

# **HP Quality Center**

TalenTech

#### Introduction

- Quality Center is a web based test management system. It allows the user to control the major facets of the testing process
  - Requirement Management
  - Test Planning
  - Test Execution
  - Defect Tracking, and
  - Test Reporting
- All are controlled through a single browser-based application

### Quality Center

- Quality Center uses four modules as below
  - Requirements
  - Test Plan
  - ▶ Test Lab
  - Defects
  - Dashboard



- The testing group will utilize the Test Plan Module to design test cases and detail test steps
- The Test Lab Module is used to execute tests and Defect for test failure, and Dashboard for real time reporting



### Signing on to Quality Center

- QC is accessible from any web browser using the appropriate URL.
- Test QC serer URL: http://gp5081/qcbin
- Enter Username and Password
- Click Authenticate
- Ensure that the proper Domain is selected
- Select the required project from the project drop-down list
- Click "Login"



### Change Password

- The initial password can be changed following the steps below
  - Login to Quality Center
  - Click "Tools" menu and select "Customize"
  - 3. Click the "Change User Properties" link
  - 4. On the bottom right of the screen you will see the "Change password" button
  - Click the button and enter your old password and a new password
  - 6. Click the Save button

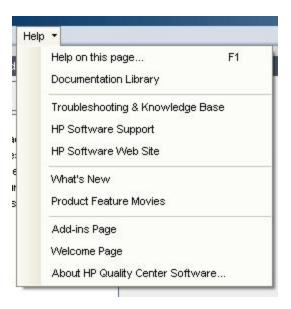
User Properties
Project Users
Groups
Module Access
Project Entities
Project Lists
Automail
Alert Rules
Workflow



### Quality Center Help Function

Quality Center has a number of help files that are accessible by clicking the "Help" button.



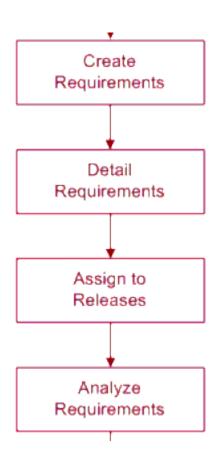


## Working with Requirements

**Quality Center** 

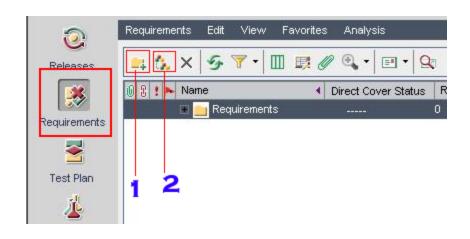
#### Requirement Work Flow

- Create/ Export Requirements
- Detail Requirements
- Assign to Release
- Analyze Requirements



#### Create Requirement

- Create a requirement Folder by clicking the "Add Folder" icon (I)
- Select the folder, and click "New Requirement" (ALT +New) to write a requirement (2)
- Enter the requirement Type, Requirement name on the new window, and click "OK"
- Enter requirement details on the "New Requirement Window". (see next slide)

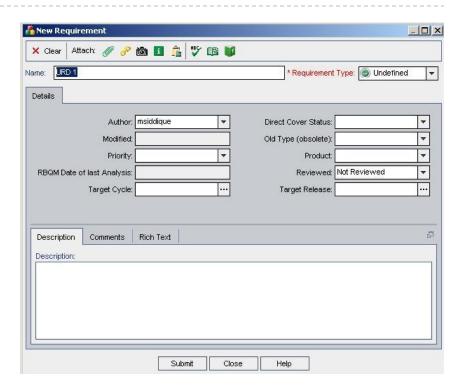




#### Requirement Details

#### Enter the followings

- Name
- Author
- Modified
- Priority
- RBQM Date of Last Analysis
- Target Cycle
- Product
- Reviewed
- Target Release
- Description
- Comments (if any)



