Testkit-Manager User Guide

Contents

1.   Overview

Testkit-Manager, a Graphical User Interface (GUI) front-end in browser, manages auto test cases execution remotely and provides unified web UI to help manual tests execution.

Testkit-Manager has the following features:

- You can filter test cases as per their property value, including architecture, version, category, priority, status, execution type, test suite, type, test set, and component. After that, you can view the detailed information of the test cases.
- You can save the detailed test case information as a profile, and load, delete, or execute the profile.
- You can install, update, and delete test case packages.
- You can execute both auto test cases and manual test cases as well as add test result to manual test cases.
- After executing test cases, Testkit-Manager generates a report automatically. After that, you can view, compare, delete, submit, and export the report.

2.   Building Test Case

To build a test case, perform the following steps:

1. 'git clone git@github.com:testkit/testkit-manager.git'
2. 'cd testkit-manager; ./autogen; ./configure; make; make install'
3. Download WebAPI test suite by git clone ssh://username@tizendev.org:29418/test/webapi.git.
4. Build and install the WebAPI test suite.

3.   Customizing Tests

3.1 Filtering Test Cases

You can filter test cases according to their property values:

①Architecture	②Version	③Category	④Priority	⑤Status
⑥Execution Type	⑦Test suite	⑧Type	⑨Test set	⑩Component

To filter test cases, perform the following steps:

1. Log in to **http://localhost:8899**.

2. Click the **CUSTOM** tab. The tab page refreshes, displaying **Architecture**, **Version**, and **Advanced** on top, as shown in Figure 3-1.
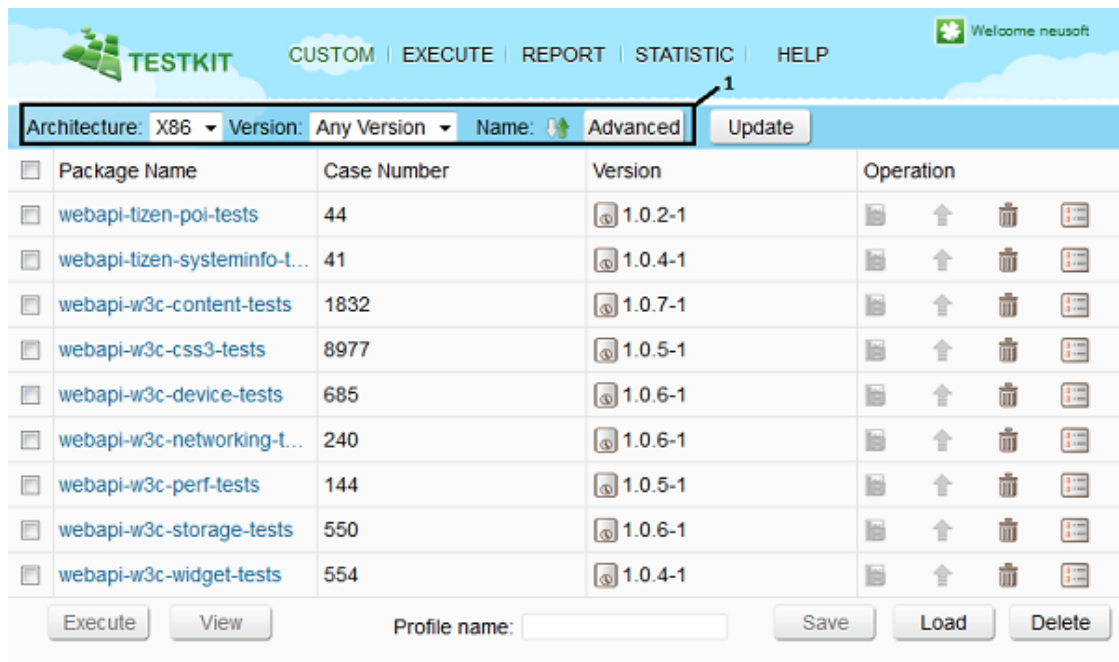
Figure 3-1 CUSTOM tab page

