

Web BAT Test Suite User Guide

Version 1.0, for Tizen Generic

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Contents

1	Introduction.....	3
2	Test Environments.....	3
3	BAT Preconditions.....	3
3.1	Setup Ubuntu (12.04 64bit) Host for the Test Environments	3
3.2	Use SSH to Connect Tizen Device.....	4
3.3	Install Crosswalk Binary on Tizen Device	4
3.4	Install testkit-lite on Tizen Device	5
3.5	Install testkit-stub on Tizen Device	5
3.6	Install tinyweb on Tizen Device.....	5
3.7	Install Test Suite on Tizen Device.....	5
4.	Run BAT Tests	6
4.1	Launch tinyweb	6
4.2	Run Tests	6
4.3	Get result from /path/to/result.xml	6
4.4	Uninstall Tests.....	6

1 Introduction

This document provides the method to run Web BAT Test Suite on Tizen Generic Platform.

2 Test Environments

- Tizen Generic Platform Hardware: Acer Sandy Bridge Notebook with USB-to-Ethernet(The model Tizen Image supported) converter. Ensure [Tizen generic-wayland-x86_64 image](#) installed following the [WIKI](#) for image installation.
- [setuptools](#): a testkit-lite dependent python module for Device Mode.
- Request-master: [request-master.zip](#), a testkit-lite dependent package for Device Mode.
- [testkit-lite](#): a command-line interface application
- [testkit-stub](#): a test stub application
- [tinyweb](#): a web service application
- Test Suite:web-xbat-tests-xxx.xpk.zip

Note: If you want to generate these Test Suite packages from the source code by yourself, you can refer to *Web_Test_Suite_Packaging_Guide_v1.0* chapter 3.3 "Pack Web Test Suite Packages for Tizen IVI"

3 BAT Preconditions

3.1 Setup Ubuntu (12.04 64bit) Host for the Test Environments

- Install git

```
sudo apt-get install git #Maybe you need setup HTTP Proxy
```

- Install g++

```
sudo apt-get install g++ #Maybe you need setup HTTP Proxy
```

- Get setuptools package

```
wget -r -np -nd
https://pypi.python.org/packages/source/s/setuptools/setuptools-latest-version.tar.g
z #Maybe you need setup HTTPS Proxy
```

- Get request-master.zip

```
wget -r -np -nd https://github.com/kennethreitz/requests/archive/master.zip
#Maybe you need setup HTTPS Proxy
```

- Download testkit-lite source codes

```
git clone git@github.com:testkit/testkit-lite.git
```

- Download testkit-stub source codes and generate execute binary

```
git clone git@github.com:testkit/testkit-stub.git
cd testkit-stub
make #here will generate testkit-stub execute binary used in next execution steps
```

- Download tinyweb source codes and generate execute binaries

```
git clone git@github.com:testkit/tinyweb.git
cd tinyweb
make #here will generate tinyweb, cgi-getcookie and cgi-getfield execute binaries
used in next execution steps
```

Note: To execute these last two above steps, make sure you use Ubuntu 12.04 **64 bit** OS.

3.2 Use SSH to Connect Tizen Device

```
ssh root@device-ip #you may need input the pwd: tizen
```

3.3 Install Crosswalk Binary on Tizen Device

```
zypper ar
http://download.tizen.org/snapshots/tizen/generic/generic-wayland-x86\_64/latest/repos
/generic/x86\_64/packages/Repo\_Generic #Maybe you need setup HTTP Proxy
zypper ref -r Repo_Generic
zypper in crosswalk
```

3.4 Install testkit-lite on Tizen Device

```
scp username@host-ip:/path/to/requests-master.zip /tmp
unzip /tmp/requests-master.zip -d /tmp
cd /tmp/requests-master
python setup.py install
scp username@host-ip:/path/to/setuptools-latest-version.tar.gz /tmp
tar -xzvf /tmp/setuptools-latest-version.tar.gz -C /tmp
cd /tmp/setuptools-x-x
python setup.py install
scp -r username@host-ip:/path/to/testkit-lite /tmp
cd /tmp/testkit-lite
python setup.py install
```

3.5 Install testkit-stub on Tizen Device

```
scp username@host-ip:/path/to/testkit-stub/testkit-stub /usr/bin
```

3.6 Install tinyweb on Tizen Device

```
scp username@host-ip:/path/to/tinyweb/tinyweb /opt/home/developer
scp username@host-ip:/path/to/tinyweb/cgi-getcookie /opt/home/developer
scp username@host-ip:/path/to/tinyweb/cgi-getfield /opt/home/developer
scp username@host-ip:/path/to/tinyweb/server.pem /opt/home/developer
cd /opt/home/developer/
chmod 666 server.pem
ln -s /usr/lib64/libssl.so.1.0.0 /opt/home/developer/libssl.so
ln -s /usr/lib64/libcrypto.so.1.0.0 /opt/home/developer/libcrypto.so
```

3.7 Install Test Suite on Tizen Device

```
scp username@host-ip:/path/to/web-xbat-tests-xxx.xpk.zip /tmp
unzip /tmp/web-xbat-tests-xxx.xpk.zip -d /opt/usr/media/tct/
```

```
sh /opt/usr/media/tct/opt/web-xbat-tests/inst.sh
```

Note: Please update the suite name when you use above commands, e.g. change "web-xbat-tests" to "web-abat-tests"

Then you can get the appid of the test APP (will be used in next execution steps):

```
su app -c "export
DBUS_SESSION_BUS_ADDRESS=\"unix:path=/run/user/5000/dbus/user_bus_socket\";ex
port XDG_RUNTIME_DIR=\"/run/user/5000\";xwalkctl"
```

4. Run BAT Tests

4.1 Launch tinyweb

```
env LD_LIBRARY_PATH=/opt/home/developer PATH=$PATH:/opt/home/developer
tinyweb -ssl_certificate /opt/home/developer/server.pem -document_root
/opt/usr/media/tct/ -listening_ports 80,8080,8081,8082,8083,8443s&
```

4.2 Run Tests

```
testkit-lite -e 'su app -c "export
DBUS_SESSION_BUS_ADDRESS=\"unix:path=/run/user/5000/dbus/user_bus_socket\";ex
port XDG_RUNTIME_DIR=\"/run/user/5000\";xwalk-launcher $appid"' -f
/opt/usr/media/tct/opt/web-xbat-tests/tests.xml --comm localhost -o /path/to/result.xml
```

Note: Please update the suite name when you use above commands, e.g. change "web-xbat-tests" to "web-abat-tests"

4.3 Get result from /path/to/result.xml

4.4 Uninstall Tests

```
sh /opt/usr/media/tct/opt/web-xbat-tests/inst.sh -u
```

Note: Please update the suite name when you use above commands, e.g. change "web-xbat-tests" to "web-abat-tests"