

IBM Innovate 2010

Drinking our own Champagne Jazz开发团队如何使用Jazz工具

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Innovate2010

The Rational Software Conference

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August 27, Beijing

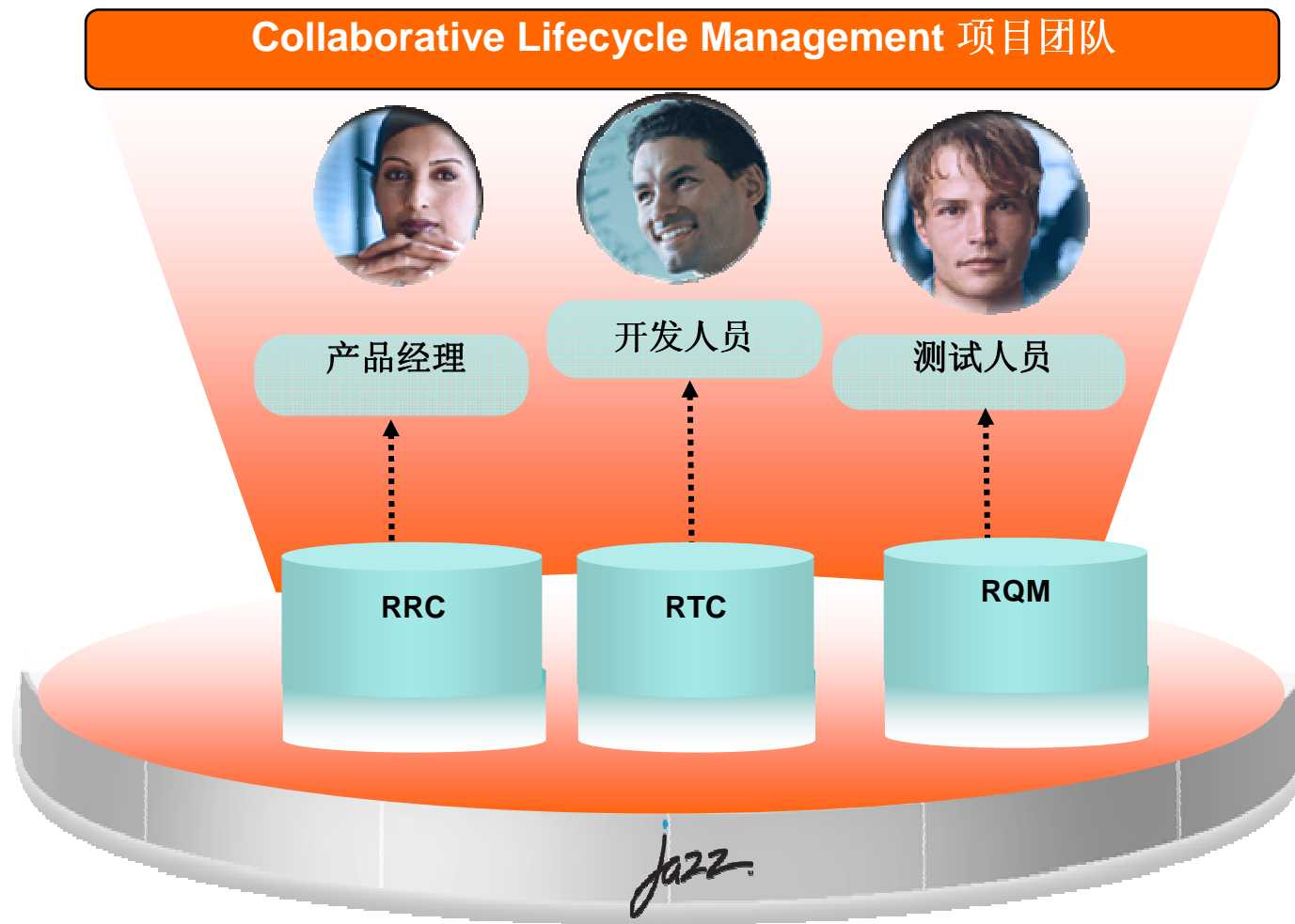


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我们如何让我们的业务团队、开发团队及测试团队步调一致

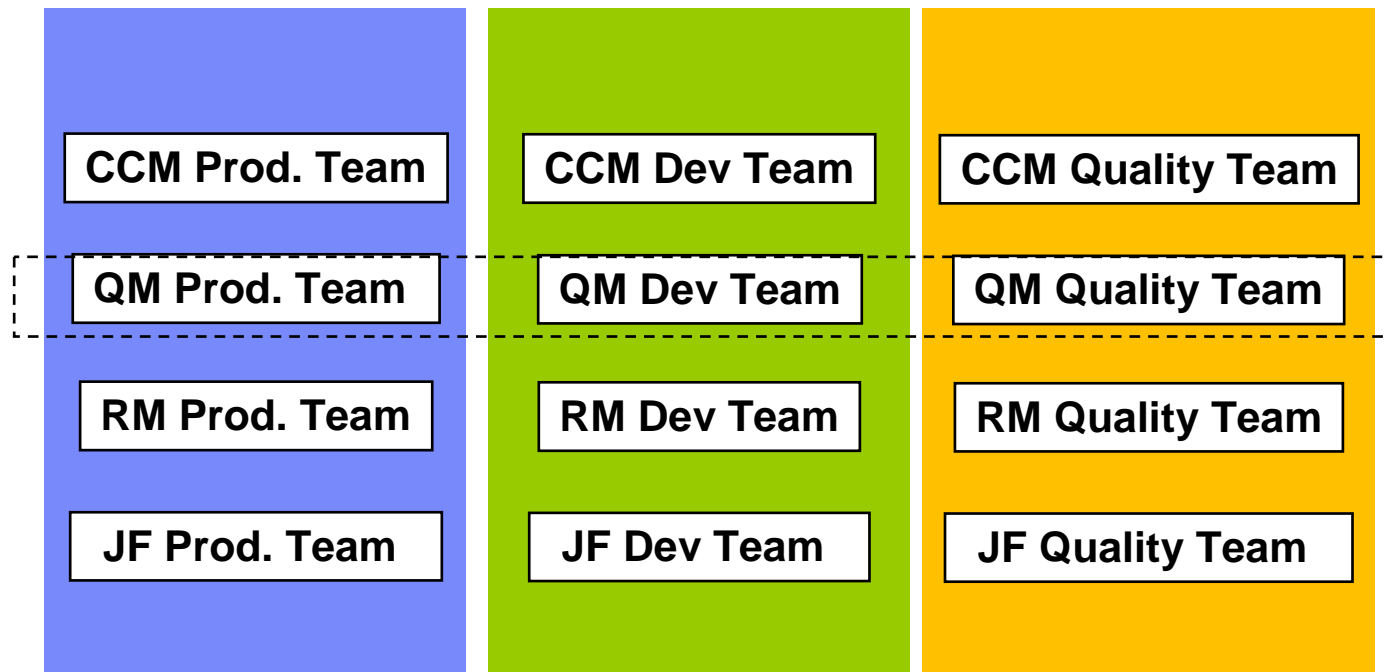


全球分布的 Jazz 开发团队



我们的组织结构

The Rational Workbench for CLM team



产品交付
(业务)

