Web Test Suite Packaging Guide

Version 1.0

Contents

1   Overview

This document is intended for developers or testers who need to pack web test suites.

You are supposed to have gained the following knowledge:

- Where and how to download web test source code files.
- How to download and install android SDK.

2   Environment Setup

An Ubuntu (12.04) host is needed to pack the web test suites.

- Install autoconf automake:
  ```
  $ sudo apt-get install autoconf automake
  ```

Set packaging environment for Tizen:

- Install python-dev:
  ```
  $ sudo apt-get install python-dev
  ```
- Download and install pycrypto(https://www.dlitz.net/software/pycrypto/)

The XPK tool make_xpk.py is located in web test source code.

Set packaging environment for Android:

- Install ant nodejs:
  ```
  $ sudo apt-get install ant nodejs
  ```
- Download and install Android SDK(>=android-19) for your platform from http://developer.android.com/sdk/index.html.
- Deploy Android SDK`s tools and platform-tools to PATH environment
  ```
  $ export PATH=${PATH}:/path/to/adt-bundle-<version>/sdk/tools:/path/to/adb-bundle-<version>/sdk/platform-tools
  ```

There are two tools to generate APK package, make_apk.py and cordova.

make_apk.py:

- Get proper package of <version>/crosswalk-<version>.zip from https://download.01.org/crosswalk/releases/crosswalk/android/canary/.
  ```
  $ cd /path/to/crosswalk-test-suite/tools/
  $ unzip /path/to/crosswalk-<version>.zip
  $ mv crosswalk-<version>/* crosswalk/
  ```

make_apk.py is located in the crosswalk folder.

cordova:

- Get proper package of <version>/<arch>/crosswalk-cordova-<version>-<arch>.zip from https://download.01.org/crosswalk/releases/crosswalk/android/canary/.
  ```
  $ cd /path/to/crosswalk-test-suite/tools/
  $ unzip /path/to/crosswalk-cordova-<version>-<arch>.zip
  $ mv crosswalk-cordova-<version>-<arch> cordova
  ```

3   Pack Web Test Suite Packages

There is a pack.sh script in each test suite. Currently it supports 3 types of test suite packages, APK, XPK and WGT, in .zip, for 3 platforms, Android, Tizen Mobile and IVI.

3.1   Pack Web Test Suite Packages for Android

Pack APK packages use make_apk.py:

```
$ ./pack.sh –t apk –m embedded –a arm|x86
```
Pack embedded mode APK package using make_apk.py. use –a arm or –a x86 to choose the right architecture.

```
$ ./pack.sh –t apk –m shared
```
Pack shared mode APK package using make_apk.py.

Please see the Appendix1 for the packages list.
There is a special package wrt-autohost-android-tests use below command:
```
$ ./pack.sh –t pure –m embedded –a arm|x86
```
Pack embedded mode APK package using make_apk.py. use –a arm or –a x86 to choose the right architecture.

Pack APK packages use cordova tool:

```
$ ./pack.sh –t cordova
```
Pack APK package using cordova tool

Please see the Appendix 6 for the packages list.

3.2   Pack Web Test Suite Packages for Tizen Mobile

```
$ ./pack.sh –t xpk –p mobile
```
Pack XPK package.
Please see the Appendix 2 for the packages list.

There is a special package wrt-autohost-tizen-tests use below command:
```
$ ./pack.sh –t pure –p mobile
```

```
$ ./pack.sh –t wgt –p mobile
```
Pack WGT package.
Please see Appendix 3 for the packages list.

Please notice that Tizen deviceAPI related WGT need authorization to be installed on Tizen.

3.3   Pack Web Test Suite Packages for Tizen IVI

```
$ ./pack.sh –t xpk –p ivi
```
Pack XPK package.
Please see Appendix 2 for the package list
There is a special package wrt-autohost-tizen-tests use below command:
```
$ ./pack.sh –t pure –p ivi
```

```
$ ./pack.sh –t wgt –p ivi
```
Pack WGT package.
Please see Appendix 4 for the package list.

Please notice that Tizen deviceAPI related WGT need authorization to be installed on Tizen.

```
$ ./pack.sh –t xpk –p generic
```
Pack XPK package for Tizen IVI Generic.
Please see Appendix 5 for the package list.

