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### Effective Test Planning and Execution Tracking Using IBM® Rational® Quality Manager

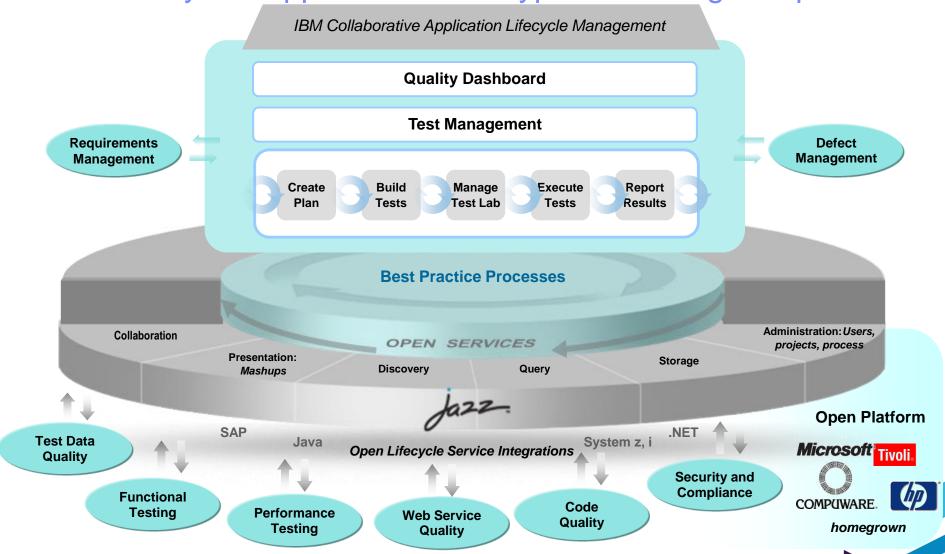
#### Agenda

- Introduction
- Estimating the Test Effort
- Prioritizing the Test Effort
- Tracking Progress
- Questions





Quality Management offers a centralized test management hub and full lifecycle support across all types of testing and platforms





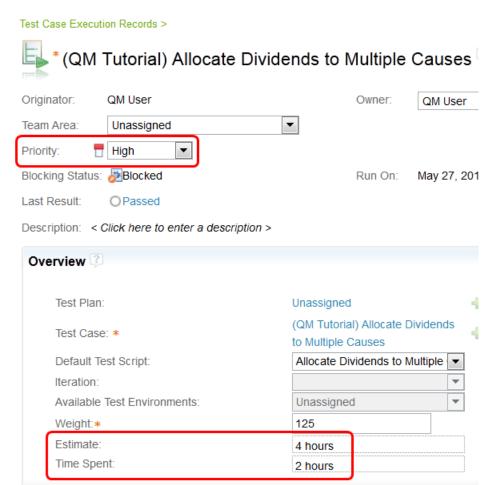
#### Introduction

#### New artifact fields in RQM

- Priority
- Estimate
- Time Spent











## Introduction New artifact fields in RQM: Priority

Field	Artifact Types	Usage
Priority	<ul> <li>Test Plan</li> <li>Test Case</li> <li>Test Suite</li> <li>TER</li> </ul>	<ul> <li>An enumeration of values describing relative priority of one test vs. another</li> <li>Out of the box values: High, Medium, and Low</li> <li>Viewable/Filterable/Sortable within Table Views</li> <li>Used to make intelligent decisions of what test to focus on first and what to defer if needed</li> </ul>





#### Introduction New artifact fields in RQM: Estimate

Field	Artifact Types	Usage
Estimate	<ul><li>Test Case</li><li>Test Suite</li><li>TER</li></ul>	<ul> <li>A time measure of how long it will take to execute a test</li> <li>For TERs: used with "Time Spent" to provide live execution progress data: Test Plan progress and progress by Owner</li> <li>Viewable/Filterable/Sortable within Table Views</li> <li>Yes, we know some of you used "Weight" for this already</li> </ul>





## Introduction New artifact fields in RQM: Time Spent

Field	Artifact Types	Usage
Time Spent	•TER	<ul> <li>The actual time it took to run a test</li> <li>Used with "Estimate" to provide live execution progress data: Test Plan progress and progress by Owner</li> <li>Used to correct Estimates based on historical data to help with more accurate future planning</li> </ul>



#### **Estimating the Test Effort**

How can I plan my testing in a way that allows me to evenly distribute work across the team and make intelligent decisions about load balancing?

