



IBM Software Group | Rational software

IBM Rational Quality Manager

Overview

Rational software



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Converted to video June 26, 2015

This module will provide a high level overview of IBM Rational® Quality Manager V 1.0 and higher.

Course objectives

- **The concepts covered in this course are:**
 - ▶ What is Rational Quality Manager?
 - ▶ The user interface
 - Dashboard
 - Viewlets
 - Test Artifacts
 - Project Area
 - Test Suites
 - Test Plan
 - Test Case
 - Requirements
 - Test Scripts



The objective of this module is to give you an overview of IBM Rational Quality Manager and review some of the aspects of the user interface like the main dashboard, viewlets, project area, test suite, test plan, test case, requirements and test scripts.

Course objectives (continued)

- Administrative Functions
 - Users
- Reporting
- ▶ Integration with other Rational Tools
- ▶ Advantages of Rational Quality Manager
- **When you complete this module, you will have an understanding of:**
 - ▶ Functionality of Rational Quality Manager
 - ▶ Integration capability with other IBM Rational Tools



This module will continue to cover the administrative functions like creating a user in Quality Manager, reporting options and how Quality Manager integrates with other Rational tools. Finally, some of the advantages of using Quality Manager will be discussed. By the end of this of this module you will have a high level understanding of the features and functionality of Rational Quality Manager and it's integration capabilities.

What is Rational Quality Manager?

- The newest offering from IBM Rational in the Quality Management space
- Web based collaborative tool
- Allows project life cycle management and version handling
- Provides user roles
- Includes reporting capabilities
- Integrates with other IBM Rational tools



Rational Quality Manager is the newest offering in the quality management space by IBM Rational. It is a collaborative, web-based, quality management software for comprehensive test planning, manual testing, and integration with automated test tools. It can replace IBM Rational Manual Tester, Rational ClearQuest® test management tools, or Rational Test Manager. It enables full life cycle version handling and traceability from requirements and tests to defects and remediation. Quality Manager by default includes several user roles like Architect, Test Manager, Test Lead, Tester and Lab Manager. It has a powerful reporting capability that allows a user to automatically collect data and report on project metrics for informed release decisions. It integrates with other other IBM Rational testing tools like Rational Functional Tester and Rational Performance Tester allowing you to manage and run automated test scripts.

User interface

■ Dashboard

The screenshot shows the IBM Rational Quality Manager user interface. At the top, there is a blue header with the IBM Software Group logo and the text 'Rational software'. Below this is a navigation bar with a search box and 'Admin' and 'Preferences' links. The main content area is titled 'ADMIN's Dashboard' and contains several viewlets. On the left, there is a vertical menu with icons for Requirements, Planning, Construction, Lab Management, Execution, Reports, and Defects. The main dashboard area is divided into three main sections: a 'Welcome' viewlet with a title bar and introductory text, a 'My Tasks' viewlet with a table header (ID, Summary, Artifact, State) and 'No items found.', and a 'Quality Manager Articles & Tutor...' viewlet with a list of articles. A 'Related Sites' sidebar is visible on the right. Yellow callout boxes highlight the 'Title' bar of the dashboard, the 'Menu' on the left, and a 'Viewlet' in the main content area.

When you log into Quality Manager, the first thing that comes up is your home page. A home page consists of a menu and a dashboard.

The menu has options to create and manage requirements, test plans, test cases and test suites. The menu also has options to create reports and submit defects. A dashboard gives an overview of project information and allows easy access to more complete information. The dashboard is made up of a title bar which lists the user name and a collection of viewlets. Viewlets are rectangular widgets in the dashboards that perform a useful function. The default dashboard includes several viewlets like Welcome, My Tasks, Requirements Coverage and so on.