### Export Requirements

	В	C	D	E	F
1	Requirement Name	Requirement Type	Author	Description	Path
2	URD-3	Functional	Msiddique	Upgraded Accident Forgiveness	\Plan Item REVO
3	URD-17	Functional	Msiddique	eBanking Discount	\Plan Item REVO
4	URD-22	Functional	Msiddique	Associate Discount	\Plan Item REVO
5	URD-24	Functional	Msiddique	Emergency Deployment Discount	\Plan Item REVO
6	URD-28	Functional	Msiddique	Credit Discount	\Plan Item REVO
7	URD-35	Functional	Msiddique	Model Year Rating And Vehicle Age Rating	\Plan Item REVO
8	URD-45	Functional	Msiddique	Excess Vehicle Discount	\Plan Item REVO
9	URD-46	Functional	Msiddique	Vehicle Count Discount	\Plan Item REVO
10	URD-50	Functional	Msiddique	FCRA Notices	\Plan Item REVO
11	URD-52	Functional	Msiddique	Converting Current Book to New Rating Structure	\Plan Item REVO

#### Preparation

- Written requirements in MS Excel as shown above
- Install Quality Center MS Excel add-ins from add-in page

### Export Requirements from Excel

- I. Open the requirement file in Excel
- 2. Highlight the requirements you want to export to QC
- 3. Select Tools> Export to Quality Center
- 4. Enter the Quality Center URL
- 5. Click Next and enter your user name and password
- 6. On the next screen, enter the domain and project name.
- 7. Select "Requirement" radio button, and click Next
- 8. Select or Type a new map name from the window
- Select the requirement type

# Map Requirement to QC

# Modifying Requirements

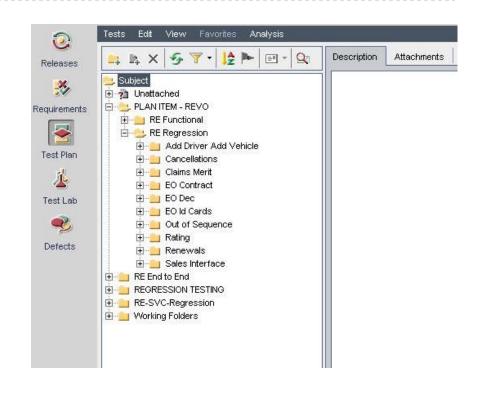
# Assign to a Release

# Working with Test Plan

**HP Quality Center** 

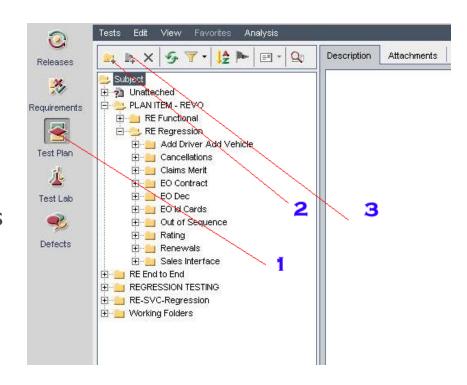
#### Introduction

- Quality Center Test Plan section is dedicated to have test cases.
- Test Plan section offers the followings
  - Develop test cases
  - Export existing test cases
     written in MS Word or Excel.
  - Modify/ Update test cases
  - Export test cases to excel or word
  - Requirement Coverage



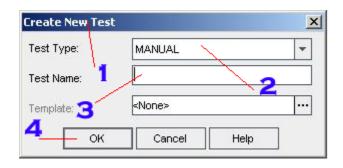
### Develop a Test Case – Create Folder

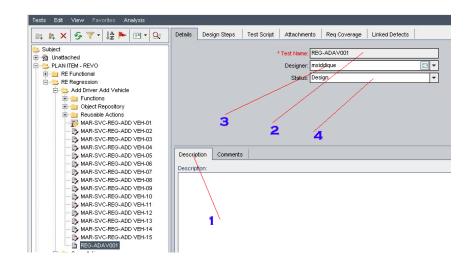
- To develop a test case in Test Plan section follow the following steps
  - Click on the Test Plan icon from the left sidebar (1)
  - Create a Folder/ Sub-folder as necessary by clicking New Folder icon (2)
  - Create a New Test clicking "New Test" icon (3)



