

# How the IBM® Rational® Team Concert Test Team implemented IBM® Rational® Quality Manager

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## Agenda

- Why ?
- Team distribution
- Deployment topology
- Planning our test
- Building our test cases
- Test execution
- Tracking progress and analysis
- Benefits
- The road ahead

## Why?

- No central repository of Test assets
- Manual updates needed for Test status
- Test management done in silo. No linkage to development
- No two test cases were similar, structure of tests was different based on who created it.
- Tracking platform coverage was difficult - multiple platform, multiple hardware
- At a given point, it was hard to find how much testing is completed
- Consolidating test results was painful

## Why continued..

- Since test cases were not linked to defects, test steps were duplicated to be available to the developers
- No traceability of test cases
- No reusable 'Keywords'
- Organization of tests was flat, so search was difficult
- To record test results and to be able to report statistics on status
- Testers 'knew' what to do
- To be able to help test Rational Quality manager product (we run with current development milestones)

# Team distribution

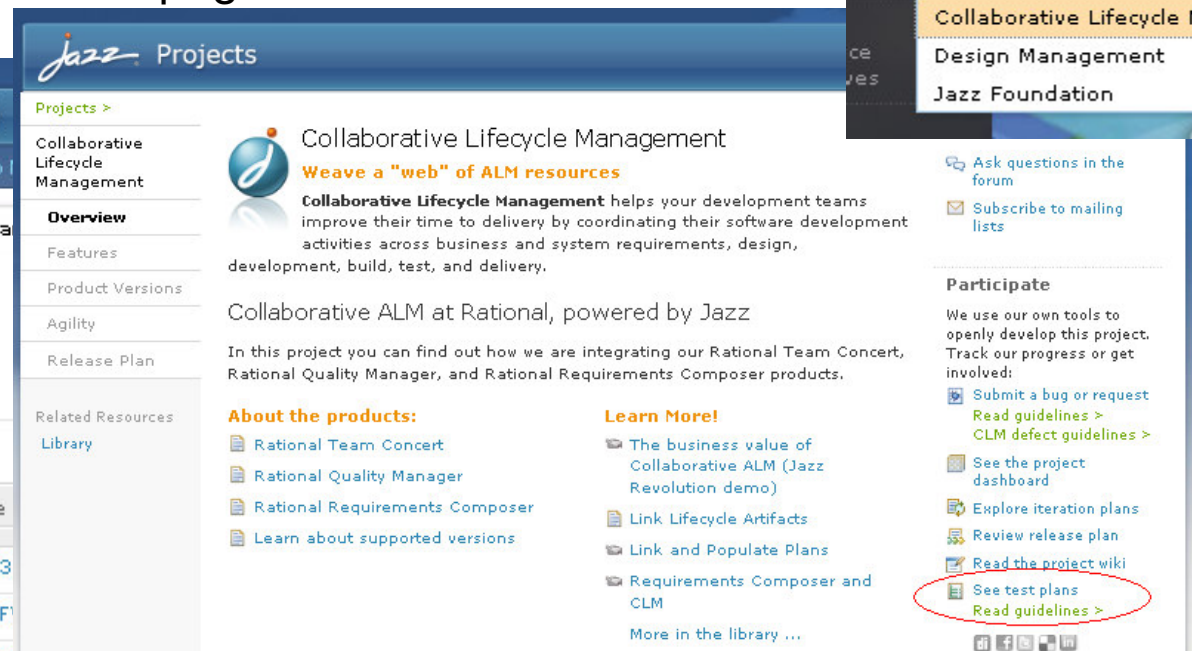
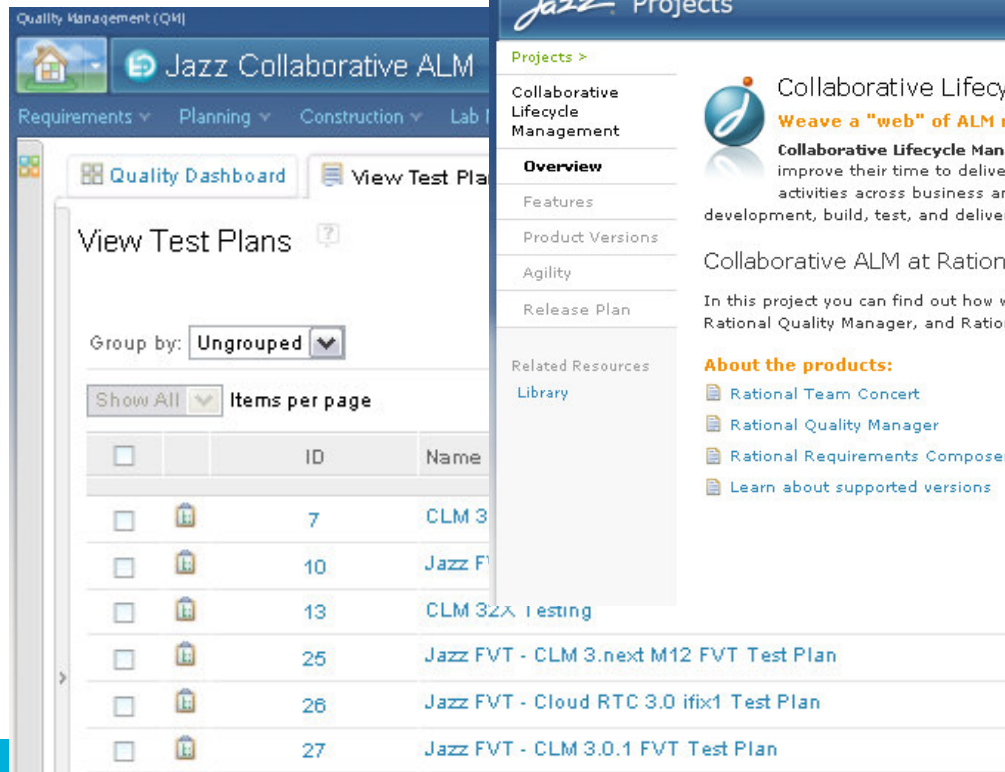
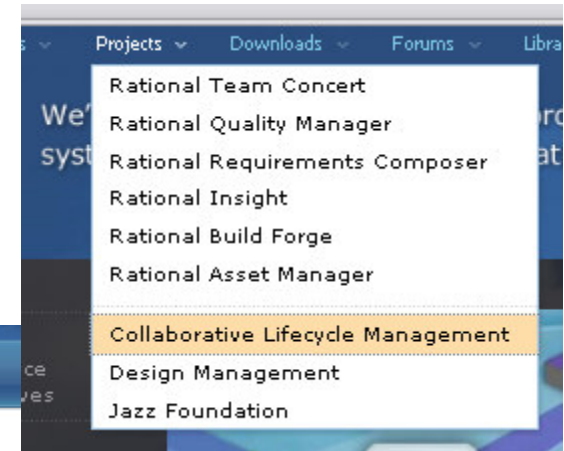


