

Texas Instruments  
amsdk\_android

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AM335x\_ICS\_4.0.3

Test Report

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# Table Of Contents

## Compliance

Google's Compliance Test Suite(CTS) Automated

## Compatibility

## Reference Software

SDK's Calculator App

SDK's LunarLander App

SDK's ApiDemos App

Dalvik's Unit Tests

Apps for android Amazed App

Apps for android AndroidGlobalTime App

Apps for android AnyCut App

Apps for android Clickin2DaBeat App

Apps for android DivideAndConquer App

Apps for android HeightMapProfiler App

Apps for android LOLcat Builder App

Apps for android Panoramio App

Apps for android Photostream App

Apps for android Radar App

Apps for android RingsExtended App

Apps for android SpriteMethodTest App

Apps for android Translate App

Apps for android WebViewDemo App

Apps for android WikiNotes App

Replica Island

Development Tools

ADB USB

ADB Ethernet

DDMS

Multimedia

Audio

Encode

Audio-In

Decode

AAC LC/LTP

HE-AACv1 (AAC+)

HE-AACv2(enhanced AAC+)

AMR-NB

AMR WB

MP3

MIDI

Ogg Vorbis

PCM

Image

Decode

JPEG

PNG

GIF

BMP

Video

Decode

H.263

H.264

MPEG4 SP

MPEG4 352x288 15mbps aac

H.264 704x576 4mbps aac

H.264 640x360 4mbps aac

H.264 352x288 4mbps aac

H.263 352x288 4mbps aac

MPEG4 176x144 15mbps aac

MPEG4 640x360 15mbps aac

MPEG4 704x576 15mbps aac

MPEG4 720x480 15mbps aac

H.264 720x480 4mbps aac

MPEG4 BigBuckBunny

Performance

System

Boot time

Quadrant Benchmark

Graphics

3DAnimation

0xBench

0xBench Math Linpack test

0xBench Math Scimark2 test

0xBench 2D Draw Canvas test

0xBench 2D Draw Circle test

0xBench 2D Draw Circle2 test

Table Of Contents

0xBench 2D Draw Rect test

0xBench 2D Draw Arc test

0xBench 2D Draw Image test

0xBench 2D Draw Text test

0xBench 3D OpenGL Cube test

0xBench 3D OpenGL Blending test

0xBench 3D OpenGL Fog test

0xBench 3D OpenGL Flying Teapot test

0xBench VM Garbage Collection test

Netperf

TCP Stream, Buffer size 16 KB

TCP Stream, Buffer size 32 KB

TCP Stream, Buffer size 64 KB

TCP Stream, Buffer size 128 KB

TCP Stream, Buffer size 256

TCP Stream, Buffer size 512

TCP Stream, Buffer size 1024

TCP Stream, Buffer size 4096

TCP Stream, Buffer size 8192

Browser

Acid3 tests

Sunspider test

Kraken test

V8 Browser performance test

RowboPerf

Dhrystone

Whetstone

Linpack

adb

adb USB Performance

adb ethernet Performance

Storage

USB

USB vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 bytes

USB vfat partition write/read test with a block size of 4096 bytes and a file of

USB vfat partition write/read test with a block size of 16384 bytes and a file o

USB vfat partition write/read test with a block size of 65536 bytes and a file o

USB vfat partition write/read test with a block size of 524288 bytes and a file

USB vfat partition write/read test with a block size of 1048576 bytes and a file

USB vfat partition write/read test with a block size of 102400 bytes and a file

USB vfat partition write/read test with a block size of 262144 bytes and a file

USB vfat partition write/read test with a block size of 5242880 bytes and a file

MMC/SD

MMC/SD vfat partition write/read test with a block size of 512 bytes and a file

MMC/SD vfat partition write/read test with a block size of 4096 bytes and a file

MMC/SD vfat partition write/read test with a block size of 16384 bytes and a fil

MMC/SD vfat partition write/read test with a block size of 65536 bytes and a fil

MMC/SD vfat partition write/read test with a block size of 524288 bytes and a fi

MMC/SD vfat partition write/read test with a block size of 1048576 bytes and a f

MMC/SD vfat partition write/read test with a block size of 5242880 bytes and a file

MMC/SD vfat partition write/read test with a block size of 102400 bytes and a file

MMC/SD vfat partition write/read test with a block size of 262144 bytes and a file

Table Of Contents

Database

TestIndex

Idle power performance with all governor

Power

Idle power performance with all governor 500KHz

Idle power performance with all governor 275KHz

DVFS-Performance

Idle power performance with FULL WAKE LOCK

Idle power performance with SCREEN BRIGHT WAKE LOCK

Idle power performance with SCREEN DIM WAKE LOCK

Idle power performance with PARTIAL WAKE LOCK

Dhrystone power performance with PARTIAL WAKE LOCK

3D Graphics power performance

Audio + Video power performance

DVFS-Powersave

Idle power performance with FULL WAKE LOCK

Idle power performance with SCREEN BRIGHT WAKE LOCK

Idle power performance with SCREEN DIM WAKE LOCK

Idle power performance with PARTIAL WAKE LOCK

Dhrystone power performance with PARTIAL WAKE LOCK

3D Graphics power performance

Audio + Video power performance

DVFS-userspace

275KHz

Idle power performance with FULL WAKE LOCK

Idle power performance with SCREEN BRIGHT WAKE LOCK

Table Of Contents

Idle power performance with SCREEN DIM WAKE LOCK

Idle power performance with PARTIAL WAKE LOCK

Dhrystone power performance with PARTIAL WAKE LOCK

3D Graphics power performance

Audio + Video power performance

500KHz

Idle power performance with FULL WAKE LOCK

Idle power performance with SCREEN BRIGHT WAKE LOCK

Idle power performance with SCREEN DIM WAKE LOCK

Idle power performance with PARTIAL WAKE LOCK

Dhrystone power performance with PARTIAL WAKE LOCK

3D Graphics power performance

Audio + Video power performance

720KHz

Idle power performance with FULL WAKE LOCK

Idle power performance with SCREEN BRIGHT WAKE LOCK

Idle power performance with SCREEN DIM WAKE LOCK

Idle power performance with PARTIAL WAKE LOCK

Dhrystone power performance with PARTIAL WAKE LOCK

3D Graphics power performance

Audio + Video power performance

600KHz

Idle power performance with FULL WAKE LOCK

Debug: Idle power performance with FULL WAKE LOCK

Idle power performance with SCREEN BRIGHT WAKE LOCK

Idle power performance with SCREEN DIM WAKE LOCK



Idle power performance with PARTIAL WAKE LOCK

Dhrystone power performance with PARTIAL WAKE LOCK

3D Graphics power performance

Audio + Video power performance

DVFS-Ondemand(default)

Idle power performance with FULL WAKE LOCK

Idle power performance with SCREEN BRIGHT WAKE LOCK

Idle power performance with SCREEN DIM WAKE LOCK

Idle power performance with PARTIAL WAKE LOCK

Dhrystone power performance with PARTIAL WAKE LOCK

3D Graphics power performance

Audio + Video power performance

Suspend mode

SUSPEND MODE power consumption sleep while idle disabled and enable off mode disabled

SUSPEND MODE power consumption sleep while idle enabled and enable off mode enabled

WLAN

Non-secure

WLAN Non-secure, TCP Stream, Buffer size 1024

WLAN Non-secure, TCP Stream, Buffer size 4096

WLAN Non-secure, TCP Stream, Buffer size 8192

WLAN Non-secure, TCP Stream, Buffer size 16 KB

WLAN Non-secure, TCP Stream, Buffer size 32 KB

WLAN Non-secure, TCP Stream, Buffer size 64 KB

WLAN Non-secure, TCP Stream, Buffer size 128 KB

WEP 40 bits

WLAN WEP 40 bits, TCP Stream, Buffer size 1024

WLAN WEP 40 bits, TCP Stream, Buffer size 4096

WLAN WEP 40 bits, TCP Stream, Buffer size 8192

WLAN WEP 40 bits, TCP Stream, Buffer size 16 KB

WLAN WEP 40 bits, TCP Stream, Buffer size 32 KB

WLAN WEP 40 bits, TCP Stream, Buffer size 64 KB

WLAN WEP 40 bits, TCP Stream, Buffer size 128 KB

WEP 128 bits

WLAN WEP 128 bits, TCP Stream, Buffer size 1024

WLAN WEP 128 bits, TCP Stream, Buffer size 4096

WLAN WEP 128 bits, TCP Stream, Buffer size 8192

WLAN WEP 128 bits, TCP Stream, Buffer size 16 KB

WLAN WEP 128 bits, TCP Stream, Buffer size 32 KB

WLAN WEP 128 bits, TCP Stream, Buffer size 64 KB

WLAN WEP 128 bits, TCP Stream, Buffer size 128 KB

WPA-PSK

WLAN WPA-PSK, TCP Stream, Buffer size 1024

WLAN WPA-PSK, TCP Stream, Buffer size 4096

WLAN WPA-PSK, TCP Stream, Buffer size 8192

WLAN WPA-PSK, TCP Stream, Buffer size 16 KB

WLAN WPA-PSK, TCP Stream, Buffer size 32 KB

WLAN WPA-PSK, TCP Stream, Buffer size 64 KB

WLAN WPA-PSK, TCP Stream, Buffer size 128 KB

WPA2-PSK

WLAN WPA2-PSK, TCP Stream, Buffer size 1024

WLAN WPA2-PSK, TCP Stream, Buffer size 4096

WLAN WPA2-PSK, TCP Stream, Buffer size 8192

WLAN WPA2-PSK, TCP Stream, Buffer size 16 KB

WLAN WPA2-PSK, TCP Stream, Buffer size 32 KB

WLAN WPA2-PSK, TCP Stream, Buffer size 64 KB

WLAN WPA2-PSK, TCP Stream, Buffer size 128 KB

Gadget

Android Gadget

Stress

power long term

Long term Suspend Resume stress test

Long term graphic suspend resume

Long term ethernet suspend resume

Long term wlan suspend resume

Long term video suspend resume

Long term mmc suspend resume

Long term usb suspend resume

Monkey

Monkey System Stress

wireless

wifi data and Video/audio playing for long time

bluetooth

wifi open

wifi wpa-psk

wifi open and bluetooth

wifi wpa-psk and bluetooth

power

Short time Suspend Resume stress test

Table Of Contents

graphic suspend resume

ethernet suspend resume

wlan suspend resume

video suspend resume

mmc suspend resume

usb suspend resume

media

Android Music Play

Android Video play

Browser

Browser Stres test

Graphics

Graphics Stress Test

Graphics and Audio Stress Test

Graphics and Video Stress Test

Graphics and Audio and video Stress Test

LAN

LAN data and Video/audio playing for long time

2-hr Network Stream Test

5-min WLAN No Security Stream Test

5-min Network Stream Test

2-hr WLAN No Security Stream Test

Device IO

2-hr File copy Stress test between peripherals

wireless long term

Long term wifi wpa-psk and bluetooth

[Long term wifi open and bluetooth](#)