3. Click **Advanced**. Options display, as shown in Figure 3-2.
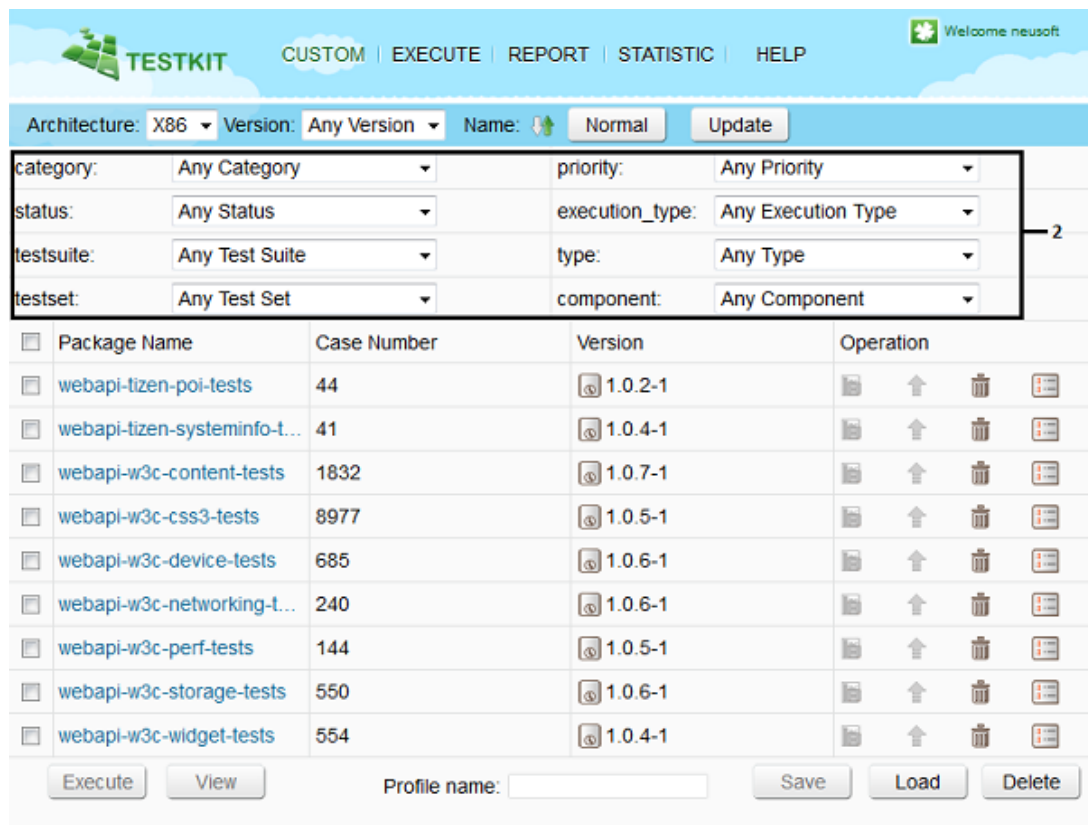

Figure 3-2 Options

4. Take the **category** and **priority** options for example.

Note: Assume that all the 10 options' value are initial values "Any ***". All the installed test case packages display.

(1). Select **Netbook** from the **category** checkbox.

The test case packages display, which include test cases whose category is Netbook, as shown in Figure 3-3.

Figure 3-3 Test case packages (1)

(2). Select **P1** from the **priority** check box.

The test case packages display, which include the test cases whose category is Netbook and whose priority is P1, as shown in Figure 3-4.

Figure 3-4 Test case packages (2)

Note: You can select other options in the same way. All the required test case packages display.

5. Select a test case package to test, as shown in Figure 3-5.
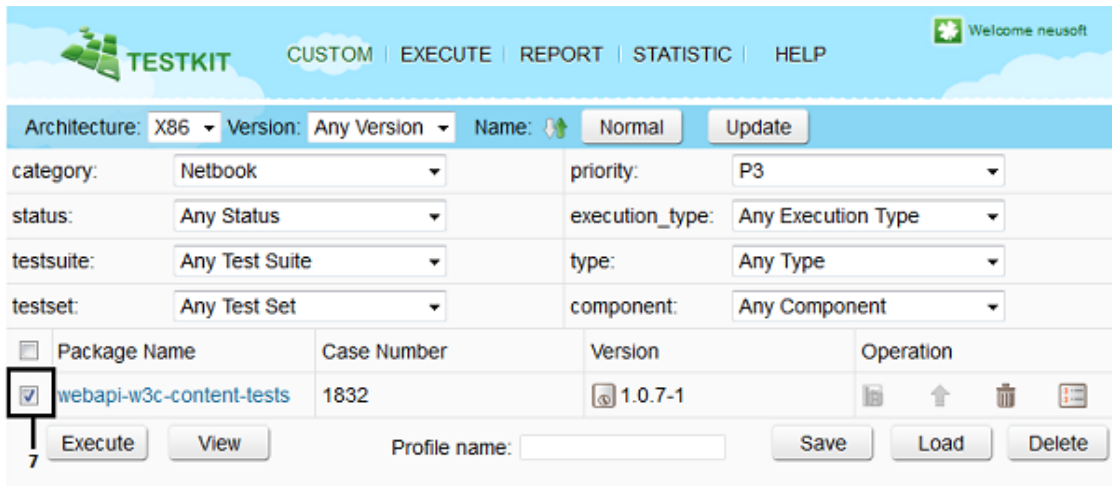
Figure 3-5 Selecting a test case package

3.2 Using Profile

A profile saves the information of filtered test cases for future test. You can load, execute, or delete a profile.