User interface

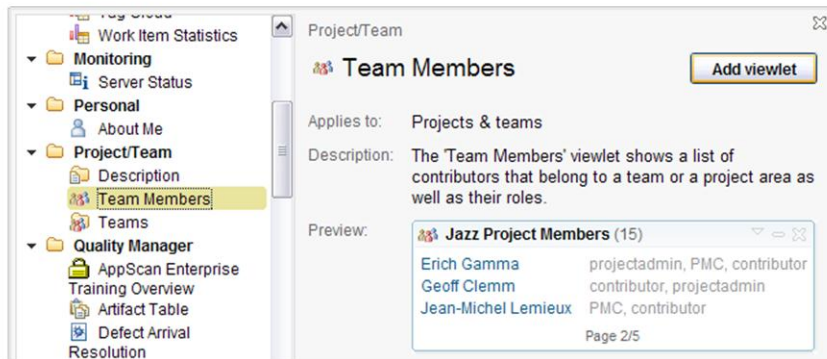
■ Viewlets

The screenshot displays the 'ADMIN's Dashboard' interface. At the top, there is a header bar with the text 'ADMIN's Dashboard' and icons for a close button (X), a refresh button, and an 'Auto-save' checkbox. Below the header, there is a 'General' dropdown menu and an 'Add New Tab' button. In the top right corner of the dashboard area, there is an 'Add Viewlet' button. A yellow callout bubble points to this button with the text 'Add Viewlet'. Below the dashboard area, the 'Viewlet Chooser' dialog is open. It has a title bar with 'Viewlet Chooser' and a close button (X). The dialog contains a list of viewlets grouped into categories on the left: Development (Iteration Plans, Work Item Queries, Work Items), Feeds (Builds, Event Log, News Feed), Live Reports (Tag Cloud, Work Item Statistics), Monitoring (Server Status), and Personal (About Me, Project/Team). The main area of the dialog shows the text 'Select a viewlet from the chooser to add it to your dashboard.' A yellow callout bubble points to this area with the text 'Viewlet Chooser'. At the bottom of the screenshot, there is a footer bar with the text 'Overview of Rational Quality Manager' and '© 2009 IBM Corporation'.

You can add, configure, edit, and manipulate viewlets in the dashboard. In most cases, newly created dashboards are pre-populated. The initial content is intended to provide a good starting point and can be changed in several ways. To add a viewlet, click “Add Viewlet” in the upper, right corner of the dashboard. The Viewlet Chooser opens, showing the available viewlets grouped in categories in the left column. When a viewlet is selected, a description and a preview image is shown to the right. To close the Viewlet Chooser, click the X in the upper, right corner.

User interface

■ Viewlets



After you select the viewlet to add, click the “Add viewlet” button and the viewlet is added at the top of the left most column.

To remove a viewlet from the dashboard page, click the X in the upper, right corner of the viewlet.

User interface

■ Test Artifacts

▶ Project Area

Active Project Areas

Use this interface to create and update project areas. To create a new project area, click the "Create Project Area" button below. To edit an existing project area, click the appropriate row in the table below.

Create Project Area

Name	Description
Quality Manager	Quality Manager

View Save

Details Preview

Summary:

Description:

Process

Quality Manager Default Process

The default process for Rational Quality Manager.

Members Add...

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

Name E-mail

Administrators Add...

If you don't have the permissions you need, please contact one of the administrators below. Note that project administrators have the privilege to modify a project area even if no permissions are granted to make changes. This privilege applies only to changes to the



All Quality Manager features operate under the context of a project area. Multiple project areas can be created and within each project area, multiple team areas can be created. A project area can be created through the Jazz™ Project Administration menu option. After clicking the

“Create Project Area” button, a name for the project area can be specified and members can be added.

User interface

■ Test Artifacts

▶ Test Suite

The screenshot displays the IBM Rational Quality Manager user interface. On the left, a sidebar menu is open, showing the 'Construction' icon selected. The 'Create Test Suite' option is highlighted in the menu. The main window shows the 'Create Test Suite' form. At the top, there is a 'Table Of Contents' pane with 'Summary' and 'Test Cases' listed. The main form has a text input field for '< Enter New Test Suite Name >', a 'Discard Changes' button, and a 'Test Suite' label. Below this, there are fields for 'Originator: ADMIN', 'Owner: Unassigned', 'Action: Select Action', and 'State:'. A description field contains the text '< Click here to enter a description >'. A 'Summary' section is visible, with a 'Work Item:' field and the text 'Overview of the test suite. Description: < Add Content >'. The footer of the interface includes the text 'Overview of Rational Quality Manager' and '© 2009 IBM Corporation'.