[Long term bluetooth](#)

[Long term wifi open](#)

[Long term wifi wpa-psk](#)

[Long term wifi data and Video/audio playing for long time](#)

[graphics long term](#)

[Long term Graphics and Audio and video Stress Test](#)

[Long term Graphics and Video Stress Test](#)

[Long term Graphics and Audio Stress Test](#)

[Long term Graphics Stress Test](#)

[Documentation](#)

[DevKit Users Guide](#)

[Release Notes](#)

[Porting Guide](#)

[CTS Report](#)

[DevKit Test Report](#)

[Eclipse Setup](#)

[ADB over Ethernet Setup](#)

[ADB over USB Setup](#)

[ADB .apk File Download](#)

[Eclipse APK File Download](#)

[DevKit Developers Guide](#)

[Document Format](#)

[Kitting](#)

[DevKit Content](#)

[Android Devkit apk file](#)

[Table Of Contents](#)

Download Page

arowboat.org Download Link

Functionality

System

System boot

System boot w/ console

OOB Demos

RootFS over NFS

Bluetooth

BT-Stream music to bluetooth stereo headset

Bluetooth Object push

BT-Verify that HID devices are working as expected

WLAN

Verify softAP functionality

Verify Wifi Direct functionality

Miscellaneous

Music application lists songs.

Music application lists Songs from External Storage and Recorded

Camera will be part of Android DevKit core applications

Dev Tools will be part of Android DevKit core applications

ICONS for standard applications will be placed on main window

Security will be turned ON in Android Layer

Android DevKit should contain Sources for Linux Kernel

The DevKit installer should work on a ubuntu Linux host machine

Links to support infrastructure on e2e and rowboat to be provided

Email will be part of Android DevKit core applications

Table Of Contents

Links to raise defects against this release should be provided

Customers should be notified about devkit release through TI news, infolink, android porting mailing

Calendar will be part of Android DevKit core applications

Android home screen contains Launcher -

Android home screen contains Global Search Bar

Android Home Screen contains Tips widget to give important Tips

Additional Widgets can be added to Home Screen by a long press on

Multiple Home Screen (5 Screens)

Slidable Status bar

Wallpaper can be changed

Keypad contains HOME, BACK, POWER and MENU Keys.

Gallery will be part of Android DevKit core applications

Launcher will be part of Android DevKit core applications

Global Search will be part of Android DevKit core applications

Settings application helps to configure Sound, Display and various OOB settings

Control/informative

Hardware Volume Controls

IO

Android DevKit supports Touchscreen

Android DevKit supports Mouse

Processor Speed

Android DevKit supports Cortex A8 ARM up to Maximum Frequency

Android DevKit supports SGX up to Maximum Frequency

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## 1 Test Suite : Compliance

### **Test Case amsdkA-403: Google's Compliance Test Suite(CTS) Automated**

#### Summary:

This is to verify platform MUST pass the most recent version of the Android Compatibility Test Suite (CTS) available at the time of the device implementation's software is completed.

#### Steps:

- 1) download latest CTS and install on your PC(TEE)
- 2) update this test case parameters like cts\_dir and cts\_res\_dir using your new installation dir.
- 3) assign the test plan you want run(default is CTS) for the variable test\_plan.
- 4) start staf and others.

#### Expected Results:

Compliance test must pass with percentage greater than 95.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Tests Passed 17092 Tests Failed 225 Tests Timed out 0 Tests Not Executed 0

## **2 Test Suite : Compatibility**

This test suite tries to validate system compatibility with Android per Google's Compatibility Definition Document (CDD) available at

<http://source.android.com/compatibility/android-2.1-cdd.pdf>

### **2.1 Test Suite : Reference Software**



### Test Case amsdkA-9: SDK's Calculator App

Summary:

Run Calculator app (from Google's SDK)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

### Test Case amsdkA-10: SDK's LunarLander App

Summary:

Run LunarLander app (from Google's SDK)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

### Test Case amsdkA-12: SDK's ApiDemos App

Summary:

Run ApiDemos app (from Google's SDK)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

### Test Case amsdkA-13: Dalvik's Unit Tests

Summary:

Run Dalvik VM unit tests (from /dalvik/tests/)

Expected Results:

All Dalvik VM tests passed

Last Result: **Failed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes  
passed: 85 test(s)  
failed: 3 test(s)  
failed: 030-bad-finalizer  
failed: 071-dexfile

failed: 089-jumbo-opcodes

#### **Test Case amsdkA-384: Apps for android Amazed App**

Summary:

Run Amazed app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

#### **Test Case amsdkA-385: Apps for android AndroidGlobalTime App**

Summary:

Run AndroidGlobalTime app (from  
<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Failed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Does not compile

#### **Test Case amsdkA-386: Apps for android AnyCut App**

Summary:

Run AnyCut app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

#### **Test Case amsdkA-387: Apps for android Clickin2DaBeat App**

Summary:

Run Clickin2DaBeat app (from  
<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-388: Apps for android DivideAndConquer App**

Summary:  
Run DivideAndConquer app (from  
<http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK  
Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-389: Apps for android HeightMapProfiler App**

Summary:  
Run HeightMapProfiler app (from  
<http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK  
Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-390: Apps for android LOLcat Builder App**

Summary:  
Run LOLcat Builder app (from  
<http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK  
Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-391: Apps for android Panoramio App**

Summary:  
Run Panoramio app (from <http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Failure [INSTALL\_FAILED\_MISSING\_SHARED\_LIBRARY]

#### **Test Case amsdkA-392: Apps for android Photostream App**

Summary:  
Run Photostream app (from  
<http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK  
Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-393: Apps for android Radar App**

Summary:  
Run Radar app (from <http://code.google.com/p/apps-for-android/>)  
Expected Results:  
Application APK is properly installed and runs OK  
Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Failure [INSTALL\_FAILED\_MISSING\_SHARED\_LIBRARY]

#### **Test Case amsdkA-394: Apps for android RingsExtended App**

Summary:  
  
Run RingsExtended app (from  
<http://code.google.com/p/apps-for-android/>)  
Steps:  
  
1) instal RingsExtended apk  
  
2) on the louncher open setting  
  
3) select sound-> Phone Rington->Rings Extended then test the functions.  
Expected Results:

Application APK is properly installed and runs OK

Last Result:       **Passed**  
Build               2012-3-29  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-396: Apps for android SpriteMethodTest App**

Summary:

Run SpriteMethodTest app (from  
<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result:       **Passed**  
Build               2012-3-29  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-397: Apps for android Translate App**

Summary:

Run Translate app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result:       **Passed**  
Build               2012-3-29  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-398: Apps for android WebViewDemo App**

Summary:

Run WebViewDemo app (from  
<http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result:       **Passed**  
Build               2012-3-29  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-399: Apps for android WikiNotes App**

Summary:

Run WikiNotes app (from <http://code.google.com/p/apps-for-android/>)

Expected Results:

Application APK is properly installed and runs OK

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

#### **Test Case amsdkA-233: Replica Island**

Summary:

Run Replica Island Game

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

## **2.2 Test Suite : Development Tools**

#### **Test Case amsdkA-14: ADB USB**

Summary:

Use Android Debug Bridge (adb) tool to connect to the target via USB port and install an application (.apk)

Expected Results:

adb recognizes the device (adb devices) and can connect to it (adb shell)

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

#### **Test Case amsdkA-15: ADB Ethernet**

Summary:

Use Android Debug Bridge (adb) tool to connect to the target via ethernet port and install an application (.apk)

Steps:

On the host machine run the following commands from terminal shell: \$ export ADBHOST= \$ adb kill-server \$ adb start-server On the target, type the following commands to avoid ADBD defaulting to USB transport. Restart ADBD to take the changed settings.: # setprop service.adb.tcp.port 5555 # stop adbd # start adbd

Expected Results:

adb recognizes the device (adb devices) and can connect to it (adb shell)

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-16: DDMS**

Summary:

Use Dalvik Debug Monitor Service (DDMS) to watch processes running in the target, see process' threads, etc. Try to capture the device screen and to kill one process using DDMS.

Steps:

It is recommended to install Eclipse and the Android development (ADT) plugin to use DDMS, however it is not mandatory

Expected Results:

DDMS can connect to the device debug data is shown to the user

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 2.3 Test Suite : Multimedia

### 2.3.1 Test Suite : Audio

#### 2.3.1.1 Test Suite : Encode

**Test Case amsdkA-1029: Audio-In**

Summary:

Verify Audio in functionality on the board.