# How to reach to our test plans?

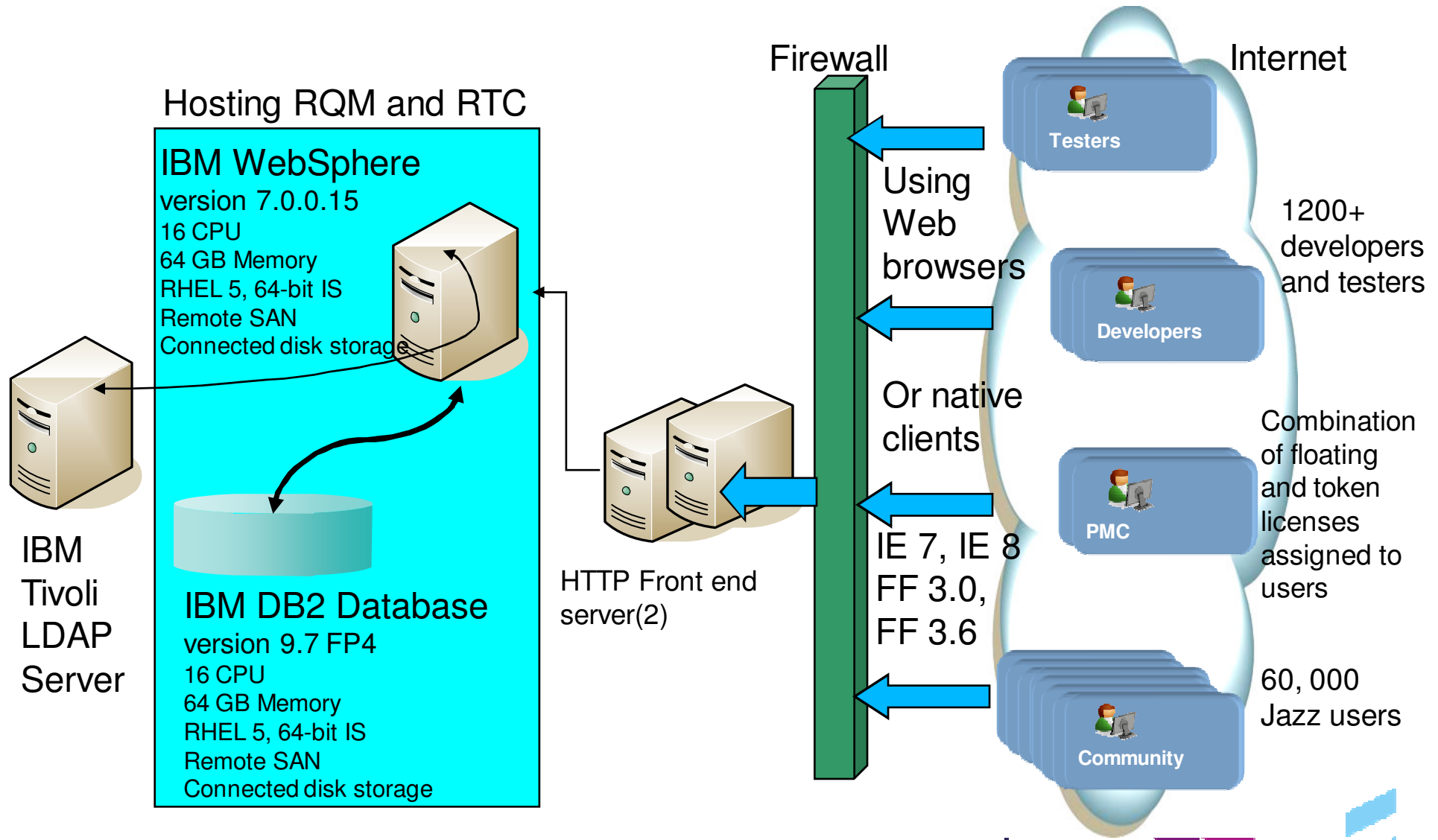
Start at <https://jazz.net>

Navigate to the **Collaborative Lifecycle Management Project**

Find **See Test plans** on the page.



# Deployment topology



## Licenses and data \*

- RQM 3.0.1 RC2 is running
- Every Jazz.net user has Read access to this project
- Restricted permissions for creation of assets
- Test team members have Quality Professional License
- For Jazz Collaborative ALM Team has \*
  - ~10 Test plans,
  - ~350 Test cases
  - ~150 Test scripts,
  - ~500 Test execution records,
  - ~10 Test suites
  - ~600 Test results
  - ~100 Tests running at a point

Version: 3.0.1

Build Information	Version	Build ID
Quality Management - Core Libraries	3.0.1 RC2	I20110429_1349
Jazz Foundation - Core Libraries	3.0.1 RC2	RJF-I20110428-1816

### About the Rational Jazz Team Server

Version: 3.0.1 RC2

Build Information	Version	Build ID
Jazz Foundation - Core Libraries	3.0.1 RC2	RJF-I20110428-1816

Client Access Licenses	
<input type="checkbox"/>	LPA Application-Internal 0 available - Internal
<input checked="" type="checkbox"/>	Rational Quality Manager - Quality Professional 99400 available - Unlocked
<input type="checkbox"/>	Rational Quality Manager - Quality Professional-Floating Unlocked
<input type="checkbox"/>	Rational Requirements Composer - Analyst-Floating Unlocked
<input type="checkbox"/>	Rational Requirements Composer - Contributor-Floating Unlocked
<input type="checkbox"/>	Rational Team Concert - Build System 40 available - Included-50
<input type="checkbox"/>	Rational Team Concert - ClearCase Synchronizer Included
<input type="checkbox"/>	Rational Team Concert - ClearQuest Synchronizer 0 available - 1 Included
<input type="checkbox"/>	Rational Team Concert - Contributor 79858 available - Unlocked
<input type="checkbox"/>	Rational Team Concert - Contributor-Floating Unlocked
<input type="checkbox"/>	Rational Team Concert - Contributor-Token Token Server Managed
<input type="checkbox"/>	Rational Team Concert - Developer 99995 available - Unlocked
<input type="checkbox"/>	Rational Team Concert - Developer for IBM Enterprise Platforms 99986 available - Unlocked
<input checked="" type="checkbox"/>	Rational Team Concert - Developer-Floating Unlocked
<input type="checkbox"/>	Rational Team Concert - Developer-Token Token Server Managed
<input type="checkbox"/>	Rational Team Concert - Stakeholder-Floating Unlocked
<input type="checkbox"/>	Rational Team Concert - Stakeholder-Token Token Server Managed
<input type="checkbox"/>	RM Application-Internal 1 available - Internal
<input type="checkbox"/>	RM Application-Internal 0 available - Internal





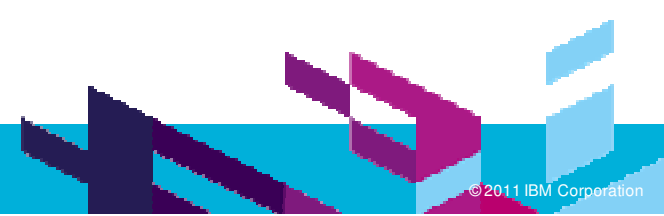
## Migration of data

- Mostly new test cases
- Some test cases referred from Wiki
- Some test cases were present in Rational Team Concert as work items
- Majorly manual test steps
- Steps mentioned in the test case design converted automatically into scripts

## Use of templates

- Customized template suiting our need
- Use of Manage Section to add customized sections
- We started small, only the sections we thought are a must to have

Default Plan Template	Our Plan Template	Our Case Template	Our Suite Template
<p>Overview </p> <p>Summary</p> <p>Business Objectives</p> <p>Test Objectives</p> <p>Formal Review</p> <p>Requirements</p> <p>Requirement Collection Links</p> <p>Development Plan Links</p> <p>Risk Assessment</p> <p>Test Schedules</p> <p>Test Estimation</p> <p>Test Environments</p> <p>Test Team</p> <p>Quality Objectives</p> <p>Entry Criteria</p> <p>Exit Criteria</p> <p>Test Suites</p> <p>Test Cases</p> <p>Resources</p> <p>Attachments</p> <p><input type="checkbox"/> Show All Sections</p>	<p>Overview </p> <p>Summary</p> <p>Test Schedules</p> <p>Test Strategy</p> <p>Development Plan Links</p> <p>Test Cases</p> <p>Test Environments</p> <p><input type="checkbox"/> Show All Sections</p>	<p>Overview </p> <p>Summary</p> <p>Test Case Design</p> <p>Test Scripts</p> <p>Development Items</p> <p>Test Case Execution Records</p> <p><input type="checkbox"/> Show All Sections</p>	<p>Overview </p> <p>Summary</p> <p>Test Suite Design</p> <p>Test Cases</p> <p>Test Suite Execution Records</p> <p>Attachments</p> <p><input type="checkbox"/> Show All Sections</p>



# Planning our tests

- Categories are created for asset organization and ease of search, helps in reporting on common areas
- Test cases are linked to the plan
- Schedules are defined for testing

**10 : Jazz FVT - CLM 3.0 FVT Test Plan** ?

Test Plan Overview | Snapshots | History

Originator: Jim Mickelson | Owner: Jim Mickelson | State: Draft

Description: CLM Function Verification Test (FVT) Test Plan

Discard Changes | Save

---

**Summary** ? Work Item: No Work Item

Overview of the test plan.