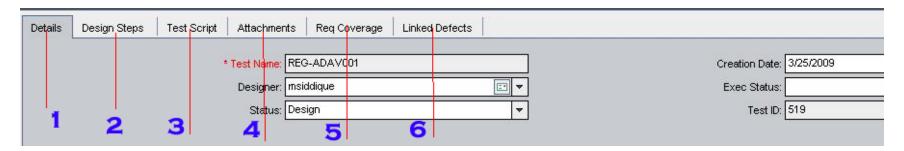
### Develop a Test Case -Cont'd

- Clicking on New Test icon will open Create New Test dialog box.
- Enter the test name on the Test Name edit box, and click OK
- Enter test case description in the Details tab
- Set the following fields
  - Designer
  - Status, and
  - Creation Date





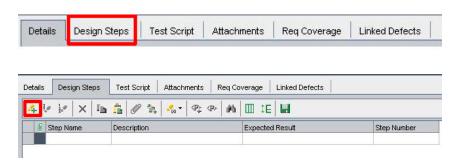
### Explore Test Plan Toolbar

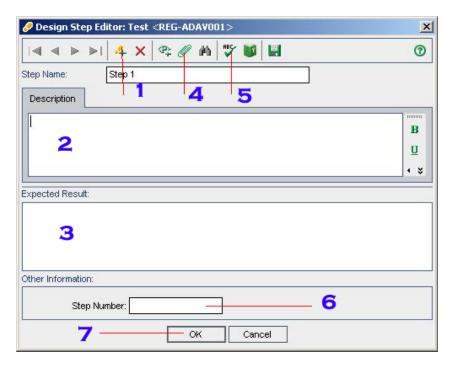


- Details:
- Design Steps:
- ► Test Scripts:
- Attachment:
- Req Coverage:
- Linked defect:

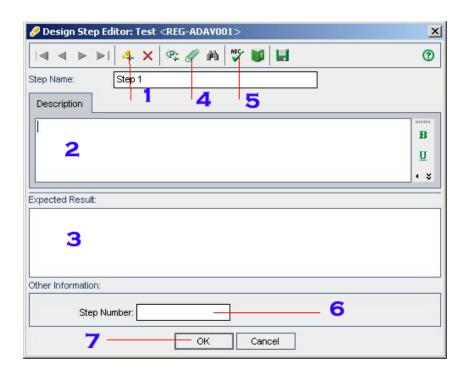
### Develop a Test Case –Design Step

- To write a test case click on the design steps tab
- From the Design Step toolbar click on the "Add Step" icon
- Enter the description, and Expected results.
- You may add more steps clicking on "Add Steps" icon or click on OK button to complete this.
- You may add new steps any time starting over from the second step.

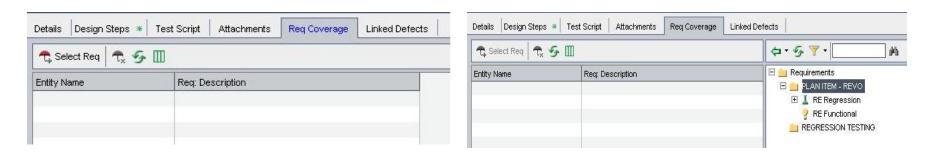




### Design Step -Cont'd

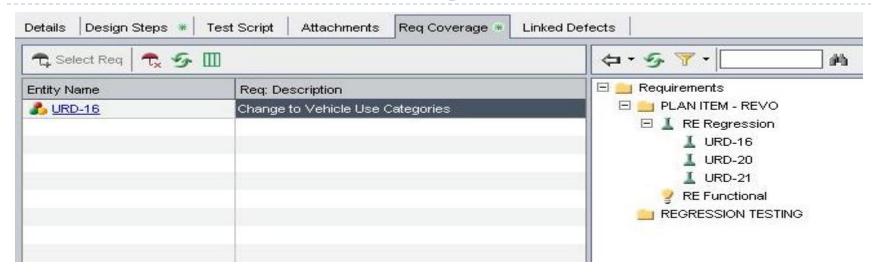


#### Requirement Coverage



- Requirement coverage links a requirement to the corresponding test cases.
- To perform Requirement Coverage, follow the steps below
  - Click on Req Coverage Tab from Test Plan
  - Click Select Req icon
  - Select the Requirement from the right side tree