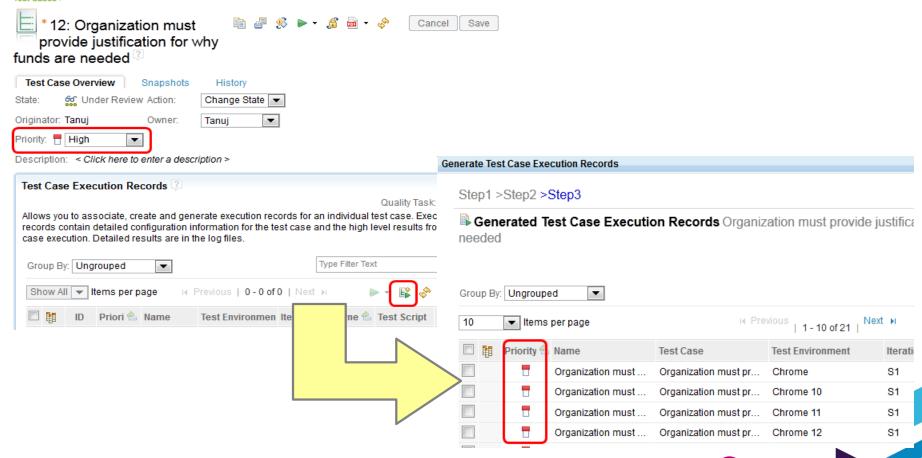






# **Estimating the Test Effort** Setting estimate on test cases

When you set an estimate on a test case all TERs generated from that test case will inherit the priority value



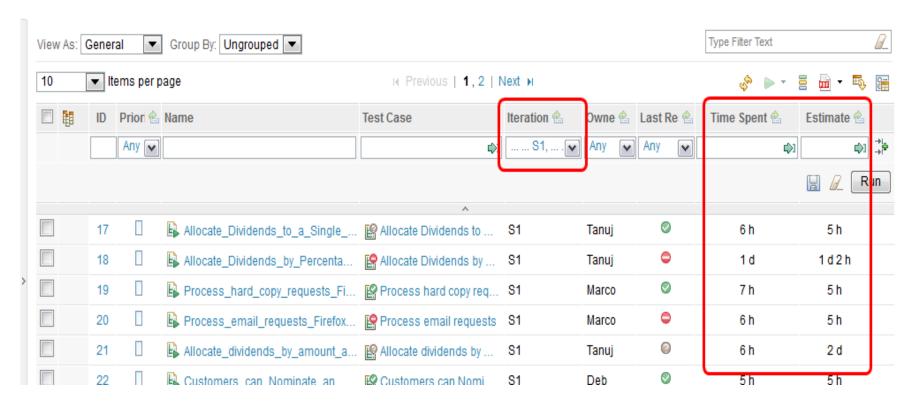




# **Estimating the Test Effort** Using historical time spent

You can use "time spent" from prior iterations to make intelligent decisions about correcting estimates

Test Case Execution Records







#### Prioritizing the Test Effort

How can I plan my testing in a way that ensures that my team executes the most important tests first and defers the least important?





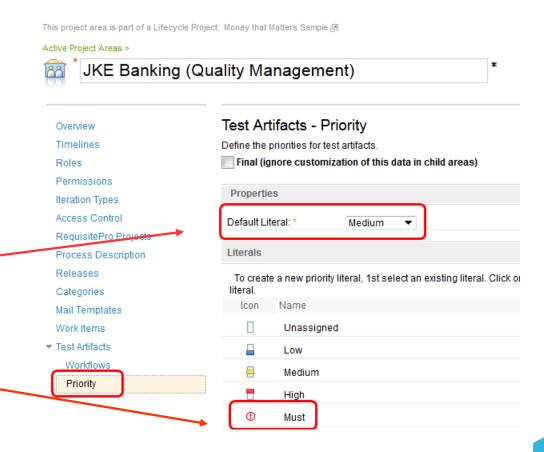


#### Prioritizing the Test Effort Creating custom priorities for your organization

The Project Area Administration page has a "Priority" entry in the newest version of RQM that allows you to rename, remove, and create custom priority values.

