

Telechips

Android

IcsCreamSandwich

CTS Guide

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Telechips

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REVISION HISTORY

Revision History

Date	Version	Description
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1 Introduction

This document describes guide Android CTS.

2 Google Documents

Google provides Android 4.0 Compatibility Definition Document(CDD) and Compatibility Test Suite Manual.

This two documents is very important to run CTS. **Please read this documents carefully.**

If you are wrong settings, happened many fails.

You can find documents below link.

<http://source.android.com/compatibility/downloads.html>

3 Package Signature

If you pass android.security.cts.PackageSignatureTest, Please follow below.
But this procedures is the final work. Before this works, Please test all functions.

3.1 Make distribution image

make dist

After this command, \$T/out/dist/[your lunch name]-target_files-eng.[username].zip

3.2 Backup test secutiry files

Backup build/target/product/security/ files

This files require build next time.

3.3 Make key for each package

Please execute below commands

```
./mkkey.sh releasekey
    → Enter password(Please remember password)
./mkkey.sh media
    → Enter password(Please remember password)
./mkkey.sh platform
    → Enter password(Please remember password)
./mkkey.sh shared
    → Enter password(Please remember password)
./mkkey.sh testkey
    → Enter password(Please remember password)
```

You can find mkkey.sh below location.

vendor/telechips/tools/signature/mkkey.sh

and move created files.

```
# mv *.pem $T/build/target/product/security
# mv *.pk8 $T/build/target/product/security
```

3.4 Generate Signed Image

Android root #./build/tools/releasetools/sign_target_files_apks -d build/target/product/security
/home/B070387/android/ICS/0210/out/dist/full_tcc8920_evm-target_files-eng.B070387.zip ./signed.zip
(modify to your environment)

➔ Input each password before input

Below is the last command for generate signed image.

./build/tools/releasetools/img_from_target_files ./signed.zip signed_img.zip

If you unextract signed_img.zip, you can see all image files.

Then you download it.

3.5 Modify your image

After package signature, You cannot normal build. If you want to normal build again, please remove
build/target/product/security/ files and restore build/target/product/security/ files previously backup(3.2)

4 Media Stress Test

Since Android 4.0.3. R2 CTS, media stress test added. CTS media files can download below location.

<http://source.android.com/compatibility/downloads.html>

You must copy media files to sdcard in test folder. Please read README.txt in android-cts-media-1.0.zip

5 Troubleshootings

- Stopping test before end of the entire test
 - First, make device to stable. When device lock-up during test or CTS, CTS doesn't finish.
 - When adb connection is unstable, CTS stopped, please check adb connection(pc or cable ...)
 - We recommend package test of CTS, not total test(CTS plan)
- When network connection unstable or not working
 - If network connection unstable, get many fails. Please make sure network connection to stable.

6 Known Issues

- Android.holo test
 - Android.hool test failed depends on screen type and dpi
 - Android 4.0.3 CTS R2 was not considered for all of screen type. For example, if we use 800x480 lcd at ldpi(120dpi), android.holo test fails. Because Android 4.0.3 CTS R2 is not contain drawable-sw600dp-ldpi resource.
- Android 4.0.3 CTS R2 issue
 - <http://code.google.com/p/android/issues/detail?id=25450>
 - <http://code.google.com/p/android/issues/detail?id=25504>