Categories

Product: CLM

Release: 3.0

---

**Test Schedules** ? Work Item: No Work Item

Define the test milestones for this Test Plan.

**Test Schedule Table:**

Type Filter Text

Show All Items per page Previous | 1 - 3 of 3 | Next

Name	Description	Planned Start Date	Planned End Date	Planned Duration	Points	Planned Defects	Actual Start Date	Actual End Date	Actual Duration
RC0	Release ...	2010-08-16	2010-09-17	33 d	0	0			0 d
RC1	Release ...	2010-09-20	2010-10-15	26 d	0	0			0 d
RC2	Release ...	2010-10-18	2010-10-29	12 d	0	0			0 d

Previous | 1 - 3 of 3 | Next

# Planning our tests

- Test plans are linked with Development plan

**Development Plan Links** ?

Linked development plans

Show All  Previous | 1 - 1 of 1 | Next

- Summary
- [C/ALM 2010](#)

Previous | 1 - 1 of 1 | Next

**C/ALM 2010** ✖

Owner: Jazz Collaborative ALM  
Iteration: CLM 2010 (11/10/09 - 9/10/10)

167/223 pts 100%

[Show More](#)

- Test environments are defined for platform coverage

**Test Environments** ? Work Item: No Work Item

Lists the various environments supported and tested by this test plan. You can add various platforms such as browsers, databases, operating systems and other items. This list is then used to generate test environments.

**Platform Coverage** Test Environment

Show All  Previous | 1 - 4 of 4 | Next

Type	Attributes
Browsers	Firefox 3.5, Firefox 3.6, Internet Explorer 7, Internet Explorer 8
Database	DB2 9.5, DB2 9.7, Derby 10.5, Oracle 10g, Oracle 11g, SQL Server 2005, SQL Server 2008, SQL Server 2008 R2
Application Server	Tomcat 5.5, WAS 6.1, WAS 7.0
Operating System	AIX 5.3, AIX 6.1, IBM i 6.1, IBM i 7.1, RHEL 5.0 AS/ES, RHEL 5.0 WS, SLED 10.0, SLES 10.0, Solaris 10, Ubun...

Previous | 1 - 4 of 4 | Next

## Building our test cases

- Every test case has functional categorization
- Weights describes the estimated time, including overhead
- Test cases are linked with test plans
- Manual test steps either in test case design or manual scripts are created

The screenshot displays the IBM Rational Quality Manager interface for a test case titled "31 : Upgrade RTC 2.0.0.2 iFix4 to RTC 3.0 (Basic Test Data)". The interface includes a left-hand navigation pane with options like Summary, Test Case Design, Test Scripts, Development Items, Test Case Execution Records, and Show All Sections. The main content area is divided into several sections:

- Summary:** Shows the test case title, originator (Jim Mickelson), owner (Jim Mickelson), and state (Draft). It includes a description: "Upgrade from RTC 2.0.0.2 iFix 4 to RTC 3.0, using basic test data". A "Work Item" field is set to "No Work Item".
- Categories:** A dropdown menu is set to "CLM 2010 Upgrade". A "Weight" field is set to "100 Points".
- Test Case Design:** Contains a "Test Case Design" section with a list of steps:
  - Upgrade Path: RTC 2.0.0.2 iFix 4 ==> RTC 3.0.
  - Server Configuration: Silo'd product, 1 App Server, 1 JTS
  - Data: Basic Test Data (from FVT test server)
 Below this is an "Upgrade Steps" section with a list of instructions:
  - Install RTC 2.0.0.2 iFix 4 server, see <https://jazz.net/downloads/rational-team-concert/releases/2.0.0.2iFix4>
  - Setup the RTC 2.x server with test data, rtc2\_x\_fm\_test.tar. For details, see Test Script "Setup source test data in RTC 2.x"
  - Install the current CLM 3.0 build, with CCM installed.
  - Perform the RTC upgrade steps, documented in the wiki: <https://jazz.net/wiki/bin/view/Main/CLM30MigrationSteps>
  - Verify that CCM, in the CLM 3.0 system, is functioning correctly
- Test Scripts:** A table listing associated test scripts. The table has columns for ID, Name, State, Script Type, Owner, and Modified.
 

ID	Name	State	Script Type	Owner	Modified
15	Upgrade RTC Server	Draft	Manual	Unassigned	Sep 11, 2010
21	Setup source test data in RTC 2.x	Draft	Manual	Jim Mickelson	Sep 11, 2010

On the right side of the interface, there are panels for "Parent Test Plan(s)" (Jazz FVT - CLM 3.0 FVT Test Plan), "Related Test Suite(s)", and "Related Sites" (IBM Rational, IBM Rational Quality Mgmt).

# Building our test cases

- Test cases have linkage to Development plan items

## Test Case Execution Records

Allows you to associate, create and generate execution records for an individual test case. Execution results from a test case execution. Detailed results are in the log files.

Group by: Test Milestone

25 Items per page

ID	Name	Test Environment	Test Script	Status	Date	Pass/Fail
<b>M13 (1 - 2 of 2)</b>						
229	CLM Smoke Test_CLM BV...	CLM BVT - Linux_Firefox 3.6_Derb...	Smoke Test Script - ...	Success	Feb 21, 2011	100
231	CLM Smoke Test_CLM-BV...	CLM-BVT - Linux_Internet Explor...	Smoke Test Script - ...	Failure	Feb 10, 2011	100
<b>M13D1 (1 - 1 of 1)</b>						
630	CLM Smoke/BVT Test_CL...	CLM BVT - Linux_DB2_FF3.6	Smoke Test Script - ...	Success	Apr 14, 2011	100
<b>M14 (1 - 5 of 5)</b>						
460	CLM Smoke/BVT Test_CL...	CLM BVT - Linux on z/OZ	Smoke Test Script - ...	Failure	Mar 31, 2011	100
508	CLM Smoke/BVT Test	Unassigned	Smoke Test Script - ...	Success	Mar 26, 2011	100
507	CLM Smoke/BVT Test_CL...	CLM BVT - Windows_Derby_FF3.6	Smoke Test Script - ...	Success	Mar 25, 2011	100
491	CLM Smoke/BVT Test CL	CLM BVT - Linux_DB2_FF3.6	Smoke Test Script - ...	Success	Mar 24, 2011	100

**20 : CLM Smoke/BVT Test**  
 Test Case Overview | Snapshots | History  
 Originator: Erich Gamma | Owner: Erich Gamma | State: Draft  
 Description: A basic CLM Smoke Test

**Development Items**  
 Change management items that are aligned with the testing

- 139485: Track CLM 2011 M12 (November 8 - January 14)

**139485: Track CLM 2011 M12 (November 8 - January 14)**  
 Status: Green  
 Details:  
 Creation Date: November 9, 2010 3:27 AM | Resolution Date: January 17, 2011 3:44 PM  
 Created By: Adrian Cho | Resolved By: Adrian Cho  
 Filed Against: Release Engineering

