TIZEN™

Tizen 2.3.1

EFL UTC User Guide

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1. Environment setup

1.1. Symbols and abbreviations

UTC	– Unit Test Cases
GBS	– Git Build System
SDB	– Smart Development Bridge
$ (in shell command)	– Login shell in your computer
# (in shell command)	– Login shell in Tizen device via SDB
{Option}	– For target device, {Option} = armv7l

1.2. Hardware Requirements

1. Linux or Windows PC which can run SDB tool.
2. Tizen device that will work as target on which TCs will be executed
3. USB Cable for connecting device to host

1.3. Software Requirements

1. SDB tool to connect into Tizen device. (Tizen 2.3.1 SDK contains it)
2. GBS build environment

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2. Making the EFL UTC package

2.1. Get the EFL UTC code set

Git repository : ssh://[id]@review.tizen.org:29418/test/tct/native/efl-tct

Branch : tizen_2.3.1

※ **If you get EFL binary(already built) from here, you don't need EFL source and build it.**
http://download.tizen.org/tct/2.3.1/2.3.1_r1/NATIVE_TCT/native-tct_2.3.1_r1.zip
$ unzip native-tct_2.3.1_r1.zip
$ cd natvie-tct_2.3.1_r1/EFL/Mobile or Wearable
Now go to **step 3(Installing the EFL UTC Package).**

2.2. Build the code set and make rpm package by GBS

Before start build EFL UTC code set, add repository URLs in '.gbs.conf' file:

$ vim ~/.gbs.conf

Set the repository url like below :

```
perforce@sohyun-Samsung-DeskTop-System:~$ vim /home/perforce/.gbs.conf
perforce@sohyun-Samsung-DeskTop-System:~$ cat ~/.gbs.conf
[general]
buildroot=~/GBS-ROOT
profile = profile.device

[profile.device] # Profile for Device
repos = repo.tizen_2.3.1_mobile
#repos = repo.tizen_2.3.1_wearable

[repo.tizen_2.3.1_mobile]
url = http://download.tizen.org/snapshots/2.3.1-mobile/common/latest/repos/target/packages/

[repo.tizen_2.3.1_wearable]
url = http://download.tizen.org/snapshots/2.3.1-wearable/common/latest/repos/target/packages/
```

Figure 1: gbs.conf setting

After setting, go to the efl source directory and build EFL UTC code set and make rpm package:

$ cd efl-tct/

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$ gbs build –A **armv7l** --include-all

You can find build packages below:

info: generated RPM packages can be found from local repo:

/GBS-ROOT/local/repos/spin/{Option}/RPMS/efl-test-suite-X.X.X-X. **armv7l**.rpm

Build results will be packaged into the rpm file. You can see the result by unpacking the rpm:

$rpm2cpio efl-test-suite-X.X.X-X. **armv7l**.rpm | cpio –idv

/opt/usr/efl-test-suite/TC/results/build-tar-result-XXXXXXX.journal

If you want more information of gbs, please refer to here :

https://source.tizen.org/documentation/reference/git-build-system

3. Installing the EFL UTC Package

3.1. Push EFL UTC package into Tizen device

Enable sdb root mode:

$sdb root on

Push EFL UTC package into Tizen device:

$sdb push efl-test-suite-1.3.0-2.{Option}.rpm /opt/usr

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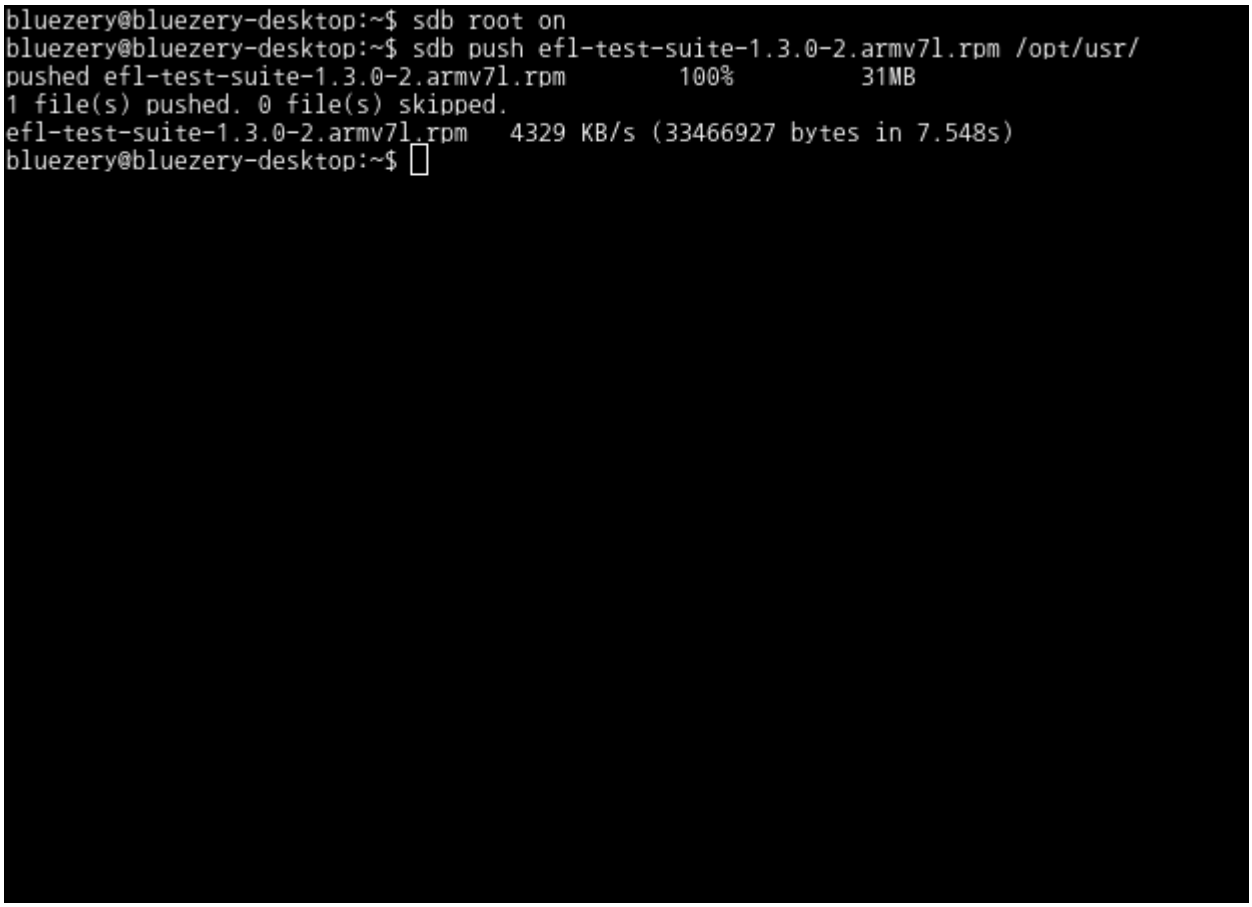

Figure 2: EFL UTC Push

3.2. Login to Tizen device via SDB and install EFL UTC package

Login to Tizen device:

$sdb shell

Install EFL UTC using rpm command:

#change-booting-mode.sh --update

#rpm –Uvh efl-test-suite-xxx.{Option}.rpm --force --nodeps

(change-booting-mode.sh script may be available only on the Samsung Tizen device. It will change file system to be writable.)

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```
bluezery@bluezery-desktop:~$ sdb shell
sh-3.2# cd /opt/usr/
sh-3.2# change-booting-mode.sh --update
Setting update mode for engineers
sh-3.2# ls
apps  dbspace  efl-test-suite-1.3.0-2.armv7l.rpm  live  lost+found  share
data  devel    etc                               log   media       ug
sh-3.2# rpm -Uvh efl-test-suite-1.3.0-2.armv7l.rpm --force --nodeps
reading device security policy from /etc/device-sec-policy
package ac-domain-system defined ac domain Isolated
package ac-domain-system defined ac domain ^
package ac-domain-system defined ac domain *
package ac-domain-system defined ac domain _
allowing ac_domain Isolated provided in root for root
allowing ac_domain ^ provided in root for root
allowing ac_domain * provided in root for root
allowing ac_domain _ provided in root for root
allowing ac_domain Isolated provided in root for _default_
allowing ac_domain ^ provided in root for _default_
allowing ac_domain * provided in root for _default_
allowing ac_domain _ provided in root for _default_
package privilege-checker defined ac domain privilege-checker
allowing ac_domain privilege-checker provided in _default_ for root
allowing ac_domain privilege-checker provided in _default_ for _default_
package libjpeg-turbo defined ac domain libjpeg-turbo
allowing ac_domain libjpeg-turbo provided in _default_ for root
allowing ac_domain libjpeg-turbo provided in _default_ for _default_
package dali defined ac domain dali
allowing ac_domain dali provided in _default_ for root
allowing ac_domain dali provided in _default_ for _default_
package key-storage defined ac domain key-storage
```

Figure 2: EFL UTC Install

4. Execute Test Suites

4.1. Run EFL UTC

Before execute this, swipe off lock screen and check if LCD is on now.

Run EFL UTC on Tizen device:

```
#cd /opt/usr/efl-test-suite/TC
```

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#./execute.sh mobile

OR

#./execute.sh wear

```
sh-3.2# cd /opt/usr/efl-test-suite/TC/
sh-3.2# ./execute.sh wear
Set to the tet_scen_wear
Start checking current machine....
i386 or i686 is running....
tcc: journal file is /opt/usr/efl-test-suite/TC/results/exec-tar-result-1427855777.journal
11:36:17  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_run
11:36:19  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_feedback_run
11:36:21  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_cancel
11:36:23  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_check
11:36:25  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_add
11:36:26  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_del
11:36:27  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_global_data_find
11:36:28  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_max_set
11:36:29  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_max_get
11:36:30  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_active_get
11:36:31  Execute /ecore/ecore_thread/utc_UIFW_ecore_thread_available_get
```

Figure 3: EFL UTC Run

4.2. View Result Summary

Get results from Tizen device to your computer:

$sdb pull /opt/usr/efl-test-suite/TC/results/

View results via browser:

$google-chrome exec-tar-result-xxxx.html

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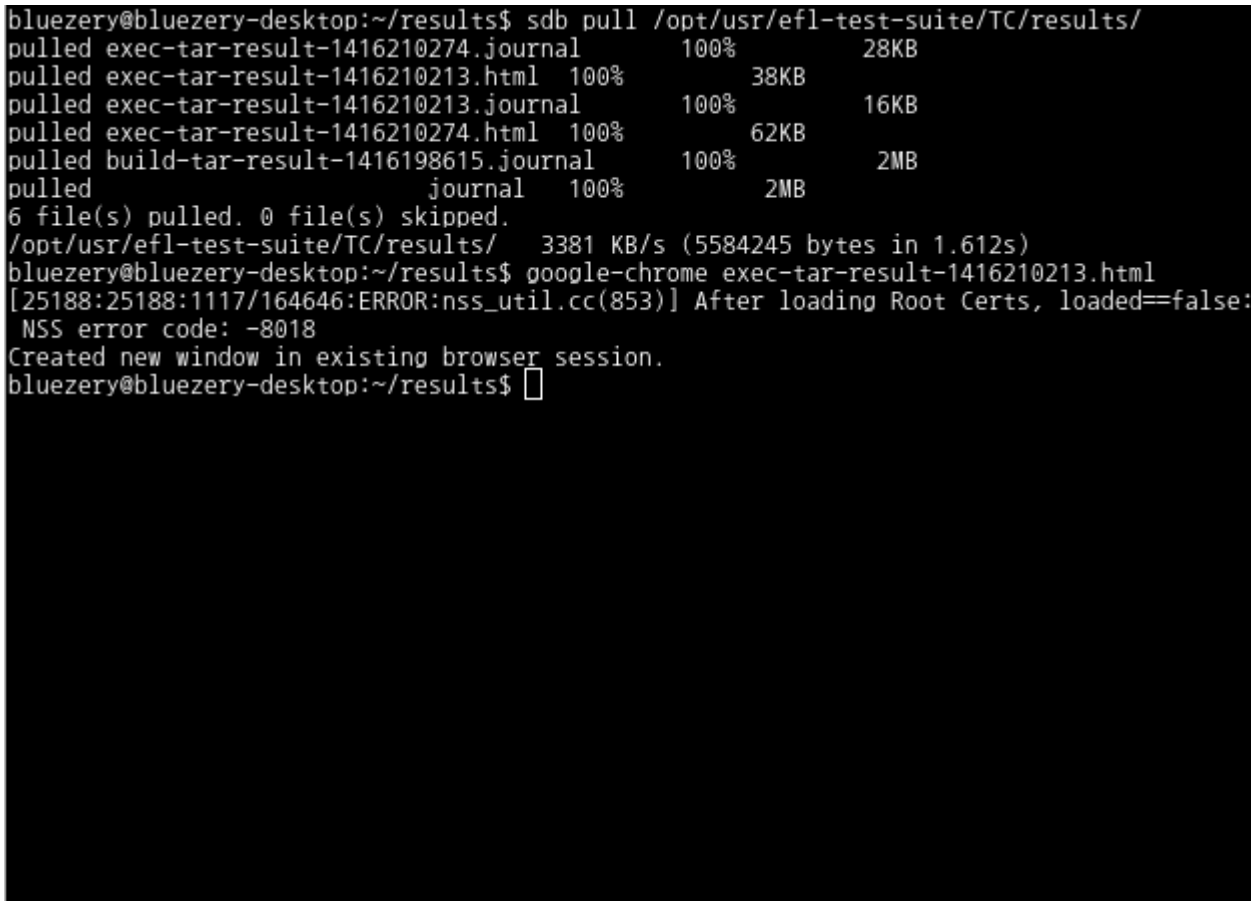

Figure 4: Get EFL UTC Results

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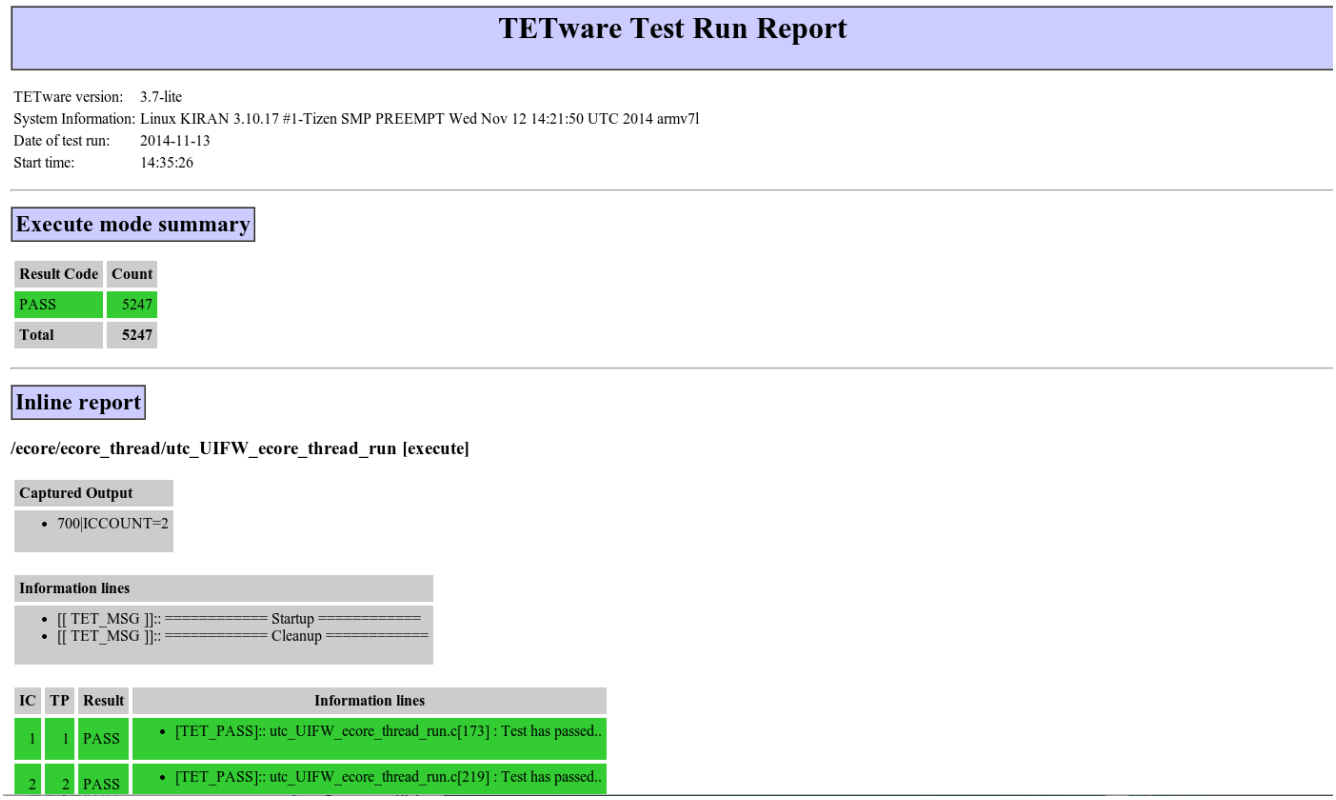

TETware Test Run Report

TETware version: 3.7-lite
System Information: Linux KIRAN 3.10.17 #1-Tizen SMP PREEMPT Wed Nov 12 14:21:50 UTC 2014 armv7l
Date of test run: 2014-11-13
Start time: 14:35:26

Execute mode summary

Result Code	Count
PASS	5247
Total	5247

Inline report

/ecore/ecore_thread/utc_UIFW_ecore_thread_run [execute]

Captured Output

- 700|ICCOUNT=2

Information lines

- [[TET_MSG]]:: ========== Startup ==========
- [[TET_MSG]]:: ========== Cleanup ==========

IC	TP	Result	Information lines
1	1	PASS	• [TET_PASS]:: utc_UIFW_ecore_thread_run.c[173] : Test has passed..
2	2	PASS	• [TET_PASS]:: utc_UIFW_ecore_thread_run.c[219] : Test has passed..

Figure 5: View EFL UTC Results

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