Web TCT Manager User Guide

Version 1.0, for Tizen 2.3

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1 Introduction

This document provides comprehensive information about Web TCT Manager, including an Overview, Installation Instructions, Operating Instructions, and Concluding Routines etc.

2 Overview

Web TCT Manager is a Graphic User Interface (GUI) and serves as a major component of Tizen Compliance Tests (TCT) tool set.

By providing a unified web UI, Web TCT Manager allows users to manage both automated and manual test execution, including the following:

- Save test case information as test plan, load and execute tests.
- Run both automated and manual test cases, and add test results to manual test cases.
- Automatically generates a report after executing test cases, user can view, rerun, resume, remove or export the report.

3 Prerequisites

Make sure you have these items in place before starting:

- One of the following Linux distribution versions is installed:
 - Ubuntu 12.04 (32-bit)
 - Ubuntu 12.04 (64-bit)
 - Ubuntu 12.10 (32-bit)
 - Ubuntu 12.10 (64-bit)
 - Windows 7 (32-bit)
 - Windows 7 (64-bit)
- Tizen capable devices with latest Tizen implementation (for example, M0 or Lunchbox) are available.
- The sdb software is correctly installed.
- The network environment is ready for getting dependency packages from a remote repository or internal mirror.
- There is a USB connection between the host and the target device.

- Enable "USB debugging" option in settings on target device
- Ensure the "unzip" command-line tool installed on target device.

4 Installing Web TCT Manager

Make sure the installation environment is ready before starting.

For detailed instructions, refer to chapter "Installing the TCT Tools" in the *Web TCT User Guide*.

5 Typical Usage

5.1 Showing a Test Plan

Test cases can be filtered according to the execution type: automated and manual.

The default test plan and all test cases will be selected when the plan UI is displayed, as shown in Figure 5-1.

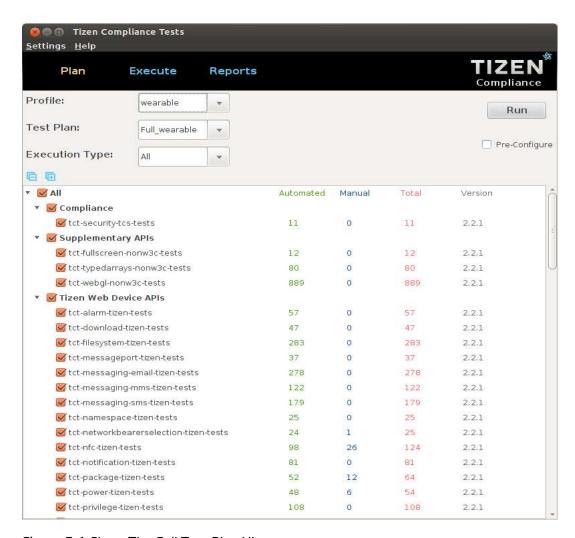


Figure 5-1 Show The Full Test Plan UI.

5.2 Creating/Saving a Test Plan

To create and save a test plan:

 Change the execution type (optional), or select the test packages and save in one test plan, as shown in Figure 5-2. Use the Package Name checkbox to check or uncheck all test packages.

