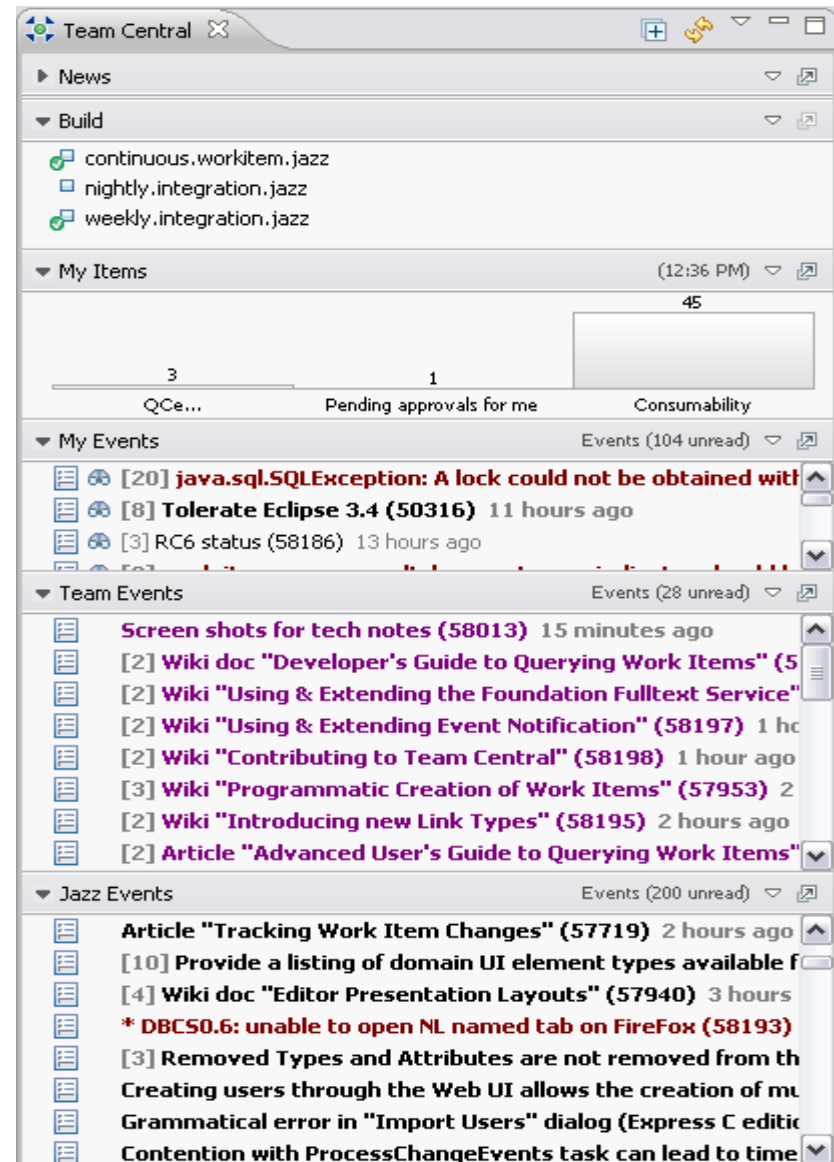
Team First: Scoped Collaboration

- Multiple level of information visibility
- Isolation levels:
 - ▶ individual user
 - ▶ team
 - ▶ teams of teams
- Distributed teams



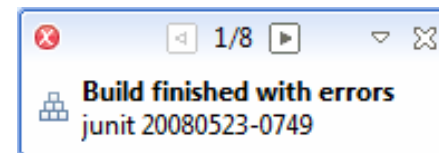
Notifications

- RSS feeds enable everybody to be informed of changes
- Feeds for the:
 - ▶ individual user
 - ▶ team
 - ▶ team of teams



Builds

- Scoped builds
 - ▶ Personal builds
 - ▶ Continuous team builds
 - ▶ Scheduled integration builds
- Collaborate in context on build failures



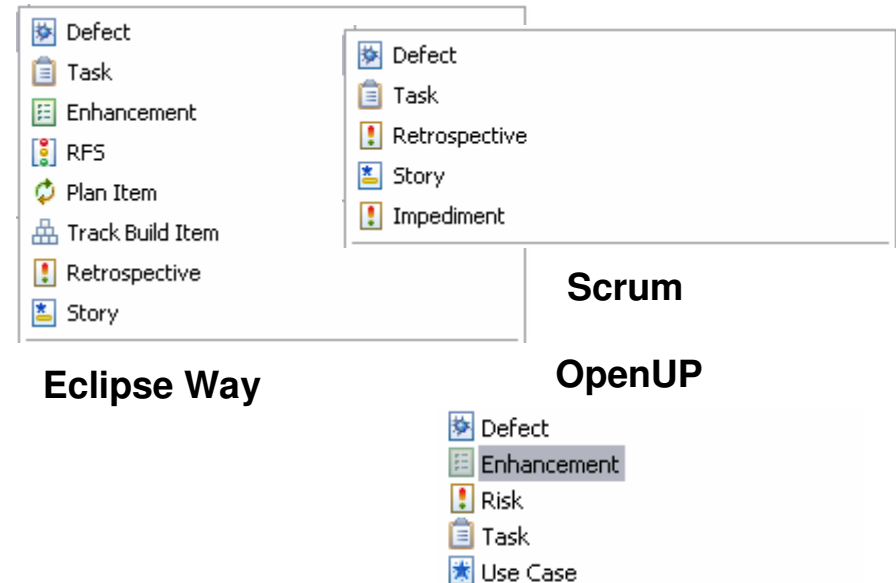
Rules/Process

- All collaborations have underlying **context specific rules** and **patterns** Each project follows a process
- Each team is unique and thus can work differently ⇒ Team's own their process
- Team members play roles defined by the process



Process

- Process manifested through:
 - ▶ artifact types and their states
 - ▶ role-specific preconditions and follow-up actions on operations manipulating artifacts
 - ▶ artifact change events
 - ▶ role-specific and permissions



Actions	Everyone (default)	Product Owner	ScrumMaster	Team Member
[-] Dashboards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+ Save Personal Dashboard (server)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+ Save Project Dashboard (server)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[-] Item Connectors	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+ Delete Synchronization Rule Info (server)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+ Save Synchronization Rule Info (server)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
[-] Process	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
+ Save Project Area (server)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
[-] Work Items	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+ Save Attachment (server)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+ Save Category (server)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
+ Save Release (server)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Transparency/Visibility: Dashboards

- Knowing what is going on without having to ask
- At a glance view on team artifacts
- Three dashboard types:
 - ▶ **project**
 - ▶ **team**
 - ▶ **individual user**