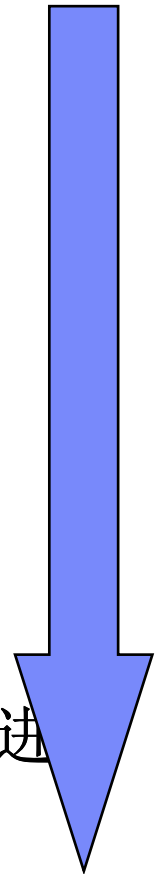
开发

质量管理



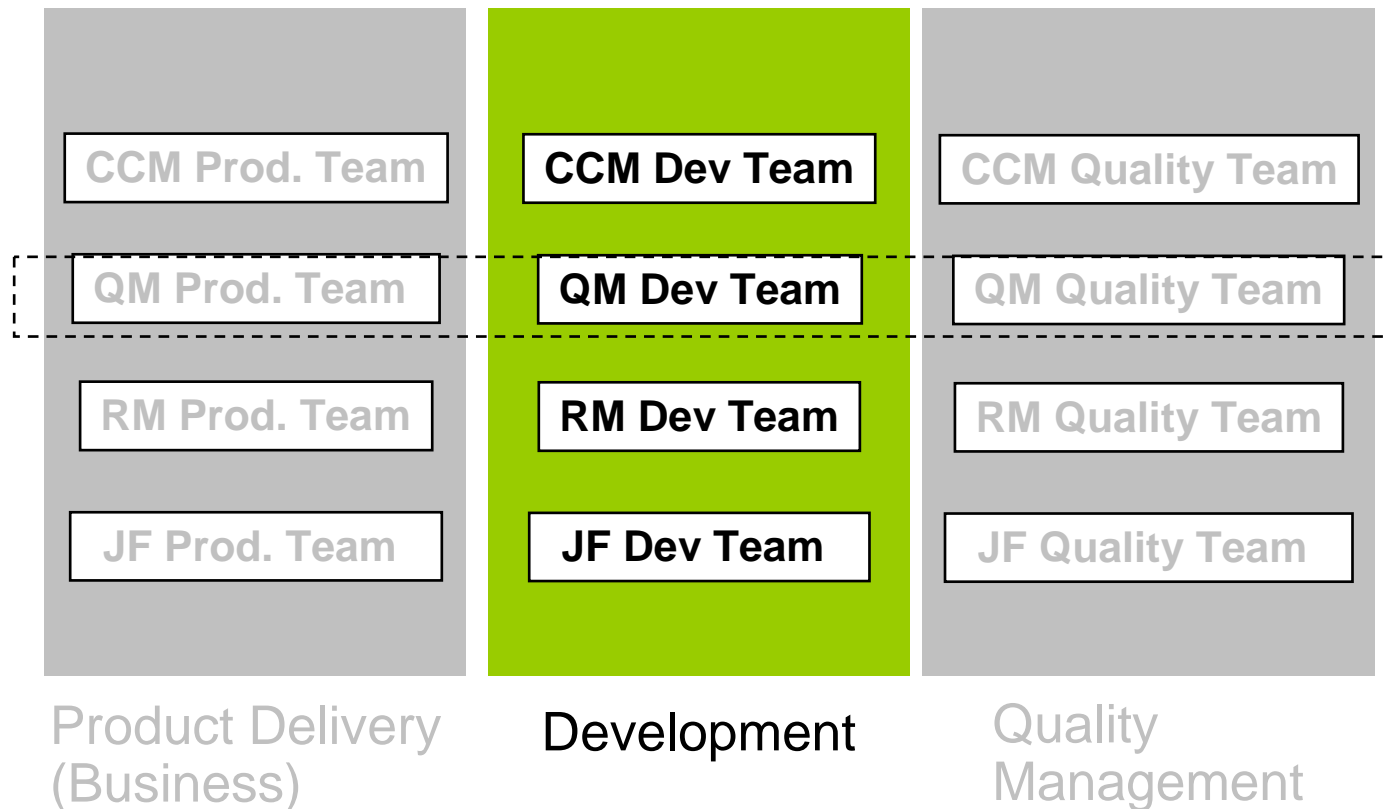
历史轨迹: 我们自己的开发方式发展路线

- 单一的**RTC**项目
 - ▶ 管理开发项目: defects, tasks, plans, scm, build
- 在一个**RTC**服务器上管理多个**RTC**项目
 - ▶ 工件的链接, 跨项目的仪表盘跟踪项目间的关联
- 在多个**RTC**服务器上管理多个**RTC**项目
 - ▶ 跨越服务器的工件的链接
 - ▶ 跨越服务器的跨项目仪表盘
- 配置**RTC**与**RQM**的连接, 将测试团队的工作也协同进来
- 配置**RTC**、**RQM**与**RRC**的连接, 将业务部门的工作也协同进来



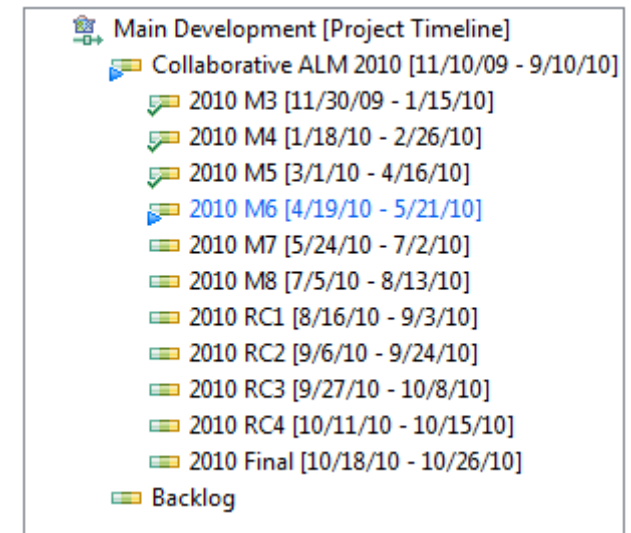
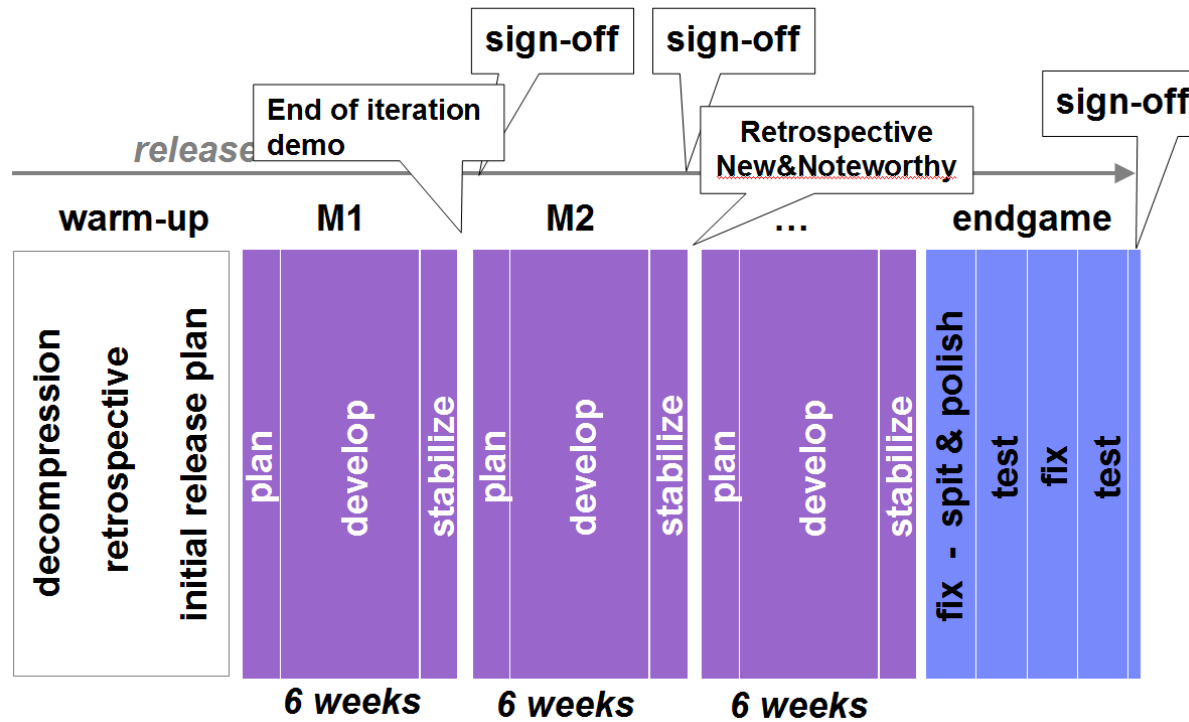
深入了解开发过程