A test suite is a collection of test cases that have been grouped for test execution purposes. From the left sidebar menu, by pointing to the Construction icon and clicking “Create Test Suite” a new test suite can be created. The new test suite opens, with a table of contents on the left and an editor on the right. On the top of the new test suite, you can enter a new test suite name. An owner can be assigned and a description can be typed in. From the table of contents the test cases can be clicked and test cases can be added to the suite.

User interface

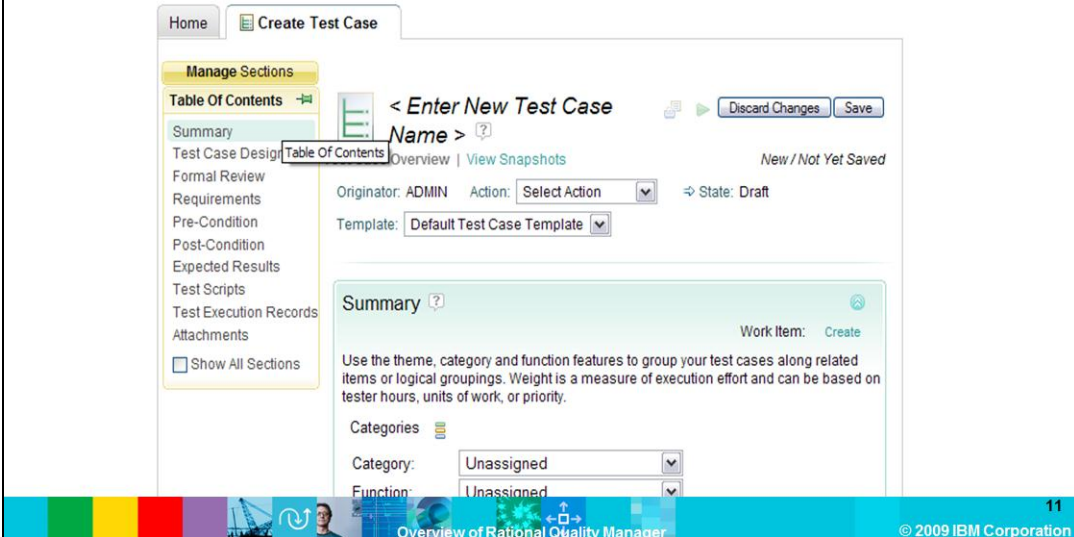
- Test Artifacts
 - ▶ Test Plan

The screenshot displays the 'Create Test Plan' interface in IBM Rational Quality Manager. On the left, a sidebar menu shows 'Planning' selected, with options for 'My Test Plans', 'All Test Plans', 'Import Test Plans', and 'Manage Templates'. The main area is titled 'Create Test Plan' and features a 'Table Of Contents' on the left listing sections like Summary, Business Objectives, Test Objectives, Formal Review, Requirements, Test Schedules, Test Estimation, Test Environments, Test Team, Quality Objectives, Entry Criteria, Exit Criteria, Test Cases, Resources, and Attachments. The right side is an editor for a new test plan, showing fields for 'Name', 'Originator: ADMIN', 'Action: Select Action', 'State: Draft', and 'Template: Default Test Plan Template'. Below these is a 'Summary' section with 'Product: Unassigned' and 'Release: Unassigned' dropdowns, and a 'Description' text area. The footer includes 'Overview of Rational Quality Manager' and '© 2009 IBM Corporation'.

The test plan describes the scope of the overall test effort and provides a record of the test planning process. It identifies the features and test environments to be tested, the entry and exit criteria to be used, quality goals, and other items. A Quality Manager test plan includes some predefined sections like Summary, Business Objectives, Test Objectives and others. From the left sidebar menu, by pointing to the Planning icon and clicking "Create Test Plan" a new test plan can be created. The new test plan opens with a Table of Contents on the left and an editor on the right. On the top of the new test plan, you can enter a new test plan name. A template can be selected. In the Table of Contents, you can click Test Cases and pick test cases to be included in the test plan.