Viewlets

- ▶ **Development**
- ▶ **Feeds**
- ▼ **Live Reports**
 - ▶ Tag Cloud
 - ▶ Work Item Statistics
- ▶ **Monitoring**
- ▼ **Personal**
 - ▶ About Me
- ▶ **Project/Team**
- ▶ **Tools**
- ▼ **Trend Reports**
 - ▶ **Builds**
 - ▼ **Work Items**
 - ▶ Blocking Work Items
 - ▶ Burndown
 - ▶ Closed Work Items Daily



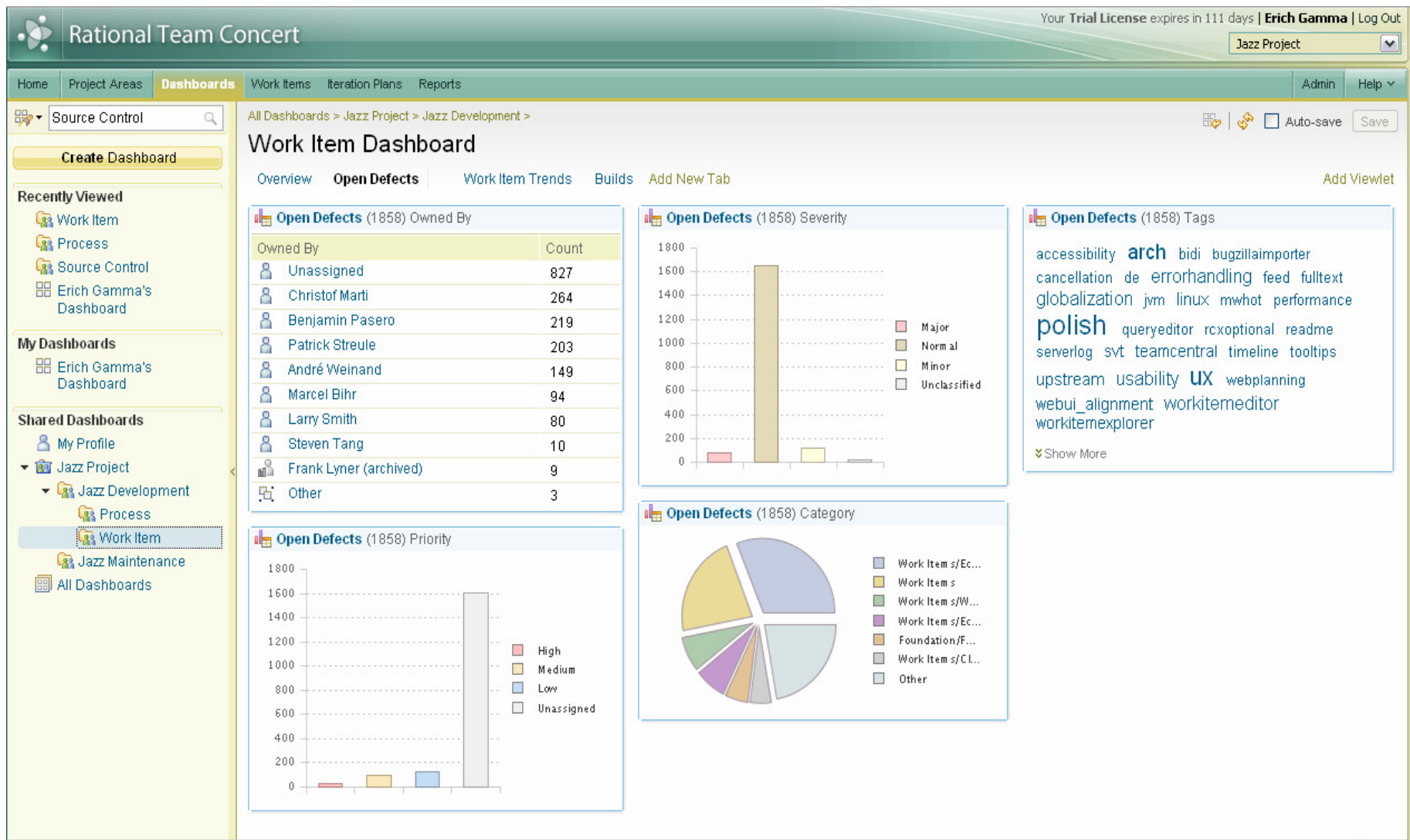
A Personal Dashboard

The screenshot displays the 'Erich Gamma's Dashboard' within the IBM Rational software environment. The interface is organized into several key sections:

- Navigation Bar:** Includes tabs for Home, Project Areas, Dashboards, Work Items, Iteration Plans, Reports, and Admin. A search bar and a 'Type to search' input are also present.
- Left Sidebar:**
 - Create Dashboard:** A button to create a new dashboard.
 - Recently Viewed:** Lists 'Jazz Development' and 'Erich Gamma's Dashboard'.
 - My Dashboards:** Shows 'Erich Gamma's Dashboard' as the active dashboard.
 - Shared Dashboards:** Includes 'My Profile', 'Jazz Project', 'Jazz Development', 'Process', 'Work Item', 'Jazz Maintenance', and 'All Dashboards'.
- Main Dashboard Content:**
 - Work Items:** A dropdown menu with options for 'PMC' and 'Team', and a link to 'Add New Tab'.
 - Bookmarks:** A section for 'Weekly Status'.
 - Jazz Project Event Log (32 new):** A list of recent events, including 'NPE in WorkItemWorkingCopyManager.connectLocal (55014) 10 minutes ago' and 'Send Mail in context does not work (54367) 20 minutes ago'.
 - Recently High Severity (57):** A list of high-severity issues, such as '54458: Add page is a sub menu with no action' and '54516: Process WebUI editors don't give any significant visual guidance'.
 - Unknown Inbox (1):** A list of unknown items, including '54914: Download of Jazz components crashes Koquerer browser'.
 - Open assigned to me (6):** A list of open items assigned to the user, including '48865: [Risk] Migrating from an existing bug tracking system' and '38334: PC view got added to the "wrong" place'.
 - Pending approvals for me (2):** A list of pending approvals, including '54208: Beta 3 Install and Licensing test pass' and '54403: License bong attempting to suspend change-set says operation was createPersonalWorkspace'.
 - My Queries:** A list of queries, including 'Non IBM Filed (277)', 'All Plan Items (121)', 'PMC New (146)', 'PMC Plan Items (39)', 'Consumability (46)', 'Getting Started (143)', 'Recently High Severity (57)', 'Plan Items (121)', and 'RFS (28)'.