**Quick Information**  
 Subscribers (139): AA, AC, AS, AW, AH, AB, AR, ALdV, ...  
 Children (1): 150702  
 Related (2): 149032, 150002  
 Mentions (185)  
 Mentioned By (9)  
 CLM Test Script Tested: Approved (1 of 1)  
 Promote calm.jcb CALM-I20101112-2123 to RQM 3.0 M12D1 (RTC 3.0 GA): Approved (3 of 3)  
 Promote calm.jcb CALM-I20110114-2233 to CLM 2011 M12: Approved (7 of 7)

**Description**  
 Project : JTS, CCM, QM, RM + product license keys for Rational Team Concert, Rational Quality Manager, Rational Requirements Composer  
 Current Milestone : M12 November 8 - January 14  
 RQM 3.0 M12D1 <=> RTC 3.0 GA (done)  
 RQM 3.0 M12  
 Build Schedule: Daily M-F beginning with 8 PM ET Foundation build. Additional builds on demand.  
 Build Definition: calm.jcb  
 Stream: C/ALM  
 IM Repository URL (latest offering from calm.jcb build): http://jazzweb.beaverton.ibm.com/calm/main//install/latest/repository.config  
 Build Deploy:  
 https://fbslnxvh02.ottawa.ibm.com:9443/jts  
 https://fbslnxvh02.ottawa.ibm.com:9443/ccm  
 https://fbslnxvh02.ottawa.ibm.com:9443/rm/web/console  
 Show More

- Test case execution records have environment, test plan and milestones linked

# Using test suites for grouping

- Categorize on function and phase when to run the suite

The screenshot shows the configuration page for a test suite. The 'Summary' section is highlighted, showing the following configuration:

- Category: CLM LPA
- Function: Unassigned
- Test Phase: Function Verification Test
- Theme: Unassigned
- Weight: 1

The 'Test Cases' section shows a list of test cases grouped by 'Test Case'. The execution mode is set to 'Run this suite in parallel'.

Execution Order	Test Environment	State	Test Script	Modified
▶	CLM LPA (Lifecycle Project Admin) - Umbrella Test Case	(1 items)		
▶	LPA - Add members to LPA project	(1 items)		
▶	LPA - Create project - Basic Template	(1 items)		
▶	LPA - Create project - Development Template	(1 items)		
▶	LPA - Create project - Development with Integrated Test Management Template	(1 - 1 of 1)		
4	Unassigned	Draft		Feb 22...
▶	LPA - Create project - Quality Professional - Independent Testers Template	(1 - 1 of 1)		

- Some suites run in parallel and some in sequential based on the scenario

## Searching assets

- New Hierarchical category explorer helps in finding assets quickly
- We use Grouping, Filtering to narrow down search
- Create Queries and save them, reuse every time
- Quick Search helps us find any artifact by name

**Filter By Categories**

- Product
  - CCM
  - CLM
  - QM
  - RM
- Release
  - 3.0
  - 3.0 RC0
  - 3.0 RC1
  - 3.0 RC2
  - 3.0 RC3
  - 3.0.1

**View Test Plans**  
Filter By Categories: Release > 3.0.1

Group by: Product

ID	Name	State	Owner	Release	Modified
CLM (1 - 2 of 2)					
28	CLM 3.0 Upgrade Test Plan for Enterpri...	Draft	Unassigned	3.0.1	Mar 4, 2...
27	Jazz FVT - CLM 3.0.1 FVT Test Plan	Draft	Jim Mickelson	3.0.1	May 4, ...
QM (1 - 1 of 1)					
32	RQM 3.0.1 Reporting FVT	Draft	Peter Haumer	3.0.1	May 2, ...

Showing 1-3 of 3 items

Group by: Ungrouped

ID	Name	State	Owner	Product	Release	Modified
		Approved	Adrian Cho, Jir...	CLM	3.0.1	Any

Run

**Quick Search**  
You are searching QM Resources:

Select All Deselect All

- Test Plan
- Test Case
- Test Script
- Test Data
- Keyword
- Test Suite
- Test Case Execution Record
- Test Suite Execution Record
- Test Case Execution Result
- Test Suite Execution Result
- External Requirement
- Build Definition
- Build Record
- Request
- Test Cell
- Test Environment
- Lab Resource Group
- Execution Schedule
- Lab Resource

**Filter By Saved Queries**

- My Queries
- Shared Queries



## History of the changes

- For each test plan, test case, test suite, test script the history can be seen in the user interface
- Print option available to print the History or artifact details

10 : Jazz FVT - CLM 3.0 FVT Test Plan ?  
[Test Plan Overview](#) | [Snapshots](#) | [History](#)

Items per page: 10 Previous | Page 1 of 5 | Next

Display Items from:  
 Unassigned ▼

Modified date:	Jan 13, 2011
Modified by:	Jim Mickelson
Name	CLM Function Verification Test (FVT) → Jazz FVT - CLM 3.0 FVT Test Plan
Modified date:	Sep 15, 2010
Modified by:	Jim Mickelson
Added	Section 'RQM-KEY-TP-TEST-STRATEGY-TITLE'
Modified date:	Sep 14, 2010
Modified by:	Sreedhar Rella
Added	Test Case 73: BuildSystem CAL should not give RTC Developer access
Modified date:	Sep 14, 2010
Modified by:	Sreedhar Rella
Added	Test Case 72: CC Synchronizer should not give RTC Developer access
Modified date:	Sep 14, 2010
Modified by:	Sreedhar Rella
Added	Test Case 71: Derby limit for Developer CAL
Modified date:	Sep 14, 2010
Modified by:	Sreedhar Rella
Added	Test Case 70: Automatic License assignment
Modified date:	Sep 14, 2010
Modified by:	Sreedhar Rella
Added	Test Case 69: Validate Trial Expire CAL behavior
Modified date:	Sep 14, 2010
Modified by:	Sreedhar Rella
Added	Test Case 68: 2.x to 3.0 license mapping Scenario-1
Modified date:	Sep 14, 2010
Modified by:	Sreedhar Rella
Added	Test Case 67: Install and validate the RTC Stakeholder Election CAL

## Test execution records

- Testers start testing from here
- Group by Owner and then find their tests

View Test Case Execution Records

Group by: Owner

10 Items per page Previous | 1, 2, 3, 4, 5, 6, 7 | Next

<input type="checkbox"/>	ID	Test Case	Test Environment	Test Milestone	Test Script	Blocking Status	Last Result	Last Modified	Weight
<b>Adrian Schroeter</b> (1 - 2 of 2)									
<input type="checkbox"/>	188	CLM Smoke/BVT Test	CLM Dev Test - Tomcat 5...	Unassign...	Smoke Test Script - With Report			Jan 14, 2011	100
<input type="checkbox"/>	125	CLM Smoke/BVT Test	CLM Dev Test - Tomcat 5...	Unassign...	Smoke Test Script - With Report			Feb 5, 2011	100
<b>Erich Gamma</b> (1 - 6 of 6)									
<input type="checkbox"/>	230	CLM Smoke/BVT Test	Unassigned	Unassign...	Smoke Test Script - With Report			Feb 11, 2011	100
<input type="checkbox"/>	44	CLM Smoke Test Eclipse	Firefox	Unassign...	None			Sep 3, 2010	100
<input type="checkbox"/>	52	CLM Smoke Test no SSO	Firefox	Unassign...	None			Sep 6, 2010	100
<input type="checkbox"/>	228	CLM Smoke/BVT Test	Unassigned	Temp	Smoke Test Script - With Report			Apr 29, 2011	100
<input type="checkbox"/>	43	CLM Smoke/BVT Test	Internet Explorer	Unassign...	Smoke Test Script - With Report			Sep 24, 2010	100
<input type="checkbox"/>	42	CLM Smoke/BVT Test	Firefox	Unassign...	Smoke Test Script - With Report			Feb 11, 2011	100
<b>Gail Burati</b> (1 - 1 of 1)									
<input type="checkbox"/>	87	CLM integration - IBM i platform	iplatTomcat 5.5_Firefox 3...	Unassign...	Smoke Test Script - With Report			Sep 10, 2010	100
<b>Jean-Michel Lemieux</b> (1 - 1 of 1)									
<input type="checkbox"/>	112	CLM Smoke test distributed	Firefox	Unassign...	None			Sep 14, 2010	100