The Rational Workbench for CLM team



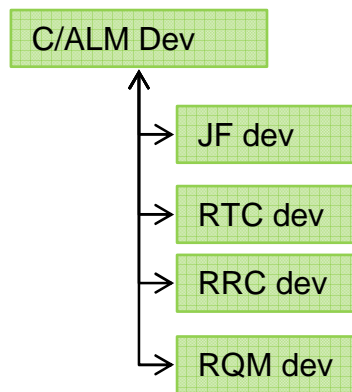
节奏

- 跨越不同产品协调一致的里程碑计划



开发项目之间的关联

- 我们采用了多个RTC的服务器
 - ▶ 不同的服务器方便团队自我管理



Jazz Collaborative ALM

Project Relationships:

- related to Jazz Foundation
- related to JazzCS
- related to Rational Build Forge
- related to Rational Quality Manager
- related to Rational Requirements Composer
- related to Rational Team Concert
- related to Rational Team Concert for System z

- C/ALM 在 Rational's CLM workbench上协调跨不同产品的项目

角色: 我们象一个整体团队一样工作

- 测试人员及产品经理都是开发团队内的一种角色
 - ▶ Tasks for everyone...

Defect <04:38:31>

Summary: Exception when deleting open social dashboard

▼ Details

Type: Defect

Severity: Normal

Found In: 3.0 M5

How Found: Development

OS:

Client:

Team Area:

Unknown
Customer Use
Self Host
Development
Test
Internal

按角色显示不同列表内容

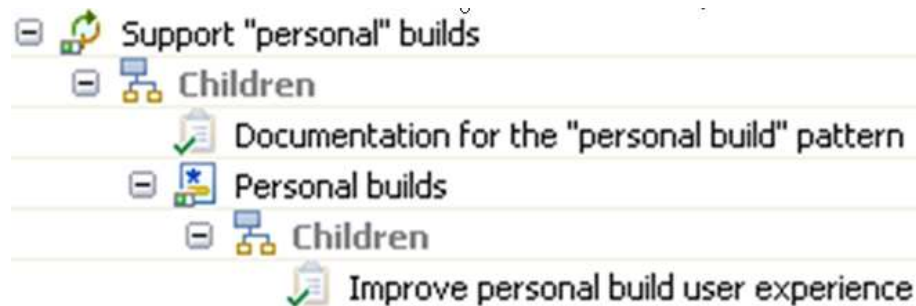
Defined Roles

- PMC
- Component Lead
- Contributor
- parttime
- Project Admin
- Connector Admin
- Dashboard Admin
- integrationstreamadmin
- integrationbuildmeister
- connector
- Development Manager
- Product Manager
- Release Manager
- Tester



工作项类型

- ▶ 计划、故事、任务
- ▶ 跟踪
 - 构建的状态
- ▶ 缺陷
- ▶ 产品增强
- ▶ 迭代回顾



- Defect
- Task
- Enhancement
- RFS
- Plan Item
- Track Build Item
- Retrospective
- Story
- Adoption Item

计划与执行：功能点团队

跨越组件的功能点团队共有一个计划项

功能点状态

Summary: Support task tracking as a service

功能点状态

Dev Status: Defined

Risk Status: Yellow

路线图

Risk Description

路线图

Exploration Done: 2010 M4

Implementation Done: -> 2010 M6

功能点的信息主页

Team

Feature Team Lead: André Weinand

Feature Home Page: <https://jazz.net/wiki/bin/view/Main/CALMFe>

Feature Team:

- André Weinand
- April L de Vries
- Craig Lawton
- ⓧ Erich Gamma
- Jennifer Hayes
- John Whitfield
- Larry Smith
- Patrick Streule
- Pratik Shah

功能点团队

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](#))

3/5/2010:

- added two proposals to [story 10844](#) (see description)

3/12/2010:

- added more details to [story 94074](#)
- prepared detailed tasks for RQM team

3/26/2010:

- created Wiki: <https://jazz.net/wiki/bin/view/Main/CALMTaskAsService>
- 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 <https://jazz.net/wiki/bin/view/Main/CompactRenderingInRichClient> already adopted by SCM

3/26/2010:

- RQM has defined done criteria
- embeddable 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 it.
- 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:

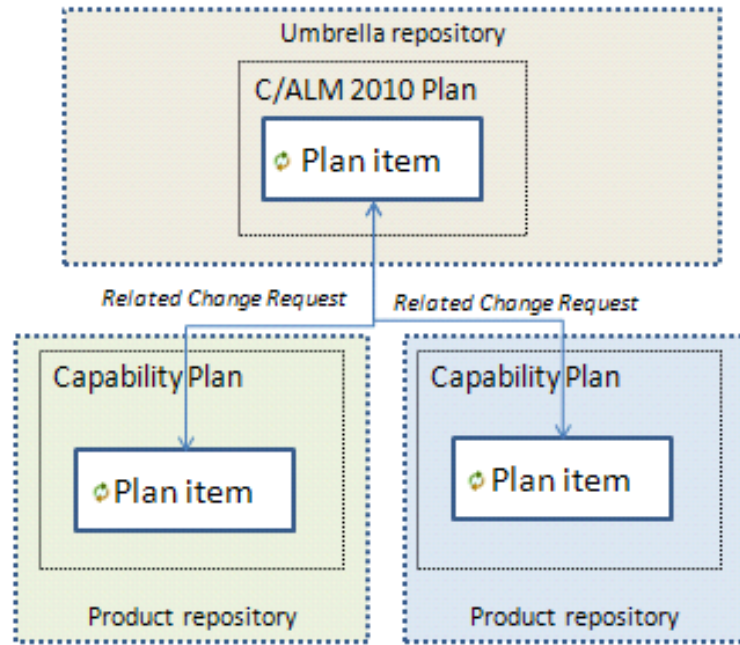
- RTC 3.0 M5 endgame

4/15/2010:

Let's b

Overview Planning Execution Done Criteria Links Approvals History

跨越产品及RTC服务器的计划制定



The screenshot shows a software interface with a 'Links' panel. The 'Related Change Request' section lists two items: '102355: [RTC-2010] Support task tracking across a project' and '29209: Support task tracking as a service - decouple RTC and RQM'. A detailed view of item 102355 is shown below, including its status, resolution, summary, and various details.