A Team Dashboard



Team Dashboard

Jazz | Dashboards - Jazz Project... **Jazz | Dashboards - Jazz Developmen...**

You are logged in as **Erich Gamma** | [Logout](#)

The Jazz Project

Home | Dashboards | Work Items | Iteration Plans | Reports | Admin

Create New Dashboard **Find Dashboard**

My Dashboards
Erich Gamma's Dashboard

Shared Dashboards
My Profile
Jazz Project
Jazz Development
Process
Work Item
Jazz Maintenance

Jazz Project Dashboard ☐ Auto-save

Home **Trend Reports** **Feeds** **Add New Tab**

Planning
PMC M6 Plan available

Welcome
Welcome to the Jazz Project dashboard. You can visit this space often to monitor all the vital signs of the Jazz Project at a glance, fed by the live data from the repository.

Jazz Project Description
Process enabled team collaboration platform
The goal of the Jazz project is to build a scalable, extensible team collaboration platform for seamlessly integrating tasks across the software lifecycle. The new technology is called the Jazz Platform. The Jazz project is defining the overall architecture of the Jazz Platform, and building an initial set of Jazz components that plug in to the Jazz Platform.
The work in the Jazz project is divided into development work and maintenance work. Development work produces a consecutive line of releases. Maintenance work produces bug fix releases of the released produced by the development work.
Development as well as maintenance work is overseen by the PMC. The team members listed in this project area constitute the PMC.

Jazz Project Teams (44)
Jazz Development
Agile Planning
Build
ClearCase Connector
ClearQuest Connector
Community Site
Dashboard
Improv
Incubator
Code Coverage
Component Development
JRS
Myllyn Integration
Provisioning
Static Analysis
Tuner
Visual Studio Client
Install
Jumpstart
Process
Release Engineering
Reports
Repository
Gateway
Source Control
System Test
UI Design



Team of Teams Dashboard

Rational Team Concert Erich Gamma | Log Out Jazz Project

Home Project Areas **Dashboards** Work Items Iteration Plans Reports Admin Help

Type to search All Dashboards > Jazz Project > Auto-save Save

Create Dashboard

Recently Viewed

- Jazz Development
- Erich Gamma's Dashboard

My Dashboards

- Erich Gamma's Dashboard

Shared Dashboards

- My Profile
- Jazz Project
 - Jazz Development**
 - Process
 - Work Item
 - Jazz Maintenance
 - All Dashboards

Jazz Development

General Builds Open Defects by Themes 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 Viewlet

Endgame Has Started

Detailed Plan available here:
End Game Plan

Jazz Development Description

Open Track Build Items (2)

- 55647: Beta3 status
- 55766: RC3 status

Beta3 Candidates (11)

- 55271: APT data not removed in beta2 to beta3 migration
- 55431: Test Failure (I20080509-1203): com.ibm.team.appt.internal.ide.ui.tests.editor.outliner.PlantItemMoveUITest.testMoveUp46
- 55452: Built-in process templates use linksSummary
- 55561: Using subscriber dialog makes backspace key inoperative
- 55631: Work item editor UI unresponsive due to synchronization issues in WorkItemEstimateAttributePart
- 55652: OOME from too many ChangeEvents in memory
- 55653: Deadlocks with multiple license assignments and queries
- 55669: Feature containing work item documentation missing from install
- 55686: Cannot create root in empty folder of existing ClearCase component
- 55748: Test Failure (I20080513-2020): WorkItemManagerTests.testTwoSyncRequestsCreatingTheSameCategory

Risks (11)

- 48868: [Risk] CC Connector
- 48862: [Risk] We need to build what we ship
- 48863: [Risk] Migrating/importing SVN repositories
- 53578: [Risk] Data corruption
- 48871: [Risk] CQ Connector Set-up
- 48875: [Risk] Scale to 250 users
- 48870: [Risk] Oracle Support
- 48876: [Risk] Scale towards large repositories
- 48874: [Risk] Derby Support
- 48872: [Risk] Active Directory
- 48865: [Risk] Migrating from an existing bug tracking system

Open License Defects (7)

- 53765: License policies should depend on the correct server version
- 55203: The Upload Server and CAL Activation Key links in the Jazz Web UI don't stand out
- 51902: Document license APIs
- 55444: Comments on licenseing messages
- 55004: Poor feedback on license validation if server is down
- 55508: Missing warning in project/team area editors for express edition when role based permissions are not available
- 55679: Require that users have a license to do the "com.ibm.team.rtc.login" operation when logging in from the UI

RFS (28)

Cross Team Expectations (0)

No work items found.

Cross Team Adoptions (0)

No work items found.

PMC 1.0 Wishes (3)

- 54596: Missing warning about changes to teams.server.properties and tomcat/conf files when upgrading server versions.
- 55508: Missing warning in project/team area editors for express edition when role based permissions are not available
- 55521: User Selector dialog: inconsistent state shown to the user