Showing 1-10 of 61 items Previous | 1, 2, 3, 4, 5, 6, 7 | Next

## Executing a test

- Testers run manual tests following the scenario
- Some testers run tests and then later update the results
- They capture runtime results and file defects corresponding to steps which failed.
- Execution console helps us find which tests are being run right now

CLM Smoke/BVT Test Execution  
Manual Script

Stop Cancel Run Close and show results

**Test Environment**

Test Script Name	Smoke Test Script - With Reporting Enabled
Browsers	Firefox 3.6
Database	DB2 9.7
Application Server	Tomcat 5.5
Operating System	Windows 7

63%

**Script Steps**

72

- Open the defect from the Defects section (the defect should open in place)
- verify that links to the test case, requirement and plan item/story are in place and that there are rich hovers (see <https://jazz.net/wiki/pub/Main/CLMTesting/defect-links.png>)

73

- Navigate from the defect there are established links in the Story as well

Execution Console

Group by: Ungrouped

Type Filter Text

10 Items per page Previous | 1 - 10 of 83 | Next

Type	Name	Test Environment	Test Script	Host Name	Status	Progress	Modified
	Clean IM install ...	LinuxTomcat 5.5_D...	Install and Setup CLM	Local Computer	🟢	80%	Sep 18, 2010
	CLM Smoke/BV...	CLM Dev Test - Tom...	Smoke Test Script -...	Local Computer	🟢	63%	Jan 16, 2011
	CLM Smoke/BV...	CLM Dev Test - Tom...	Smoke Test Script -...	Local Computer	🟢	35%	Jan 14, 2011
	CLM Smoke/BV...	CLM Dev Test - Tom...	Smoke Test Script -...	Local Computer	🟢	25%	Jan 17, 2011
	CLM_RRDI_QM...	CLM Dev Test - Tom...	Manual script for CL...	Local Computer	🟢	22%	Feb 23, 2011

# Test history and Defect linkage

Individual Tests execution history helps identifying what went wrong and when

Quality Dashboard
Previous Results

### Previous Results

Test Case: CLM Smoke/BVT Test  
 Test Case Execution Record: CLM Smoke Test\_CLM Dev Test - Tomcat 5.5\_Derby 10.5\_Internet Explorer 7\_Windows XP  
 Test Plan: CLM 3.0 Dev Test  
 Test Milestone:

#### Test Environment

CLM Dev Test - Tomcat 5.5\_Derby 10.5\_Internet Explorer 7\_Windows XP

Browsers	Internet Explorer 7
Database	Derby 10.5
Application Server	Tomcat 5.5
Operating System	Windows XP

#### Previous Results Details

Group by: Ungrouped Type Filter Text

Show All Items per page Previous | 1 - 4 of 4 | Next

Start Date	Start Time	Total Run Time	Script Name	Script Type	Owner	Actual Result	Execution Result
Jan 14, 2011	1:09 AM	N/A	Smoke Test Script - With Reporting Ena...	Manual	Patrick Streule	In Progress	
Jan 11, 2011	4:33 PM	N/A	Smoke Test Script - With Reporting Ena...	Manual	Erich Gamma	In Progress	
Jan 10, 2011	12:18 PM	N/A	Smoke Test Script - With Reporting Ena...	Manual	Erich Gamma	Failed	
Oct 20, 2010	7:03 PM	N/A	Smoke Test Script - With Reporting Ena...	Manual	Adrian Schro...	In Progress	

Previous | 1 - 4 of 4 | Next

#### Defect Summary

- 127110: IE 7 does not allow to create projects based on the templates via the \cpa\web link
- 137459: IE7 create user page requests too much space
- 137470: IE7 error when logging out
- 149089: Cannot link a work item to a Test Case: this service doesn't provide any pickers"
- 43458: My Tasks Viewlet "CRRTC0122E: Unknown attribute: "
- 149690: Error when creating stories from requirements
- 149691: Error when linking to a development plan from a requirements collection: "The link from the other server could not be created"
- 149267: Cannot create CLM links to development plans

#### Related Sites

- [IBM Rational](#)
- [IBM Rational Quality Mgmt](#)

# Test history and Defect linkage

Testers don't have to leave their test environments to see defect progress, just hover 😊

**Defect 127110**  
Summary: \* IE 7 does not allow to create projects based on the templates via the \cpa\web link

**Attachments**  
Add File:   
51430 no\_oauth.png

**Links**  
Add: Related  
Affects Test Result  
148: CLM Smoke Test\_CLM  
148: CLM Smoke Test\_CLM  
Related Test Case  
20: CLM Smoke/BVT Test  
20: CLM Smoke/BVT Test  
Change Sets  
Changes in Lifecycle Project Admin - <No Comment> - Matthew Jarvis - Nov 5, 2010 10:37 AM  
Related Test Plan  
7: CLM 3.0 Dev Test  
7: CLM 3.0 Dev Test

**Previous Results**  
Test Case: CLM Smoke/BVT Test  
Test Case Execution Record: CLM Smoke Test\_CLM  
Test Plan: CLM 3.0 Dev Test  
Test Milestone:

**Test Environment**  
CLM Dev Test - Tomcat 5.5\_Derby 10.5\_Internet Explorer  
Browsers: Internet Explorer 7  
Database: Derby 10.5  
Application Server: Tomcat 5.5  
Operating System: Windows XP