Status	Resolution	Summary
Committed		[RTC-2010] Support task tracking across a project

Details

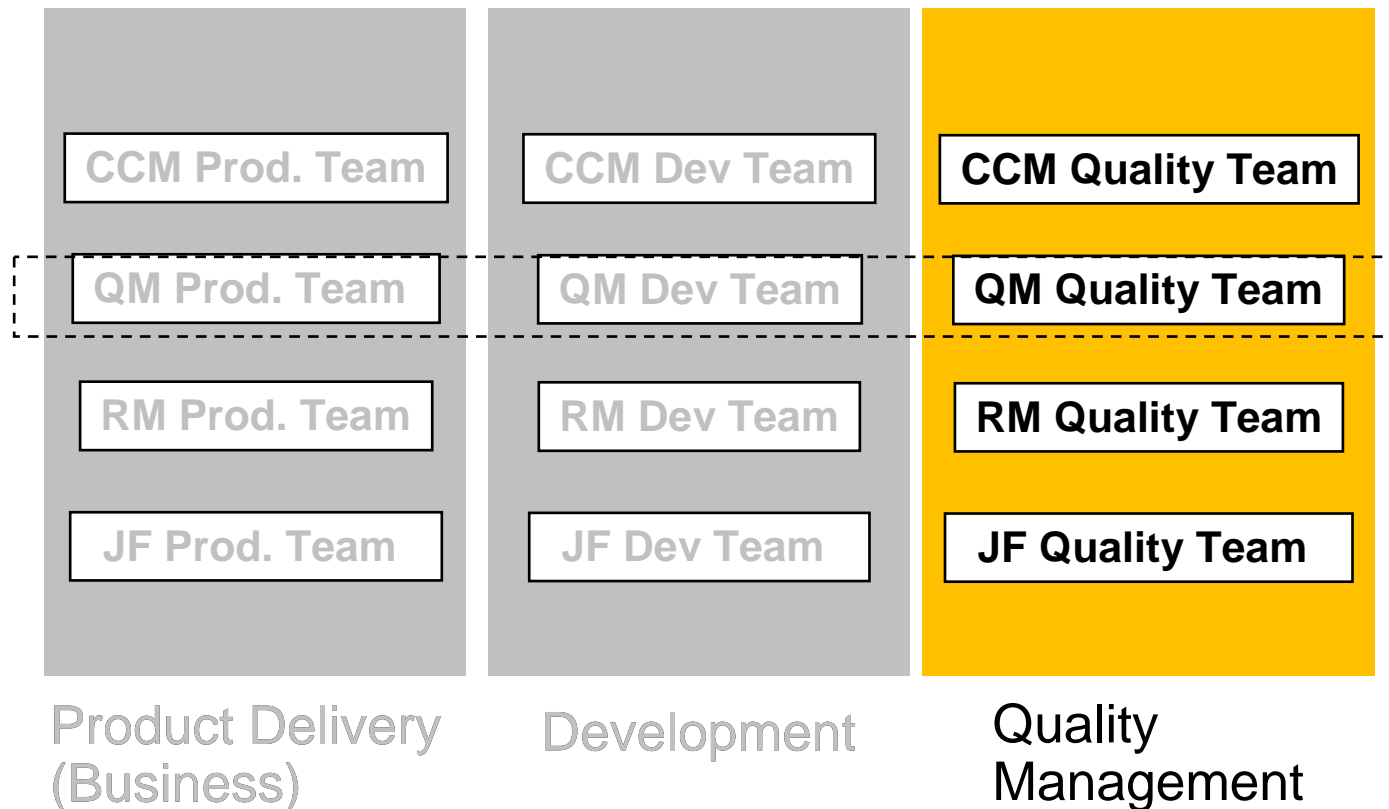
Type:	Plan Item	Theme:	Jazz Product Family
Story Points:	80	DCP Boca:	<input type="checkbox"/> Unassigned
Progress:	<div style="width: 100%; background-color: green;"></div>	Crossteam:	<input checked="" type="checkbox"/>
Team Area:	RTC Development / Rational Team Concert	Owned By:	Jean-Michel Lemieux
Filed Against:	PMC	Planned For:	3.0
Tags:	qm-needed	Dev Status:	<input type="checkbox"/> Not Started
Priority:	High		

- 链接到 OSLC变更请求, 本例中是远程RTC服务器上的一个工作项



深入了解测试过程

The Rational Workbench for CLM team



项目中的测试链接信息

Jazz Foundation

Project Relationships:

- related to Jazz Collaborative ALM
- related to JazzCS
- related to Rational Quality Manager
- related to Rational Requirements Composer
- related to Rational Team Concert
- related to Rational Team Concert for System z

tested by SVT_RRC

tested by SVT_RTC

Rational Team Concert

Project Relationships:

- related to Jazz Collaborative ALM
- related to Jazz Foundation
- related to JazzCS
- related to Rational Quality Manager
- related to Rational Requirements Composer

tested by SVT_RTC

Rational Requirements Composer

Project Relationships:

- related to Jazz Collaborative ALM
- related to Jazz Foundation
- related to JazzCS
- related to Rational Quality Manager
- related to Rational Team Concert

tested by SVT_RRC

Rational Quality Manager

Project Relationships:

- related to Jazz Collaborative ALM
- related to Jazz Foundation
- implements RQM
- implements RQM 3.0
- related to Rational Requirements Composer
- related to Rational Team Concert