3.2.1 Saving Profile

To save a profile, perform the following steps:

1. Filter test case packages. For details, section 3.1.

2. Enter the **Profile name**.

Note: The "auto search" function is added for this context. After a profile name is entered, the function will automatically search files under **//***/testkit-manager/profiles/test/** to check whether the profile name exists.
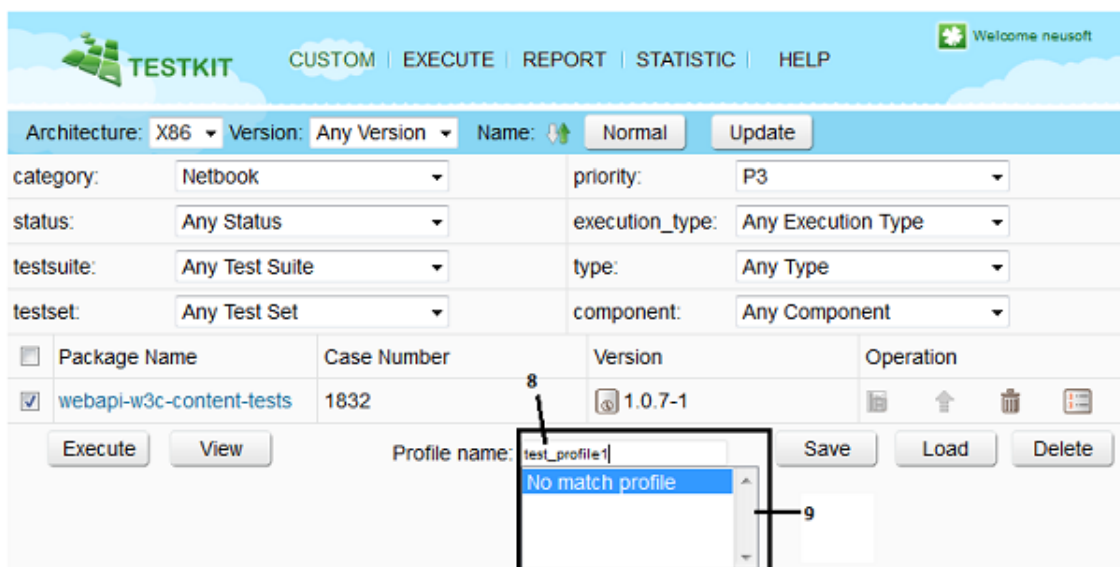
Figure 3-6 Entering the profile name (1)

3. If the "auto search" function shows "No match profile", as shown in Figure 3-6, click **Save**.

The profile is saved under **//***/testkit-manager/profiles/test/**.

Figure 3-7 Entering the profile name (2)

4. If the "auto search" function shows the matched profile name, it indicates that there have been profiles whose name is similar to or the same as the entered profile name, as shown in Figure 3-7.

   Click **Save**. A dialog box pops up, reading "Profile: <profile name input> exists, Would you like to overwrite it?"
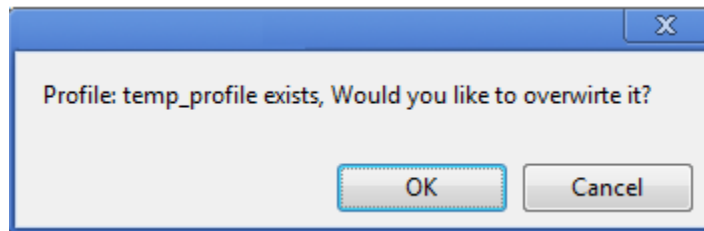
Figure 3-8 Confirmation dialog box (1)

● Click **OK**.➜ The profile **temp_profile** overwrites the existing one.

● Click **Cancel**.➜ The profile **temp_profile** is not saved.

Note:

Do not leave **Profile name** blank. If you click **Save** without entering a profile name, an alert pops up, reading "Please, specify the profile name!". Click **OK**.
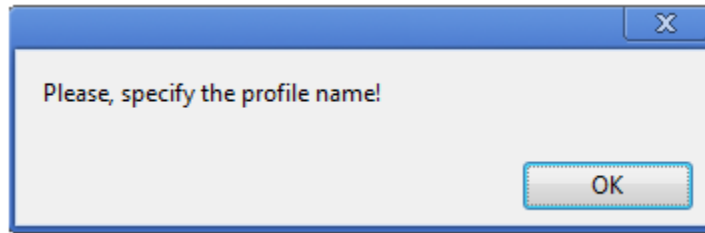
Figure 3-9 Confirmation dialog box (2)

3.2.2 Loading Profile

Enter the profile name and click **Load**, as shown in Figure 3-10.
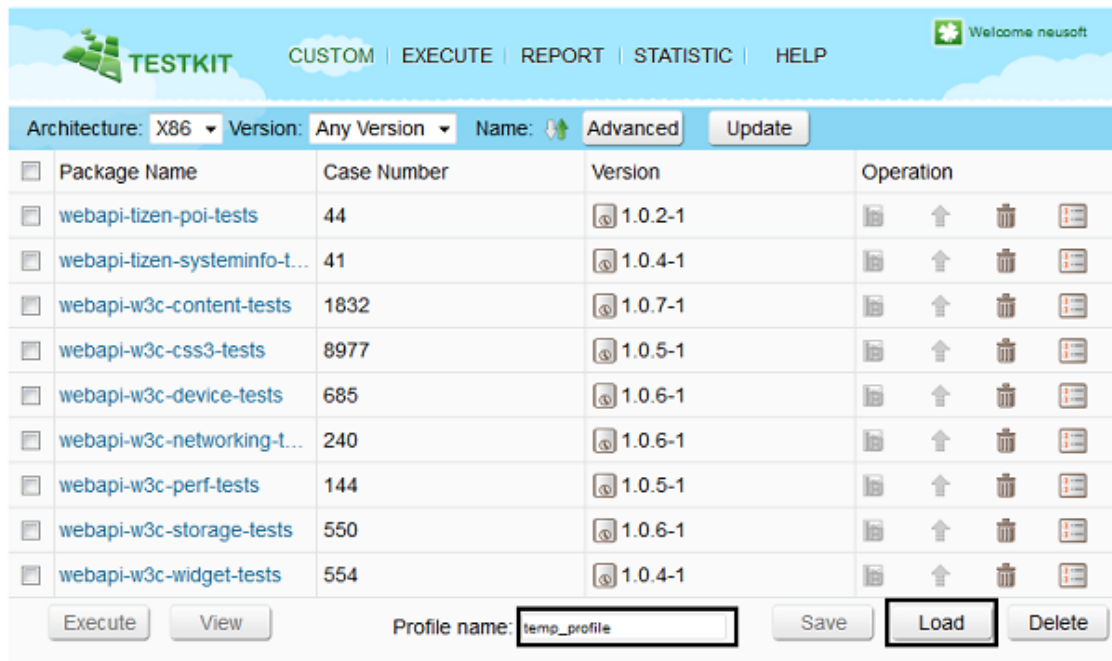
Figure 3-10 Loading profile