**Previous Results Details**  
Group by: Ungrouped  
Show All Items per page

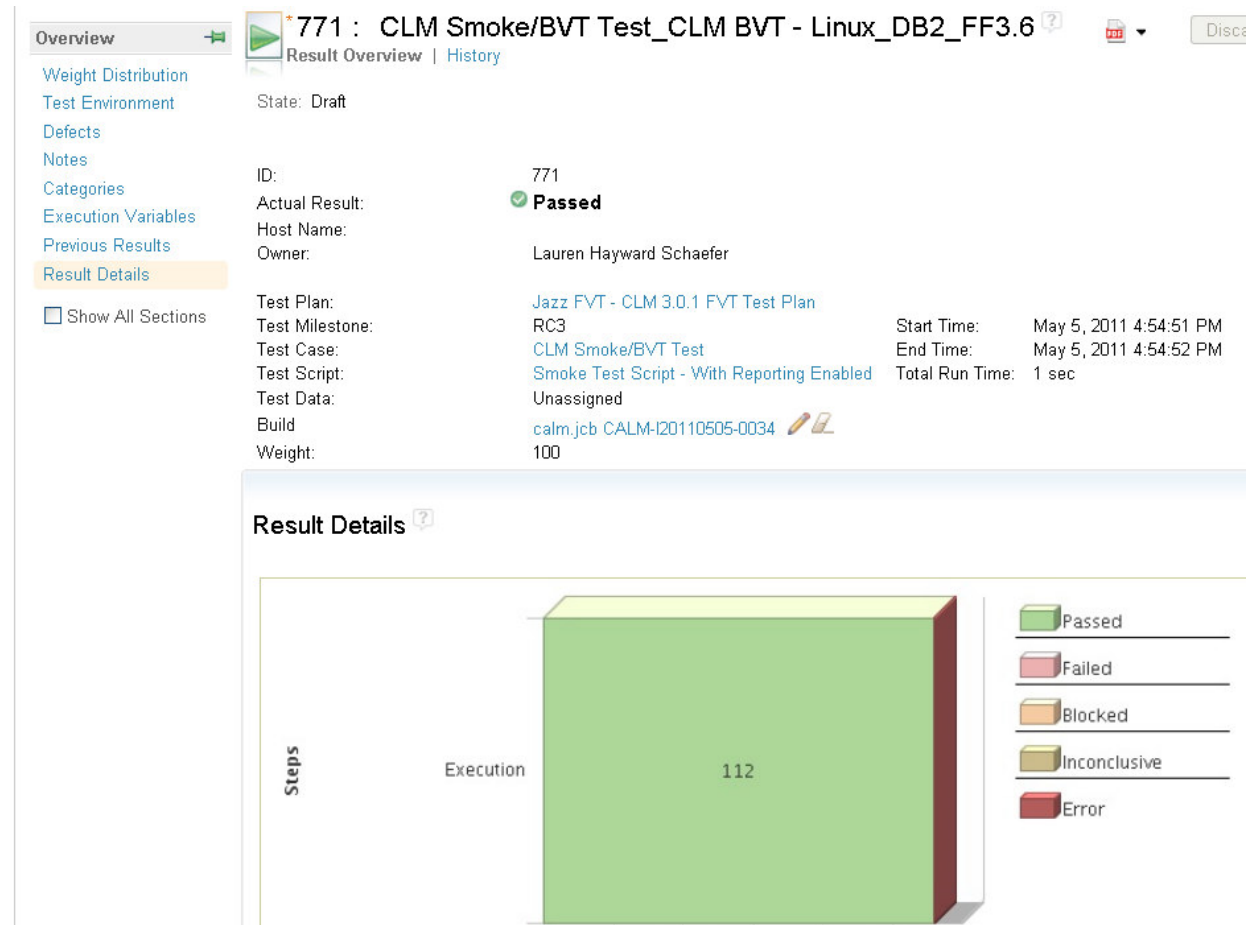
Start Date	Start Time	Total Run Time
Jan 14, 2011	1:09 AM	N/A
Jan 11, 2011	4:33 PM	N/A
Jan 10, 2011	12:18 PM	N/A
Oct 20, 2010	7:03 PM	N/A

**Defect Summary**  
127110: IE 7 does not allow to create projects based on the templates via the \cpa\web link  
Status: Resolved  
Resolution: Fixed  
Details: Defect, Severity: Major  
Found In: 3.0 RC3 Development  
How Found: Managed Beta  
OS: Windows  
Client: Internet Explorer 7  
Creation Date: August 19, 2010 1:12 PM  
Created By: Kenneth Delatorre  
Team Area: Lifecycle Project Administration / Jazz Foundation  
Filed Against: Lifecycle Project Administration  
Quick Information: Subscribers (9), Affects Test (2), Change Sets (1), Attachments (1), Mentions (6), Included in Builds (1)  
Description: IE 7 does not allow to create projects based on the templates via the \cpa\web link for our setup. If you click on create nothing happens. The workaround is to use firefox 3.6 to create the project.  
Discussion: [Comment]  
Related Sites: IBM Rational, IBM Rational Quality Mgmt

Developers don't have to leave development environment to see test case details, just hover 😊

## Execution result at a glance

- Results show linkages to test plan and test case helps in tracking
- Linkage to test milestone and test plan helps in reporting
- Results are linked to build to track on which build the test was run.
- Any defect found during this test is linked to show complete trace