### Requirement Coverage



Add all the requirements covered by the test case

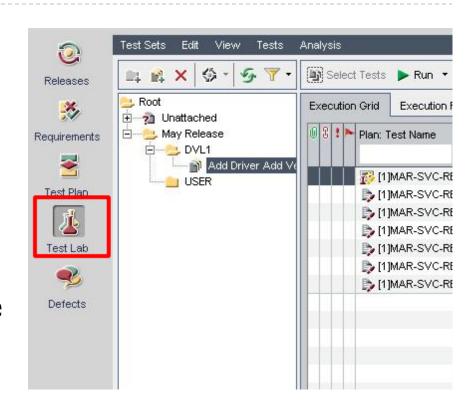


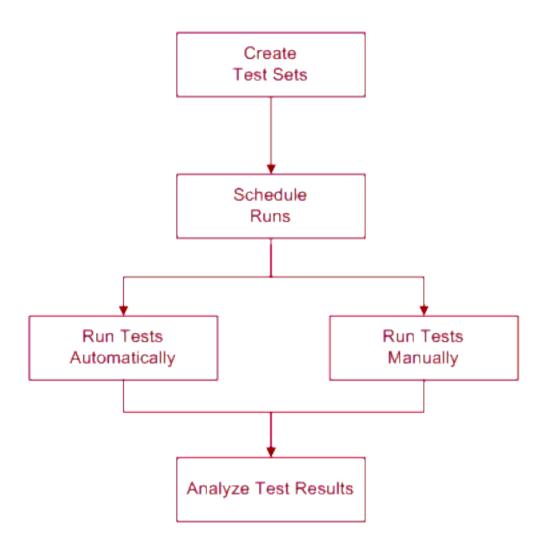
# Working with Test Lab

**HP Quality Center** 

#### Test Lab Introduction

- Quality Center Test Lab section is developed to execute Manual and Automation test cases.
- Test Lab helps to organize test case execution
- Application Defects can be submitted from Test Lab which does not fit Geico's process until today.

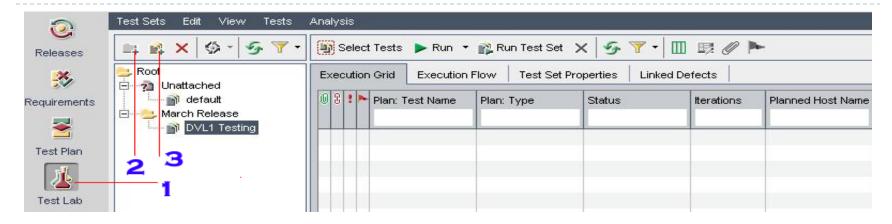




# Test Lab Work Flow

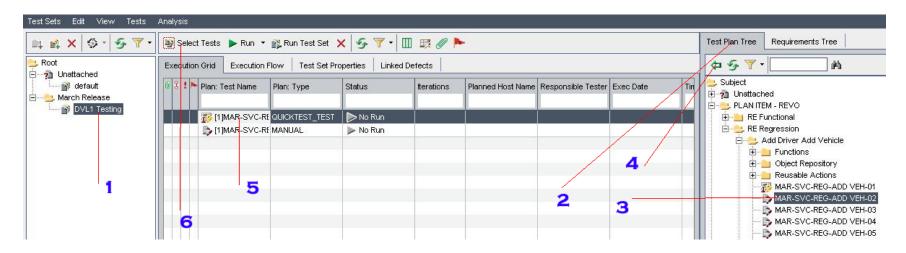
- . Create Test Sets:
- 2. Schedule Runs
- 3. Run Tests Automatically
- 4. Run Tests Manually
- 5. Analyze Test Results