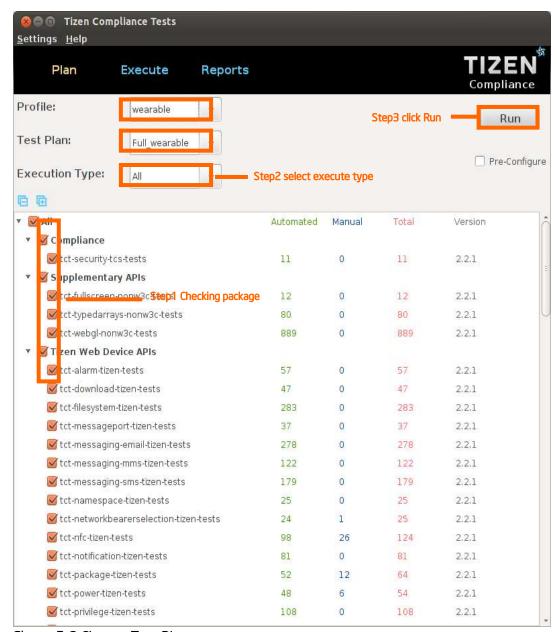


Figure 5-2 Change Test Plan

2. Click **Run** button and a dialog will pop up, as shown in Figure 5-3.

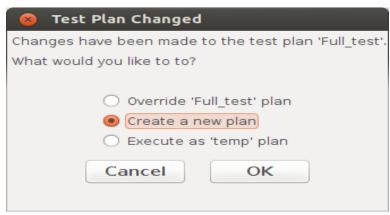


Figure 5-3 Prompt for Creating Test Plan

- 3. Select the item "Create a new plan" and click **OK** button to save a new test plan. Select the item "Override 'Full_test' plan" and click **OK** button, the original plan will be changed, and then run test plan. Select the item "Execute as 'temp' plan", this plan will be saved as a temp plan.
- 4. Select "Create a new plan" and click **OK** button, a dialog pops up where you can enter a new plan name, as shown in Figure 5-4. Enter a new plan and click **OK** button.

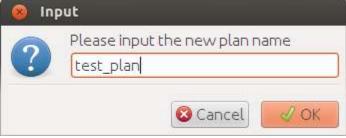


Figure 5-4 Create a New Test Plan

After enter the new plan name and click **OK** button, the Plan UI will switch to Execute UI and run the test plan, as shown in Figure 5-5.

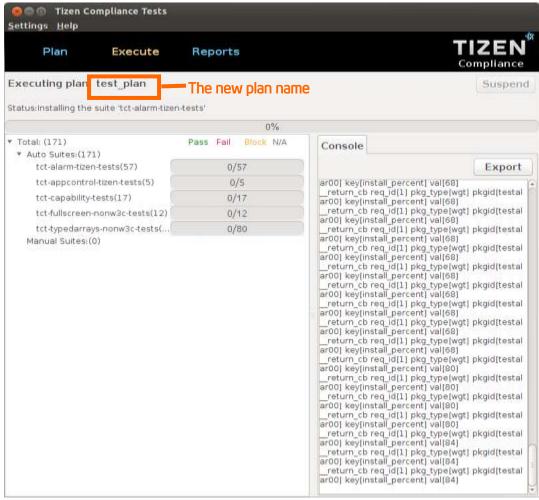


Figure 5-5 Execute a New Plan

5.3 Selecting a Test Plan

Select a plan, the packages in the plan will be selected. As shown in Figure 5-6

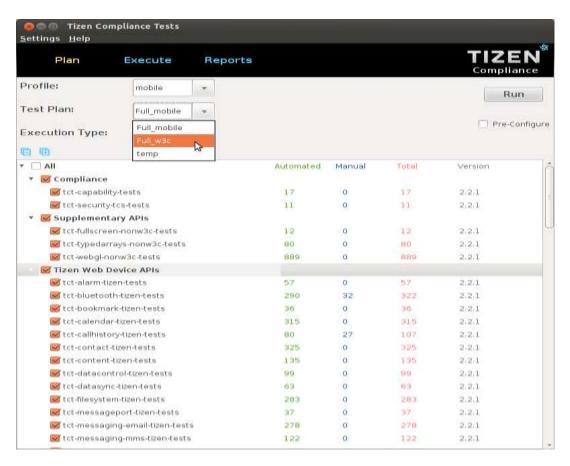


Figure 5-6 Select an Existing Plan

5.4 Running Test

To select a test plan:

- 1. Select an existing plan. For details, see section 5.3.
- 2. Click **Run** button on the Plan Ul. The dialog of health check will be displayed. For details, please refer to section 8.1.
- 3. The Pre-configure steps for TCT testing page appears (see Figure 5-7) if the test plan contains package that needs some pre-configure, after configuration, click **Continue** button to go to the Execute page. For details for pre-configure, please refer to section 8.2.

Note: If the checkbox of Default pre-configure is checked in plan UI, it will not show the pre-configure dialog to end user.