The profile **temp_profile** is loaded, as shown in Figure 3-11.

Figure 3-11 Profile loaded

Notes:

1. If the "auto search" function shows the matched profile name, it indicates that there have been profiles whose name is similar to or the same as the input profile name. Select a profile and click **Load**. The profile is loaded and the page automatically refreshes.

2. Do not leave **Profile name** blank. If you click **Save** without entering a profile name, an alert pops up, reading "Please, specify the profile name!"

3. After a profile is loaded:
● If all the eight options' values under the **Advanced** tab are "Any ***", the page refreshes without displaying the eight options.
   If one of the eight options has values such as category="Netbook", the page refreshes with the eight options displayed.

3.2.3　Deleting Profile

To delete a profile that has been saved, perform the following steps:

1. If the "auto search" function shows "No match profile", click **Delete**. An alert pops up, reading "Does not exist profile: <the profile input>!"

2. If the "auto search" function shows the matched profile name, it indicates that there have been profiles whose name is similar to or the same as the input profile name. Select a profile and click **Delete**. One confirmation dialog box pops up.

3.2.4　Executing Profile

● Execute an existing profile:

1. Type the profile name and click **Load**.

   The profile is loaded and the page automatically refreshes.

2. Click **Execute**. The page refreshes and the profile is executed.

● Execute a temporary profile:

1. Select a test case package. For details, see section 3.1.

2. Click **Execute**. The page refreshes and the profile is executed.

3.3 Useful Features
3.3.1 Viewing Test Case Information
To view test case information, perform the following steps:

1. Click **view**. The page refreshes, as shown in Figure 3-12.

Figure 3-12 Test case information

2. Click the test case name. The detailed test case information displays in the right pane of the page.

3.3.2   Sorting Test Case Packages

Click the ⬍ icon. The test case packages are sorted.

Note: You can click the ⬍ icon again. The test case packages are reversely sorted.

Figure 3-12 shows the details.

Figure 3-13 Sorting test case packages

3.3.3 Deleting Test Case Package

Click the 🗑 icon, as shown in Figure 3-14.

Figure 3-14 Deleting test case package

A dialog box is displayed, asking for your confirmation. Click **OK**.

3.3.4   Listing Test Case Package Information

Click the test case package name. The detailed information displays, as shown in Figure 3-15.

Figure 3-15 Detailed test case package information

3.3.5   Update package list from repo

Click Update button ,testkit-manager will scan package list from repo, and list all the packages that not installed , we can click install icon to install these packages. At the same time, if there are newer version for the package which has been installed from repo, the update icon for this package will be enabled.We can click update icon to update this package to the latest version, as shown in Figure 3-16.

Figure 3-16 Update package list from repo

4. Executing Test Cases

4.1 Executing Auto Test Cases

You can use either of the following two ways to execute test cases:

- Filter test cases or load profile (with auto test cases), and click **Execute** on the **CUSTOM** page.
- Select a profile and click **Execute** on the **EXECUTE** page.