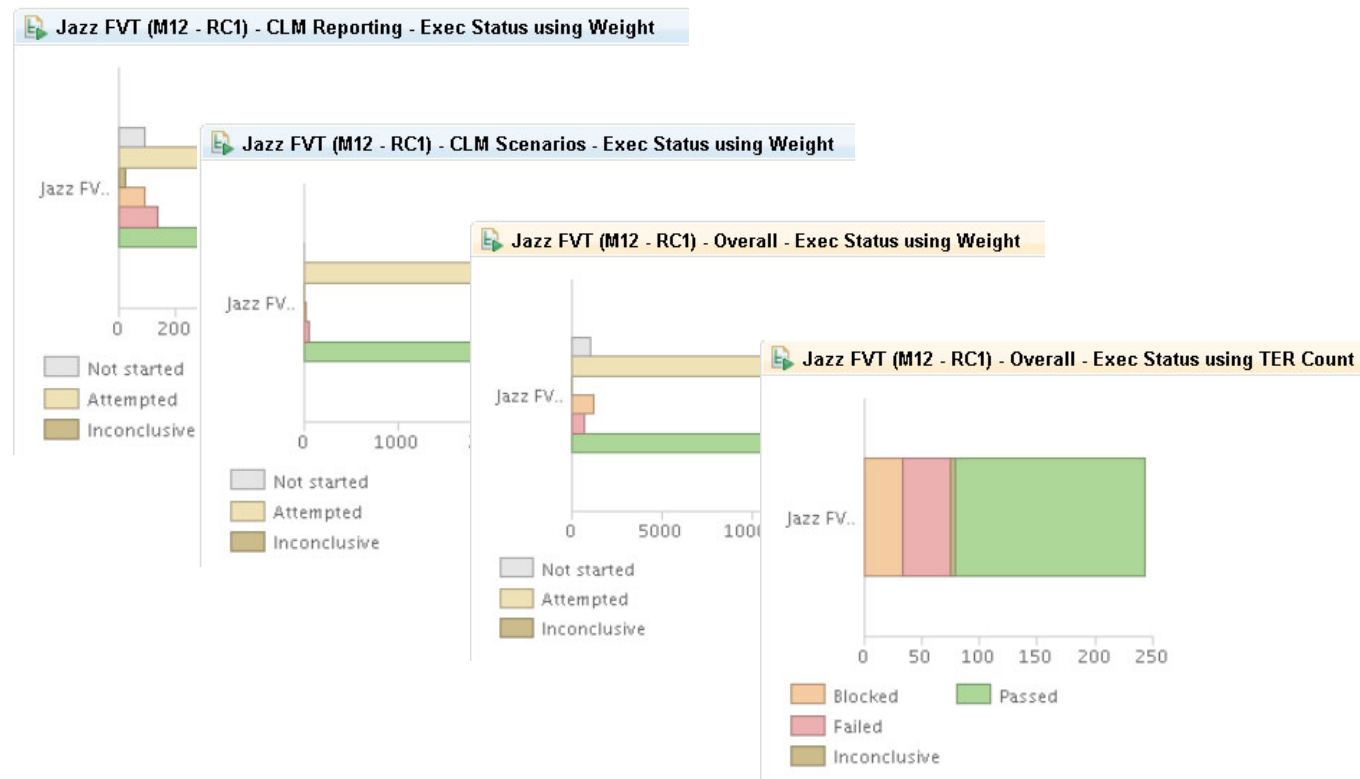




# Tracking progress and analysis

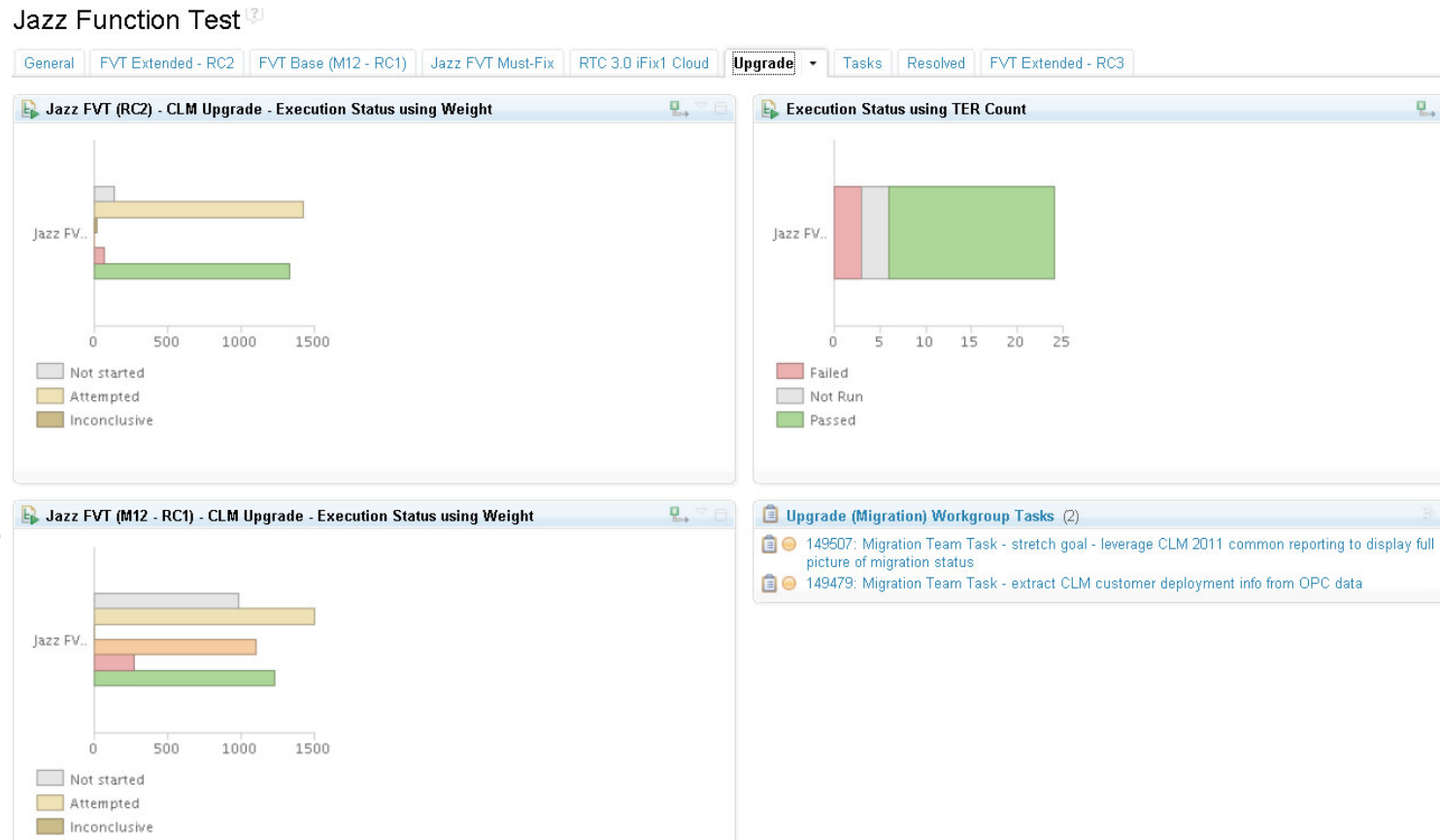
The screenshot shows the 'Jazz Collaborative ALM' interface. At the top, there are navigation tabs: 'Project Dashboards', 'Work Items', 'Plans', 'Builds', and 'Reports'. Below this, the breadcrumb path is 'All Jazz Collaborative ALM Dashboards > Jazz Collaborative ALM > Jazz Function Test'. A set of filter tabs is visible, including 'General', 'FVT Extended - RC2', 'FVT Base (M12 - RC1)', 'Jazz FVT Must-Fix', 'RTC 3.0 iFix1 Cloud', 'Upgrade', 'Tasks', 'Resolved', and 'FVT Extended - RC3'. The 'FVT Base (M12 - RC1)' filter is currently selected.

- Various Reports on the dashboard help in tracking the progress
- Information is segregated based on milestones or specifics



# Tracking progress and analysis

- Track the progress for current milestone
- See the history of Tests in upgrade area
- Track the Execution status by TER count
- Any Pending Tasks for the functionality to be complete





# Tracking progress and analysis

## Jazz Function Test <sup>?</sup>

General FVT Extended - RC2 FVT Base (M12 - RC1) **Jazz FVT Must-Fix** RTC 3.0 iFix1 Cloud Upgrade Tasks Resolv

### Critical Defects



The critical defects affecting Jazz FVT.

#### Jazz FVT - Open high sev / must fix defects (CLM) (0)

No work items found.

#### Jazz FVT - Open high sev / must fix defects (JF) (1)

165014: CRJCA0003I Unexpected response code from request during LPA

#### Jazz FVT - Open high sev / must fix defects (CCM) (1)

165442: Defects blocking Tests widget not returning results

#### Jazz FVT - Open high sev / must fix defects (QM) (6)

50703: RRDl Report "Traceability in CALM" never finishes on jazzdev  
 50560: JAZZ 164881: QM widget configuration dialogs not appearing proper  
 50712: RRDl Report "Test Cases Impacted by Defects" does not show rec

## Jazz Function Test <sup>?</sup>

General FVT Extended - RC2 FVT Base (M12 - RC1) Jazz FVT Must-Fix RTC 3.0 iFix1 Cloud Upgrade Tasks **Resolved** FVT Extended - RC3

### Resolved Critical Defects



The resolved critical defects affecting Jazz FVT.

#### Jazz FVT - Resolved high sev / must fix defects (CLM) (10)

158903: Error creating MTM sample - java.net.SocketTimeoutException  
 128214: CLM Setup failed in Requirements server setup at "Configure" can't repeat the setup manually  
 154036: Reporting QM Data Collection job fails  
 133039: Error Instantiating Template  
 152077: No records returned for report - CLM BVT

Page 1 of 2

#### Jazz FVT - Resolved high sev / must fix defects (JF) (68)

164976: MTM Sample create button is disabled in IEB (workaround exists)  
 163761: LPA Finalize Setup Step: NPE and lMissing bundle com.ibm.team.lpa.common.internal.nls.messages!  
 164429: ETL Jobs: Error fetching job history, ensure the data warehouse is properly configured  
 164393: Configure data warehouse using shared Derby is broken in jts/setup (workaround exists)  
 163803: Members page hangs when you switch projects too quickly

Page 1 of 14

#### Jazz FVT - Resolved high sev / must fix defects (CCM) (27)

164426: Open vs Closed Work Items Widget hangs when configuring query  
 153396: When clicking on "Author a custom report" in CCM, it leads to an error trying to find project \*\*\*\*\*/servlet/dispatch  
 154372: In CCM, RRDl reports should be displayed right away and not go to the cognos portal  
 159052: On Bluesdev, 'Deploy Report Template' failed. Permission Denied when I try to save a Custom report (RRDl) Template  
 163441: CCM ETL Work Item job fails

Page 1 of 6

#### Jazz FVT - Resolved high sev / must fix defects (QM) (64)

50706: RRDl Report Defect List by Test case and Milestones gives a Parsing Error  
 49671: QM BIRT report "Defects Arrival and Resolution" only shows data in the last 2 weeks  
 50708: RRDl Report " Milestone Comparisons " gives Zero count for all test cases  
 50296: RRDl Business Analysis Execution Status Report Gives Logon Failure (Other reports work)  
 50713: RRDl Report "Discarded Defects by Severity" gives bad data

- Critical open defects show the pressing issues
- Resolved defects show the areas which our team can test to close the defects