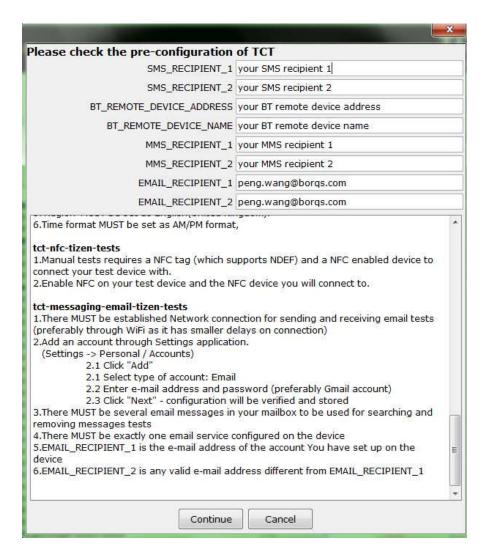


Figure 5-7 Showing Dialog of Pre-configure

5. Select **Continue** button, the UI will switch to Execute UI, as Figure 5-8.

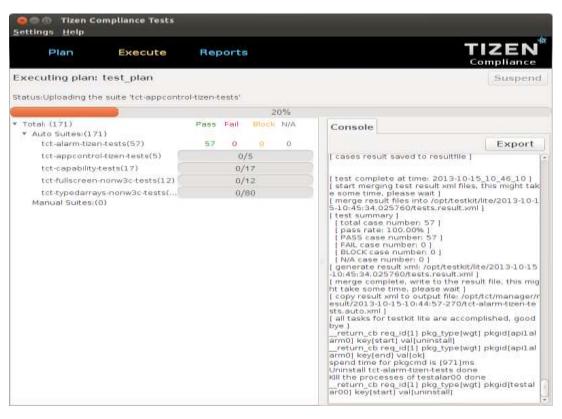


Figure 5-8 Execute UI

5.4.1 Running Automated Test

To execute automated test cases:

- 1. Select an existing plan. For details, see section 5.3.
- 2. Select Automated as the execution type.
- 3. Click Run on the Plan Ul.

When the Execute UI appears, the execution progress for automated packages will be shown in the progress bar, as shown in Figure 5-8.

5.4.2 Running Manual Test

To execute manual test cases:

- 1. Select an existing plan. For details, see section 5.3.
- 2. Select Manual as the execution type.
- 3. Click Run on the Plan Ul.

After click **Run** button, the packages for the Manual cases are executed, as shown in Figure 5-9.

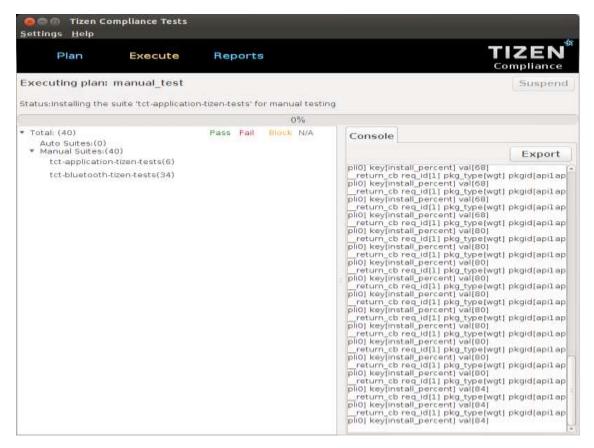


Figure 5-9 Executing Manual Test Cases

5.5 Stopping a Test

Click the suspend button in execute UI to stop executing the test plan.

After stopping a test plan, click icon of report UI to resume test.

For details, see section 6.4.

6 Performing Concluding Routines

6.1 Viewing Report List

To view all reports list in report UI, click one item to view summary information. As figure 6-1.

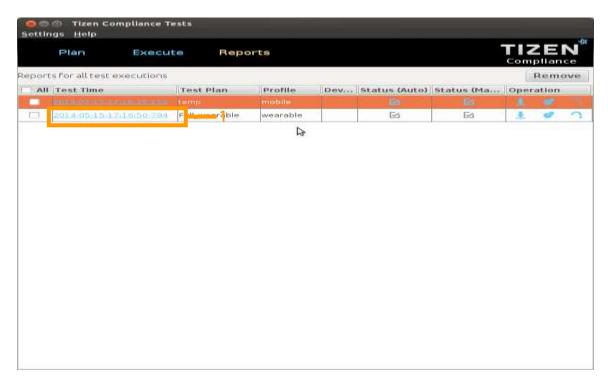


Figure 6-1 Report List

To view summary of report, click on the test time entry, as shown by [1] in Figure 6-1. The summary reports will be displayed in the page, as shown in Figure 6-2, Figure 6-3, and Figure 6-4