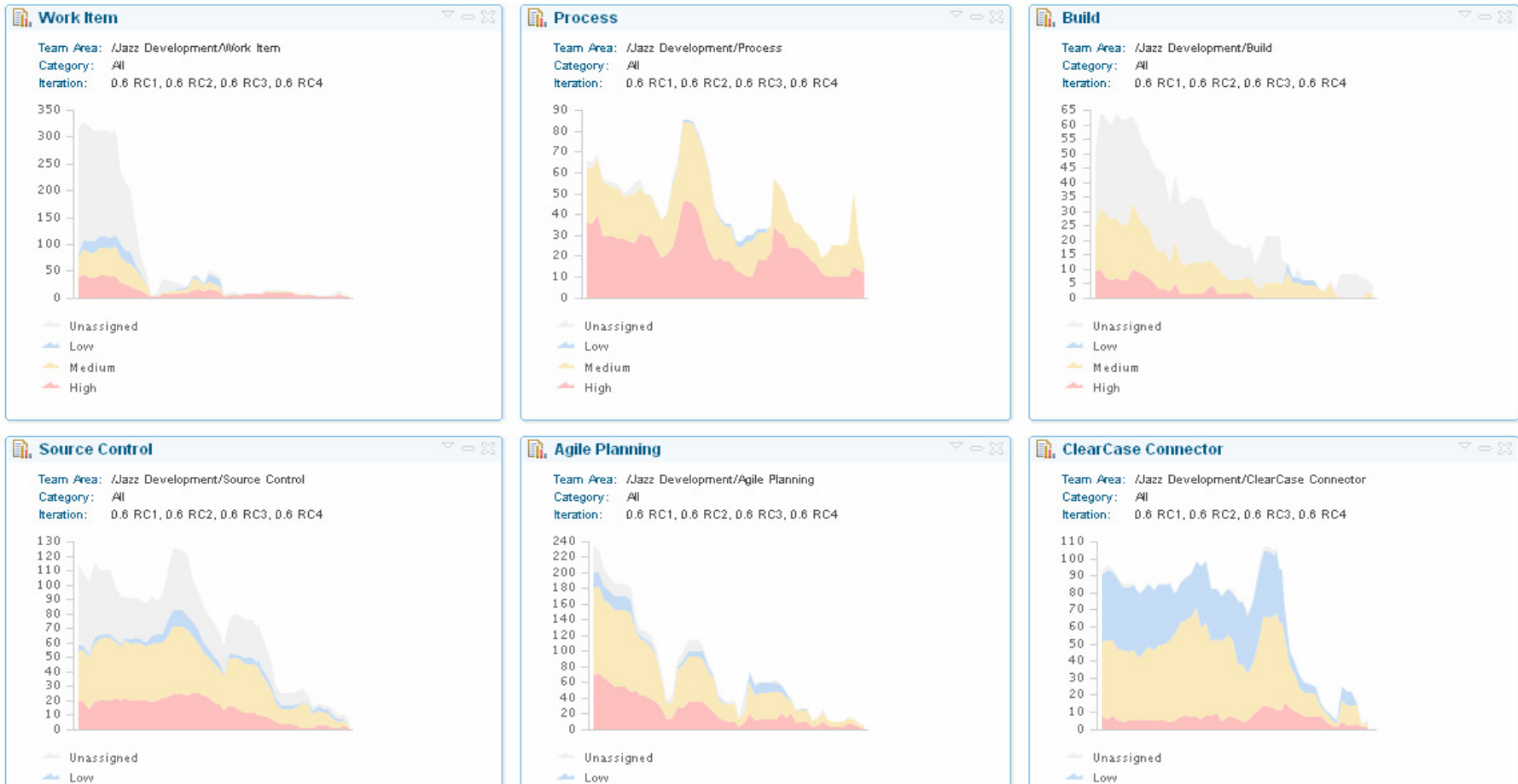


Team of Teams Dashboard

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 Viewlet](#)

Point of Friction: Getting Started

- Cost of setting-up a new team member
- Demo:
 - ▶ new team member joins a team
 - ▶ learns about the team
 - ▶ fixes and delivers the first bug



Team Invitation

	Erich Gamma/Zurich/IBM@IBMCH	To	Erich Gamma/Zurich/IBM@IBMCH
	03/11/2008 11:40 AM	cc	
	Please respond to Erich Gamma/Zurich/IBM@IBMCH	bcc	
		Subject	Welcome to the Work Item Team

Default custom expiration date of 06/09/2008

You have been invited to join the Jazz team Work Item.

If you have not already done so, please download and install a Jazz client from <https://jazz.net/>

To learn about the project please visit:

<https://jazz.net/jazz/web/projects/Jazz%20Project#action=com.ibm.team.dashboard.viewDashboard>


Once the Jazz client is installed, use File>Accept Team Invitation.

Copy the invitation below and paste into the Accept Invitation text field.

```
teamRepository=https://jazzdev.torolab.ibm.com:9443/jazz/  
userId=egamma  
userName=Erich Gamma  
projectAreaName=Jazz Project  
teamAreaPath=/Jazz Development/Work Item
```



Team Invitation

	Erich Gamma/Zurich/IBM@IBMCH	To	Erich Gamma/Zurich/IBM@IBMCH
	03/11/2008 11:40 AM	cc	
	Please respond to Erich Gamma/Zurich/IBM@IBMCH	bcc	
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To learn about the project please visit:

<https://jazz.net/jazz/web/projects/Jazz%20Project?action=com.ibm.team.dashboard.viewDashboard>