Steps:

- Connect a microphone to the audio in jack.
- Use the speech recorder app to record and audio file.
- Verify that the audio was recorded without problems by playing

the recorded file in the host machine and by playing the recorded file on the board and listening in audio out.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 2.3.1.2 Test Suite : Decode

### Test Case amsdkA-28: AAC LC/LTP

Summary:

Mono/Stereo content in any combination of standard bit rates up to 160 kbps and sampling rates between 8 to 48kHz. File Fortmat is 3GPP (.3gp) and MPEG-4 (.mp4, .m4a). No support for raw AAC (.aac)

Expected Results:

Audio file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

### Test Case amsdkA-29: HE-AACv1 (AAC+)

Summary:

Mono/Stereo content in any combination of standard bit rates up to 160 kbps and sampling rates between 8 to 48kHz. File Fortmat is 3GPP (.3gp) and MPEG-4 (.mp4, .m4a). No support for raw AAC (.aac)

Expected Results:

Audio file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH



**Test Case amsdkA-30: HE-AACv2(enhanced AAC+)**

Summary:

Mono/Stereo content in any combination of standard bit rates up to 160 kbps and sampling rates between 8 to 48kHz. File Fortmat is 3GPP (.3gp) and MPEG-4 (.mp4, .m4a). No support for raw AAC (.aac)

Expected Results:

Audio file plays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-31: AMR-NB**

Summary:

4.75 to 12.2 kbps, sampled @ 8kHz, in a 3GPP (.3gp) container

Expected Results:

Audio file plays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-32: AMR WB**

Summary:

9 rates from 6.60 kbit/s to 23.85 kbit/s sampled @ 16kHz using 3GPP (.3gp) file format

Expected Results:

Audio file plays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

LOG PATH

### Test Case amsdkA-33: MP3

Summary:

Mono/Stereo 8-320Kbps constant (CBR) or variable bit-rate (VBR) in a MP3 (.mp3) container

Expected Results:

Audio file plays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### Test Case amsdkA-34: MIDI

Summary:

MIDI Type 0 and 1. DLS Version 1 and 2. XMF and Mobile XMF. Support for ringtone formats RTTTL/RTX, OTA and iMelody. File formats: Type 0 and 1 (.mid, .xmf, .mxmf). Also RTTTL/RTX (.rtttl, .rtx), OTA (.ota), and iMelody (.imy)

Expected Results:

Audio files play fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

### LOG PATH

### Test Case amsdkA-35: Ogg Vorbis

Summary:

Ogg Vorbis files in a Ogg (.ogg) container

Expected Results:

Audio file plays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### Test Case amsdkA-36: PCM

Summary:

8- and 16-bit linear PCM (rates up to limit of hardware) in a Wave (.wav) container

Expected Results:

Audio file plays fine

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

## 2.3.2 Test Suite : Image

### 2.3.2.1 Test Suite : Decode

### Test Case amsdkA-39: JPEG

Summary:

Display JPEG files using the Gallery app.

Steps:

Use the media app to display .jpg files, if no JPEG files in dut:

- Push a jpeg file to the dut via adb, "adb push <path to jpeg file> /sdcard/Images/<jpef file name>".

- Go to Launcher->Dev tools -> Media Scanner.

- Open the jpeg file with the Gallery app.

Expected Results:

File displays fine

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

### Test Case amsdkA-40: PNG

Summary:

Display PNG image with Galllery app.

Steps:

Use the media app to display .png files, if no PNG files in dut:

- Push a .png file to the dut via adb, "adb push <path to png file> /sdcard/Images/<png file name>.
- Go to Launcher->Dev tools -> Media Scanner.
- Open the png file with the Gallery app.

Expected Results:

File displays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

#### **Test Case amsdkA-41: GIF**

Summary:

Display GIF image with Gallery app.

Steps:

Use the media app to display .gif files, if no GIF files in dut:

- Push a .gif file to the dut via adb, "adb push <path to gif file> /sdcard/Images/<gif file name>.
- Go to Launcher->Dev tools -> Media Scanner.
- Open the gif file with the Gallery app.

Expected Results:

File displays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

#### **Test Case amsdkA-42: BMP**

Summary:

Display BMP Image with Gallery app.

Steps:

Use the media app to display .bmp files, if no BMP files in dut:

- Push a .bmp file to the dut via adb, "adb push <path to bmp file> /sdcard/Images/<bmp file name>."
- Go to Launcher->Dev tools -> Media Scanner.
- Open the bmp file with the Gallery app.

Expected Results:

File displays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

## 2.3.3 Test Suite : Video

### 2.3.3.1 Test Suite : Decode

#### Test Case amsdkA-44: H.263

Summary:

H.263 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

LOG PATH

#### Test Case amsdkA-45: H.264

Summary:

H.264 files in 3GPP (.3gp) and MPEG-4 (.mp4) container

Expected Results:

### 2.3.3.1 Test Suite : Decode

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

#### **Test Case amsdkA-46: MPEG4 SP**

Summary:

MPEG4 Simple Profile files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

#### **Test Case amsdkA-772: MPEG4\_352x288\_15mbps\_aac**

Summary:

H.264 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

#### **Test Case amsdkA-774: H.264\_704x576\_4mbps\_aac**

Summary:

H.264 files in mpeg4 (.mp4) container

Expected Results:

Video file plays fine

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case FAIL.

LOG PATH

**Test Case amsdkA-775: H.264\_640x360\_4mbps\_aac**

Summary:

H.263 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-776: H.264\_352x288\_4mbps\_aac**

Summary:

H.264 files in 3GPP(.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-777: H.263\_352x288\_4mbps\_aac**

Summary:

H.263 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-779: MPEG4\_176x144\_15mbps\_aac**

Summary:

H.264 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-780: MPEG4\_640x360\_15mbps\_aac**

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-781: MPEG4\_704x576\_15mbps\_aac**



Summary:

H.263 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-782: MPEG4\_720x480\_15mbps\_aac**

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-784: H.264\_720x480\_4mbps\_aac**

Summary:

H.264 files in mpeg4 (.mp4) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-787: MPEG4\_BigBuckBunny**

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

## 3 Test Suite : Performance

This test suite tries to measure key performance metrics in different areas:

1. System
2. Graphics
3. Browser

### 3.1 Test Suite : System

#### Test Case amsdkA-117: Boot time

Summary:

Measure the time it takes since kernel image starts being downloaded until Android home screen appears.

Steps:

Boot the DUT and measure the boot time.

Expected Results:

Less or equal than previous release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes First boot: 90 sec

Others: 32 sec

### **Test Case amsdkA-593: Quadrant Benchmark**

Summary:

Install and run aurorasoftworks Quadrant benchamrk

Steps:

Install and run Qudrant, and save the results

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

## **3.2 Test Suite : Graphics**

### **Test Case amsdkA-764: 3DAnimation**

Summary:

Run the Animation3D.apk which is located on gtautoftp/android/common/cdd\_app.

This application demonstrates 3d graphics with animation.

Steps:

1) install application using the command "adb install".

2) run the application.

Expected Results:

Application runs ok. A room is cteated with different colors and 9 ball are moving inside the room.

The balls have red, blue and green color and randorm shape. There should not be exception or eroor on the log cat.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

## **3.3 Test Suite : 0xBench**

**Test Case amsdkA-89: 0xBench Math Linpack test**

Summary:

0xBench Math Linpack test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes MathLinpack performance data collected successfully

LOG PATH

**Test Case amsdkA-90: 0xBench Math Scimark2 test**

Summary:

0xBench Math Scimark2 test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes MathScimark2 performance data collected successfully

LOG PATH

**Test Case amsdkA-91: 0xBench 2D Draw Canvas test**

Summary:

0xBench 2D Draw Canvas test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes 2DDrawCanvas performance data collected successfully

LOG PATH

**Test Case amsdkA-92: 0xBench 2D Draw Circle test**

Summary:

0xBench 2D Draw Circle test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes      2DDrawCircle performance data collected successfully

LOG PATH

**Test Case amsdkA-93: 0xBench 2D Draw Circle2 test**

Summary:

0xBench 2D Draw Circle2 test.

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      2DDrawCircle2 performance data collected successfully

LOG PATH

**Test Case amsdkA-94: 0xBench 2D Draw Rect test**

Summary:

0xBench 2D Draw Rect test.

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      2DDrawRect performance data collected successfully

LOG PATH

**Test Case amsdkA-95: 0xBench 2D Draw Arc test**

Summary:

0xBench 2D Draw Arc test.

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      2DDrawArc performance data collected successfully

LOG PATH

**Test Case amsdkA-96: 0xBench 2D Draw Image test**

Summary:

0xBench 2D Draw Image test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes 2DDrawImage performance data collected successfully

LOG PATH

**Test Case amsdkA-97: 0xBench 2D Draw Text test**

Summary:

0xBench2D Draw Text test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes 2DDrawText performance data collected successfully

LOG PATH

**Test Case amsdkA-98: 0xBench 3D OpenGL Cube test**

Summary:

0xBench 3D OpenGL Cube test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLCube performance data collected successfully

LOG PATH

**Test Case amsdkA-99: 0xBench 3D OpenGL Blending test**

Summary:

0xBench 3D OpenGL Blending test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLBlending performance data collected successfully

LOG PATH

**Test Case amsdkA-100: 0xBench 3D OpenGL Fog test**

Summary:

0xBench 3D OpenGL Fog test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLFog performance data collected successfully

LOG PATH

**Test Case amsdkA-101: 0xBench 3D OpenGL Flying Teapot test**

Summary:

0xBench 3D OpenGL Flying Teapot test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLTeapot performance data collected successfully

LOG PATH

**Test Case amsdkA-102: 0xBench VM Garbage Collection test**

Summary:

0xBench VM Garbage Collection test.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes VMGC performance data collected successfully

LOG PATH

## 3.4 Test Suite : Netperf

Tool to measure TCP/UDP bandwidth.

More information available at <http://www.netperf.org/netperf/NetperfPage.html>

### **Test Case amsdkA-105: TCP Stream, Buffer size 16 KB**

#### Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

#### Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 16"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 16384 93.82

#### LOG PATH

### **Test Case amsdkA-106: TCP Stream, Buffer size 32 KB**

#### Summary:



## testreport AM335x\_ICS\_4.0.3

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 32"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 32768 93.97

### LOG PATH

#### **Test Case amsdkA-107: TCP Stream, Buffer size 64 KB**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 64

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 65536 94.04

LOG PATH

**Test Case amsdkA-108: TCP Stream, Buffer size 128 KB**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 128

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 131072 94.08

LOG PATH

**Test Case amsdkA-109: TCP Stream, Buffer size 256**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 256

Last Result: **Failed**

Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Performance is less than 30.0 Mb/s. AVG Throughput=0.41 Buffer Size Throughput 256 0.41

LOG PATH

**Test Case amsdkA-110: TCP Stream, Buffer size 512**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 512"

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Performance is less than 30.0 Mb/s. AVG Throughput=0.41 Buffer Size Throughput 512 0.41

LOG PATH

### Test Case amsdkA-111: TCP Stream, Buffer size 1024

#### Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

#### Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 1024"

Last Result:	<b>Failed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Performance is less than 30.0 Mb/s. AVG Throughput=0.41 Buffer Size Throughput 1024 0.41

#### LOG PATH

### Test Case amsdkA-112: TCP Stream, Buffer size 4096

#### Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

#### Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 4096

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 4096 84.62

#### LOG PATH

#### **Test Case amsdkA-113: TCP Stream, Buffer size 8192**

Summary:

Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

1) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

2) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

3) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 8192

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 8192 92.89

LOG PATH

## 3.5 Test Suite : Browser

Measure browser performance using publicly available tools.