TCT Report Test Plan Name Full least Host Device Linux 3.5.5 17 general 496 with Utura; 12:10-pures Build (D) Tipen, Ref Device PiQ_20130002 1696 Manufacturer Test Total Device Mode RD/PQ Test Passed Descript ID 4sf79/0v66263000 Test Falled Strem Stee Shree a 103eer Test Blocket Resulution 700 ± 1290 Test Not Givernant 2013-10-25_10_38_31 - 2013-10-25_10_34_02

Device Capability

Test Summary by Suite

Suite	Total	Passed	Falled	Blocked	Not Executed	Ratio
tst-2dv.ansforme-css3-cesta	34	34	0	0	0	100.00%
tot-appcontral-tizec-testa	5	5	a	0	q	100.00%

Figure 6-2 Test summary and device information

Device Capability

Capability Name	Туре	Value
accelerometer	boolean	true
accelerometerWakeup	boolean	true
autoRotation	boolean	true
barometer	boolean	false
barometerWakeup	boolean	false
bluetooth	boolean	true
camera	boolean	true
cameraBack	boolean	true
cameraBackFlash	boolean	true
cameraFront	boolean	false
cameraFrontFlash	boolean	false
dataEncryption	boolean	false
duid	String	2.2ERROR
fmRadio	boolean	false
graphicsAcceleration	boolean	true
gyroscope	boolean	true
gyroscopeWakeup	boolean	false
InputKeyboard	boolean	false
inputKeyboardLayout	boolean	true
location	boolean	true
locationGps	boolean	true
locationWps	boolean	true
magnetometer	boolean	true
magnetometerWakeup	boolean	false
microphone	boolean	true
multiTouchCount	Integer	10
nativeApiVersion	String	2.2

Figure 6-3 Device capability report

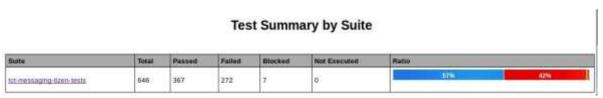


Figure 6-4 Test summary by suite

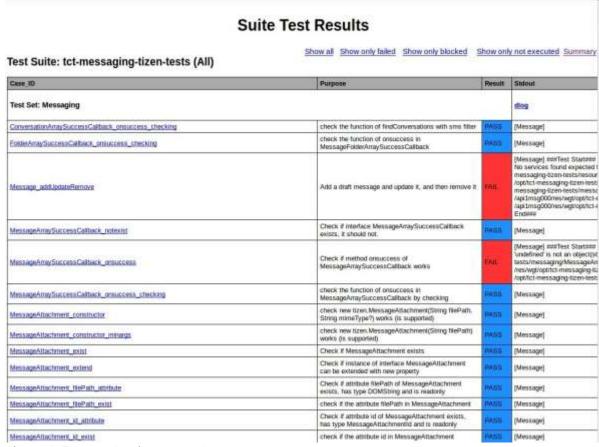


Figure 6-5 show detail test results

Choose one of the following to customize the report view, referring to Figure 6-5

Show all: show all the results

Show only failed: show cases that failed

Show only blocked: show cases that have blocked results.

Show only not executed: show cases that have non-applicable (N/A) results.

6.2 Exporting a Report

Click the icon of ___ in Figure 6-1, to download consolidated reports.

6.3 Rerunning Failed Test Cases

If the status of test results is Fail, Block, or N/A, Click the icon of will rerun non-passed test cases.

To rerun test cases:

- 1. Click the icon of in Figure 6-1, to open the Execute page. The failed test cases will be executed again.
- 2. Click the **Yes** button, the UI will switch to execute UI, and only suites with non-passed cases will be installed, executed and un-installed in rerun cycle.

6.4 Resuming Test

If the status of test plan is stopped, click icon of to resume the test plan.

Click the icon of in Figure 6-1, to open the Execute page. The test case with non-executed cases will be installed and executed again.

6.5 Removing Test Report.

Select one or multiple test reports in report UI, then click Remove button, the selected items will be removed after user confirming.

7 Introduction of Multi-Profile

7.1 Multi-Profile

Web TCT 2.3 support multi-profile in a uniform tool. On Test Plan view, tct-mgr provides a combo-box for selecting a test profile of your test.

Currently we support three profile values: "mobile", "wearable".