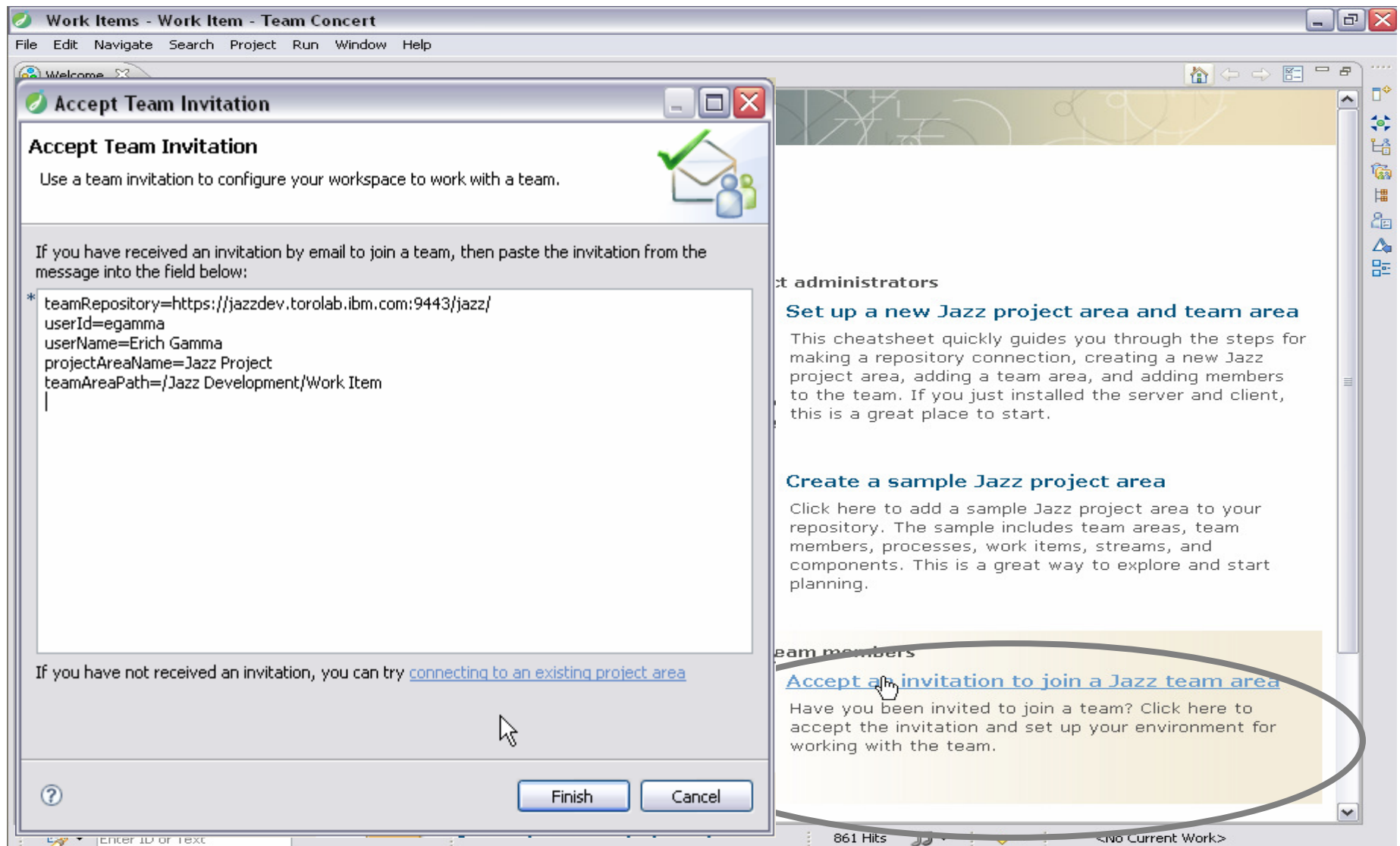
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```
teamRepository=https://jazzdev.torolab.ibm.com:9443/jazz/  
userId=egamma  
userName=Erich Gamma  
projectAreaName=Jazz Project  
teamAreaPath=/Jazz Development/Work Item
```



Accept Team Invitation



Team Area

Work Item - Team Concert

File Edit Navigate Search Project Run Window Help

Work Item >>

Team Area

Work Item

Summary

Work Item component

Description

Provides support for managing defect reports, feature requests, and other development tasks.

Members

Roles determine a user's permissions as well as any preconditions and follow-up actions that are run for team operations. The roles assignments below are also valid in all child team areas. Unless configured otherwise, all users in the repository play the 'default' role.

Name	Process Roles
André Weinand	componentlead, contributor
Benjamin Pasero	contributor
Christof Marti	contributor
Dirk Baeumer	parttime, contributor
Erich Gamma	newcomer, parttime
Frank Lyner (archived)	contributor

Administrators

Overview | Process Customization

project area's process specification that apply to this team area.

development [inherited] Browse...

Process: customized

Process Description

Artifacts

- Builds
 - buildtest.workitem.jazz
 - continuous.workitem.jazz
 - zurich.experimental
 - zurich.build.input
- Feeds
 - All events for this team area
- Plans
 - 0.6 M6 [development]
 - Foundation & Work Items [0.6 M6]
 - 0.6 [development]
 - development
- Work Items
- Reports

Attachments

Found 89 Work Items (5265 ms) - Assigned

I	Status	P	S	Summary	Owned By
47108	New			[Joining a Team] Set Up Instant Messaging	Erich G
47107	New			[Joining a Team] Find Your Work Items	Erich G
47106	New			[Joining a Team] Create a Repository Workspace	Erich G



Team Members

*APT [0.6 M6] - Iteration plan APT - 0.6 M6

APT Problems detected

Team Area: Agile Planning | Iteration: 0.6 M6

Feb 25, 2008 | -16 | Apr 4, 2008

31% 69%

91 Closed 199 Open Items

Save

Dirk Baeumer

Open items: 28 | Closed items: 9

Past (9 closed)

Today (5 open)

Plan editor: child work items owned by another team are no longer shown	1 hour	High	45475
Ghost items on plan	2 hrs	High	46079
Add Task Below / Above should use work item type configured in process configuration.	1 hour	High	45894
Error reporting and resolution is hard because of plan modes	-	Medium	24328
Subscribing to the plan feed using the RSS button does not provide any feedback to the user	2 hrs	Low	23888

Later This Week (2 open)

Unknown (21 open)

Johannes Rieken

Open items: 35 | Closed items: 32

Past (32 closed)

Today (6 open)

Confusing labels in load hover	2 hrs	Medium	44775
browsing a Task hyperlink contained page pop up Location is not named error	1 hour	High	46973
DBC50.6: failed to add attachment	45 mins	High	46975
Can't read the text of "Top Items" when in "My Folders" mode of plan	30 mins	Medium	45580

Overview | Planned Items | Charts

Show

- ☐ Parent Summary
- ☐ Description
- ☒ Status

Exclude

- ☐ Empty groups
- ☐ Estimated items
- ☒ Resolved items

[More filters...](#)

[Tags...](#)

Group by

Scheduled Time

Sort by

Scheduled Time

Plan Work Items

[Open Items](#)

[Closed Items](#)



New Work for Me

The screenshot displays the IBM Rational software interface, divided into two main panels: 'Team Area' on the left and '*My Work' on the right.

Team Area Panel:

- Work Item:** Shows a summary of a work item component and its description: 'Provides support for managing defect reports, feature requests, and other development tasks.'
- Members:** A list of team members with their roles:

Name	Process Roles
André Weinand	componentlead, contributor
Benjamin Pasero	contributor
Christof Marti	contributor
Dirk Baeumer	parttime, contributor
Erich Gamma	newcomer, parttime
Frank Lyner (archived)	contributor
- Administrators:** A section for managing team administrators.
- Overview / Process Customization:** Tabs for navigating between different views.
- Navigation Bar:** Includes icons for Problems, Team Ad, Console, History, Plug-in R, Search, Change E, and Repository.
- Found 89 Work Items (5265 ms) - Assigned:** A table listing assigned work items:

I	Status	P	S	Summary
47108	New			[Joining a Team] Set Up Instant Messaging
47107	New			[Joining a Team] Find Your Work Items
47106	New			[Joining a Team] Create a Repository Workspace

***My Work Panel:**

- Newly Assigned Work (Jazz Project):** (1 new item)
 - Test Failure (C20080310-1406): com.ibm.team.apl.client.tests.scheduling.WorktimeSchedulerTest.testScheduleZero (47105)
- Current Work (Jazz Project):** (11 unread items)
 - Yesterday (1 items):** [DEMO] Test Failure (C20080310-1406): com.ibm.team.apl.client.tests.scheduling.WorktimeSchedulerTest.testScheduleZero (47099)
 - Today (0 items):** No current work
 - Unknown (11 items):**
- Future Work (Jazz Project):** (4 unread items)



Linkage to the problem

47105: Test Failure (C20080310-1406): com.ibm.team.appt.client.tests.scheduling.WorktimeSchedulerTest.testScheduleZero - Jazz Project

Defect 47105

Summary:* Test Failure (C20080310-1406): com.ibm.team.appt.client.tests.scheduling.WorktimeSchedulerTest.testScheduleZero

Details

Type: Defect

Severity: Critical

Found In: Unassigned

Created: Mar 11, 2008 1:39 PM

Created By: [Erich Gamma](#)

Team Area: [Work Item](#) / [Jazz Project](#)

Filed Against:* Work Items

Tags:

Owned By: [Erich Gamma](#)

Priority: Unassigned

Planned For: -> 0.6 M6

Estimate: Correction:

Time Spent:

Due: None

Description