Appendix 1 APK Packages List

WebAPI

- tct-2dtransforms-css3-tests
- tct-3dtransforms-css3-tests
- tct-animations-css3-tests
- tct-animationtiming-w3c-tests
- tct-appcache-html5-tests
- tct-audio-html5-tests
- tct-backgrounds-css3-tests
- tct-batterystatus-w3c-tests
- tct-browserstate-html5-tests
- tct-canvas-html5-tests

- tct-capability-tests
- tct-colors-css3-tests
- tct-cors-w3c-tests
- tct-csp-w3c-tests
- tct-deviceorientation-w3c-tests
- tct-dnd-html5-tests
- tct-extra-html5-tests
- tct-fileapi-w3c-tests
- tct-filesystemapi-w3c-tests
- tct-filewriterapi-w3c-tests
- tct-flexiblebox-css3-tests
- tct-fonts-css3-tests
- tct-forms-html5-tests
- tct-fullscreen-nonw3c-tests
- tct-geoallow-w3c-tests
- tct-geodeny-w3c-tests
- tct-gumallow-w3c-tests
- tct-indexeddb-w3c-tests
- tct-jsenhance-html5-tests
- tct-mediacapture-w3c-tests
- tct-mediaqueries-css3-tests
- tct-multicolumn-css3-tests
- tct-navigationtiming-w3c-tests
- tct-netinfo-w3c-tests
- tct-notification-w3c-tests
- tct-pagevisibility-w3c-tests
- tct-sandbox-html5-tests
- tct-screenorientation-w3c-tests
- tct-security-tcs-tests
- tct-selectorslevel1-w3c-tests
- tct-selectorslevel2-w3c-tests
- tct-sessionhistory-html5-tests
- tct-sse-w3c-tests
- tct-svg-html5-tests
- tct-text-css3-tests
- tct-touchevent-w3c-tests
- tct-transitions-css3-tests
- tct-typedarrays-nonw3c-tests
- tct-ui-css3-tests
- tct-vibration-w3c-tests
- tct-video-html5-tests
- tct-webaudio-w3c-tests
- tct-webdatabase-w3c-tests
- tct-webgl-nonw3c-tests
- tct-webmessaging-w3c-tests
- tct-websocket-w3c-tests

- tct-webstorage-w3c-tests
- tct-workers-w3c-tests
- tct-xmlhttprequest-w3c-tests
- webapi-appuri-sysapps-tests
- webapi-contactsmanager-sysapps-tests
- webapi-cssfilter-ivi-tests
- webapi-deviceadaptation-css3-tests
- webapi-devicecapabilities-sysapps-tests
- webapi-dlna-ivi-tests
- webapi-hrtime-w3c-tests
- webapi-input-html5-tests
- webapi-locale-ivi-tests
- webapi-messageport-ivi-tests
- webapi-messaging-sysapps-tests
- webapi-notification-ivi-tests
- webapi-presentation-xwalk-tests
- webapi-promises-nonw3c-tests
- webapi-rawsockets-sysapps-tests
- webapi-resourcetiming-w3c-tests
- webapi-runtime-xwalk-tests
- webapi-simd-nonw3c-tests
- webapi-speechapi-ivi-tests
- webapi-usertiming-w3c-tests
- webapi-vehicleinfo-ivi-tests
- webapi-webrtc-w3c-tests
- webapi-webspeech-w3c-tests

WRT

- wrt-common-webapp-tests
- wrt-extension-android-tests
- wrt-integration-android-tests
- wrt-packagemgt-android-tests
- wrt-packertool-android-tests
- wrt-rtcore-android-tests
- wrt-rtlib-android-tests
- wrt-sampleapp-android-tests
- wrt-security-android-tests
- wrt-webappmgt-android-tests
- wrt-webfeatures-android-tests

Behavior

- tct-behavior-tests

Cordova

- cordova-mobilespec-android-tests
- cordova-sampleapp-android-tests
- cordova-webapp-android-tests

Misc

- web-abat-tests
- web-mbat-tests
- wrt-stabiterative-android-tests
- wrt-stablonglast2D-android-tests
- wrt-stablonglast3D-android-tests
- wrt-stablonglastplayvideo-android-tests
- wrt-stabrecovery-android-tests