The profile runs with log. When the profile finishes running, a test report generates automatically.
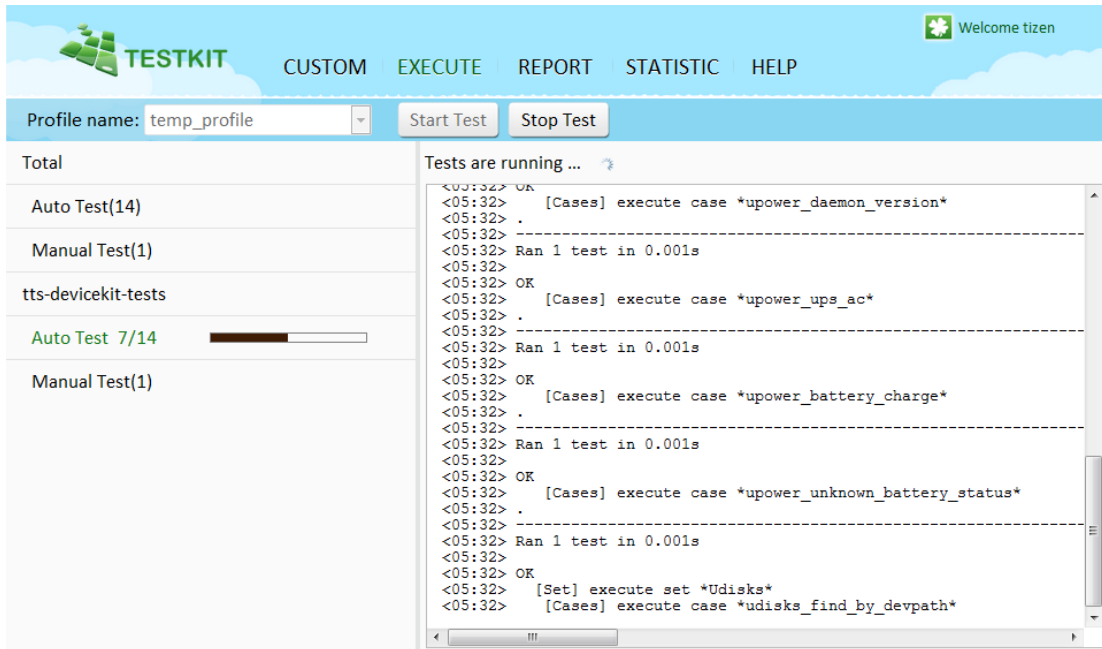

Figure 4-1 Auto test report

Then, the **REPORT** page refreshes and displays, as shown in Figure 4-2.
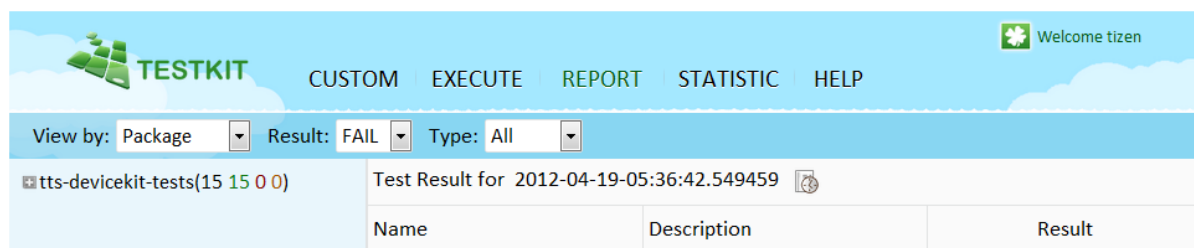

Figure 4-2 Refreshed **REPORT** tab page (1)

4.2 Executing Manual Test Cases

When the profile (with manual test cases) finishes running, the page refreshes, as shown in Figure 4-3. Then, you can add the result of manual test cases:

Figure 4-3 Manual test cases

✓ Click **Manual Test**. All the manual test cases display on the right pane of the page.

✓ Run the test cases manually, obtain the results, and then select **PASS**, **FAIL**, or **N/A** for the test results.

✓ Click **SAVE**.

✓ Click **FINISH** to complete the execution.

After that, the page refreshes, as shown in Figure 4-4.
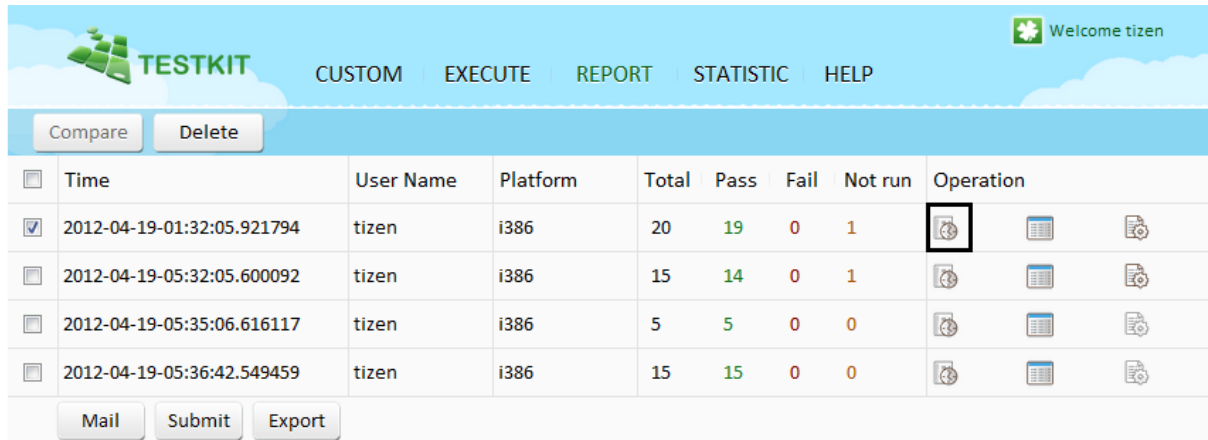
Figure 4-4 Refreshed **REPORT** tab page (2)