#### Create Test Sets



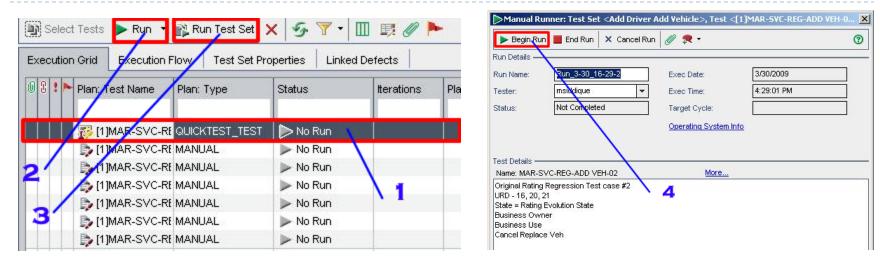
- Click on the Test Lab icon from the left side in Quality
   Center (1)
- Create folders by clicking "New Folder" icon (2)
- Enter the name of the folder, and click "OK"
- Select the folder, and click on the "New Test Set" (ALT+N) to create a new test. (3)

#### Schedule Tests



- Add tests to the test sets selecting from the right side
- The test lab folders could be arrange by the releases, and test sets could be arrange by environments and specific functional areas

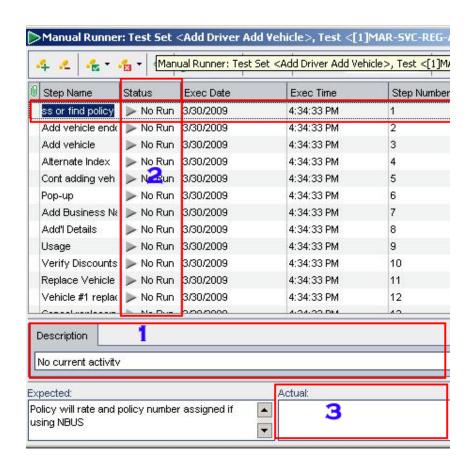
#### Run Tests Manually



- ▶ Test Lab section can be used to run a manual test case. You may run test cases one by one or the total test suite
- To execute a test case, select the test case (I) and click on the "Run" icon (2) or to run the entire test suite choose "Run Test Suite" icon (3)
- This will bring Manual Runner window, and you have to click on the "Begin Run" button (4).

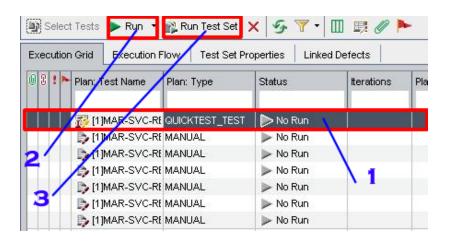
### Manual Execution - Recording Steps

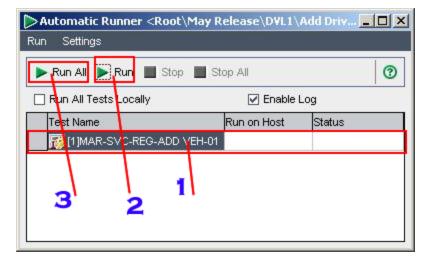
- Follow the steps(1), execute and record the results (2)
- Enter Actual Results on the Actual edit box (3)
- Change the status to Pass or Fail under Status Column (2)
- After completing all the steps, click ......



#### Run Tests Automatically

- You may run test cases one by one or the total test suite
- To execute a test case, select the test case and click on the "Run" icon or "Run Test Suite" icon
- From the Automatic Runner Window:
  - Click Run to execute single script
  - Choose Run All to execute all the test scripts





# Analyze Test Results

# Working with Defects

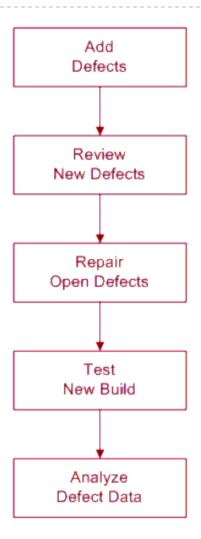
**HP Quality Center** 

#### Introduction

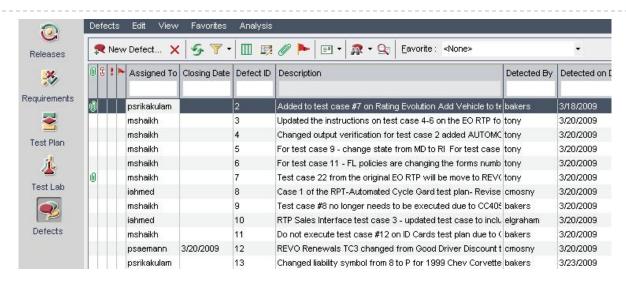
- Defect Management is performed in HP Quality Center
- Defects can be logged from the Defect section or Test
   Lab section while executing test cases
- Defects that are found during test case execution must be logged from Test Lab section to establish traceability between the defects and the test case. This also populates additional information from the test case into the defect that would otherwise not be available.