```
junit.framework.AssertionFailedError: expected: <Mon Mar 10 09:00:00 EDT 2008> but was: <Mon Mar 10 09:00:00 EDT 2008>
at com.ibm.team.appt.client.tests.scheduling.WorktimeSchedulerTest.assertScheduling(WorktimeSchedulerTest.java:304)
at com.ibm.team.appt.client.tests.scheduling.WorktimeSchedulerTest.testScheduleZero(WorktimeSchedulerTest.java:139)
at junit.extensions.TestDecorator.basicRun(TestDecorator.java:24)
at junit.extensions.TestSetup$1.protect(TestSetup.java:21)
at junit.extensions.TestSetup.run(TestSetup.java:25)
at junit.extensions.TestDecorator.basicRun(TestDecorator.java:24)
at junit.extensions.TestSetup$1.protect(TestSetup.java:21)
at junit.extensions.TestSetup.run(TestSetup.java:25)
at org.eclipse.test.EclipseTestRunner.run(EclipseTestRunner.java:354)
at org.eclipse.test.EclipseTestRunner.run(EclipseTestRunner.java:206)
at org.eclipse.test.CoreTestApplication.runTests(CoreTestApplication.java:35)
at org.eclipse.test.CoreTestApplication.run(CoreTestApplication.java:31)
at org.eclipse.equinox.internal.app.EclipseAppContainer.callMethod(EclipseAppContainer.java:572)
at org.eclipse.equinox.internal.app.EclipseAppHandle.run(EclipseAppHandle.java:171)
```

Discussion (1 comments; 1 new) [Add Comment](#)

1. [Dirk Baeumer](#), Mar 11, 2008, 1:42 PM
please fix immediately so that the build becomes green again

Overview Links Approvals History



Drill down to details

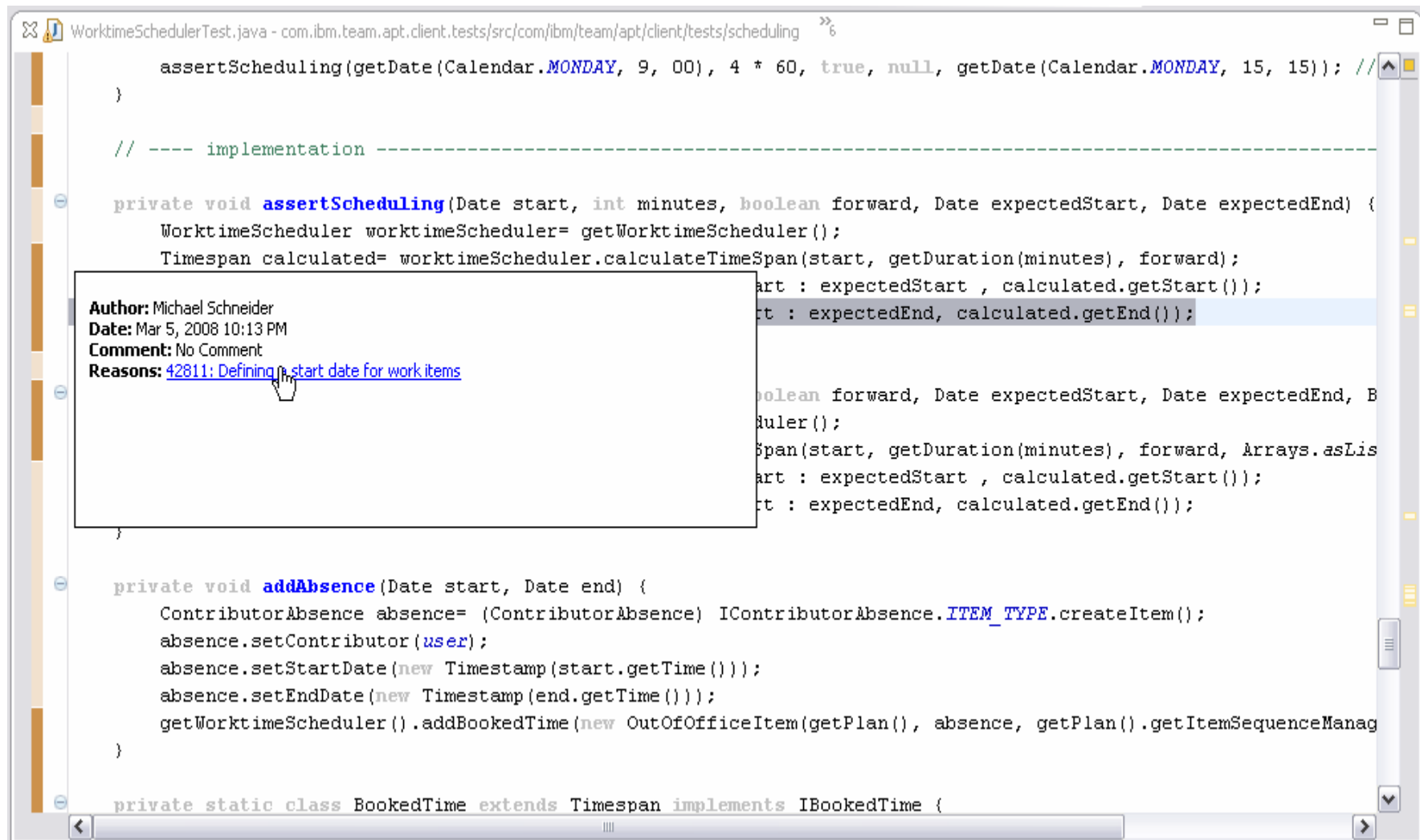
The screenshot displays the IBM Rational Build Explorer window for a specific build. The window title is 'C20080310-1406'. The main content area is divided into several sections:

- Completed:** A red banner indicating the build status. It shows:
 - Duration: 55 minutes, 6 seconds
 - Start Time: March 10, 2008 7:06:38 PM
 - Completed: March 10, 2008 8:01:44 PM
 - Status Trend: A bar chart showing a sequence of red and green bars, indicating a build that failed after some success.
- Reported Work Items:** A list of work items associated with the build:
 - 2 reported against this build
 - 1 currently open against continuous.workitem.jazz
 - Links: [Create a new work item](#), [Associate an existing work item](#)
- Contribution Summary:** A summary of build metrics:
 - Downloads: [10 downloads](#)
 - External Links: [1 link](#)
 - Logs: [6 logs](#)
 - Repository Workspace: [WorkItemContinuousBuild](#)
 - Snapshot: [continuous.workitem.jazz C20080310-1406](#)
 - JUnit: [919 tests, 1 failure, 0 errors](#)
 - Compile: [54 errors, 545 warnings](#)
 - Work items: [4 included in build](#)
 - Coverage: [type: 25%, method: 20%, block: 17%](#)
 - Changes: [Show changes](#)
- General Information:**
 - Requested by: ADMIN
 - Build Definition: [continuous.workitem.jazz](#)
 - Build Engine: [apollobuildserv5](#)
 - Build History: [26 builds](#)
 - Tags:
 - ☒ Deletion allowed

At the bottom, a tabbed interface shows the current view is 'Summary', with other tabs including 'Build Activities', 'Compilation', 'JUnit', 'Downloads', 'Logs', 'External Links', 'Properties', and 'Coverage'.



Fix the Problem



The screenshot shows an IDE window titled "WorktimeSchedulerTest.java - com.ibm.team.appt.client.tests/src/com.ibm.team.appt/client/tests/scheduling". The code is in Java and includes a test method `assertScheduling` and an implementation method `assertScheduling`. A popup window is overlaid on the code, displaying a bug report for issue 42811. The popup contains the following information:

- Author:** Michael Schneider
- Date:** Mar 5, 2008 10:13 PM
- Comment:** No Comment
- Reasons:** [42811: Defining a start date for work items](#)

