

## IBM Software Demos

### Rational Quality Manager Overview

IBM Rational Quality Manager is a collaborative platform for team based quality driven software delivery. Rational Quality Manager enables teams to mitigate business risk by promoting team synergy, to improve operational efficiency by accelerating test execution and to make confident business decisions by providing instant project status.

<0:20>

{Action: Project Manager dashboard}

As each individual team member logs onto Rational Quality Manager they are presented with their dashboard. The content and layout of the dashboard can be tailored to provide instant status on the project metrics most applicable to their role. This facilitates team communication and collaboration by ensuring that all team members have the latest project information such as individual work items, team status, project reports or external RSS data feeds.

On the dashboard, the action bar provides access the main functional areas of Quality Manager; from requirements and test planning, to lab management, execution, reporting and defect management.

<0:57>

Quality Manager requirements can either link to requirements managed in external tool such as Rational RequisitePro and Telelogic DOORS, or managed natively. Here we're creating a native requirement to process a mortgage increase in our online financial application. To avoid duplication, we can verify whether or not similar requirements already exist. We note that indeed we already have such a requirement in place. Preventing duplicate data such as requirements and defects is a key strategy for ensuring efficient team operations.

<1:28>

{Action: Customizable test plan}

Quality Manager's customizable test plan is a quality contract for the entire team. It contains key static project information such as business objectives, as well as dynamic content such as schedules and test cases. To cope with high volumes of test cases, advanced sorting and filtering options help users quickly find the information they need.

The test plan documents information about target configurations, and we'll see later how that information is used to ensure optimal platform coverage.

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Requirement change impact analysis enables Quality Manager to easily identify any test cases that might require execution to validate changing requirements.

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Here we have one such test case, with an associated manual test script. Quality Manager supports local and remote execution of a variety of manual and automated test scripts from tools such as IBM Rational Functional Tester, Service Tester and Performance Tester. An open architecture enables users to launch virtually any test from the Quality Manager console.

<2:28>

{Action: Using the text editor}

Manual test support is an integrated function of Rational Quality Manager. A rich text editor enables users to author visual tests with embedded images.

Keyword support enables tests to re-use portions of other manual or automated tests. To complete the authoring of this test, we're leveraging the login keyword. With a simple drag and drop, our test is now contains the steps necessary to login and process our mortgage increase request.

Using keywords accelerates not only test creation, but where a manual test leverages an automated keyword, it accelerates execution as well.

<3:00>

{Action: Processing work items}

Team collaboration requires good team communication. To keep track of deliverables or to notify team members of asset changes, such as this test modification, Quality Manager offers work items. Work items formally track individual activities assigned to team members. When a work item is assigned, formal notification is posted on the individual's task list as well as on the team event log. Tracking these individual items ensures no deliverable falls through the cracks.

When testing applications that support multiple deployment configurations, test teams often lack the resources required to cover all combinations and permutations of platforms. To assist with this challenge, Quality Manager offers environment coverage optimization which will determine the minimum number of test cases required to cover a given level of configuration combinations. With this technology testers can rest assured that they are achieving maximum coverage for their given resources.

<3:58>

{Action: Executing a manual test}

As we execute our manual test, Quality Manager will prompt us with the step by step instructions required to complete the test. For steps such as this which require data entry, Quality Manager will pre-populate the clipboard with the

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required test data so that the tester needs only to paste the data into the application. This ensures consistent test execution. For steps that require data validation, the tester needs only to copy the data from the application onto the clipboard and paste it to Quality Manager who will compare the data and log a comparison result. This ensures accurate test evaluation.

<4:32>

{Action: Handling a spelling mistake}

Here in this case, a spelling mistake has been discovered. To record this issue, the tester can enter a defect during test execution to capture the exact details of the problem. Quality Manager comes with a robust integrated defect management system, which can also be configured to interoperate with external issue tracking tools such as IBM Rational ClearQuest.

Further, the tester can log the individual step as an error for subsequent test case reporting.

With our execution almost complete, we'll use the apply all functionality to complete the remainder of the steps so that we can examine our test execution results.

<5:08>

{Action: Test execution results are shown}

Test execution results are captured by tester and platform for full reporting. Test case results are weighted, for situations where a simple pass/ fail verdict would be misleading. In our case, while our test did indeed function as intended, a small spelling mistake was found. To reflect this outcome, the tester scores this test as a 90 percent pass, 10% fail. This level of granularity ensures that teams have accurate information for crucial project and release decisions.

<5:37>

As individual results accumulate, it becomes necessary to be able to view these results in the aggregate. Rational Quality Manager's reports convert data into information, which teams can then use to answer the questions posed of them, from a simple "How's it look" to the ever looming "Are we ready to release?".

Here we have a weighted execution status report which shows us the relative strength of our application. Using test case weightings means that the most important test cases have the greatest impact on this report. A quick scan of this report shows that for the test cases we've attempted the majority have passed, some have failed and others are inconclusive. Overall though, the report shows a current positive status.

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IBM Rational Quality Manager enables teams to mitigate business risk by promoting team synergy, to improve operational efficiency by accelerating test execution and to make confident business decisions by providing instant project status.

For further information please visit our website at [ibm.com/rational](http://ibm.com/rational) for additional product demonstrations, datasheets, trial software.