### Test Case amsdkA-262: Acid3 tests

Summary:

Measure Browser functionality and performance by running <http://acid3.acidtests.org/> tests

Steps:

Run automated test or manually open the browser and go to <http://acid3.acidtests.org/>

Expected Results:

Score 100 out of 100.

Last Result:	<b>Passed</b>
Build	2012-3-29

Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-115: Sunspider test**

Summary:

Measure Javascript performance by running  
<http://www2.webkit.org/perf/sunspider/sunspider.html> tests

Steps:

Run automated test or manually open the browser and go to  
<http://www2.webkit.org/perf/sunspider-0.9/sunspider.html>

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

**Test Case amsdkA-263: Kraken test**

Summary:

Measure Browser Javascript performance by running  
<http://krakenbenchmark.mozilla.org/index.html> tests

Steps:

Run automated test or manually open the browser and go to  
<http://krakenbenchmark.mozilla.org/index.html>

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes SIGTERM



LOG PATH

**Test Case amsdkA-264: V8 Browser peformance test**

Summary:

Measure Javascript performance by running  
<http://v8.googlecode.com/svn/data/benchmarks/v6/run.html> tests

Steps:

Run automated test or manually open the browser and go to  
<http://v8.googlecode.com/svn/data/benchmarks/v6/run.html>

Expected Results:

At least a score of 100.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

LOG PATH

## 3.6 Test Suite : RowboPerf

Various Performance metrics

**Test Case amsdkA-118: Dhrystone**

Summary:

Measure Dhrystone bechmark

Steps:

Run RowboPerf's Dhrystone application

Expected Results:

As good or better than previous

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

Testing notes      Test case PASS.

LOG PATH

**Test Case amsdkA-119: Whetstone**

Summary:

Measure Whetstone metric

Steps:

Run RowboPerf's Whetstone application

Expected Results:

As good or better than previous release

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      Test case PASS.

LOG PATH

**Test Case amsdkA-120: Linpack**

Summary:

Measure Linpack metrics

Steps:

Run RowboPerf's Linpack application

Expected Results:

As good or better than previous release

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      Test case PASS.

LOG PATH

## 3.7 Test Suite : adb

Android Debug Bridge performance.

Before running each automated test case, the user MUST set enable in the target and in the host PC, the desire adb connection type (i.e. usb or ethernet).

The test cases do not take care of setting the adb type but instead will use the default adb connectivity available.

### **Test Case amsdkA-121: adb USB Performance**

Summary:

Measure Android Debug bridge performance using USB connection

Steps:

Push and pull a 20MB file 10 times and measure the throughput

Expected Results:

As good or better than previous release

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Mean-TX=2908.4 Mean-RX=4140.4

LOG PATH

### **Test Case amsdkA-122: adb ethernet Performance**

Summary:

Measure Android Debug bridge performance using ethernet connection

Steps:

Push and pull a 20MB file 10 times and measure the throughput

Expected Results:

As good or better than previous release

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Mean-TX=2647.9 Mean-RX=4039.4

LOG PATH

## 3.8 Test Suite : Storage

Read and Write performance tests

### 3.8.1 Test Suite : USB

**Test Case amsdkA-265: USB vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 bytes**

Summary:

USB vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 512 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes      StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-266: USB vfat partition write/read test with a block size of 4096 bytes and a file of**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (101 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 4096 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 4096 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 4096 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result:      **Passed**

Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-267: USB vfat partition write/read test with a block size of 16384 bytes and a file o**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (102 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 16384 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-268: USB vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (102 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 65536 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-269: USB vfat partition write/read test with a block size of 524288 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (103 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 524288 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput



Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-270: USB vfat partition write/read test with a block size of 1048576 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (104 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 1048576 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 1048576 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 1048576 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-888: USB vfat partition write/read test with a block size of 102400 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (104 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 102400 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 102400 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 102400 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-889: USB vfat partition write/read test with a block size of 262144 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (104 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 262144 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 262144 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 262144 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen

## 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

### LOG PATH

#### **Test Case amsdkA-890: USB vfat partition write/read test with a block size of 5242880 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (104 chars) > 100 => has been truncated

Original name

USB vfat partition write/read test with a block size of 5242880 bytes and a file of size 104857600 bytes

---- \*\*\* ----

USB vfat partition write/read test with a block size of 5242880 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a USB vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 5242880 in the Block Size: field
- 6) Enter 104857600 in the File Size: field

7) Click the Run button, and wait for the results screen

8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

## 3.8.2 Test Suite : MMC/SD

### **Test Case amsdkA-277: MMC/SD vfat partition write/read test with a block size of 512 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (103 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 512 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut

- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 512 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-278: MMC/SD vfat partition write/read test with a block size of 4096 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (104 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 4096 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 4096 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted

- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 4096 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-279: MMC/SD vfat partition write/read test with a block size of 16384 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (105 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 16384 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut

- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 16384 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as good or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-280: MMC/SD vfat partition write/read test with a block size of 65536 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (105 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes

Steps:

Manual execution



- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 65536 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-281: MMC/SD vfat partition write/read test with a block size of 524288 bytes and a fi**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (106 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 524288 bytes and a file of size 104857600 bytes

Steps:

#### Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 524288 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

#### Expected Results:

Throughput should be as goog or better than the last release

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

#### LOG PATH

#### **Test Case amsdkA-282: MMC/SD vfat partition write/read test with a block size of 1048576 bytes and a f**

#### Summary:

---- Warning ----

TestLink Warning

test case name is too long (107 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 1048576 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 1048576 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 1048576 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-891: MMC/SD vfat partition write/read test with a block size of 5242880 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (103 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 5242880 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 5242880 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 5242880 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-892: MMC/SD vfat partition write/read test with a block size of 102400 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (103 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 102400 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 102400 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 102400 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

**Test Case amsdkA-893: MMC/SD vfat partition write/read test with a block size of 262144 bytes and a file**

Summary:

---- Warning ----

TestLink Warning

test case name is too long (103 chars) > 100 => has been truncated

Original name

MMC/SD vfat partition write/read test with a block size of 262144 bytes and a file of size 104857600 bytes

---- \*\*\* ----

MMC/SD vfat partition write/read test with a block size of 262144 bytes and a file of size 104857600 bytes

Steps:

Manual execution

- 1) Verify that you have StorageIO installed in the dut
- 2) Mount a MMC/SD vfat partition on the dut's file system, if not already mounted
- 3) Start StorageIO on the dut
- 4) Select the partition mounted in step 2) from the External Device: Spinner
- 5) Enter 262144 in the Block Size: field
- 6) Enter 104857600 in the File Size: field
- 7) Click the Run button, and wait for the results screen
- 8) Collect the Write and Read Throughput

Expected Results:

Throughput should be as goog or better than the last release

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

## 3.9 Test Suite : Database

## 3.9.1 Test Suite : TestIndex

Run MCOBJECT's Testindex database performance app available at

<http://www.mcoobject.com/index.cfm?fuseaction=download&pageid=581&sectionid=133>

### **Test Case amsdkA-1065: Idle power performance with all governor**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

## 3.10 Test Suite : Power

This Test Suite Measure power consumption under different scenarios.

It is required to have a Keithley 2000 Multimeter with a scan card with at least 5 channels.

The channels must be connected as described in the attached document.

See test cases for more details.

**Test Case amsdkA-1064: Idle power performance with all governor  
500KHz**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1066: Idle power performance with all governor  
275KHz**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:



Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

## 3.10.1 Test Suite : DVFS-Performance

### **Test Case amsdkA-315: Idle power performance with FULL\_WAKE\_LOCK**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-316: Idle power performance with  
SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_BRIGHT WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-317: Idle power performance with**

## **SCREEN\_DIM\_WAKE\_LOCK**

### Summary:

Acquire SCREEN\_DIM WakeLock and measure power w/out running any other application

### Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

### Expected Results:

100 power samples will be collected in the performance table

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Power Performance data collected

### LOG PATH

## **Test Case amsdkA-318: Idle power performance with PARTIAL\_WAKE\_LOCK**

### Summary:

Acquire PARTIAL WakeLock and measure power w/out running any other application

### Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Power Performance data collected

LOG PATH

### **Test Case amsdkA-319: Dhrystone power performance with PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Power Performance data collected

LOG PATH

### **Test Case amsdkA-320: 3D Graphics power performance**

Summary:

Measure power while running 3D graphics application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-321: Audio + Video power performance**

Summary:

Measure power while running video and audio decode and playback

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

## 3.10.2 Test Suite : DVFS-Powersave

### Test Case amsdkA-322: Idle power performance with FULL\_WAKE\_LOCK

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-323: Idle power performance with  
SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_BRIGHT WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-324: Idle power performance with  
SCREEN\_DIM\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_DIM WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-325: Idle power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead



Testing notes      Power Performance data collected

LOG PATH

**Test Case amsdkA-326: Dhrystone power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      Power Performance data collected

LOG PATH

**Test Case amsdkA-327: 3D Graphics power performance**

Summary:

Measure power while running 3D graphics application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-328: Audio + Video power performance**

Summary:

Measure power while running video and audio decode and playback

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

## 3.10.3 Test Suite : DVFS-userspace

### 3.10.3.1 Test Suite : 275KHz

#### **Test Case amsdkA-1015: Idle power performance with FULL\_WAKE\_LOCK**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

#### **Test Case amsdkA-1016: Idle power performance with SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_BRIGHT WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-1017: Idle power performance with SCREEN\_DIM\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_DIM WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1018: Idle power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1019: Dhrystone power performance with**

## **PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

### LOG PATH

## **Test Case amsdkA-1020: 3D Graphics power performance**

Summary:

Measure power while running 3D graphics application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-1021: Audio + Video power performance**

Summary:

Measure power while running video and audio decode and playback

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

## **3.10.3.2 Test Suite : 500KHz**

**Test Case amsdkA-1000: Idle power performance with  
FULL\_WAKE\_LOCK**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1001: Idle power performance with  
SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_BRIGHT WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,



chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1002: Idle power performance with  
SCREEN\_DIM\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_DIM WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1003: Idle power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1004: Dhrystone power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-1005: 3D Graphics power performance**

Summary:

Measure power while running 3D graphics application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-1006: Audio + Video power performance**

Summary:

Measure power while running video and audio decode and playback

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### 3.10.3.3 Test Suite : 720KHz

**Test Case amsdkA-985: Idle power performance with  
FULL\_WAKE\_LOCK**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-986: Idle power performance with SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_BRIGHT WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-987: Idle power performance with  
SCREEN\_DIM\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_DIM WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-988: Idle power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-989: Dhrystone power performance with PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-990: 3D Graphics power performance**

Summary:

Measure power while running 3D graphics application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-991: Audio + Video power performance**

Summary:

Measure power while running video and audio decode and playback

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.



chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### 3.10.3.4 Test Suite : 600KHz

#### **Test Case amsdkA-353: Idle power performance with FULL\_WAKE\_LOCK**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-931: Debug: Idle power performance with  
FULL\_WAKE\_LOCK**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Acquire CPU load stats while test is running for debugging purposes

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-354: Idle power performance with  
SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_BRIGHT WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-355: Idle power performance with  
SCREEN\_DIM\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_DIM WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-356: Idle power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-357: Dhrystone power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-358: 3D Graphics power performance**

Summary:

Measure power while running 3D graphics application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-359: Audio + Video power performance**

Summary:

Measure power while running video and audio decode and playback

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

## **3.10.4 Test Suite : DVFS-Ondemand(default)**

**Test Case amsdkA-308: Idle power performance with  
FULL\_WAKE\_LOCK**

Summary:

Acquire FULL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-309: Idle power performance with  
SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_BRIGHT WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-310: Idle power performance with  
SCREEN\_DIM\_WAKE\_LOCK**

Summary:

Acquire SCREEN\_DIM WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected



LOG PATH

**Test Case amsdkA-311: Idle power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power w/out running any other application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-312: Dhrystone power performance with  
PARTIAL\_WAKE\_LOCK**

Summary:

Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

### **Test Case amsdkA-313: 3D Graphics power performance**

Summary:

Measure power while running 3D graphics application

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

**Test Case amsdkA-314: Audio + Video power performance**

Summary:

Measure power while running video and audio decode and playback

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

## 3.10.5 Test Suite : Suspend mode

**Test Case amsdkA-335: SUSPEND MODE power consumption  
sleep\_while\_idle disabled and enable\_off\_mode disabled**

Summary:

Measure power while system is in SUSPEND mode

Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

#### Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

#### LOG PATH

### **Test Case amsdkA-336: SUSPEND MODE power consumption sleep\_while\_idle enabled and enable\_off\_mode enabled**

#### Summary:

Measure power while system is in SUSPEND mode

#### Steps:

Connect Keithley 2000 Multimeter as described in attached doc.

chan1 measures voltage drop at vdd1,

chan2 measures voltage drop at vdd2,

chan3 is ignored,

chan4=vdd1 and chan5=vdd2

Run automated power\_perf.rb script using VATF TEE

#### Expected Results:

100 power samples will be collected in the performance table

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

## 3.11 Test Suite : WLAN

Measure wireless LAN performance using NETPERF.

The Setup involves connecting the DUT to an access point that has a Linux system connected to it via Ethernet switch. Netserver is run at the Linux Host, while netperf is run at the DUT.

More information about NETPERF is available at <http://www.netperf.org/netperf/NetperfPage.html>

### 3.11.1 Test Suite : Non-secure

#### **Test Case amsdkA-292: WLAN Non-secure, TCP Stream, Buffer size 1024**

Summary:

WLAN Non-secure test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a Non-secure wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 1024"

Last Result: **Failed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Performance is less than 1.5 Mb/s. AVG Throughput=0.33 Buffer Size  
Throughput 1024 0.33

LOG PATH

**Test Case amsdkA-293: WLAN Non-secure, TCP Stream, Buffer size  
4096**

Summary:

WLAN Non-secure test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a Non-secure wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 4096"

Last Result: **Passed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Buffer Size Throughput 4096 10.55

LOG PATH

**Test Case amsdkA-294: WLAN Non-secure, TCP Stream, Buffer size 8192**

Summary:

WLAN Non-secure test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a Non-secure wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 8192"

Last Result: **Failed**  
Build 2012-3-29

Tester	linux_psp_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=12.0 Buffer Size Throughput 8192 12.0

LOG PATH

**Test Case amsdkA-894: WLAN Non-secure, TCP Stream, Buffer size 16 KB**

Summary:

WLAN Non-secure test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a Non-secure wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 16384

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 16384 15.85



LOG PATH

**Test Case amsdkA-895: WLAN Non-secure, TCP Stream, Buffer size 32 KB**

Summary:

WLAN Non-secure test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a Non-secure wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 32768"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 32768 29.36

LOG PATH

**Test Case amsdkA-896: WLAN Non-secure, TCP Stream, Buffer size 64 KB**

Summary:

WLAN Non-secure test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a Non-secure wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 65536"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 65536 30.64

**LOG PATH**

**Test Case amsdkA-897: WLAN Non-secure, TCP Stream, Buffer size 128 KB**

Summary:

WLAN Non-secure test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a Non-secure wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 131702

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 131702 28.47

LOG PATH

## 3.11.2 Test Suite : WEP 40 bits

**Test Case amsdkA-295: WLAN WEP 40 bits, TCP Stream, Buffer size 1024**

Summary:

WLAN WEP 40 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 40 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 1024

Last Result:	<b>Failed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Performance is less than 1.5 Mb/s. AVG Throughput=0.34 Buffer Size Throughput 1024 0.34

LOG PATH

**Test Case amsdkA-296: WLAN WEP 40 bits, TCP Stream, Buffer size 4096**

Summary:

WLAN WEP 40 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 40 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 4096"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 4096 5.56

LOG PATH

**Test Case amsdkA-297: WLAN WEP 40 bits, TCP Stream, Buffer size 8192**

Summary:

WLAN WEP 40 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 40 bits wlan in the access point and the dut

2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 8192

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 8192 13.2

#### LOG PATH

### **Test Case amsdkA-898: WLAN WEP 40 bits, TCP Stream, Buffer size 16 KB**

Summary:

WLAN WEP 40 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 40 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 16384

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 16384 13.46

#### LOG PATH

### **Test Case amsdkA-899: WLAN WEP 40 bits, TCP Stream, Buffer size 32 KB**

Summary:

WLAN WEP 40 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 40 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

3) Start netserver in the Host Machine (Linux preferably)

## testreport AM335x\_ICS\_4.0.3

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 32768

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 32768 19.95

### LOG PATH

### **Test Case amsdkA-900: WLAN WEP 40 bits, TCP Stream, Buffer size 64 KB**

Summary:

WLAN WEP 40 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 40 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.



4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 65536

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 65536 21.01

LOG PATH

**Test Case amsdkA-901: WLAN WEP 40 bits, TCP Stream, Buffer size 128 KB**

Summary:

WLAN WEP 40 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 40 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 131702

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 131702 21.12

LOG PATH

### 3.11.3 Test Suite : WEP 128 bits

#### **Test Case amsdkA-298: WLAN WEP 128 bits, TCP Stream, Buffer size 1024**

Summary:

WLAN WEP 128 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 128 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 1024

Last Result: **Failed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Performance is less than 1.5 Mb/s. AVG Throughput=0.33 Buffer Size  
Throughput 1024 0.33

LOG PATH

**Test Case amsdkA-299: WLAN WEP 128 bits, TCP Stream, Buffer size  
4096**

Summary:

WLAN WEP 128 bits test, measures TCP bandwidth between Server  
(Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 128 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing  
"netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may  
type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and  
-4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an  
APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For  
example "netperf -H 158.218.103.64 -l 60 -- -s 4096"

Last Result: **Passed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Buffer Size Throughput 4096 6.71

LOG PATH

**Test Case amsdkA-300: WLAN WEP 128 bits, TCP Stream, Buffer size 8192**

Summary:

WLAN WEP 128 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 128 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 8192"

Last Result: **Failed**  
Build 2012-3-29

Tester	linux_psp_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=9.37 Buffer Size Throughput 8192 9.37

LOG PATH

**Test Case amsdkA-902: WLAN WEP 128 bits, TCP Stream, Buffer size 16 KB**

Summary:

WLAN WEP 128 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 128 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 16384

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 16384 16.48

LOG PATH

**Test Case amsdkA-903: WLAN WEP 128 bits, TCP Stream, Buffer size  
32 KB**

Summary:

WLAN WEP 128 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 128 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 32768

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 32768 20.2

LOG PATH

**Test Case amsdkA-904: WLAN WEP 128 bits, TCP Stream, Buffer size  
64 KB**

Summary:

WLAN WEP 128 bits test, measures TCP bandwidth between Server  
(Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 128 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing  
"netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may  
type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and  
-4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an  
APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For  
example "netperf -H 158.218.103.64 -l 60 -- -s 65536"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 65536 21.05

LOG PATH

**Test Case amsdkA-905: WLAN WEP 128 bits, TCP Stream, Buffer size  
128 KB**

Summary:

WLAN WEP 128 bits test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WEP 128 bits wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 131702

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 131702 21.12

LOG PATH

## 3.11.4 Test Suite : WPA-PSK

**Test Case amsdkA-301: WLAN WPA-PSK, TCP Stream, Buffer size 1024**

Summary:



WLAN WPA-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 1024

Last Result:	<b>Failed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Performance is less than 1.5 Mb/s. AVG Throughput=0.33 Buffer Size Throughput 1024 0.33

LOG PATH

**Test Case amsdkA-302: WLAN WPA-PSK, TCP Stream, Buffer size  
4096**

Summary:

WLAN WPA-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 4096

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 4096 7.71

LOG PATH

**Test Case amsdkA-303: WLAN WPA-PSK, TCP Stream, Buffer size 8192**

Summary:

WLAN WPA-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 8192

Last Result:	<b>Failed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=11.61 Buffer Size Throughput 8192 11.61

#### LOG PATH

### **Test Case amsdkA-906: WLAN WPA-PSK, TCP Stream, Buffer size 16 KB**

Summary:

WLAN WPA-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 16384

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 16384 19.02

LOG PATH

**Test Case amsdkA-907: WLAN WPA-PSK, TCP Stream, Buffer size 32 KB**

Summary:

WLAN WPA-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

1) Configure a WPA-PSK wlan in the access point and the dut

2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 32768

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 32768 20.35

LOG PATH

**Test Case amsdkA-908: WLAN WPA-PSK, TCP Stream, Buffer size 64 KB**

Summary:

WLAN WPA-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 65536

Last Result: **Passed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Buffer Size Throughput 65536 20.92

LOG PATH

**Test Case amsdkA-909: WLAN WPA-PSK, TCP Stream, Buffer size 128 KB**

Summary:

WLAN WPA-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 131702

Last Result: **Passed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Buffer Size Throughput 131702 21.04

LOG PATH

## 3.11.5 Test Suite : WPA2-PSK

### Test Case amsdkA-304: WLAN WPA2-PSK, TCP Stream, Buffer size 1024

Summary:

WLAN WPA2-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA2-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 1024"

Last Result: **Failed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Performance is less than 1.5 Mb/s. AVG Throughput=0.33 Buffer Size Throughput 1024 0.33

LOG PATH

**Test Case amsdkA-305: WLAN WPA2-PSK, TCP Stream, Buffer size 4096**

Summary:

WLAN WPA2-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA2-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 4096"



Last Result: **Passed**  
Build 2012-3-29  
Tester linux\_psp\_lead  
Testing notes Buffer Size Throughput 4096 6.67

LOG PATH

**Test Case amsdkA-306: WLAN WPA2-PSK, TCP Stream, Buffer size 8192**

Summary:

WLAN WPA2-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA2-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 8192

Last Result: **Passed**  
Build 2012-3-29  
Tester linux\_psp\_lead

Testing notes      Buffer Size Throughput 8192 13.63

LOG PATH

**Test Case amsdkA-910: WLAN WPA2-PSK, TCP Stream, Buffer size 16 KB**

Summary:

WLAN WPA2-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA2-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 16384

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 16384 19.46

LOG PATH

**Test Case amsdkA-911: WLAN WPA2-PSK, TCP Stream, Buffer size 32 KB**

Summary:

WLAN WPA2-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA2-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 32768"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 32768 25.61

LOG PATH

**Test Case amsdkA-912: WLAN WPA2-PSK, TCP Stream, Buffer size 64 KB**

Summary:

WLAN WPA2-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA2-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 65536"

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 65536 29.17

LOG PATH

**Test Case amsdkA-913: WLAN WPA2-PSK, TCP Stream, Buffer size  
128 KB**

Summary:

WLAN WPA2-PSK test, measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).

Steps:

Manual Verification:

- 1) Configure a WPA2-PSK wlan in the access point and the dut
- 2) Verify that you have netperf installed in your host machine by typing "netperf -h"

If you get an error, you need to install netperf. On a ubuntu system, you may type "sudo apt-get install netperf"

- 3) Start netserver in the Host Machine (Linux preferably)

sudo netserver -p 22115 -4. Where -p specifies the listening port number and -4 sets the ip protocol version to IPV4.

- 4) Start netperf on the device under test (Note: There is no need to install an APK as netperf is already provided in the default filesystem)

netperf -H <host machine> -l <test time in secs> -- -s <tcp buffer size>. For example "netperf -H 158.218.103.64 -l 60 -- -s 131702

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	linux_psp_lead
Testing notes	Buffer Size Throughput 131702 27.2

LOG PATH

## 3.12 Test Suite : Gadget

### Test Case amsdkA-927: Android Gadget

Summary:

Measure throughput of file copy operations when the dut is operating as an Android Gadget

Steps:

- Set the dut to operate like and android gadget.
- Copy a large file from the host to the dut and the dut to the host.  
Measure throughput in both directions:

i.e. "time cp <path to large file> <mounted dut folder>"

Expected Results:

Throughput should at least be the same as the one obtain with an  
adb push/pull operation

Last Result:	<b>Failed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

## 4 Test Suite : Stress

### 4.1 Test Suite : power\_long\_term

#### **Test Case amsdkA-1053: Long term Suspend Resume stress test**

Summary:

This test cases to stress the platform by cycling through  
suspend-resume states for a number of iteration.

Steps:

run script

Expected Results:

test should pass 100%

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

#### **Test Case amsdkA-1055: Long term graphic\_suspend\_resume**

Summary:

This test case is to verify that graphics continue running after system resumes from suspend.

Steps:

- 1) start graphics
- 2) suspend the resume the system
- 3) verify that graphics continue running.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-1056: Long term ethernet\_suspend\_resume**

Summary:

This test case is to verify that ethernet continue running after system resumes from suspend.

Steps:

- 1) configure ethernet
- 2) use netperf to calculate the performance.
- 3) suspend the resume the system
- 3) verify that ethernet continue running and performance not degraded(use netperf).

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-1057: Long term wlan\_suspend\_resume**

Summary:

This test case is to verify that wlan continue running after system resumes from suspend.

Steps:

- 1) configure wlan
- 2) use netperf to calculate the performance.
- 3) suspend the resume the system
- 3) verify that wlan continue running and performance not degraded(use

netperf).

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Suspend-Resume Stress Test=100.0

LOG PATH

**Test Case amsdkA-1058: Long term video\_suspend\_resume**

Summary:

This test case is to verify that video continues running after system resumes from suspend.

Steps:

- 1) start video
- 2) suspend then resume the system
- 3) verify that video continues running.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-1059: Long term mmc suspend resume**

Summary:

This test case is to verify that, MMC function properly after system resume.

Steps:

- 1) configure MMC
  - 2) use storage application to calculate the bandwidth.
  - 3) suspend then resume the system
  - 3) verify that MMC continues running and performance not degraded.
- Expected Results:

Throughput should be as good as presuspend.

Last Result: **Passed**



Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Suspend-Resume Stress Test=100.0

LOG PATH

**Test Case amsdkA-1060: Long term usb suspend resume**

Summary:

Test case verifies that usb continue to function properly after resume.

Steps:

- 1) configure USB
- 2) use storage application to calculate the bandwidth.
- 3) suspend then resume the system
- 3) verify that USB continue running and performance not degraded.

Expected Results:

Throughput should be as good presuspend.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 4.2 Test Suite : Monkey

Monkey tool

**Test Case amsdkA-307: Monkey System Stress**

Summary:

Stress Test the system using the monkey tool

Steps:

Manual Verification:

- 1) Run the monkey tool for the given number of events, with the specified flags
- 2) Verify that there are no crashes

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Crash(es) reported for [{"com.android.music", "pid 15109",  
"android.database.StaleDataException:"}] No response(s) reported []

LOG PATH

## 4.3 Test Suite : wireless

### Test Case amsdkA-599: wifi\_data and Video/audio playing for long time

Summary:

Data is send over the wireless while video is playing.

Steps:

run applilcation script

Expected Results:

video quality and throughput should not be compromised.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

### Test Case amsdkA-594: bluetooth

Summary:

This stress test case, stress the system by enabling and disabling bluetooth inteface 1000 times and verifying connectivity.

Steps:

1) make sure there is configured access point for.

Expected Results:

The stress test must run 100%

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

**Test Case amsdkA-595: wifi\_open**

Summary:

This test case stress the system by enabling , configuring and checking connectivi and finaly disabling for 1000 times.

This is non secure connection setup.

Steps:

Make sure access point is configured.

Expected Results:

The stress should run 100% without crash and failure.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

**Test Case amsdkA-596: wifi\_wpa-psk**

Summary:

This test case stresses the stystem by enabling, configuring , checking connectivity and finaly disabling for 1000 times.

This is WPA-PSK enabled communication. This test should run with 100% success.

Steps:

Make sure the access point is configured the run the script.

Expected Results:

100 success.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

LOG PATH

**Test Case amsdkA-597: wifi\_open and bluetooth**

Steps:

run script

Expected Results:

must run to complete 100%

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

LOG PATH

**Test Case amsdkA-598: wifi\_wpa-psk and bluetooth**

Steps:

run script

Expected Results:

must run to complete 100%

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

LOG PATH

## 4.4 Test Suite : power

**Test Case amsdkA-600: Short time Suspend Resume stress test**

Summary:

This test cases to stress the platform by cycling through suspend-resume states for a number of iteration.

Steps:

run script

Expected Results:

test should pass 100%

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Success Suspend-Resume Stress Test=100.0

LOG PATH

### **Test Case amsdkA-788: graphic\_suspend\_resume**

Summary:

This test case is to verify that graphics continue running after system resumes from suspend.

Steps:

- 1) start graphics
- 2) suspend the resume the system
- 3) verify that graphics continue running.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

Testing notes Suspend-Resume Stress Test=100.0

LOG PATH

### **Test Case amsdkA-789: ethernet\_suspend\_resume**

Summary:

This test case is to verify that ethernet continue running after system resumes from suspend.

Steps:

- 1) configure ethernet
- 2) use netperf to calculate the performance.

3) suspend the resume the system

3) verify that ethernet continue running and performance not degraded(use netperf).

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Suspend-Resume Stress Test=100.0

LOG PATH

#### **Test Case amsdkA-790: wlan\_suspend\_resume**

Summary:

This test case is to very that wlan continue running after system resumes from suspend.

Steps:

- 1) configure wlan
- 2) use netperf to calculate the performance.

3) suspend the resume the system

3) verify that wlan continue running and performance not degraded(use netperf).

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Suspend-Resume Stress Test=100.0

LOG PATH

#### **Test Case amsdkA-791: video\_suspend\_resume**

Summary:

This test case is to very that video continue running after system resumes from suspend.