You can set the default priority value used for new test artifacts.

You can insert new priority values within the existing hierarchy indicating relative priority.



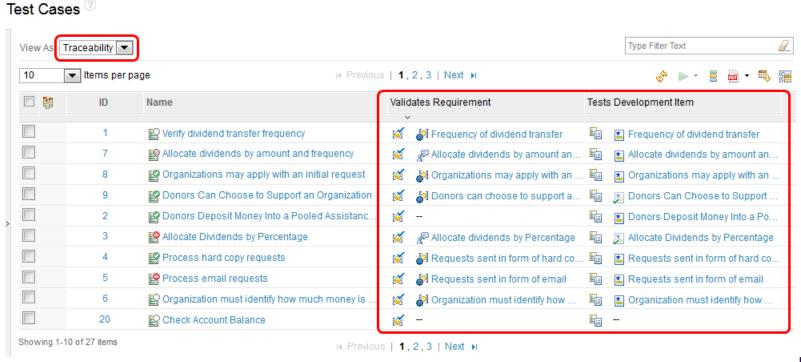




### Prioritizing the Test Effort Deriving test case priority – requirements and workitems

Use Requirement "Business Priority" and Workitem "Priority" and "Story Points" to determine Test Case priority.

The new "Traceability" view for Test Cases is great for this. BTW – you can add those columns to all Test Case views.



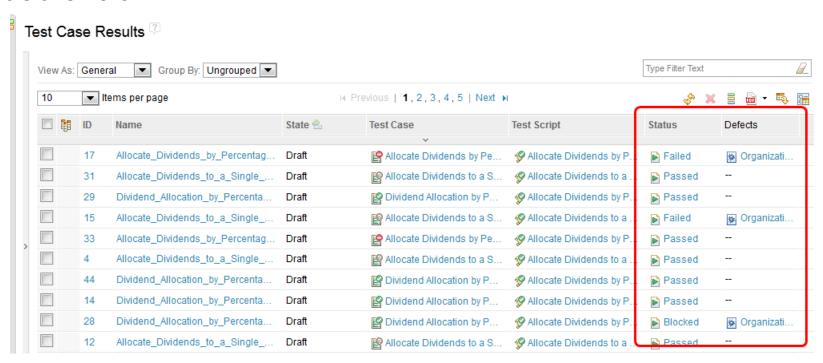




#### Prioritizing the Test Effort Deriving test case priority – defects and prior runs

Use defects found and results of prior runs to determine "sensitive" areas that require more focus.

Use a filtered TER view and leverage the new "Defects" column to make intelligent decisions here.

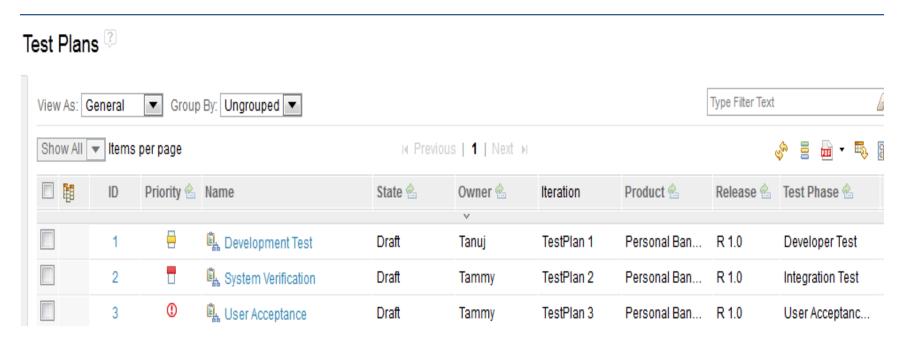






# Prioritizing the Test Effort Deriving test plan priority

Do you classify test plans with categories to indicate type of testing? Using categories to separate plans by regression, translation, new feature, etc. is useful to define relative priority.







# **Tracking Progress**

How can I track execution progress and make adjustments realtime to react to business reality?







## **Tracking Progress** Test plans – live view

Use the new test plan "Live View" for real-time, at a glance, info on how your testing is progressing.