#### Work Flow: Defects

- Add Defects:
- Review New Defects:
- Repair Open Defects:
- ▶ Test New Build:
- Analyze Defect Data:



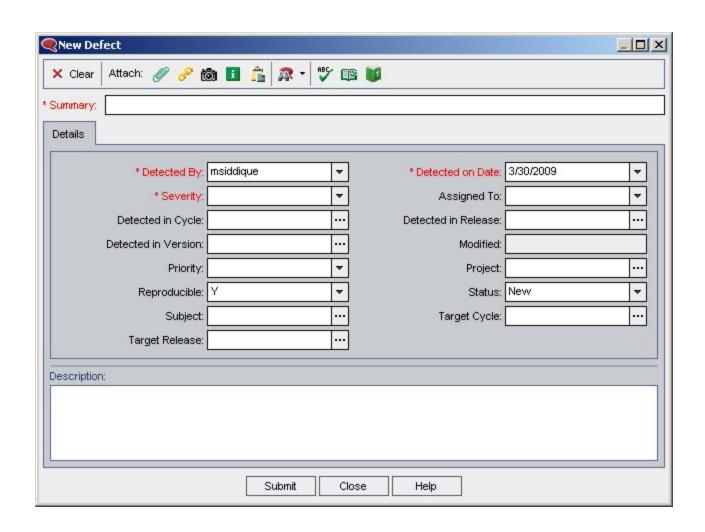
#### Add Defects



- To start Defect section, click on the Defect icon from the left sidebar in Quality Center (QC)
- Click on "New Defect" button or Press ALT+N which brings the New defect submission window.

#### Add Defect - Cont'd

- Enter defect details on the New Defect windows.
- Red labeled fields are mandatory.
- Assign the defects to appropriate user.
- Click Submit button to add the defect.

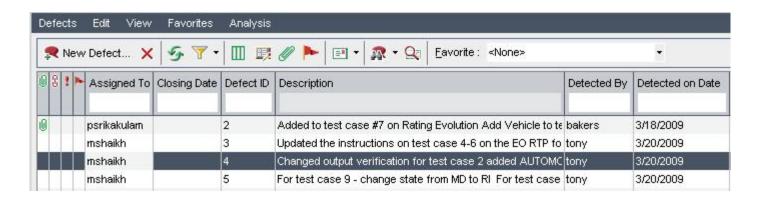


### Defect Life Cycle

- New
- Open
- Fixed
- ▶ Re-open
- Rejected

#### Review New Defects

#### Customize Defect View



- Filter/Sort:
- Select Columns:
- Defect Details:
- Attachments:
- Flag for follow up:
- Send Email:
- Find similar defects:

# Working with Dashboard

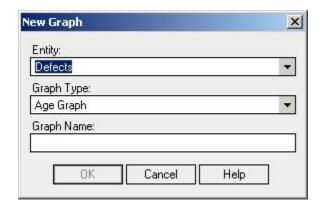
Real time Reporting

#### Dashboard Module

- In the Dashboard module, you create, view and manage graphs, standard reports, and Excel reports, for analyzing Quality Center data.
- The Dashboard module includes two tabs: The Analysis View tab and the Dashboard View tab.
  - The Analysis View tab contains a tree in which you organize all of your analysis items. Analysis items can be any of the following analysis types: graphs, standard reports, and Excel reports.
  - The **Dashboard View** tab contains a tree in which you organize dashboard pages. In **Dashboard pages** you arrange multiple graphs that you created in the analysis tree, and display them in a single view.