5. Viewing Report

5.1 Viewing Summary Reports

Click the ![icon] icon to view summary reports, as shown in Figure 5-1.
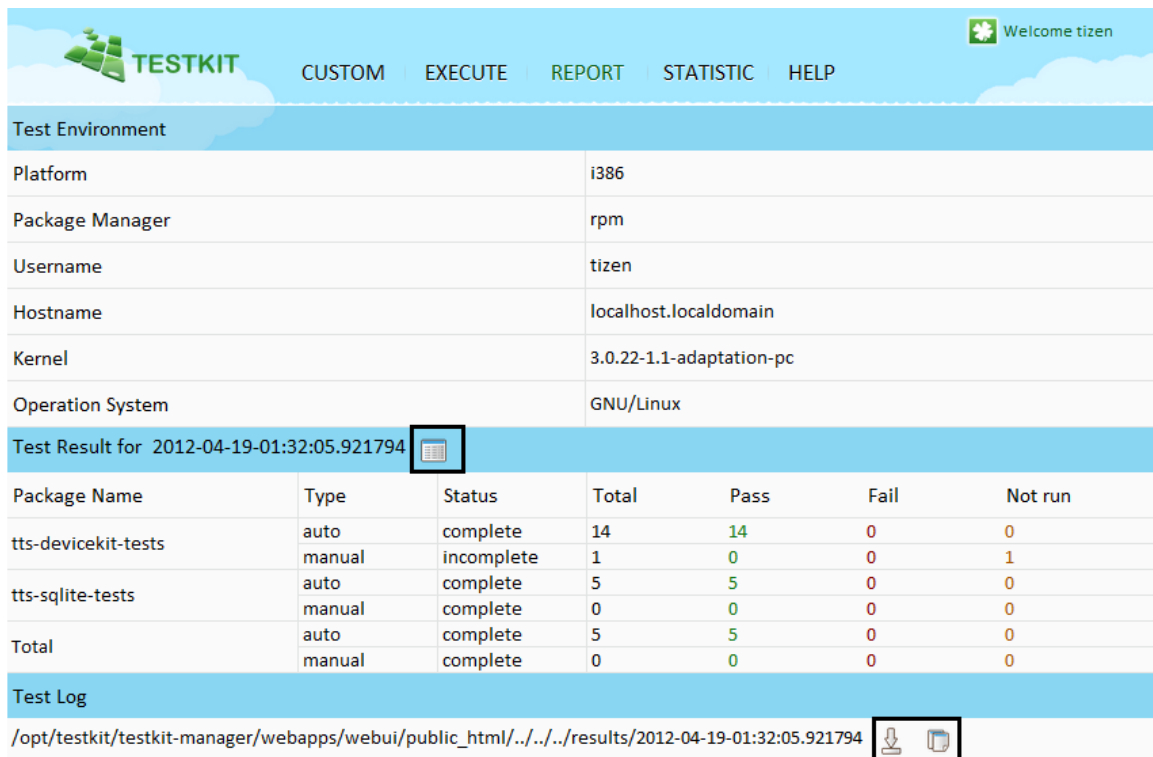
Figure 5-1 Summary reports

The page refreshes, as shown in Figure 5-2.

Figure 5-2 Refreshed **REPORT** tab page (3)

You can view summary information, including:

● Test environment

- Total number of test cases
- Number of passed, failed, and blocked test cases
- Test log
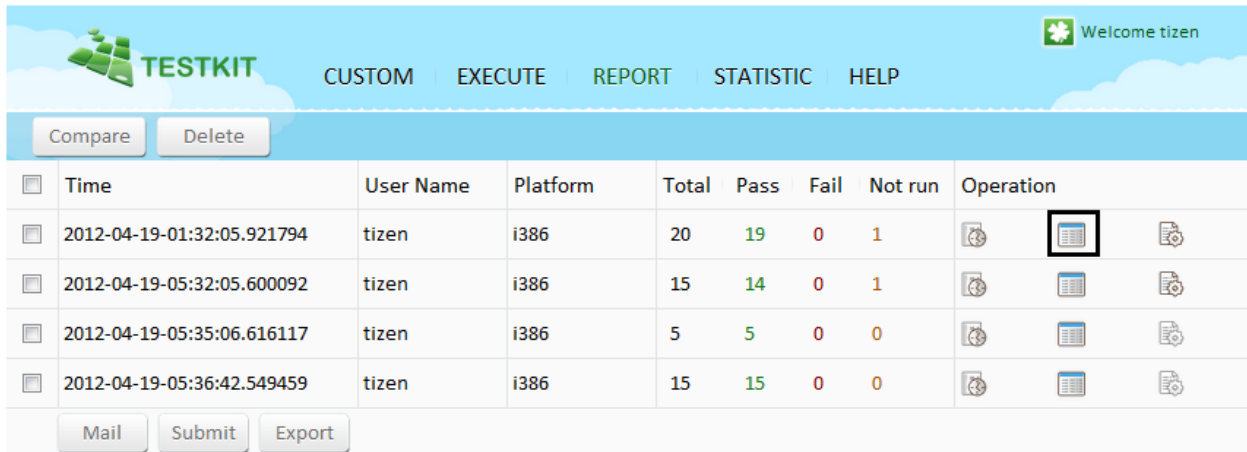
You can also click:

✓ [icon] to view detailed reports

✓ [icon] to download consolidated log

✓ [icon] to copy uniform resource locator (URL) to clipboard and paste it anywhere

5.2 Viewing Detailed Reports

To view detailed reports, perform the following steps:

1. Click [icon], as shown in Figure 5-3.
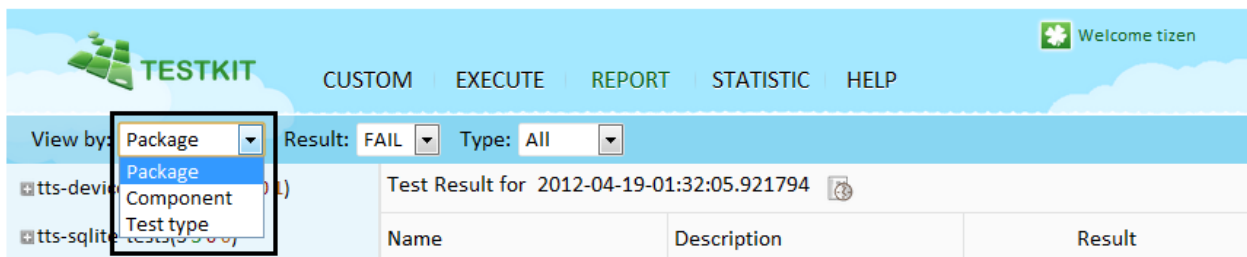
Figure 5-3 Viewing detailed reports

The page refreshes, as shown in Figure 5-4.

2. Select **Package** from the **View by:** drop-down list box.

Note: You can view the detailed reports by "Packages", "Component", or "Test type". The following steps use "Packages" as an example.

Figure 5-4 Filtering detailed reports

3. Filter a test report by selecting **Result** and **Type**, as shown in Figure 5-5.
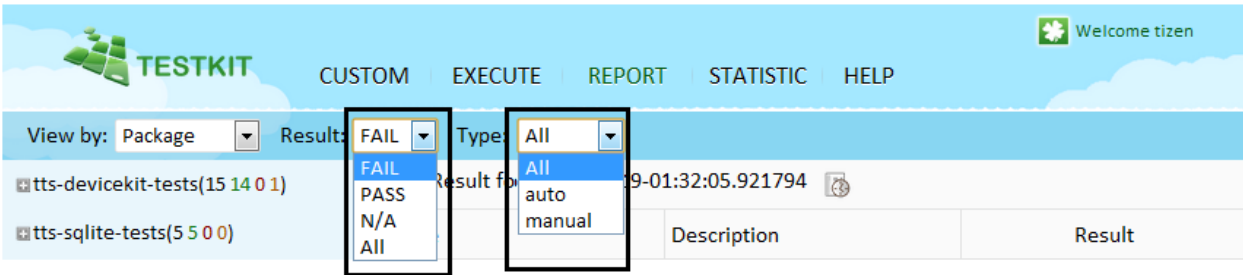
Figure 5-5 Filtering a test report

4. Click the test case name to view its detailed information. Or, Click [icon] to view summary report.

Figure 5-6 Detailed test case information
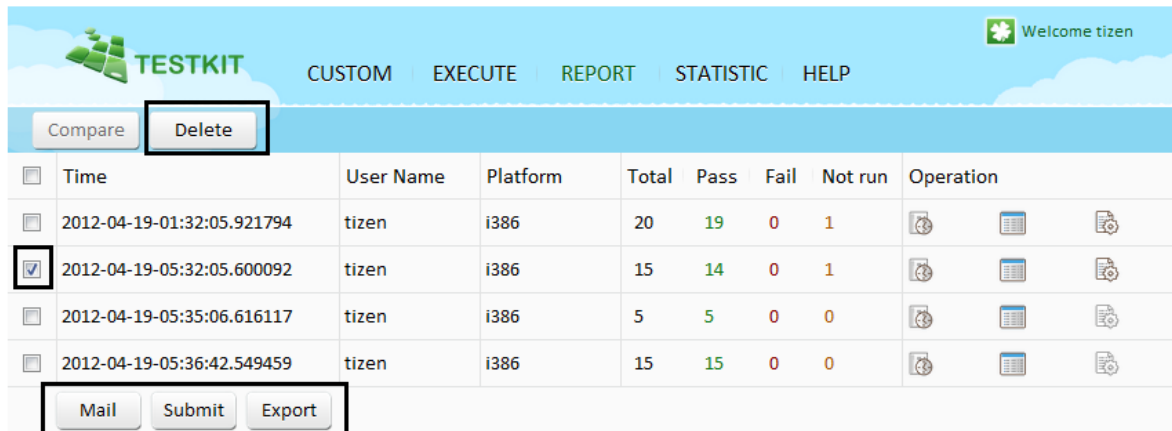
5.3 Useful Features

5.3.1 Submitting Report

To submit a test report to QA test tools, perform the following steps:

1. Log in to **http://localhost:8899/**.

2. Click the **REPORT** tab.

The **REPORT** tab page displays, as shown in Figure 5-7.
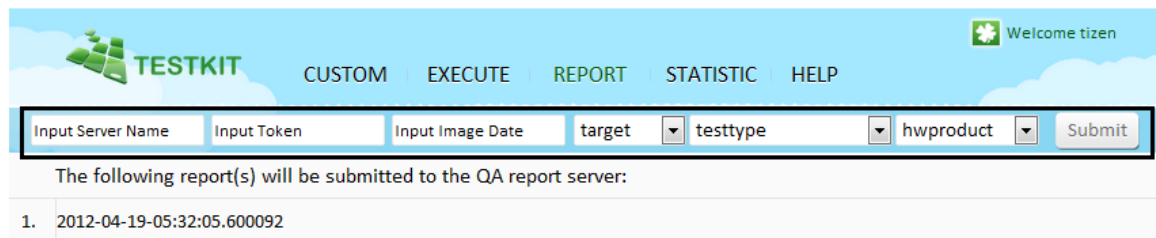
Figure 5-7 Refreshed **REPORT** tab page (4)

3. Select one or multiple check boxes.

The buttons **Mail**, **Submit**, and **Export** become available.