```
assertScheduling(getDate(Calendar.MONDAY, 9, 00), 4 * 60, true, null, getDate(Calendar.MONDAY, 15, 15)); //
}

// ---- implementation -----

private void assertScheduling(Date start, int minutes, boolean forward, Date expectedStart, Date expectedEnd) {
    WorktimeScheduler worktimeScheduler= getWorktimeScheduler();
    Timespan calculated= worktimeScheduler.calculateTimeSpan(start, getDuration(minutes), forward);
    start : expectedStart , calculated.getStart();
    end : expectedEnd, calculated.getEnd();

    boolean forward, Date expectedStart, Date expectedEnd, B
    uler();
    span(start, getDuration(minutes), forward, Arrays.asList
    art : expectedStart , calculated.getStart();
    t : expectedEnd, calculated.getEnd();

private void addAbsence(Date start, Date end) {
    ContributorAbsence absence= (ContributorAbsence) IContributorAbsence.ITEM_TYPE.createItem();
    absence.setContributor(user);
    absence.setStartDate(new Timestamp(start.getTime()));
    absence.setEndDate(new Timestamp(end.getTime()));
    getWorktimeScheduler().addBookedTime(new OutOfOfficeItem(getPlan(), absence, getPlan().getItemSequenceManag
}

private static class BookedTime extends Timespan implements IBookedTime {
```



Deliver a Fix (Change Set)

The screenshot displays the IBM Rational IDE interface. The main editor shows the file `WorktimeSchedulerTest.java` with the following code:

```

assertScheduling(getDate(Calendar.MONDAY, 9, 00),
}

// ---- implementation -----

private void assertScheduling(Date start, int minutes,
    WorktimeScheduler worktimeScheduler= getWorktimeScheduler()
    Timespan calculated= worktimeScheduler.calculateTimespan(
    assertEquals(forward && expectedStart == null) ?
    //assertEquals(!forward && expectedEnd == null) ?
)

private void assertScheduling(Date start, int minutes,
    WorktimeScheduler worktimeScheduler= getWorktimeScheduler()
    Timespan calculated= worktimeScheduler.calculateTimespan(
    assertEquals(forward && expectedStart == null) ?
    assertEquals(!forward && expectedEnd == null) ?
)

private void addAbsence(Date start, Date end) {
    ContributorAbsence absence= (ContributorAbsence)
    absence.setContributor(user);
    absence.setStartDate(new Timestamp(start.getTime()));
    absence.setEndDate(new Timestamp(end.getTime()));
    getWorktimeScheduler().addBookedTime(new OutOfOfficeAbsence(
)

private static class BookedTime extends Timespan implements

```

The **Pending Changes** window on the right shows 9 incoming change-sets and 2 outgoing change-sets. The tree structure includes:

- SilverCity <-> SilverCity
 - SilverCity
- WorkItem Workspace <-> WorkItem
 - AgilePlanning
 - Outgoing
- <Enter a Comment>
 - com.ibm.team.apl.client.tests/src/com/ibm/team/apl/client/tests/
 - WorktimeSchedulerTest.java (Modified)
- Incoming
 - FileSystem
 - Foundation
 - Jabber
 - Process
 - Process UI
 - RelEng
 - Repository
 - Repository Client
 - Repository Gateway
 - Repository Migration Tooling
 - Repository Workloads
 - Sametime
 - SCM
 - Server
 - WorkItem
 - Incoming
 - Zurich Development Tools

The bottom panel shows the **Problems** view with the message: "Found 89 Work Items (5265 ms) - Assigned". The table below lists the first three items:

I	Status	P	S	Summary
47108	New			[Joining a Team] Set Up Instant Messaging
47107	New			[Joining a Team] Find Your Work Items
47106	New			[Joining a Team] Create a Repository Workspace



Process Enforcement

Work Items - com.ibm.team.appt.client.tests/src/com/ibm/team/appt/client/tests/scheduling/WorktimeSchedulerTest.java - Team Concert

File Edit Source Refactor Navigate Search Project Run Window Help

WorktimeSchedulerTest.java - com.ibm.team.appt.client.tests/src/com/ibm/team/appt/client/tests/scheduling