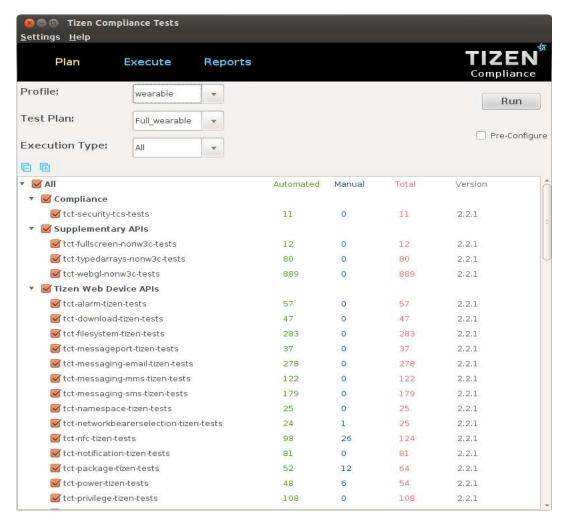


Figure 7-1 Default plan view with multi-profiles

7.2 Usage of profile option

When invoking tct-mgr in console, you can specify a test profile with "--profile/-p" to launch tct-mgr. For instance.

- 1. On Ubuntu Host
 - \$ /opt/tct/tizen_2.3/tct-mgr --profile wearable
- 2. On Windows Host
 - \$ c:\opt\tct\tizen_2.3\tct-mgr --profile wearable

After launched, tct-mgr will be working under the context with the profile.

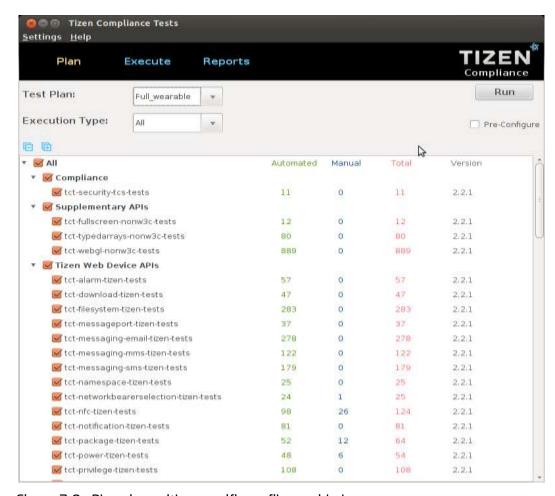


Figure 7-2 Plan view with a specific profile provided

8 Introduction of Test Check/Pre-configure

8.1 Health Check

During the process of test execution, for any one of the running scenarios:new running, rerunning, resuming, an generic process will be invoked by Web TCT Manager to ensure the device status ready for testing:

Currently four apps will be checked: tinyweb, testkit-stub, getCap, test-config tool. If any one of them isn't alive and can't be re-launched on the device under testing, Health check will get failed. And the testing will break down immediately. So a dialog will pop-up to show checking progress. As Figure 8-1.

```
Health checking...

check process tiny web......[pass]

check testconfig tool......[pass]

check widget getCap......[pass]

check process testkit-stub......
```

Figure 8-1 Dialog of Health Check

8.2 Pre-Configure

During the process of test execution, for any one of the running scenarios: new running, rerunning, resuming, an optional process pre-configure will be invoked by Web TCT Manager. It is usually invoked after health check.

If the current test plan includes these test suites need to set some configure information in advance, the pre-conguration dialog will Pop-up.

The pre-configure process include 2 types of preparing working, as Figure 8-2.

- 1. Set test variables for a test running: Provide input edit and set some test variable with user inputs automatically on device-side.
- 2. Prompt the detailed steps will need to be completed by user.

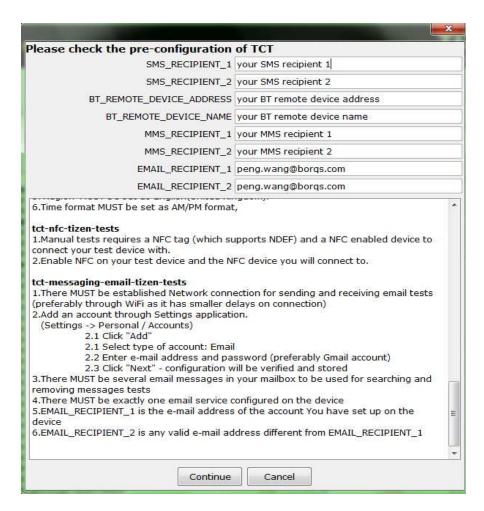


Figure 8-2. Dialog of Pre-configure