Steps:

- 1) start video
- 2) suspend the resume the system

3) verify that video continue running.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-792: mmc suspend resume**

Summary:

This test case is to verify that, MMC function properly after system resume.

Steps:

- 1) configure MMC
- 2) use storage application to calculate the bandwidth.
- 3) suspend then resume the system
- 3) verify that MMC continue running and performance not degraded.

Expected Results:

Throughput should be as good presuspend.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-793: usb suspend resume**

Summary:

Test case verifies that usb continue to function properly after resume.

Steps:

- 1) configure USB
- 2) use storage application to calculate the bandwidth.
- 3) suspend then resume the system
- 3) verify that USB continue running and performance not degraded.

Expected Results:

Throughput should be as good presuspend.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Suspend-Resume Stress Test=100.0

LOG PATH

## 4.5 Test Suite : media

### **Test Case amsdkA-670: Android Music Play**

Summary:

This test case stress music play application.

Steps:

- 1) make sure Test automation frame is up and running.
- 2) Make sure platform is configured, adb running
- 3) Select the test case and run the ruby stress application

the script does install the audio clip and start the music intent and at the end check for system integrity.

Expected Results:

Appication should run with out problem for the specified time.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

### **Test Case amsdkA-671: Android Video play**

Summary:

This test case stress the video play application.

Steps:

- 1) make sure Test automation frame is up and running.
- 2) Make sure platform is configured, adb running



3) Select the test case and run the ruby stress application

the script does install the video clip and start the videointent and at the end checkes for system integrity.

Expected Results:

Application should run for the specified time wirh out problem.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Graphics Stress Test=100.0

LOG PATH

## 4.6 Test Suite : Browser

Browser Stress test

### Test Case amsdkA-602: Browser Stres test

Steps:

run script

Expected Results:

test run 100%

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

## 4.7 Test Suite : Graphics

Graphics related stress test.

### Test Case amsdkA-603: Graphics Stress Test

Summary:

This test case stress the system by running all graphics application for a number of iteration.

Steps:

run the ruby script

Expected Results:

test should run 100%

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead
Testing notes	Graphics Stress Test=100.0

LOG PATH

#### **Test Case amsdkA-604: Graphics and Audio Stress Test**

Summary:

This test case stresses the system by running all graphics applications and music.

Steps:

run script

Expected Results:

must run 100%

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

#### **Test Case amsdkA-605: Graphics and Video Stress Test**

Summary:

The test cases stresses the system running graphics and video applications.

Steps:

run rub script

Expected Results:

must run 100%

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### **Test Case amsdkA-606: Graphics and Audio and video Stress Test**

Summary:

This test case stress the system by running graphics, video and audio application.

Steps:

run ruby script.

Expected Results:

must run 100%

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

## **4.8 Test Suite : LAN**

Stress test area for LAN

### **Test Case amsdkA-607: LAN\_data and Video/audio playing for long time**

Summary:

Data is send over the LAN while video is playing.

Steps:

run applilcation script

Expected Results:

video quality and throughput should not be compromised.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

### **Test Case amsdkA-663: 2-hr Network Stream Test**

Summary:

Network Stream test

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-759: 5-min WLAN No Security Stream Test**

Summary:

WLAN No Security Stream Test

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-763: 5-min Network Stream Test**

Summary:

Network Stream test

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes Iteration 1, Stream FILE@TS/big\_buck\_bunny\_480p\_surround-fix.avi did not play or did not finish on the expected time execution expired

LOG PATH

**Test Case amsdkA-768: 2-hr WLAN No Security Stream Test**

Summary:

WLAN No Security Stream Test

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 4.9 Test Suite : Device IO

**Test Case amsdkA-1067: 2-hr File copy Stress test between peripherals**

Summary:

File copy Stress test between peripherals, this test verifies multiple file copies between board peripherals for a long period of time

Expected Results:

All copy operations should be successful and all the files copied should be identical

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead  
Testing notes SIGTERM

LOG PATH

## 4.10 Test Suite : wireless\_long\_term

**Test Case amsdkA-1046: Long term wifi\_wpa-psk and bluetooth**

Steps:

run script

Expected Results:

must run to complete 100%

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-1045: Long term wifi\_open and bluetooth**

Steps:

run script

Expected Results:

must run to complete 100%

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

LOG PATH

**Test Case amsdkA-1044: Long term bluetooth**

Summary:

This stress test case, stress the system by enabling and disabling bluetooth interface 1000 times and verifying connectivity.

Steps:

1) make sure there is configured access point for.

Expected Results:

The stress test must run 100%

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

LOG PATH

**Test Case amsdkA-1039: Long term wifi\_open**

Summary:

This test case stress the system by enabling , configuring and checking connectivity and finally disabling for 1000 times.

This is non secure connection setup.

Steps:

Make sure access point is configured.

Expected Results:

The stress should run 100% without crash and failure.

Last Result:      **Passed**

Build              2012-3-29

Tester             gt\_amsdk\_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

## LOG PATH

### **Test Case amsdkA-1038: Long term wifi\_wpa-psk**

Summary:

This test case stresses the system by enabling, configuring , checking connectivity and finally disabling for 1000 times.

This is WPA-PSK enabled communication. This test should run with 100% success.

Steps:

Make sure the access point is configured then run the script.

Expected Results:

100 success.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### **Test Case amsdkA-1047: Long term wifi\_data and Video/audio playing for long time**

Summary:

Data is sent over the wireless while video is playing.

Steps:

run application script

Expected Results:

video quality and throughput should not be compromised.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

## **4.11 Test Suite : graphics\_long\_term**

### **Test Case amsdkA-1051: Long term Graphics and Audio and video Stress Test**

Summary:

This test case stress the system by running graphics, video and audio application.

Steps:

run ruby script.

Expected Results:

must run 100%

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-1050: Long term Graphics and Video Stress Test**

Summary:

The test cases stresses the system running graphics and video applications.

Steps:

run rub script

Expected Results:

must run 100%

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-1049: Long term Graphics and Audio Stress Test**

Summary:

This test case stresses the system by running all graphics applications and music.

Steps:

run script

Expected Results:



must run 100%

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-1048: Long term Graphics Stress Test**

Summary:

This test case stress the system by running all graphics application for a number of iteration.

Steps:

run the ruby script

Expected Results:

test should run 100%

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## **5 Test Suite : Documentation**

#### **Test Case amsdkA-54: DevKit Users Guide**

Summary:

Verify that a DevKit Users Guide document is provided

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-55: Release Notes**

Summary:

Verify that a Release Notes are provided

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

### **Test Case amsdkA-56: Porting Guide**

Summary:

Verify that an Android Rowboat Porting Guide document is provided

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### **Test Case amsdkA-57: CTS Report**

Summary:

Verify that a CTS report is provided

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### **Test Case amsdkA-58: DevKit Test Report**

Summary:

Verify that a DevKit Test Report is provided

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### **Test Case amsdkA-72: Eclipse Setup**

Summary:

Verify that procedure to setup Eclipse for Android development is provided or referenced in the DevKit documentation

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

### **Test Case amsdkA-73: ADB over Ethernet Setup**

Summary:

Verify that the procedure to setup Android Debug Bridge (ADB) over Ethernet is provided or referenced in the DevKit documentation

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-74: ADB over USB Setup**

Summary:

Verify that the procedure to setup Android Debug Bridge (ADB) over USB is provided or referenced in the DevKit documentation

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-75: ADB .apk File Download**

Summary:

Verify that procedure to download .apk files using ADB is documented

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-76: Eclipse APK File Download**

Summary:

Verify that procedure to download .apk files using Eclipse is documented

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-78: DevKit Developers Guide**

Summary:

Verify that a DevKit Developers Guide document is provided

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### Test Case amsdkA-81: Document Format

Summary:

Verify that all documents follow consistent template for same/similar information

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 6 Test Suite : Kitting

#### Test Case amsdkA-53: DevKit Content

Summary:

Devkit content should be complete (see expected results section)

Expected Results:

- Â· Source
- Â· 2.6.32 Kernel
- Â· u-boot
- Â· x-loader
- Â· SGX SDK Installer
- Â· Pre-built binaries
- Â· AM35x\_EVM
  - Â· uImage
  - Â· u-boot
  - Â· x-loader.bin.ift
- Â· MLO
- Â· AM37x\_OMAP35x\_EVM
  - Â· uImage
  - Â· u-boot
  - Â· x-loader.bin.ift
- Â· MLO
- Â· Beagleboard
  - Â· uImage
  - Â· u-boot
  - Â· x-loader.bin.ift
- Â· MLO
- Â· Filesystem
  - Â· rootfs.tar.gz (no integrated SGX, need to install separately)

Â· Tools  
Â· ARM Tool Chain (pre-built - pulled from Android)  
Â· PinMux-utility  
Â· AM35x  
Â· AM37x  
Â· OMAP35x  
Â· Flashing utility  
Â· OMAP35x\_AM37x  
Â· AM35x  
Â· mk-mmc-image.script  
Â· Documentation  
Â· DevKit user guide  
Â· Release notes  
Â· Android Rowboat Porting Guide  
Â· CTS Report  
Â· DevKit Test Report  
Â· Android Rowboat Manifest  
Â· Datasheet

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-77: Android Devkit apk file**

Summary:

Verify that Android Package (.apk) file is provided for the DevKit

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-79: Download Page**

Summary:

Verify that the DevKit installer is distributed from TI's download page and that md5 checksums are provided for all the downloadable files

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### **Test Case amsdkA-80: arowboat.org Download Link**

Summary:

Verify that a link to TI's product download page is provided on arowboat.org

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 7 Test Suite : Functionality

Functional Test cases

### 7.1 Test Suite : System

#### Test Case amsdkA-70: System boot

Summary:

Verify that DUT boots fine w/ provided x-loader, u-boot, uImage and root filesystem

Steps:

1. Flash x-loader and u-boot to DUT using serial flashing utility
2. Set uboot environment to load provided uImage and use provided root filesystem
3. Boot the DUT

Expected Results:

DUT should boot fine and Android Home page should be shown

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

#### Test Case amsdkA-71: System boot w/ console

Summary:

Verify that DUT boots fine w/ provided x-loader, u-boot, uImage and root filesystem and upon booting the Android console is

available in the UART port

Steps:

1. Flash x-loader and u-boot to DUT using serial flashing utility
2. Set uboot environment to load provided uImage and use provided root filesystem
3. Boot the DUT
4. type "ls" in the UART console

Expected Results:

DUT should boot fine and Android console should be available in the UART port.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

#### **Test Case amsdkA-86: OOB Demos**

Summary:

Validate that the system provides icons to Demo Apps in the wallpaper upon booting

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

#### **Test Case amsdkA-87: RootFS over NFS**

Summary:

Validate that the DUT boots fine when using root filesystem over NFS

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

## **7.2 Test Suite : Bluetooth**

**Test Case amsdkA-669: BT-Stream music to bluetooth stereo headset**

Summary:

Stream music to bluetooth stereo headset via A2DP profile

Steps:

Refer to this wiki page for setup instructions/test info.