User interface

- Test Artifacts
 - ▶ Test Case



Test cases describe what you are going to test. Typically, one or several test scripts can be associated with a test case, in addition to one or several test execution records, which are often used to run a test. From the left sidebar menu, by pointing to the Construction icon and clicking “Create Test Case”, a new test case can be created. The new test case opens with a Table of Contents on the left and an editor on the right. On the top of the new test case, you can enter a new test case name and a template can be selected. In the Table of Contents, you can click Test Scripts and pick test scripts to be associated with the test case.

User interface

- Test Artifacts
 - ▶ Requirement

The screenshot displays the IBM Rational Quality Manager user interface. On the left, a sidebar menu includes 'Requirements', 'Planning', and 'Construction'. The 'Requirements' section is active, showing options for 'Create Requirement', 'Import Requirements', and 'All Requirements'. The main area shows a 'Requirement <16:18:41>' dialog box with a 'Cancel' button. Below the dialog, there are tabs for 'Overview', 'Links', 'Approvals', and 'History'. The 'Details' section includes fields for 'Type' (Requirement), 'Severity' (Normal), 'Creation Date' (Now), 'Owned By' (Unassigned), and 'Created By' (ADMIN). A 'Description' field is also visible. The footer of the interface includes the text 'Overview of Rational Quality Manager' and '© 2009 IBM Corporation'.

If you have requirements defined in an external tool, such as IBM Rational RequisitePro®, you can import them into Rational Quality Manager, where they are visible in the Requirements view. You can also import requirements directly into test plans and test cases. If a requirement is changed or deleted in the requirements application source, the requirement status is updated in Rational Quality Manager. You can also add requirements into your test plan manually. From the left sidebar menu, by pointing to the Requirements icon and clicking the Create Requirement a new Requirement can be created.

User interface

■ Test Artifacts

▶ Test Script

The screenshot shows the Rational Quality Manager user interface for creating a new test script. The interface is divided into several sections:

- Left Sidebar:** Contains navigation icons for Planning, Construction, Lab Management, Execution, and Reports. The 'Construction' icon is selected, and a dropdown menu is open showing options like 'Create Test Case', 'My Test Cases', 'All Test Cases', 'Import Test Cases', 'Create Test Script', 'My Test Scripts', 'All Test Scripts', 'Import Test Scripts', 'Create Test Suite', 'My Test Suites', 'All Test Suites', and 'Create Test Execution Record'.
- Top Bar:** Shows 'Home' and 'Create Test Script' tabs.
- Main Content Area:**
 - Title:** '< Enter New Test Script Name >' with a help icon and a 'Test Script' label.
 - Buttons:** 'Discard Changes' and 'Save' buttons are visible.
 - Metadata:** 'Originator: ADMIN', 'Action: Select Action', 'State: Draft', and 'Work Item: Create'.
 - Form Fields:** 'Type: Manual' and 'Test Data: Unassigned' dropdown menus.
 - Description:** '< Click here to enter a description >'.
 - Manual Steps:** A section titled 'Manual Steps' with a help icon.
 - Text Editor:** A rich text editor with a toolbar containing icons for undo, redo, bold, italic, underline, font size, font color, background color, bulleted list, numbered list, link, unlink, and print. Below the toolbar is a 'Click to add...' button.
 - Keyword View:** A section titled 'Keyword View' with a help icon, a 'Type Filter Text' input field, and 'Previous | 0 - 0 of 0 | Next' navigation.

You can use Rational Quality Manager to manage manual test scripts. With Rational Quality Manager, you can use the embedded manual test editor to create new manual test scripts, or you can import manual test scripts from Rational Manual Tester. Test scripts are associated with test cases. When you run a test, you run the test execution record that is associated with the test case. When you finish adding statements, click Save at the top of the page to save the test script. From the left sidebar menu, by pointing to the Construction icon and clicking “Create Test script” a new manual test case can be created. A descriptive name can be entered in the Name field. To begin typing your statements, select “Click to add” in the text editor. A new step is added with the default statement type as Execution Step. To change the statement type, right-click the execution step icon, and select a different value from the list. In addition to Execution Step, you can choose Reporting Step or Verification Point .