Test Plans >							
*2: System Ve	rification <sup>?</sup>					▼ 🍄 Ca	ncel Save
Test Plan Overview  State:   → Draft  Originator: Tammy		change State  ammy	Execution P Test Case:	rogress Total: 104/105	Estimated: 100%	Progress:1155	Total:1580
Priority: High	•		Test Suite:	Total: 0/0 h	Estimated: 0%	Progress:0	Total:0
Description: Formal test pla	an for system verificati	ion.					

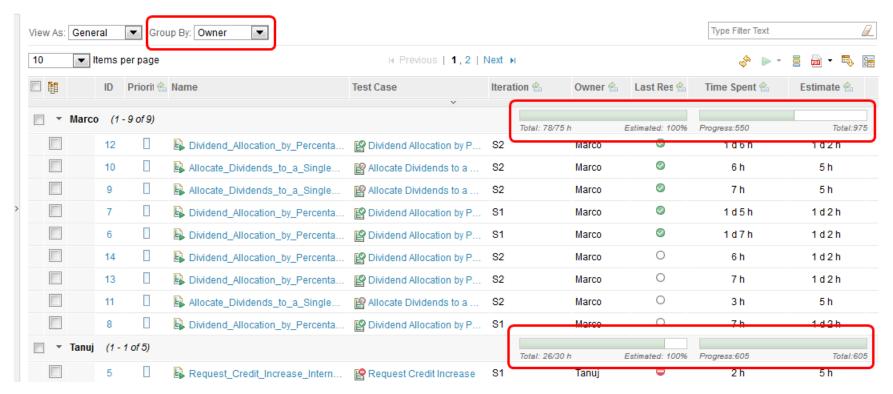




## **Tracking Progress** Test plans – TER view

There's a new section for test plans to list all TERs associated with the plan. "Group By Owner" shows you individual progress.

Test Case Execution Records



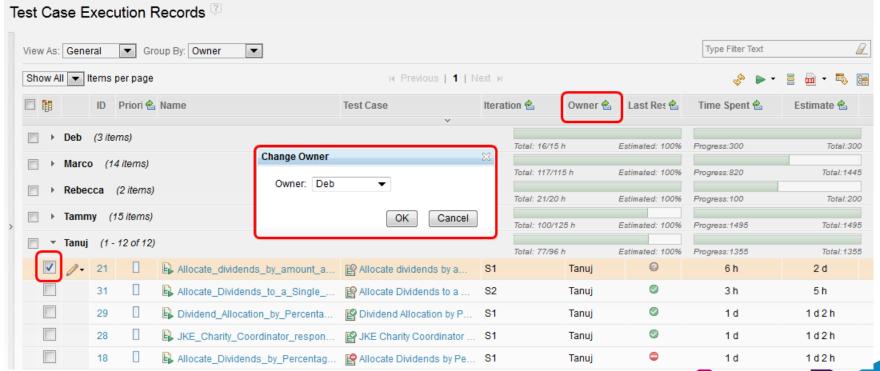




#### **Tracking Progress** TER view

Use the TER view grouped by owner to reassign test ownership. Transfer TERs from overbooked testers to under-booked testers.

The TER view in a plan is great, but the general TER view can also be grouped by Owner for a more holistic view.







#### **Tracking Progress** Dashboard viewlet - Test Plans Execution Status

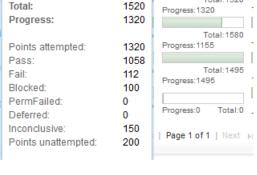
Test plan execution status can be tracked via a viewlet on personal, team, and project dashboards.

Hover over progress bars for breakdowns of details.

Click on progress bars to open the relevant table of test case or test suite execution

records.





Progress Report - Points





#### **Tracking Progress** Dashboard viewlet - Team Execution Status for Test Cases

A great team dashboard viewlet (also available on personal and project dashboards) is a breakdown of your team's progress.

Hover over progress bars for breakdowns of details.