[http://processors.wiki.ti.com/index.php/AM18x\\_Wireless\\_Connectivity\\_Demo#Bluetooth\\_A2DP\\_Profile](http://processors.wiki.ti.com/index.php/AM18x_Wireless_Connectivity_Demo#Bluetooth_A2DP_Profile)

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

**Test Case amsdkA-477: Bluetooth Object push**

Summary:

Verify that you can transfer files to the device via a bluetooth connection

Steps:

- Pair the dut with the host
- Send files to/from the host to/from dut.
- Verify that you can open the received files without any problems

Expected Results:

- The received should open without problems.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

**Test Case amsdkA-887: BT-Verify that HID devices are working as expected**

Summary:

Verify that BT HID devices mouse and/or keyboard are recognized by the EVM and are working as expected

Steps:



Connect HID devices mouse and keyboard can be paired and work as expected

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 7.3 Test Suite : WLAN

### Test Case amsdkA-929: Verify softAP functionality

Summary:

Verify that the device can be configured as a soft Access Point

Steps:

- 1 Install Googles WiFiDirectDemo apk
- 2 Using the app set the board to work as a soft access point.
- 3 Using other wifi capable devices:
  - Verify that the wireless network configured in the step 2 is listed on the device.
  - Verify that you can connect to the soft AP and obtaining an IP address.
  - Connect 2 devices to the soft AP, and verify that the two devices can ping each other
4. Repeat steps 2 and 3 for each type of encryption supported in the soft AP (Open, WPA PSK, WPA2 PSK, WEP40, WEP128, etc)

Last Result: **Failed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

### Test Case amsdkA-930: Verify Wifi Direct functionality

Summary:

Verify Wifi direct functionality in the device

Steps:

1 Install Googles WiFiDirectDemo apk

2 Using the app turn on the Wifi Direct mode

3 Using other wifi direct capable devices:

- Verify that all devices are listed as available in all wifidirect devices

- Verify that you can connect to other Wifi Direct devices, by selecting the device and sending an invite.

- Verify that you can transfer jpeg files between connected devices

Last Result:	<b>Failed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

## 8 Test Suite : Miscellaneous

This test area list different kinds of test cases.

### Test Case amsdkA-610: Music application lists songs.

Summary:

Music application lists songs based on artists, genre and displays album graphic.

Steps:

1) Go to android application browser and start music application.

2) Verify that Music application lists songs based on artists, genre and displays album graphic

Expected Results:

All songs must be listed and displayed.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-611: Music application lists Songs from External Storage and Recorded**

Summary:

Music application lists Songs from External Storage and Recorded Sounds.

Steps:

- 1) Start android application browser and start music application.
- 2) Music application lists Songs from External Storage and Recorded Sounds

Expected Results:

All songs must be listed and played.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-612: Camera will be part of Android DevKit core applications**

Summary:

Camera will be part of Android DevKit core applications.

Steps:

- 1) verify that Camera is part of Android DevKit core applications.

Expected Results:

Camera is part of DEVKIT core application.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-613: Dev Tools will be part of Android DevKit core applications**

Summary:

Dev Tools will be part of Android DevKit core applications.

Steps:

1) Verify that Dev Tools are be part of Android DevKit core applications.

2) exercise some of dev tools functionality.

Expected Results:

Dev Tools start and functional.

Last Result:       **Passed**  
Build               2012-3-29  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-614: ICONS for standard applications will be placed on main window**

Summary:

ICONS for standard applications will be placed on main window.

Steps:

verify that ICONS for standard applications are placed on main window

Last Result:       **Passed**  
Build               2012-3-29  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-615: Security will be turned ON in Android Layer**

Summary:

Security will be turned ON in Android Layer

Steps:

Verify that Security are turned ON in Android Layer

Last Result:       **Passed**  
Build               2012-3-29  
Tester              gt\_amsdk\_lead

**Test Case amsdkA-617: Android DevKit should contain Sources for Linux Kernel**

Summary:

Android DevKit should contain Sources for Linux Kernel

Steps:

Verify that Android DevKit should contain Sources for 2.6.XX  
Linux Kernel.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-618: The DevKit installer should work on a  
ubuntu Linux host machine**

Summary:

The DevKit installer should work on a ubuntu Linux host machine

Steps:

Verify that The DevKit installer should work on a ubuntu Linux  
host machine

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-619: Links to support infrastructure on e2e  
and rowboat to be provided**

Summary:

Links to support infrastructure on e2e and rowboat to be provided

Steps:

Verify that Links to support infrastructure on e2e and rowboat to  
be provided.

Last Result:	<b>Passed</b>
Build	2012-3-29
Tester	gt_amsdk_lead

**Test Case amsdkA-620: Email will be part of Android DevKit  
core applications**

Summary:

Email will be part of Android DevKit core applications

Steps:

Verify that Email is part of Android DevKit core applications

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-621: Links to raise defects against this release should be provided**

Summary:

Links to raise defects against this release should be provided

Steps:

Verfiy that Links to raise defects against this release should be provided.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-622: Customers should be notified about devkit release through TI news, infolink, android porting mailing**

Summary:

Customers should be notified about devkit release through TI news, infolink, android porting mailing

Steps:

Customers should be notified about devkit release through TI news, infolink, android porting mailing

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-624: Calendar will be part of Android DevKit core applications**

Summary:

Calendar will be part of Android DevKit core applications.

Steps:

Verify that Calendar part of Android DevKit core applications

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-625: Android home screen contains Launcher -**

Summary:

Android home screen contains Launcher - gateway to all applications

Steps:

Verify that Android home screen contains Launcher - gateway to all applications

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-626: Android home screen contains Global Search Bar**

Summary:

Android home screen contains Global Search Bar

Steps:

Verify that Android home screen contains Global Search Bar.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-627: Android Home Screen contains Tips widget to give important Tips**

Summary:

Android Home Screen contains Tips widget to give important Tips

Steps:

Verify that Android Home Screen contains Tips widget to give important Tips.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-628: Additional Widgets can be added to Home Screen by a long press on**

Summary:

Additional Widgets can be added to Home Screen by a long press on the Blank area of Home Screen

Steps:

Verify that Additional Widgets can be added to Home Screen by a long press on the Blank area of Home Screen

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-629: Multiple Home Screen (5 Screens)**

Summary:

Multiple Home Screen (5 Screens)

Steps:

Verify that for Multiple Home Screen (5 Screens)

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-630: Slidable Status bar**

Summary:

Slidable Status bar Indicating Time, System Events on top of the Home Screen

Steps:

Verify that Slidable Status bar Indicating Time, System Events on top of the Home Screen

Last Result: **Passed**  
Build 2012-3-29



Tester gt\_amsdk\_lead

**Test Case amsdkA-631: Wallpaper can be changed**

Summary:

Wallpaper can be changed by pressing long on the Blank area of Home Screen

Steps:

Verify that Wallpaper can be changed by pressing long on the Blank area of Home Screen

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

**Test Case amsdkA-632: Keypad contains HOME, BACK, POWER and MENU Keys.**

Summary:

Keypad contains HOME, BACK, POWER and MENU Keys.

Steps:

Verify that Keypad contains HOME, BACK, POWER and MENU Keys.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

**Test Case amsdkA-633: Gallery will be part of Android DevKit core applications**

Summary:

Gallery will be part of Android DevKit core applications

Steps:

Verify that Gallery will be part of Android DevKit core applications

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

**Test Case amsdkA-634: Launcher will be part of Android DevKit core applications**

Summary:

Launcher will be part of Android DevKit core applications

Steps:

Verify that Launcher will be part of Android DevKit core applications.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-635: Global Search will be part of Android DevKit core applications**

Summary:

Global Search will be part of Android DevKit core applications

Steps:

Verify that Global Search will be part of Android DevKit core applications.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

**Test Case amsdkA-636: Settings application helps to configure Sound, Display and various OOB settings**

Summary:

Settings application helps to configure Sound, Display and various OOB settings

Steps:

Verify that Settings application helps to configure Sound, Display and various OOB settings

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

## 9 Test Suite : Control/informative

### Test Case amsdkA-638: Hardware Volume Controls

Summary:

Android DevKit supports Hardware Volume Controls

Steps:

verify that manually volume can be controled.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

## 10 Test Suite : IO

IO related maual test cases.

### Test Case amsdkA-642: Android DevKit supports Touchscreen

Summary:

Android DevKit supports Touchscreen

Steps:

Verify that Android DevKit supports Touchscreen

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

### Test Case amsdkA-643: Android DevKit supports Mouse

Summary:

Android DevKit supports Mouse

Steps:

Verify that Android DevKit supports Mouse.

Last Result: **Passed**

Build 2012-3-29

Tester gt\_amsdk\_lead

## 11 Test Suite : Processor Speed

### **Test Case amsdkA-647: Android DevKit supports Cortex A8 ARM up to Maximum Frequency**

Summary:

Android DevKit supports Cortex A8 ARM up to Maximum Frequency.

Steps:

Verify that Android DevKit supports Cortex A8 ARM up to Maximum Frequency.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead

### **Test Case amsdkA-648: Android DevKit supports SGX up to Maximum Frequency**

Summary:

Android DevKit supports SGX up to Maximum Frequency

Steps:

Verify that Android DevKit supports SGX up to Maximum Frequency.

Last Result: **Passed**  
Build 2012-3-29  
Tester gt\_amsdk\_lead