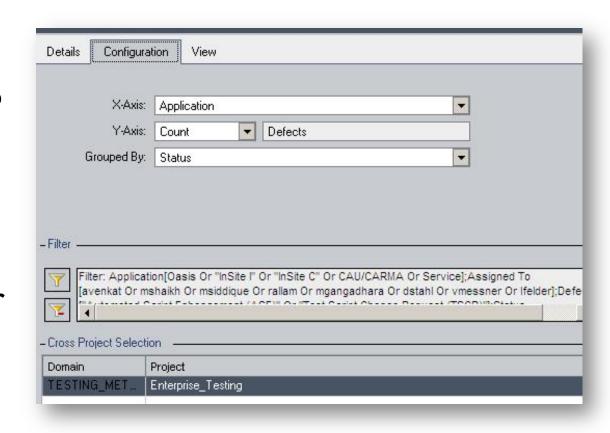
#### Creating Graphs

- In the Dashboard module, click the **Analysis View** tab.
- In the analysis tree, select the folder under which you want to add a graph.
- Click the **New Item** button, and select **New Graph**. The New Graph dialog box opens.
- Under Entity, select the entity for which you want to create a graph.
- Under Graph Type, select the type of graph you want to create. For more information on graph types, see Quality Center Graph Types.
- Under Graph Name, type a name for the graph.
- Click **OK**. The graph is added to the analysis tree.
- Click the **Details** tab.
- Under Entity, select the entity for which you want to create a graph.
- Under Graph Type, select the type of graph you want to create. For more information on graph types, see Quality Center Graph Types.
- Under Graph Name, type a name for the graph.
- Click **OK**. The graph is added to the analysis tree.
- Click the **Details** tab



#### Configuring Graphs

- In the analysis tree, select the graph you want to configure.
- Click the Configuration tab.
- To apply a filter or cross-filter to the graph content, click the Set Filter button .



#### Quality Center Graph Types

- Quality Center enables you to generate graphs for the following module
  - Requirements,
  - ▶ Test Plan,
  - ▶ Test Lab, and
  - Defects
- For each module, different graph types are available

### Requirements Module Graphs

Gra	ıph	Description
Requirements - Graph	Summary	Shows how many requirements are currently in a Quality Center project. For more information, see Requirements - Summary Graph.
Requirements - Graph	Progress	Shows how many requirements accumulated in a Quality Center project at specific points during a period of time. For more information, see Requirements - Progress Graph.
Requirements -	Trend Graph	Shows the history of changes to specific requirement fields in a Quality Center project, for each time interval displayed. For more information, see Requirements - Trend Graph.
Requirements - Graph (Available from the module only.)		Shows how many requirements are currently in a Quality Center project, according to their test coverage status. For more information, see Requirements - Coverage Graph.

### Test Plan Module Graphs

Graph	Description
Test Planning - Summary Graph	Shows how many tests are currently in a Quality Center project. For more information, see Test Planning - Summary Graph.
Test Planning - Progress Graph	Shows how many tests accumulated in a Quality Center project at specific points during a period of time. For more information, see Test Planning - Progress Graph.
Test Planning - Trend Graph	Shows the history of changes to specific Test Plan fields in a Quality Center project, for each time interval displayed. For more information, see Test Planning - Trend Graph.