```
assertScheduling(getDate(Calendar.MONDAY, 9, 00), 4 * 60, true, null, getDate(Calendar.MONDAY, 15, 15)); //
}
// ---- implementation ----
private
World
Time
ass
//as
}
private
World
Time
ass
ass
}
private
Cont
abse
abse
abse
abse
cont
```

Team Advisor

Deliver (failed)

Non-approved Change sets

Problem
Change sets which aren't approved cannot be delivered to WorkItem.

Reason
Please have your code reviewed and approved before delivering.

Solutions
[Submit Change sets for Review](#)
[Why did this happen?](#)

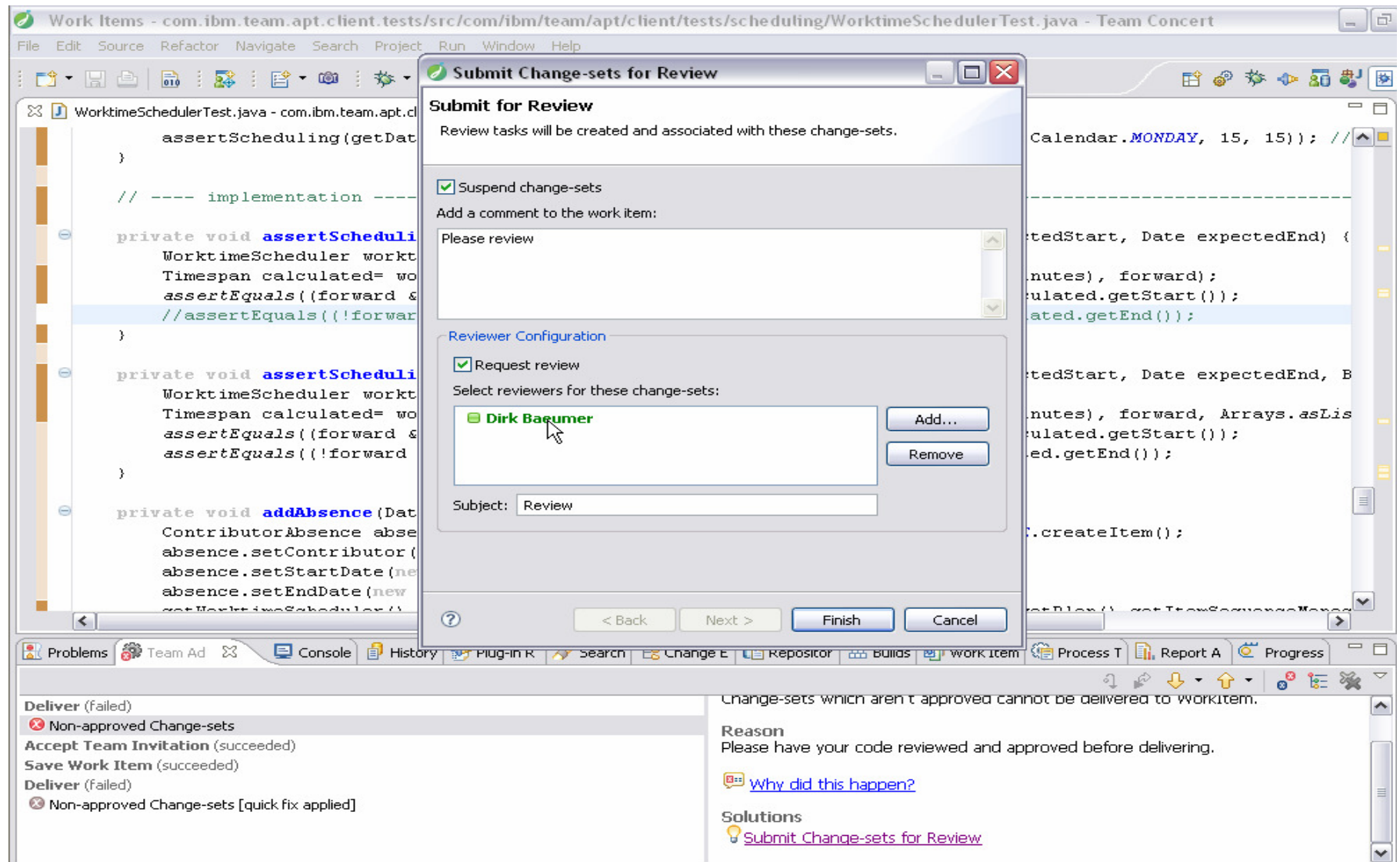
Problems **Team Ac**

Deliver (failed)
Non-approved Change-sets
Accept Team Invitation (succeeded)
Save Work Item (succeeded)
Deliver (failed)
Non-approved Change-sets [quick fix applied]

Change-sets which aren't approved cannot be delivered to workitem.
Reason
Please have your code reviewed and approved before delivering.
[Why did this happen?](#)
Solutions
[Submit Change-sets for Review](#)



Process Requires Code Review



Easy Access to Change Set to Review

Work Items - Jazz Project - Team Concert

File Edit Navigate Search Project Run Window Help

47105: Test Failure (C20080310-1406): com.ibm.team.appt.client.tests.scheduling.WorktimeSchedulerTest.testScheduleZero - Jazz Project

Defect 47105

Summary:* Test Failure (C20080310-1406): com.ibm.team.appt.client.tests.scheduling.WorktimeSchedulerTest.testScheduleZero

Filed Against:* Work Items

Tags:

Owned By: Erich Gamma

Priority: Unassigned

Planned For: -> 0.6 M6

Estimate: Correction:

Time Spent:

Due: None

Quick Information

- Subscribers (1): DB
- Change Sets (1)
- Reported against Builds (1)
- Review: Pending (1 of 1)

Discussion (2 comments)

1. Dirk Baeumer, Mar 11, 2008, 1:42 PM
please fix immediately so that the build becomes green again
2. Erich Gamma, -
Please review

Overview Links Approvals History



Conclusions

- Jazz and Team Concert is developed and used by a globally distributed team
- Experiences
 - ▶ we have become **more continuous**
 - ▶ things important to us we make **explicit**
 - ▶ increased **awareness**
 - ▶ improved **practices**

Effortless access to assets, notifications, reporting,
and tracking for everybody



www.jazz.net

The screenshot shows the homepage of the Jazz Community Site. At the top is a navigation bar with 'Home', 'Community', and 'Log In' links. The main header features the 'Jazz' logo and the tagline 'People, not organizations, build great software.' accompanied by an illustration of musicians. Below this are two columns: 'What is Jazz?' and 'What's new'. The 'What is Jazz?' section describes the collaborative development vision. The 'What's new' section highlights 'Open Services for Lifecycle Collaboration' and 'Rational Team Concert RC4 is now available!'. On the right, a sidebar contains a 'How Do I Join?' section with a 'Register now!' link circled in red, and an 'In The News' section listing recent articles.

Jazz COMMUNITY SITE

Home Community Log In

People, not organizations, build great software.



What is Jazz?

Developing software in a team is much like playing an instrument in a band. Both require a balance of collaboration and virtuosity. Jazz defines a vision for the way products can integrate to support this kind of collaborative work, and a technology platform to deliver on this vision.

Jazz is an [IBM Rational](#) project to build a scalable, extensible team collaboration platform for integrating work across the phases of the development lifecycle. We believe Jazz will help teams build software more effectively while making the software development activity more productive and enjoyable.

[More about the Rational Jazz Project >>](#)

What's new

Open Services for Lifecycle Collaboration

The Open Services for Lifecycle Collaboration initiative is aimed at simplifying collaboration across the software delivery lifecycle. Its goal is to enable teams to use disparate tools and share lifecycle resources in delivering software, whether the tools are from IBM, other vendors, open source projects, or in-house development, and to do so in a way that is open and non-proprietary and that will encourage all industry members to participate.

Rational Team Concert RC4 is now available!

Rational Team Concert is a collaborative software development environment that integrates Source Control, Work Item, and Build Management with Agile Planning and Customizable Process and Workflow. [Register now](#) to access the community site and download RC4.

How Do I Join?

Jazz.net is now open to everyone! Join the Jazz community and get access to product betas and other early Jazz technology.

[Register now!](#)

Why register? Watch the "Tour of Jazz.net" video.

Forgot your [user ID](#) or [password](#)?

In The News (recent)

When can you get the Jazz based Rational Tools?
Mike MacDonagh's Blog
Thursday, 12 June 2008

IBM Rational Takes 'Jazz' Collaboration Suite on a Roll
Integration Developer News
Monday, 9 June 2008

IBM seeks consensus on ALM architecture
InfoWorld Thursday, 5 June 2008

IBM Gets Jazzy with Web 2.0
eWeek Monday, 2 June 2008

[More >>](#)





DEMO





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](#)
- [IBM Rational Business Partners](#)

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