4. Click **Submit**.

The page refreshes, as shown in Figure 5-8.

Figure 5-8 Refreshed **REPORT** tab page (5)

(1). Type server name in context **Input Server Name**.

(2). Type token in context **Input Token**.

Note: The token is a string which records account and password. You can obtain it after logging in to QA test tools.

(3). Type the report date in context **Input Image Date**.

Note: **%2E** is used to indicate ".". For example, type **20120319%2E5** for "20120319.5".

Figure 5-9 Refreshed **REPORT** tab page (6)

(4). Select values from the **target**, **testtype**, and **hwproduct** combo boxes, as shown in Figure 5-10.

Figure 5-10 Selecting a test report to submit

(5). Click **Submit**, as shown in Figure 5-11. The report is submitted to the QA test tools.

Figure 5-11 Submitting a test report

5.3.2 Deleting Report

To delete a test report, perform the following steps:

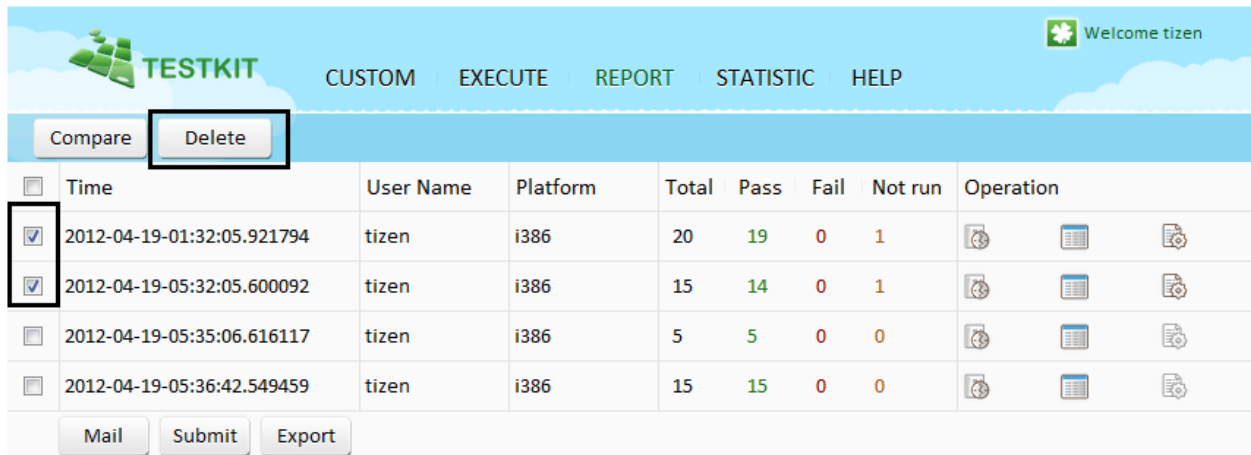1. Select one or multiple test reports, as shown in Figure 5-12.

Figure 5-12 Selecting test report(s) to delete

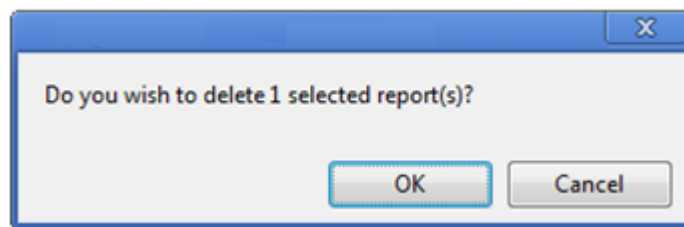2. Click **Delete**. An alert pops up, as shown in Figure 5-13.

Figure 5-13 Confirmation dialog box (3)

- Click **OK.➔** The report is deleted.
- Click **Cancel.➔** The report is not deleted.

5.3.3 Complete Report with Manual Test Cases

The test case packages include manual test cases whose results need to be submitted to the report manually.

As Figure 5-14 tells:

- If the number of "Not run" test cases is 0, the button becomes unavailable with the title "Execution Complete".
- If the number of "Not run" test cases is not 0, the button becomes available with the title "Continue Execution".

Figure 5-14 Manual test cases report

1. Click [icon] . The page refreshes, as shown in Figure 5-15. Then, you can select the result of manual test cases.

Figure 5-15 Selecting result of manual test cases

[icon] Caution: Use caution in the following step, for the result cannot be changed after it.

2. Click **FINISH** to refresh the **REPORT** tab page. The [icon] button becomes unavailable.