tested by SVT_CC_CQ

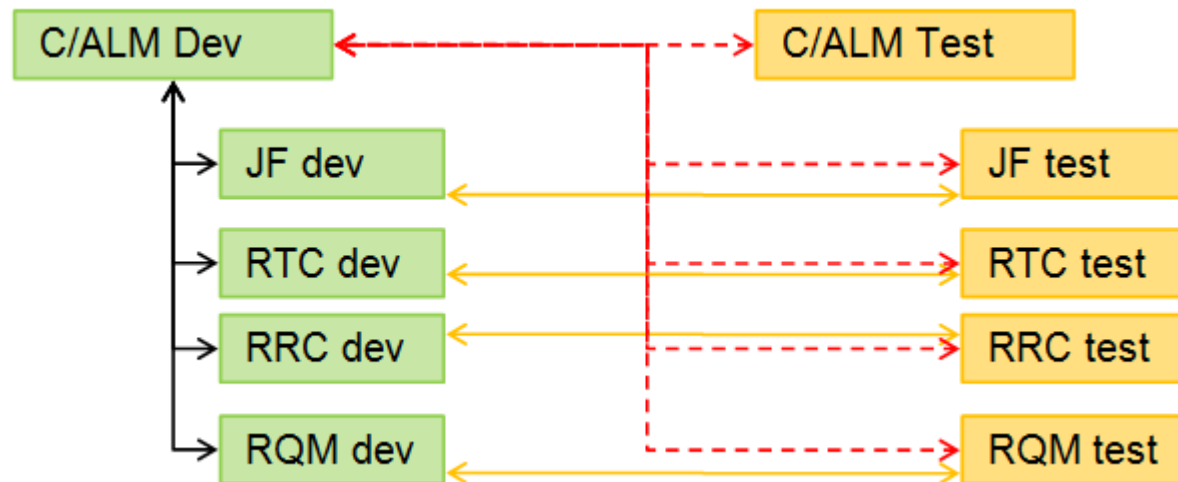
tested by SVT_CC_CQ

tested by SVT_RQM

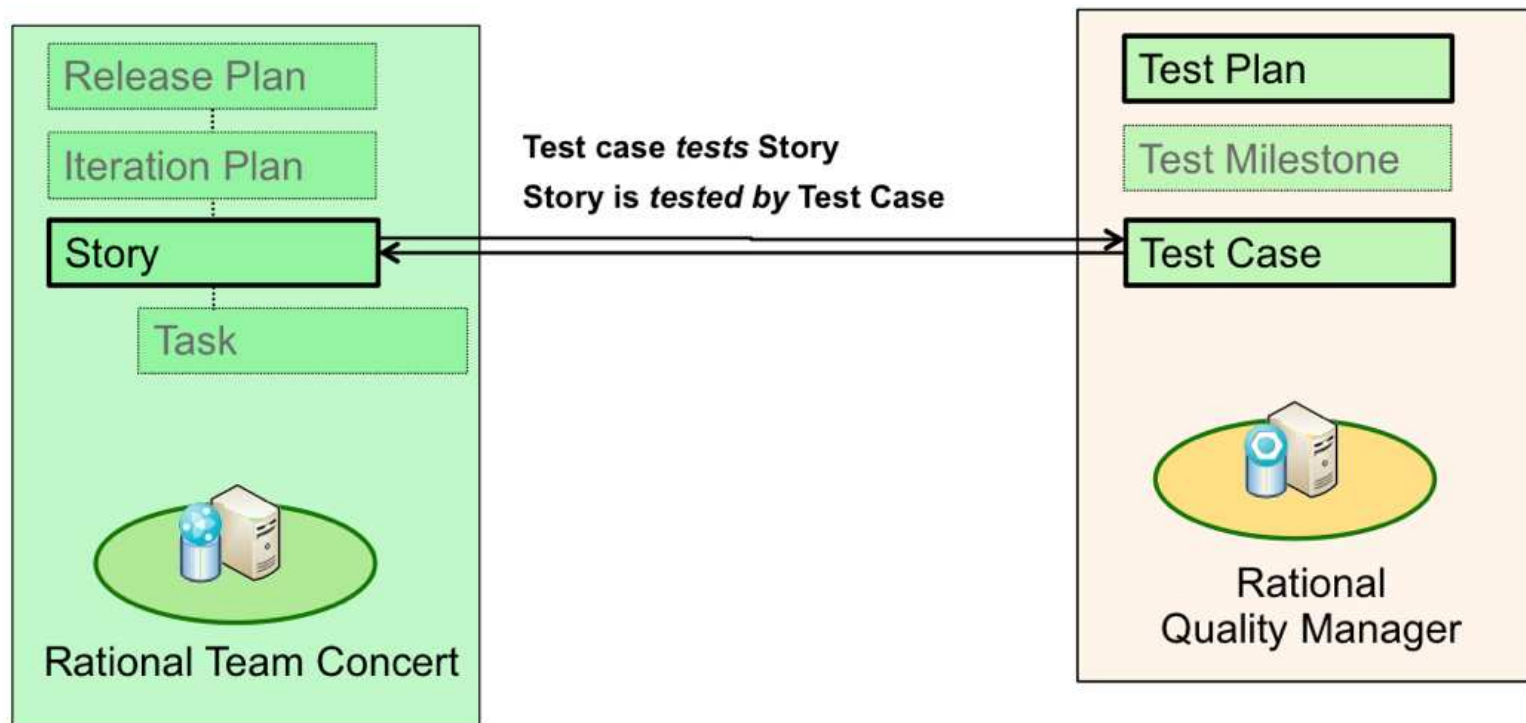
tested by SVT_RTC

Linked Development

Linked Test



测试覆盖率: 计划项与测试用例之间的关联



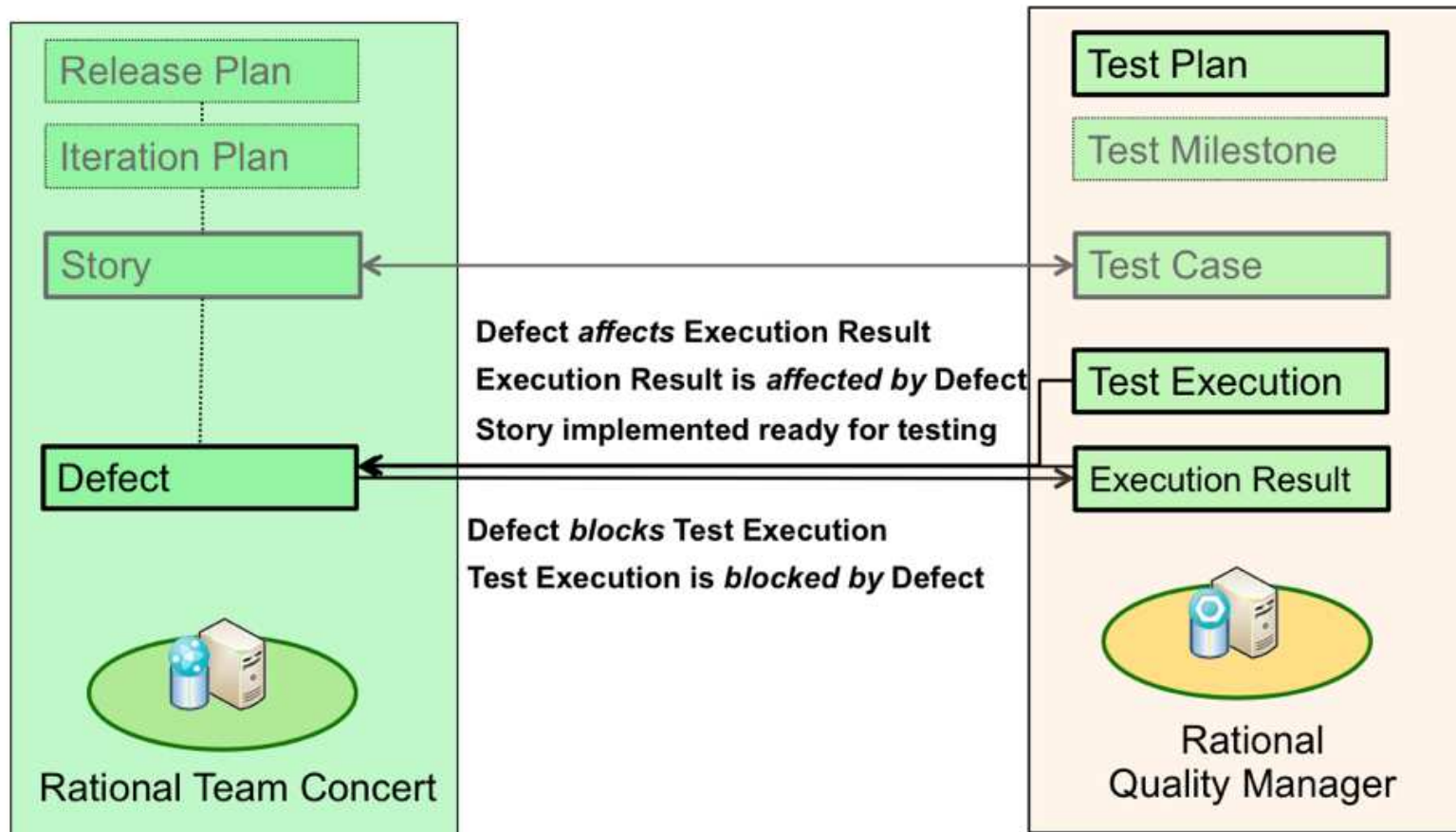
- 计划项类型根据流程模板来定义



跟踪关系的链接展现

The image shows two overlapping screenshots from IBM Rational software. The top screenshot is from Rational Team Concert (RTC), displaying 'Plan Item 93613' with a summary of '[RTC-2010] Adopt token licensing'. A red box highlights a refresh icon next to the title. The bottom screenshot is from Rational Quality Manager (RQM), showing a test case 'ETE_SVT_Token_Licensing_Story01'. A 'Table Of Contents' sidebar is visible, with 'Plan Items' highlighted in red. Below this, a 'Plan Items' section lists '93613: Adopt token licensing', also highlighted in red. A detailed view of this item shows its status as 'New' and its summary as '[RTC-2010] Adopt token licensing'. In the background of the RQM screenshot, the RTC 'Links' section is visible, with 'Tested By Test Case' and 'Test Case 19862: ETE_SVT_Token_Licensing_Story01' highlighted in red, indicating the link between the two systems.