<b>≬</b> Team Execution Sta	atus for Test C	ases (JKE Ban	nking (Quality Ma	nagement))		
Tanuj	T-4-1, 77/00 L	Estimate de 1000	D12	T-t-1:42	D	T-4-1:4055
Date	Total: 77/90 h	Estimated: 100%	Progress:12	10t81:12	Progress: 1355	Total:1355
Deb	Total: 16/15 h	Estimated: 100%	Progress:3	Total:3	Progress:300	Total:300
Marco	Total: 117/115	Estimated: 100% h	Progress:8	Total:14	Progress:820	Total:1445
Rebecca	Total: 21/20 h	Estimated: 100%	Progress:2	Total:2	Progress:100	Total:200
Tammy	Total: 100/125	Estimated: 100% h	Progress:15	Total:15	Progress:1495	Total:1495
Al	Total: 0/0 h	Estimated: 0%	Progress:0	Total:0	Progress:0	Total:0
Bob	Total: 0/0 h	Estimated: 0%	Progress:0	Total:0	Progress:0	Total:0
Dave	Total: 0/0 h	Estimated: 0%	Progress:0	Total:0	Progress:0	Total:0
Sally	Total: 0/0 h	Estimated: 0%	Progress:0	Total:0	Progress:0	Total:0
Ursula	Total: 0/0 h	Estimated: 0%	Progress:0	Total:0	Progress:0	Total:0
			Page 1 of 2			





#### **Tracking Progress** Reviewing what has not been executed: TER view

The TER view in a test plan filtered with "Last Result = Not Run" is a quick and easy way to see your exposure.

Leverage the priority you've assigned to TERs to assess risk and exposure, drilling into the associated test case's related requirements and workitems for a complete picture. Use the progress view to reassign those critical TERs!

	ID P	riority 🕾	Name	Test Case	Iteration 🛳	Owner 🐁	Last Result 🐁
	A	ny [	<b>v</b>	ф1	Any	Any	Not Run 🔻
				A			
Mare     Mar	co (1 - 5 of 5)	_			Total	: 31/45 h	Estimated: 100%
	13	①	Dividend_Allocation_by_Percentage_Fir	Poividend Allocation by Perce	S2	Marco	0
	8	≞	Dividend_Allocation_by_Percentage_Int	Policidend Allocation by Perce	S1	Marco	0
	14	≞	Dividend_Allocation_by_Percentage_Int	Policidend Allocation by Perce	S2	Marco	0
	11	=	Allocate_Dividends_to_a_Single_Caus	Allocate Dividends to a Singl	S2	Marco	0
	16	-	Dividend_Allocation_by_Percentage_Ch	Dividend Allocation by Perce	Unassigned	Marco	0

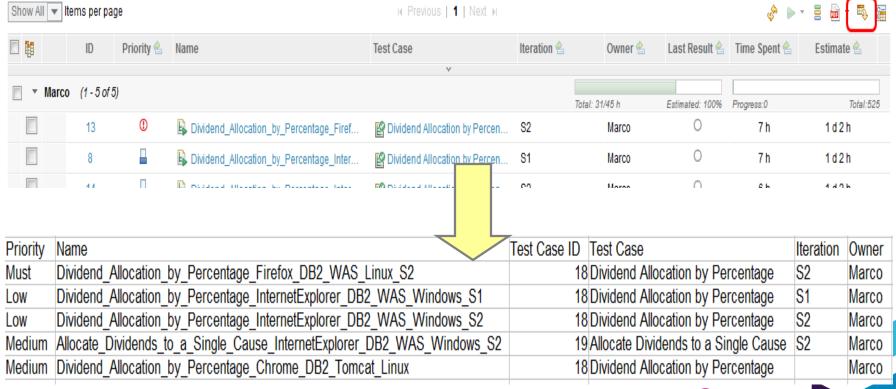






## **Tracking Progress** Reviewing what has not been executed: exporting to CSV

You may need to report status to others in your organization who may not want to or be licensed to use CLM reporting, let alone QM itself. CSV Export is a new 2012 feature that allows you to export exactly what you're seeing in any table view to a spreadsheet. Start your pivot table engines!





### Summary

- Use priority to focus your test efforts and make intelligent decisions on what can be deferred.
- Estimate and time spent drive our live status views and allow you to better track your execution progress from a resource perspective.
- Traceability views provide easy access to linked data to make planning decisions.
- Live views in the test plan offer "at a glance" status without running a report.
- The TER section in a test plan is a powerful way to easily and conveniently track testing progress.







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