

# **Telechips**

## **Android**

### **Kitkat**

## **CTS Guide**

**TCCxxxx-Android-ALL-V1.3E-CTS Guide**

**Rev. 1.3**

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***Telechips***

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**Revision History**

Date	Version	Description
2013-03-07	1.00	Initial
2013-04-29	1.10	Added setting up the CTS, Troubleshoot for GMS fail.
2013-05-22	1.20	Added V13.05 test result and analysis Updated setting up the CTS Updated troubleshoot
2014-03-25	1.30	Update for Kitkat

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## 1 Introduction

This document describes guide Android CTS.

## 2 Google Documents

Google provides Android 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. Setting up the CTS

#### 3.1 Setting up your device

Please refer to Compatibility Test Suite Manual and the below is additional step. Not following these instructions, it will lead to some failures.

-- To Be Determined

#### 3.2 Copying CTS media-files onto your device

These media files are required for the CTS media stress tests.

Instructions to copy the media files to a device:

1. Download the android-cts-media-X.Y.zip file from <http://source.android.com/compatibility/downloads.html> and unzip it.
2. Connect the device to the computer and check that adb can connect to it.
3. cd to the unzipped folder.
4. chmod 544 copy\_media.sh
5. Run `. copy_media.sh 1920x1080`

## 4. 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.

### 4.1 Make distribution image

# make dist

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

### 4.2 Backup test secutiry files

Backup build/target/product/security/ files

This files require build next time.

### 4.3 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

#### 4.4 Generate Signed Image

Android root #./build/tools/releasetools/sign\_target\_files\_apks -d build/target/product/security  
/home/B130016/android/JB/out/dist/full\_tcc8920\_evm-target\_files-eng.B130016.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.

#### 4.5 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)

## 5. Troubleshootings

-- To Be Determined

## 6. Test Result and Analysis

### 6.1 Test Result

-- To Be Determined

### 6.2 Analysis

-- To Be Determined