开发工件与测试工件之间的关系



被打断的测试执行

Defect 108597

Summary: server exception error attempting to modify v3.0 RTC Plan when project is Implemente New

Overview **Links** Approvals History

Attachments

Add File: no file selected

ID	Name	Size	Created by	Date
34842	jazz.log	5 KB	Mark Gravina	Last Week
34841	server1_exception.log	1 KB	Mark Gravina	Last Week
34840	server1_bd20bd2_10.03.10_15.08.26.0454957766456884615265.txt	24 KB	Mark Gravina	Last

Links

Add: Related

Affects Test Execution

↳ Related Execution Results: ETE_RTC_Integ_Dev_Lead_04_Jazz Integrations

Blocks Test Execution

↳ Failing Test Case "ETE_RTC_Integ_Dev_Lead_04" when executing Test Execution Record "ETE_RTC_Integ_Dev_Lead_04_Jazz Integrations"

Mentions

↳ Mark Gravina

↳ Martin Aeschlimann

Mentioned By

↳ Defect-108786: BIRT initiated thread accesses TeamServiceContext

Shared Queries

- ▶ Predefined
- ▼ C/ALM Traceability Queries
 - Defects blocking tests
 - Plan items with failing tests
 - Plan items with no test executions
 - Plan items tested successfully (current iteration)

Mark Gravina
Mathieu Lapensee

Erich Gamma's Dashboard

Home Team PMC **New tab** +

Defects affecting tests (1)

- ▼ 104942: Test Defect
 - Related Execution Results:
 - ETE_RTC_Integ_Dev_Lead_04_Jazz Integrations



开发过程跟踪到测试发现的缺陷

The screenshot displays the Rational Team Concert Jazz Collaborative ALM interface. The top navigation bar includes 'Dashboards', 'Project Areas', 'Work Items', 'Plans', 'Builds', and 'Reports'. The user 'Erich Gamma' is logged in. The main dashboard is titled 'Jazz Collaborative ALM' and features several tabs: 'General', 'Plan Status', 'Plan Risk', 'Builds', 'Plan Themes', 'DCP Boca (Draft)', 'Plan Commitment', 'Jazz Foundation Plan', 'RTC Plan', 'RQM Plan', 'RRC Plan', 'Feature Teams', 'OSLC', 'Enhancements', 'Defects', and 'Defect Backlog'. The 'Defects' tab is active, showing a list of defect categories: 'SVT Defects', 'Topology', 'Alignment', 'Foundation Adoption', and 'Activity'. The 'SVT Defects' category is expanded, revealing several sub-dashboards:

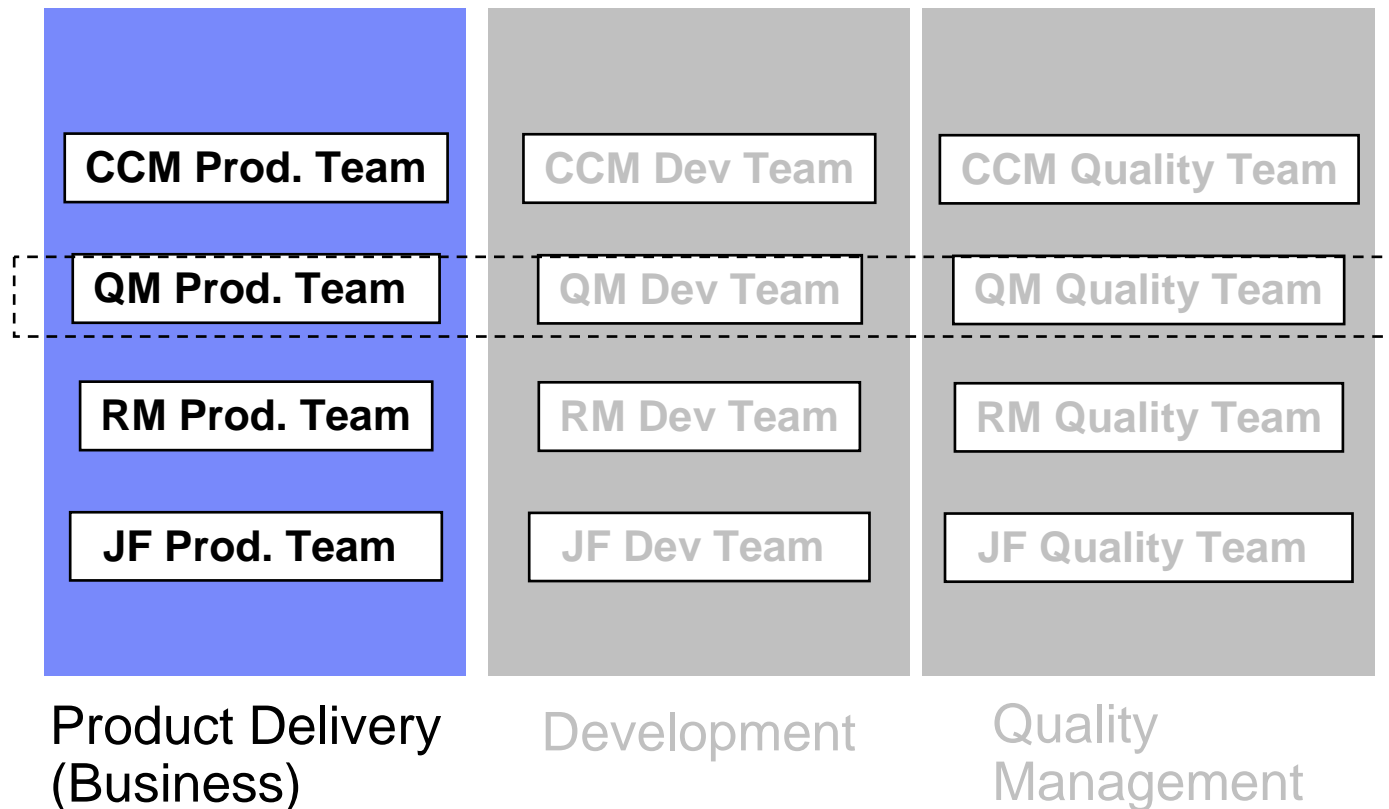
- About SVT**: C/ALM System Verification Test Effort. Description: The System Verification Test (SVT) team undertakes a comprehensive test effort that includes testing specific new features delivered in plan items, end-to-end scenarios, integrations, performance and reliability. This testing covers various supported platforms and products (e.g. databases, application servers, etc.).
- C/ALM SVT Defects**: All Other Defects. Description: All defects in this column should be fixed with priority given by severity.
- Critical Defects**: All defects in this column are critical or blocking for the release of the current product.
- Critical Open C/ALM SVT (3)**:
 - 111229: RDM: I am unable to map users and security groups in WAS 7.0 for rdm.war.
 - 96108: RQM viewlets in the RTC dashboard do not finish loading after QM server authentication occurs.
 - 69821: Test and document a workaround for multi-WAR install, was: Auth cookie collision when two Jazz instances running in the same machine
- Critical Open RTC SVT (1)**:
 - 108451: Cross Repository "Work Item" viewlets broken between RQM 2.0.1 and RTC M4
- Critical Open RQM SVT (0)**: No work items found.
- Critical Open RRC SVT (2)**:
 - 26137: https://server.portitrdm/root/services return "Error 403" in a C/ALM build deployment
 - 23445: IHS 7.0 proxy server configuration is not working for RRC 2.0.0.1
- Critical Open Jazz Foundation SVT (0)**: No work items found.
- All Other Open C/ALM SVT (3)**:
 - 112299: Start Menu items are not created for C/ALM/RTC 3.0
 - 112294: Uninstall of the CALM build does not clean up the directory structure
 - 96960: Recreating Data Tables from Scratch for Jazz Products from Build to Build is a Major CALM Testing Process Issue.
- All Other Open RTC SVT (10)**:
 - 105862: Internal Error occurs after a second Task was added under an Epic
 - 104120: could not delete backlink error
 - 111404: error in Create new Test Case from RTC Eclipse client
 - 111168: improve message and/or handling when attempting to modify an RQM test case that is locked
 - 111044: error creating work items for requirements RQM201-RTCv3.0
 - 105540: IE7 problem with Add Links when link list is long
 - 103282: RTC defect created from within RQM is missing tag field
 - 107838: Affects Test Execution backlink cannot be removed from RTC
 - 112055: In Dashboard "Select Server", RTC server is named: "Jazz Foundation Server"... should something like "RTC Server"
 - 107391: improve error message for Blocks Test Execution when RQM doesn't supply the dialog
- All Other Open RQM SVT (6)**:
 - 31981: RQM Test Case view should expose description field
 - 31974: RQM needs to supply a viewlet to expose their plans
 - 26876: JAZZ: 104655 - rich hover from RQM remote query viewlet do not display in front
 - 29585: RQM "Execution and Defects by Owner and TER Status Counts" viewlets does not display data within columns properly without clicking expand icon (+)
 - 20579: RQM "TER Listing" viewlet does not display "Last Modified" information