Appendix 2 XPK Package List

WebAPI

- tct-2dtransforms-css3-tests
- tct-3dtransforms-css3-tests
- tct-animations-css3-tests
- tct-animationtiming-w3c-tests
- tct-appcache-html5-tests
- tct-application-tizen-tests
- tct-audio-html5-tests
- tct-backgrounds-css3-tests
- tct-batterystatus-w3c-tests
- tct-bluetooth-tizen-tests
- tct-bookmark-tizen-tests
- tct-browserstate-html5-tests
- tct-callhistory-tizen-tests
- tct-canvas-html5-tests
- tct-capability-tests
- tct-colors-css3-tests
- tct-content-tizen-tests
- tct-cors-w3c-tests
- tct-csp-w3c-tests
- tct-datasync-tizen-tests
- tct-deviceorientation-w3c-tests
- tct-dnd-html5-tests
- tct-download-tizen-tests
- tct-extra-html5-tests

- tct-fileapi-w3c-tests
- tct-filesystemapi-w3c-tests
- tct-filesystem-tizen-tests
- tct-filewriterapi-w3c-tests
- tct-flexiblebox-css3-tests
- tct-fonts-css3-tests
- tct-forms-html5-tests
- tct-fullscreen-nonw3c-tests
- tct-geoallow-w3c-tests
- tct-geodeny-w3c-tests
- tct-getcapabilities
- tct-gumallow-w3c-tests
- tct-indexeddb-w3c-tests
- tct-jsenhance-html5-tests
- tct-mediacapture-w3c-tests
- tct-mediaqueries-css3-tests
- tct-messageport-tizen-tests
- tct-multicolumn-css3-tests
- tct-namespace-tizen-tests
- tct-navigationtiming-w3c-tests
- tct-netinfo-w3c-tests
- tct-networkbearerselection-tizen-tests
- tct-notification-tizen-tests
- tct-notification-w3c-tests
- tct-pagevisibility-w3c-tests
- tct-power-tizen-tests
- tct-privilege-tizen-tests
- tct-sandbox-html5-tests
- tct-screenorientation-w3c-tests
- tct-security-tcs-tests
- tct-selectorslevel1-w3c-tests
- tct-selectorslevel2-w3c-tests
- tct-sessionhistory-html5-tests
- tct-sse-w3c-tests
- tct-svg-html5-tests
- tct-systeminfo-tizen-tests
- tct-systemsetting-tizen-tests
- tct-testconfig
- tct-text-css3-tests
- tct-time-tizen-tests
- tct-touchevent-w3c-tests
- tct-transitions-css3-tests
- tct-typedarrays-nonw3c-tests
- tct-ui-css3-tests
- tct-vibration-w3c-tests
- tct-video-html5-tests

- tct-webaudio-w3c-tests
- tct-webdatabase-w3c-tests
- tct-webgl-nonw3c-tests
- tct-webmessaging-w3c-tests
- tct-websocket-w3c-tests
- tct-webstorage-w3c-tests
- tct-workers-w3c-tests
- tct-xmlhttprequest-w3c-tests
- webapi-appuri-sysapps-tests
- webapi-cssfilter-ivi-tests
- webapi-deviceadaptation-css3-tests
- webapi-devicecapabilities-sysapps-tests
- webapi-dlna-ivi-tests
- webapi-hrtime-w3c-tests
- webapi-input-html5-tests
- webapi-locale-ivi-tests
- webapi-messageport-ivi-tests
- webapi-messaging-sysapps-tests
- webapi-notification-ivi-tests
- webapi-promises-nonw3c-tests
- webapi-rawsockets-sysapps-tests
- webapi-resourcetiming-w3c-tests
- webapi-runtime-xwalk-tests
- webapi-sanityapp-w3c-tests
- webapi-speechapi-ivi-tests
- webapi-usertiming-w3c-tests
- webapi-vehicleinfo-ivi-tests
- webapi-webrtc-w3c-tests
- webapi-webspeech-w3c-tests