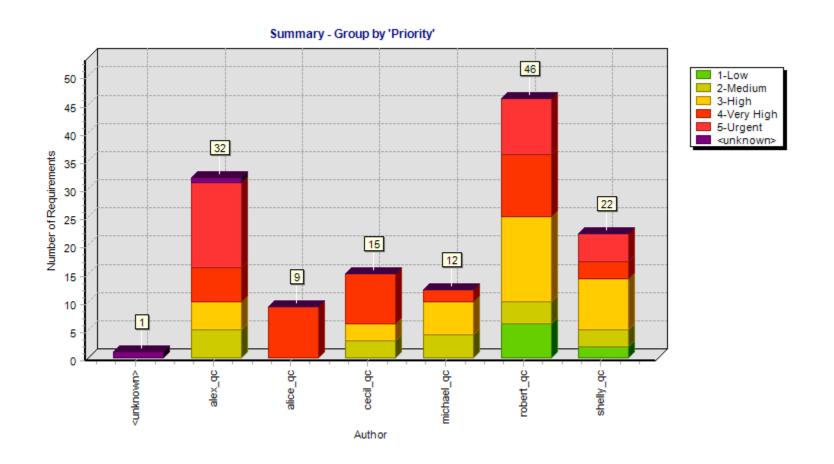
### Test Lab Module Graphs

Graph	Description
Test Execution - Summary Graph	Shows how many tests in a Quality Center project belong to the current test set, or to all test sets. For more information, see Test Execution - Summary Graph.
Test Execution - Progress Graph	Shows how many tests accumulated in the current test set, or in all test sets, at specific points during a period of time. For more information, see Test Execution - Progress Graph.

### Defects Module Graphs

Graph	Description
Defects - Summary Graph	Shows a summary of the number of defects in a Quality Center project, or the estimated/actual amount of time taken to fix these defects. For more information, see Defects - Summary Graph.
Defects - Progress Graph	Shows the accumulation of defects in a Quality Center project, or the estimated/actual amount of time taken to fix these defects, at specific points during a period of time. For more information, see Defects - Progress Graph.
Defects - Age Graph	Shows the lifetime of defects in a Quality Center project. For more information, see Defects - Age Graph.
Defects - Trend Graph	Shows the history of changes to specific defect fields in a Quality Center project, for each time interval displayed. For more information, see Defects - Trend Graph.

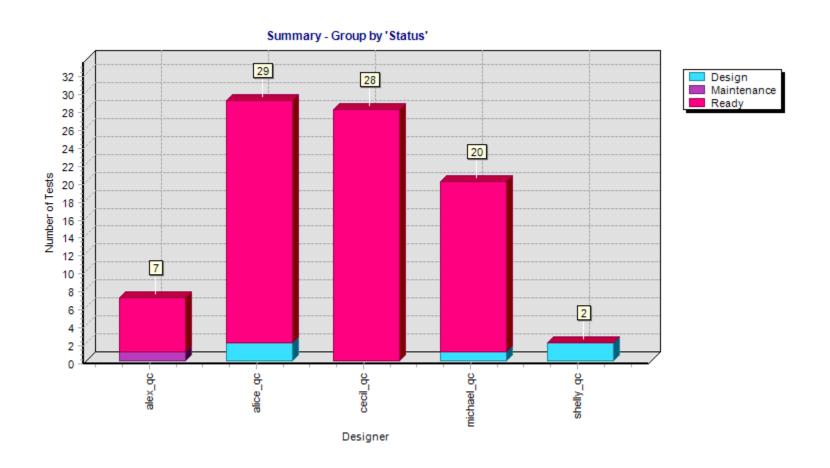
### Requirements - Summary Graph



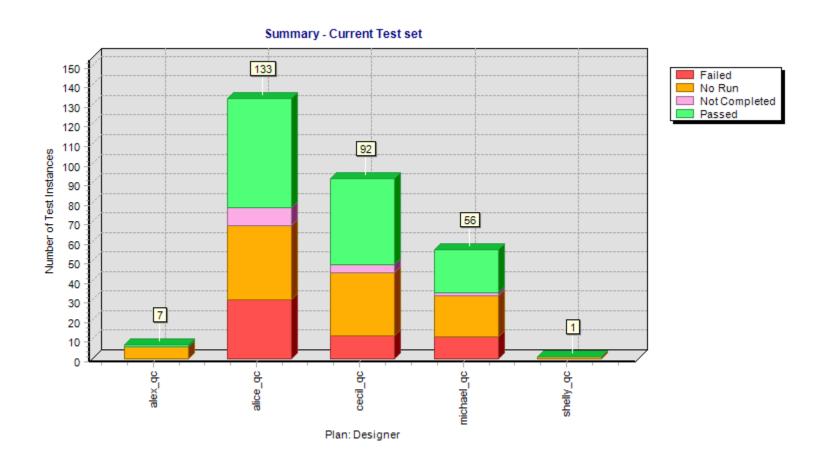
### Requirements - Coverage Graph



### Test Planning - Summary Graph



### Test Execution - Summary Graph



## Defects - Summary Graph