User interface

Administrative Functions

Creating a User

Back to Rational Quality Manager

User Management

- Active Users
- Archived Users
- Client Access License Management

Active Users

Use this page to create and edit repository accounts. To create a new account, click the "Create User" button below. To click on an account in the list below, enter a portion of the name, user ID, or e-mail address in the text-box below and click the Search button.

Previous | 0 of 0 | Next

Name	User ID	E-Mail
No matching users found		

New users will be created with a default password equal to their User Id in your directory service.

Details

User Id (case sensitive): *

E-mail Address: *

Photo

Repository Permissions

- JazzAdmins
- JazzDWAdmins
- JazzGuests
- JazzUsers

Client Access Licenses

- Rational Quality Manager - Quality Manager (9 available)
- Rational Quality Manager - Test Lab Manager (10 available)
- Rational Quality Manager - Viewer (10 available)
- Rational Quality Manager - Connector (10 available)

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In Rational Quality Manager, you can create new users and assign them the appropriate permissions. You can also add them to the Quality Manager project area. A user can be created from the Jazz User Administration menu option. You can click the "Create User" button and

create a new user. A user has to be logged in as administrator and be a member of the JazzAdmins group to be able to create a new user.

User interface

■ Reporting

Home Reports

All Reports ?

Group by: Theme

10 Items per page Previous | 1 - 10 of 33 | Next

Name	Description	Shared
▼ Defects (1 - 1 of 1)		
<input type="checkbox"/> Defects arrival and resolution	Defects created and resolved trend	Yes
▼ Execution (1 - 8 of 8)		
<input type="checkbox"/> Execution Status by Machine using Weight	Execution Status by Machine using Weight	Yes

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Rational Quality Manager provides an array of pre-configured reports that can be run from any place, at any time, so that you can easily monitor your project's pulse. By analyzing your test runs, you can identify trends and spot where bottlenecks exist in your project.

Integration with other Rational tools

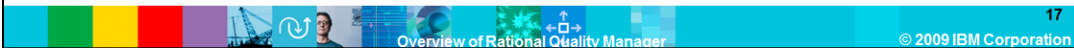
- IBM Rational Testing Tools
 - ▶ IBM Rational Functional Tester
 - ▶ IBM Rational Performance Tester
- IBM Rational RequisitePro



IBM Rational automated test tools like Rational Functional Tester and Rational Performance Tester integrate with Quality Manager through the use of adapters. Each adapter serves as a bridge between the test tool and Quality Manager. The adapter listens to requests from Quality Manager and then runs tests on the test machine where the test tool is installed. The adapters for both these tools are installed and configured by default when you install the 8.0 version of Functional Tester and Performance Tester. Rational Quality Manager integrates with Rational RequisitePro V7.1 and requires the RequisitePro client for Web to implement the integration. After installing and configuring RequisitePro, a user is able to use it to manage requirements and import requirements into the Quality Manager.

Advantages of Rational Quality Manager

- **Promotes team synergy**
 - ▶ Keeps teams in sync with dynamic plans
 - ▶ Communicates project status efficiently
- **Accelerates Execution**
 - ▶ Executes locally or remotely
 - ▶ Determines optimal plans to save effort and infrastructure
- **Instant Project Status**
 - ▶ Measured progress with dashboard
 - ▶ Addresses needs of Business stakeholder



IBM Rational Quality Manager enables teams to mitigate business risk by promoting team synergy. The dashboard feature in Quality Manager helps teams to be in sync on the project plans and communicate project status efficiently. The integration features in Quality Manager help accelerate test execution. Manual and automated test scripts can be run locally or remotely. A project manager can log into Quality Manager and instantly get a status of the project. Various viewlets on the dashboard can help get a measured progress of the project. Quality Manager addresses the needs of all business stakeholders.

Summary

- This module showed a high level of the features and functionality of IBM Rational Quality Manager
- Integration capability with other IBM Rational tools
- Benefits of IBM Rational Quality Manager



This module showed a high level of the features and functionality of IBM Rational Quality Manager. It covered what other IBM Rational tools Quality Manager can integrate with and some of the benefits of using Quality Manager.

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