WRT

- wrt-autodevice-tizen-tests
- wrt-common-webapp-tests
- wrt-integration-tizen-tests
- wrt-packagemgt-tizen-tests
- wrt-rtbin-tizen-tests
- wrt-rtcore-tizen-tests
- wrt-sampleapp-tizen-tests
- wrt-signature-tizen-tests
- wrt-webfeatures-tizen-tests

Behavior

- tct-behavior-tests

Misc

- web-abat-tests
- web-mbat-tests

Appendix 3 WGT Package List for Tizen Mobile

WebAPI

- tct-2dtransforms-css3-tests
- tct-3dtransforms-css3-tests
- tct-alarm-tizen-tests
- tct-animations-css3-tests
- tct-animationtiming-w3c-tests
- tct-appcache-html5-tests
- tct-appcontrol-tizen-tests
- tct-application-tizen-tests
- tct-audio-html5-tests
- tct-backgrounds-css3-tests
- tct-batterystatus-w3c-tests
- tct-bluetooth-tizen-tests
- tct-bookmark-tizen-tests
- tct-browserstate-html5-tests
- tct-calendar-tizen-tests
- tct-callhistory-tizen-tests
- tct-canvas-html5-tests
- tct-capability-tests
- tct-colors-css3-tests
- tct-contact-tizen-tests
- tct-content-tizen-tests
- tct-cors-w3c-tests
- tct-csp-w3c-tests
- tct-datacontrol-tizen-tests
- tct-datasync-tizen-tests
- tct-deviceorientation-w3c-tests
- tct-dnd-html5-tests
- tct-download-tizen-tests
- tct-extra-html5-tests
- tct-fileapi-w3c-tests
- tct-filesystemapi-w3c-tests
- tct-filesystem-tizen-tests
- tct-filewriterapi-w3c-tests
- tct-flexiblebox-css3-tests
- tct-fonts-css3-tests

- tct-forms-html5-tests
- tct-fullscreen-nonw3c-tests
- tct-geoallow-w3c-tests
- tct-geodeny-w3c-tests
- tct-getcapabilities
- tct-gumallow-w3c-tests
- tct-indexeddb-w3c-tests
- tct-jsenhance-html5-tests
- tct-mediacapture-w3c-tests
- tct-mediaqueries-css3-tests
- tct-messageport-tizen-tests
- tct-messaging-email-tizen-tests
- tct-messaging-mms-tizen-tests
- tct-messaging-sms-tizen-tests
- tct-multicolumn-css3-tests
- tct-namespace-tizen-tests
- tct-navigationtiming-w3c-tests
- tct-netinfo-w3c-tests
- tct-networkbearerselection-tizen-tests
- tct-nfc-tizen-tests
- tct-notification-tizen-tests
- tct-notification-w3c-tests
- tct-package-tizen-tests
- tct-pagevisibility-w3c-tests
- tct-power-tizen-tests
- tct-privilege-tizen-tests
- tct-push-tizen-tests
- tct-sandbox-html5-tests
- tct-screenorientation-w3c-tests
- tct-secureelement-tizen-tests
- tct-security-tcs-tests
- tct-selectorslevel1-w3c-tests
- tct-selectorslevel2-w3c-tests
- tct-sessionhistory-html5-tests
- tct-sse-w3c-tests
- tct-svg-html5-tests
- tct-systeminfo-tizen-tests
- tct-systemsetting-tizen-tests
- tct-testconfig
- tct-text-css3-tests
- tct-time-tizen-tests
- tct-tizen-tizen-tests
- tct-touchevent-w3c-tests
- tct-transitions-css3-tests
- tct-typedarrays-nonw3c-tests
- tct-ui-css3-tests

- tct-vibration-w3c-tests
- tct-video-html5-tests
- tct-webaudio-w3c-tests
- tct-webdatabase-w3c-tests
- tct-webgl-nonw3c-tests
- tct-webmessaging-w3c-tests
- tct-websetting-tizen-tests
- tct-websocket-w3c-tests
- tct-webstorage-w3c-tests
- tct-workers-w3c-tests
- tct-xmlhttprequest-w3c-tests