# Tracking progress and analysis

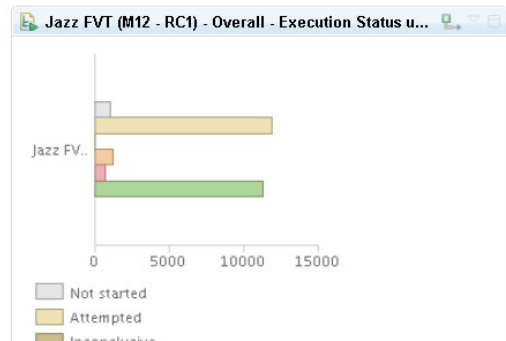
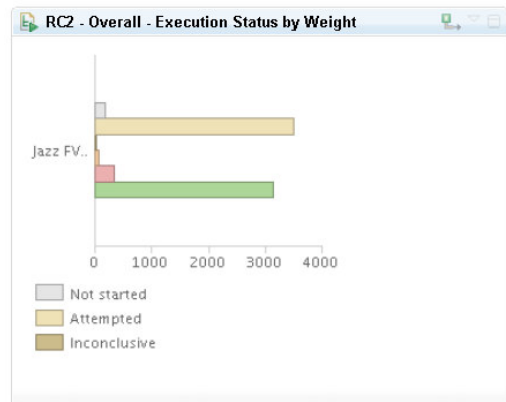
## Jazz Collaborative ALM

General | Commitments, Risk | Plan Item Status | Incomplete Stories | Release | Deferred | Current Iteration | RC1 Iteration | Beta 3 fixes

Builds | **FVT** | CLM Blockers | Reporting | CLM Must Fix Defects | Defects Blocking SVT | CLM May Fix Defects | SVT Open Defects

Accessibility Must Fix Defects | Other Must Fix Defects | Other May Fix Defects | CLM Defect Backlog | Enhancements | CLM PMC | Reso

QCERT | Requirements Coverage



- Development team's Dashboard

**CLM Builds passed BVT**  
There are no builds applicable to the current scope and tags filter.

**Jazz FVT - Open high sev / must fix defects (CLM) (0)**  
No work items found.

**Jazz FVT - Open high sev / must fix defects (JF) (1)**  
165014: CRJCA00031 Unexpected response code from request during LPA Finalization step of setup (workaround in comment 18)

**Jazz FVT - Open high sev / must fix defects (... (1)**  
165442: Defects blocking Tests widget not returning results

**Jazz FVT - Open high sev / must fix defects... (6)**

- 50703: RRDI Report "Traceability in CALM" never finishes on jazzdev
- 50560: JAZZ 164881: QM widget configuration dialogs not appearing properly on other apps' dashboards
- 50712: RRDI Report "Test Cases Impacted by Defects" does not show records affected by defects that were logged in other repositories (not sure about other project areas)
- 50716: RRDI report "Overall Defect Workload" does not load
- 49708: Test Cases Impact by Defect report issues (regression)
- 50700: RRDI Report "Time Spent Testing" has entries that have Negative Days

**Jazz FVT - Open high sev / must fix defects... (2)**

- 42692: Rich hovers not working in RM
- 42611: Memory Leak viewing artifacts in RM using IEB browser

## Jazz Function Test

General | FVT Extended - RC2 | FVT Base (M12 - RC1) | **Jazz FVT Must-Fix** | RTC 3.0 iFix1 Cloud

### Critical Defects



The critical defects affecting Jazz FVT.

**Jazz FVT - Open high sev / must fix defects (CLM) (0)**  
No work items found.

**Jazz FVT - Open high sev / must fix defects (JF) (1)**  
165014: CRJCA00031 Unexpected response code from request during LPA Finalization step of setup (wo

**Jazz FVT - Open high sev / must fix defects (CCM) (1)**  
165442: Defects blocking Tests widget not returning results

**Jazz FVT - Open high sev / must fix defects (QM) (6)**

- 50703: RRDI Report "Traceability in CALM" never finishes on jazzdev
- 50560: JAZZ 164881: QM widget configuration dialogs not appearing properly on other apps' dashboards
- 50712: RRDI Report "Test Cases Impacted by Defects" does not show records affected by defects that v
- 50716: RRDI report "Overall Defect Workload" does not load
- 49708: Test Cases Impact by Defect report issues (regression)
- 50700: RRDI Report "Time Spent Testing" has entries that have Negative Days

**Jazz FVT - Open high sev / must fix defects (RM) (2)**

- 42692: Rich hovers not working in RM
- 42611: Memory Leak viewing artifacts in RM using IEB browser

- Test team's Dashboard

# Tracking progress and analysis

- Get an answer to ‘When to start testing ?’

### Implementation Status

For each plan item we make forward-looking statements as to when exploration and implementation will be done. The viewlets below show the various iterations in which plan items are expected to have fully complete implementations.

- CLM 2011 Plan Items Implemented By Beta 3 (0)**  
No work items found.
- CLM 2011 Plan Items Implemented in RC1 (0)**  
No work items found.
- CLM 2011 Plan Items Implemented in RC2 (4)**
  - 140930: RM - Performance improvements
  - 99282: (Finish) Provide common install for Rational Workbench for CLM products
  - 160895: Deliver CLM 2011 on the IBM cloud
  - 149288: RM - Self host on jazz.net
- CLM 2011 Plan Items Implemented in RC3 (0)**  
No work items found.

### Testing Status

The status of a plan item progresses through states such as Implementing, Ready for Testing and Testing. The third icon in these viewlets indicates whether SVT provides test coverage for the plan item.

- CLM 2011 Plan Items Ready To Test (13)**
  - 148545: (Finish) Serviceability and Consumability Improvements
  - 99043: (Finish) Support work items as a service
  - 140793: Address CLM polish items
  - 99049: Adopt common visual style
  - 148495: CCM - Synchronization time per change should be linear in the number of changes when file size is consistent
  - 140786: Complete OSLC v2 support "Must" specification level
  - 148375: Improve CLM Usability
  - 153655: Improve Web UI Error Reporting to enable better defect reports
  - 140800: JF - CCM: Allow work item visibility to be controlled at a finer-grained level than project areas
  - 140801: JF - Deliver process authoring

SVT Coverage: Covered | Page 1 of 2 | Next
- CLM 2011 Plan Items Being Tested (65)**
  - 107921: Implement C/ALM 2009/2010 to C/ALM 2011 upgrade strategy across products
  - 99050: (Finish) CLM reporting
  - 99039: (Finish) Common administration of a project

### Done

Plan items can only be resolved when all related work such as testing and documentation, articles etc. is complete. Use approvals to record the completion of these additional activities. See the [Definition of Done](#) for details.

- CLM 2011 Plan Items Done (1)**
  - 156257: CCM - SCM CLI support for create empty workspace and delete workspace operations

## Benefits

- Connected the developers and testers
- Tracking of tests and progress
- Tracking results of the testing efforts
- Easily repro the tests
- Testers could see the defect resolution
- Testers get answer to 'When to start testing'
- History of work items and test cases useful
- Tracking same test on multiple environments was easy
- Traceability between Requirements and Plan Items (long term)

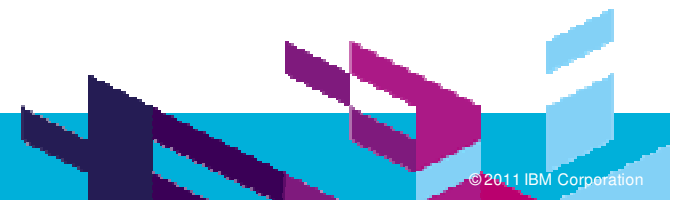
## The road ahead...

- Adding Automated Tests
  - ▶ Functional
  - ▶ Performance
  - ▶ ...
- Incorporate more sections in the templates based on the need
- Improve linkages between test cases and development plans
- Managing automation within Quality Manager
- Schedule Tests to be run automatically
- RRDI server integration for enhanced reporting

# QUESTIONS



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