On the right side, there is a 'List of TAGS used on defect/enhancements for this dashboard' table:

TAGS	CATEGORY
svt, c_alm	All defects/enhancements

深入了解产品管理

The Rational Workbench for CLM team

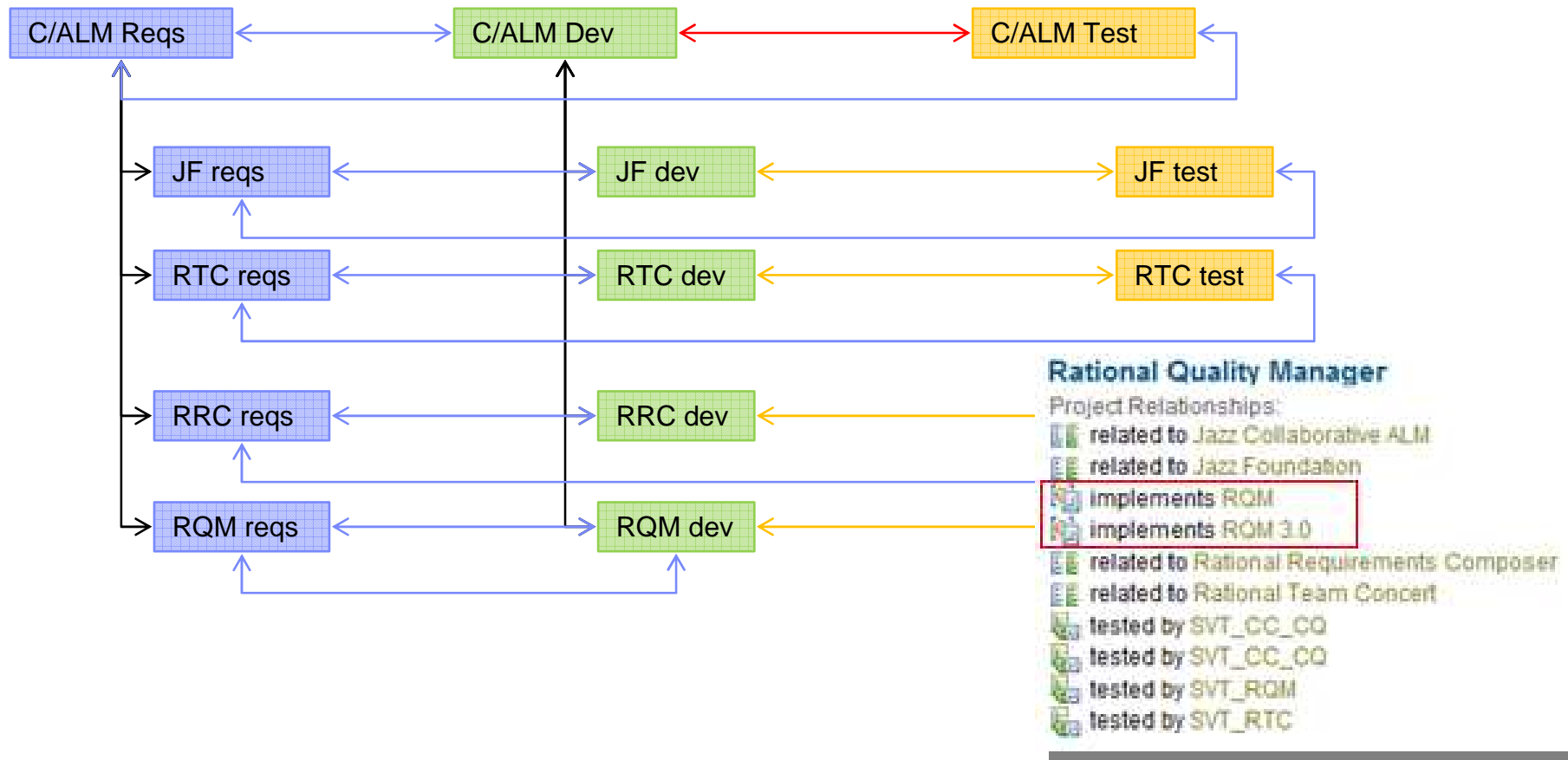


录入需求

关联到的需求

关联到的开发

关联到的测试



需求的精化

The screenshot displays the Rational Requirements Composer web application. The main content area shows a requirement document titled "Saved Searches" with sections for "References", "Design Requirements", and "Design Constraints".

References:

- Saving and Sharing Queries
 - Detailed information on the saving and sharing of states in the Project Dashboard. This is a very similar underlying design as Saved Searches and is good reference for details.

Design Requirements:

Saved Searches

Save and share search results in the Search View

Saved searches shall be defined as either Private or Shared.

- Private searches shall only be available to the user who created them.
 - Private searches will include automatically saved recent searches, although these may be stored in a different area on the server or in the workspace.
- Shared searches shall be available to all users in the project they are defined in.
 - Shared searches may be modified/managed by all users on a project.

Saving searches shall be available to users with any Jazz Role.

Saved searches shall be available in the search view.

- Shared searches will only be available when a project is specified.

Privately saved searches shall be accessible via the User Dashboard.

We should also make the user's recent searches in the current session available to them (whether saved or not). The last 10 or so. They can be shown in the perhaps also the user home page.