Behavior

- tct-behavior-tests

Appendix 4 WGT Package List for Tizen IVI

WebAPI

- tct-wgtapi01-w3c-tests
- tct-wgtapi02-w3c-tests
- tct-widget01-w3c-tests
- tct-widget02-w3c-tests
- tct-widgetpolicy-w3c-tests

WRT

- tct-appwgt-wrt-tests
- tct-ext01-wrt-tests
- tct-ext02-wrt-tests
- tct-pm-wrt-tests
- tct-rt01-wrt-tests
- tct-rt02-wrt-tests
- tct-sp01-wrt-tests
- tct-sp02-wrt-tests
- tct-stab-wrt-tests
- tct-ui01-wrt-tests

Appendix 5 XPK Package List for Tizen IVI Generic

MISC

- web-abat-tests
- web-mbat-tests

Appendix 6 Cordova APK Packages List

WebAPI

- tct-2dtransforms-css3-tests
- tct-3dtransforms-css3-tests
- tct-animations-css3-tests
- tct-animationtiming-w3c-tests
- tct-appcache-html5-tests
- tct-audio-html5-tests
- tct-backgrounds-css3-tests
- tct-batterystatus-w3c-tests
- tct-browserstate-html5-tests
- tct-canvas-html5-tests
- tct-capability-tests
- tct-colors-css3-tests
- tct-cors-w3c-tests
- tct-csp-w3c-tests
- tct-deviceorientation-w3c-tests
- tct-dnd-html5-tests
- tct-extra-html5-tests
- tct-fileapi-w3c-tests
- tct-filesystemapi-w3c-tests
- tct-filewriterapi-w3c-tests
- tct-flexiblebox-css3-tests
- tct-fonts-css3-tests
- tct-forms-html5-tests
- tct-fullscreen-nonw3c-tests
- tct-geoallow-w3c-tests
- tct-geodeny-w3c-tests
- tct-gumallow-w3c-tests
- tct-indexeddb-w3c-tests
- tct-jsenhance-html5-tests
- tct-mediacapture-w3c-tests
- tct-mediaqueries-css3-tests
- tct-multicolumn-css3-tests
- tct-navigationtiming-w3c-tests
- tct-netinfo-w3c-tests
- tct-notification-w3c-tests
- tct-pagevisibility-w3c-tests
- tct-sandbox-html5-tests
- tct-screenorientation-w3c-tests

- tct-security-tcs-tests
- tct-selectorslevel1-w3c-tests
- tct-selectorslevel2-w3c-tests
- tct-sessionhistory-html5-tests
- tct-sse-w3c-tests
- tct-svg-html5-tests
- tct-text-css3-tests
- tct-touchevent-w3c-tests
- tct-transitions-css3-tests
- tct-typedarrays-nonw3c-tests
- tct-ui-css3-tests
- tct-vibration-w3c-tests
- tct-video-html5-tests
- tct-webaudio-w3c-tests
- tct-webdatabase-w3c-tests
- tct-webgl-nonw3c-tests
- tct-webmessaging-w3c-tests
- tct-websocket-w3c-tests
- tct-webstorage-w3c-tests
- tct-workers-w3c-tests
- tct-xmlhttprequest-w3c-tests
- webapi-appuri-sysapps-tests
- webapi-contactsmanager-sysapps-tests
- webapi-cssfilter-ivi-tests
- webapi-deviceadaptation-css3-tests
- webapi-devicecapabilities-sysapps-tests
- webapi-dlna-ivi-tests
- webapi-hrtime-w3c-tests
- webapi-input-html5-tests
- webapi-locale-ivi-tests
- webapi-messageport-ivi-tests
- webapi-messaging-sysapps-tests
- webapi-notification-ivi-tests
- webapi-presentation-xwalk-tests
- webapi-promises-nonw3c-tests
- webapi-rawsockets-sysapps-tests
- webapi-resourcetiming-w3c-tests
- webapi-runtime-xwalk-tests
- webapi-simd-nonw3c-tests
- webapi-speechapi-ivi-tests
- webapi-usertiming-w3c-tests
- webapi-vehicleinfo-ivi-tests
- webapi-webrtc-w3c-tests
- webapi-webspeech-w3c-tests

Cordova

- cordova-mobilespec-android-tests
- cordova-sampleapp-android-tests
- cordova-webapp-android-tests