For a detailed discussion about this requirement, see this document: [Saved Searches](#).

Design Constraints:

- Must have a connection to the Jazz repository in order to save a query onto the server.
- If a new collection needs to be added to the server, we must account for migration of customers running older versions of the server.
- From Burak on Saving Queries (Also relates to Saved Searches)
 - We need to expose the functionality on the web. In the past, web had trouble because we directly talked to JRS. For 2.0, we want to use the same

The right-hand side of the interface shows a "Links" panel with the following content:

- ▼ Links (2 outgoing, 2 incoming)
- ▼ Showing 2 (of 2 Outgoing)
 - 13827: Saving searches in Comp... (from Saved Searches)
 - Saved Searches (from For a detailed discussion...)
- ▶ Showing 2 (of 2 Incoming)
 - RRC and RQM Integration Scenarios
 - Saved Searches



在版本计划阶段开始协同

The screenshot displays the 'Plan Item 99043' page in the Jazz Collaborative ALM system. The page is divided into several sections:

- Summary:** Support task tracking as a service
- Business Commitment:** A red box highlights this section, which includes:
 - DCP Boca: Base Content
 - Business Value: 10 - Show Stopper
- Affects Product:** A list of products and their relationships:
 - Jazz Foundation: Provides
 - RQM: Provides
 - RRC: Adopts
 - RTC: Provides
 - Build Forge: Not Affected
- Product Plan:** A list of products and their commitment levels:
 - Jazz Foundation: Committed
 - RQM: Committed
 - RRC: Proposed
 - RTC: Committed
 - Build Forge: Not Affected
- Planning Comments:** A list of comments and a dropdown menu. The dropdown menu is open, showing options: 10 - Show Stopper, 10 - Show Stopper, 7 - Priority, 4 - Tactical Need, 2 - Nice to have, and 0 - Not required. A red arrow points from the 'Business Value' dropdown to the '10 - Show Stopper' option in the menu.

按业务价值来查看版本计划

Owner: Jazz Collaborative ALM | Iteration: Collaborative ALM 2010 (11/10/09 - 9/10/10) | [35 Closed](#) | [111 Open](#) | 0/0 Complexity | 100%

Task Name	Priority	Content Type	Must	Status	Complexity
Define C/ALM Install	10 - Show Stopper	Base Content	Must	Implementing	Yellow 99282
Define the composite product development teams build and test	10 - Show Stopper	N/A	Must	Implementing	Green 110344
Define C/ALM 2010 topologies and enable transition of C/ALM products to those topologies	10 - Show Stopper	Base Content	Must	Exploring	Yellow 105103
Define and realize C/ALM 2009 to C/ALM 2010 migration strategy across products	7 - Priority	Base Content	Must	Exploring	Red 107921
Implement simpler uniform licensing model	10 - Show Stopper	Base Content	Must	Implementing	Yellow 108082
Common administration of a project	10 - Show Stopper	Base Content	Must	Implementing	Green 99039
Support common reporting	10 - Show Stopper	Base Content	Must	Implementing	Yellow 99050
Define C/ALM Reports	10 - Show Stopper	Base Content	Must	Defined	Green 104377
Support task tracking as a service	10 - Show Stopper	Base Content	Must	Defined	Yellow 99043
Support RQM local Defect enhancements in C/ALM setup	7 - Priority	Base Content	Must	Defined	Green 105892
Decouple built-in Requirements from RQM	7 - Priority	Base Content	Must	Defined	Green 107963
Self-host using C/ALM	7 - Priority	N/A	Must	Implementing	Yellow 99035
Unleash other products with C/ALM guidelines	7 - Priority	N/A	Must	Adopting	Green 99036
Open C/ALM dashboards to support other widget technologies	7 - Priority	Base Content	Must	Implementing	Green 99052
Improve and deepen traceability links & views, add support for change impact/suspect links	10 - Show Stopper	Proposed Base Content	Must	Exploring	Yellow 99047

View As: Backlog, **Business Value** (selected), Risk, Status, Work Breakdown, more

Actions: Re-sort

Exclude: Assigned Items, Empty Groups, Estimated Items, Execution Items, Items from Sub-Iterati..., Items from Sub-Teams, Planned Items, Resolved Items



综述

- 团队成员在不同的工具下协同工作，同时跨越部门与团队可以看到相互间共享信息
- 工具的可定制能力至关重要，它帮助我们持续地定制我们需要的流程
 - ▶ 对要紧的内容细化处理，而且让它方便跟踪

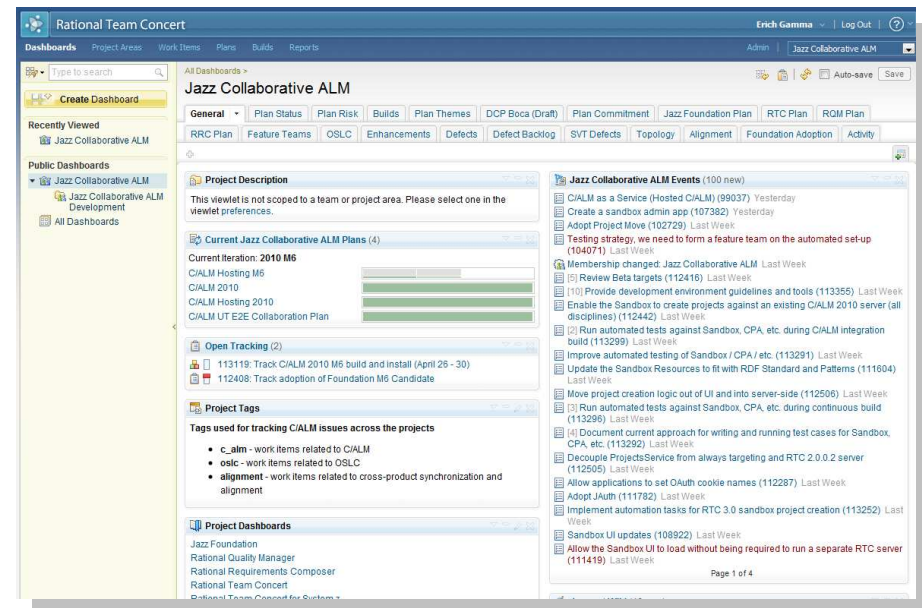
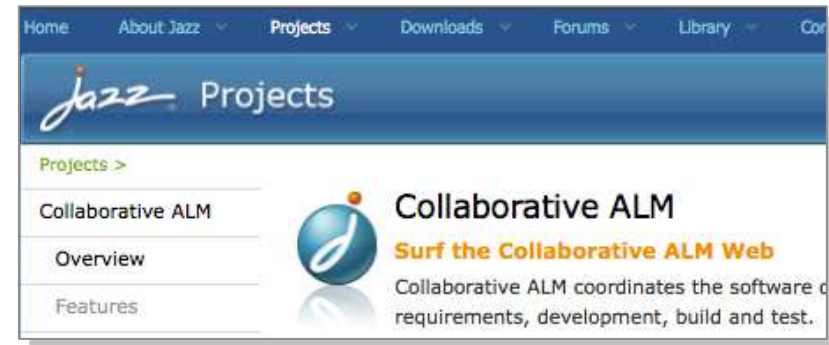
- 但是我们还没有完美地实现.....下一版本将有更大的改进



参考信息

■ Jazz.net

▶ <http://jazz.net/projects/collaborative-alm/>



Questions





www.ibm/software/rational

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