

Texas Instruments  
amsdk\_android

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am37x\_ICS\_4.0.3

Test Report

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2009 (c) Testlink Community

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

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

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

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SUSPEND power consumption SR enabled, sleep while idle enabled and enable off mode enabled

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Music application lists Songs from External Storage and Recorded

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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 2.6.XX 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

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

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Android home screen contains Launcher -

Android home screen contains Global Search Bar

Android Home Screen contains Tips widget to give important Tips

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Multiple Home Screen (5 Screens)

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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

Android DevKit supports DVI Out

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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Pass: 17078

Fail: 239

Not executed: 0

Requirements GR\_26: Android CTS compatibility will be greater than 99%

## 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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_76: Lancher gives Main window Desk Clock, Browser, Email Calendar, Calculator, Gallery, GlobalSearch, La  
AM33X\_12: Android DevKit supports Keyboard

**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 2012-03-20

Tester gt\_amsdk\_lead

Requirements None

**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 2012-03-20

Tester gt\_amsdk\_lead

Requirements None

**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 2012-03-20

Tester gt\_amsdk\_lead



Testing notes	passed: 86 test(s) failed: 2 test(s) failed: 030-bad-finalizer failed: 089-jumbo-opcodes
Requirements	None

#### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

#### **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:	<b>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	doesn't compile
Requirements	None

#### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

**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               2012-03-20  
Tester              gt\_amsdk\_lead  
Requirements       None

**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               2012-03-20  
Tester              gt\_amsdk\_lead  
Requirements       None

**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               2012-03-20  
Tester              gt\_amsdk\_lead  
Requirements       None

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

#### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes missing shared library.  
Requirements None

#### **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: **Failed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

#### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes missing shared library.  
Requirements None

### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

### **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 2012-03-20

Tester gt\_amsdk\_lead

Requirements None

### **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 2012-03-20

Tester gt\_amsdk\_lead

Requirements None

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

Summary:

Run Replica Island Game

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Requirements None

## **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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_23: ADB over OTG will be supported  
GR\_46: Debugging procedure to setup adb over USB should be provided

### 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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_22: ADB over Ethernet will be supported  
GR\_45: Debugging procedure to setup adb over Ethernet should be provided

### 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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_24: Application Development and Debugging through Eclipse and Android plugins will be supported  
GR\_25: Android SDK from google (including tools) will be supported  
GR\_44: Debugging procedure to setup eclipse with EVM should be provided or referred

## 2.3 Test Suite : Multimedia

### 2.3.1 Test Suite : Audio

#### 2.3.1.1 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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

##### LOG PATH

Requirements	AM33X_19: Android DevKit supports Audio Out (3.5mm jack)
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##### 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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

##### LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

### Test Case amsdkA-35: Ogg Vorbis

Summary:

Ogg Vorbis files in a Ogg (.ogg) container

Expected Results:

Audio file plays fine

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

#### LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

### 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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

#### LOG PATH

Requirements AM33X\_19: Android DevKit supports Audio Out (3.5mm jack)

## 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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_82: Gallery Displays all Images and Videos from the External Storage Media

#### **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	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_82: Gallery Displays all Images and Videos from the External Storage Media

#### **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	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_82: Gallery Displays all Images and Videos from the External Storage Media

**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	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_82: Gallery Displays all Images and Videos from the External Storage Media

## 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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

#### LOG PATH

Requirements	GR_82: Gallery Displays all Images and Videos from the External Storage Media AM33X_17: Android DevKit supports LCD 7inch panel
--------------	--

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

Summary:

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

Expected Results:

Video file plays fine

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

#### LOG PATH

Requirements	GR_82: Gallery Displays all Images and Videos from the External Storage Media AM33X_17: Android DevKit supports LCD 7inch panel
--------------	--

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements GR\_82: Gallery Displays all Images and Videos from the External Storage Media  
AM33X\_17: Android DevKit supports LCD 7inch panel

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements None

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead

Testing notes      Test case PASS.

LOG PATH

Requirements      None

**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              2012-03-20

Tester             gt\_amsdk\_lead

Testing notes      Test case PASS.

LOG PATH

Requirements      None

**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              2012-03-20

Tester             gt\_amsdk\_lead

Testing notes      Test case PASS.

LOG PATH

Requirements      None

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements None

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements None

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements None

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

Requirements None

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

Requirements None

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

Requirements None

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

Summary:

MPEG4 files in 3GPP (.3gp) container

Expected Results:

Video file plays fine

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

#### LOG PATH

Requirements None

## 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 2012-03-20

Tester	gt_amsdk_lead
Testing notes	First boot: 74 sec
	Others: 37 sec
Requirements	AM33X_38: Android DevKit supports Total Booting Time < 28 Seconds for NAND (Less than 10 Seconds for Kernel)

### Test Case amsdkA-593: Quadrant Benchmark

Summary:

Install and run aurorasoftworks Quadrant benchamrk

Steps:

Install and run Qudrant, and save the results

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_52: List of Benchmarking applications used to be provided GR_53: Benchmark scores should be provided GR_54: Procedure to execute benchmark applications should be provided GR_70: Rowboperf Open up to give a MATRIX view of various Benchmarking and Demo Applications

## 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 random shape. There should not be exception or error on the log cat.

Last Result: **Passed**  
 Build 2012-03-20  
 Tester gt\_amsdk\_lead  
 Requirements None

### 3.3 Test Suite : 0xBench

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

Summary:

0xBench Math Linpack test.

Last Result: **Passed**  
 Build 2012-03-20  
 Tester gt\_amsdk\_lead  
 Testing notes MathLinpack performance data collected successfully

#### LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
 GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are part of Rowboperf  
 GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
 GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
 GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench Math Scimark2 test.

Last Result: **Passed**  
 Build 2012-03-20  
 Tester gt\_amsdk\_lead  
 Testing notes MathScimark2 performance data collected successfully

#### LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
 GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are part of Rowboperf  
 GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and

## testreport am37x\_ICS\_4.0.3

Vase are part of RowboPerf

GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf

GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench 2D Draw Canvas test.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes 2DDrawCanvas performance data collected successfully

#### LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench 2D Draw Circle test.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes 2DDrawCircle performance data collected successfully

#### LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench 2D Draw Circle2 test.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes 2DDrawCircle2 performance data collected successfully

LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench 2D Draw Rect test.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes 2DDrawRect performance data collected successfully

LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench 2D Draw Arc test.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes 2DDrawArc performance data collected successfully

LOG PATH

Requirements GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench 2D Draw Image test.

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes 2DDrawImage performance data collected successfully

LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench2D Draw Text test.

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes 2DDrawText performance data collected successfully

LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

#### Summary:

0xBench 3D OpenGL Cube test.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLCube performance data collected successfully

#### LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

#### Summary:

0xBench 3D OpenGL Blending test.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes 3DOpenGLBlending performance data collected successfully

#### LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

#### Summary:

0xBench 3D OpenGL Fog test.

Last Result: **Passed**



Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes 3DOpenGLFog performance data collected successfully

LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench 3D OpenGL Flying Teapot test.

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes 3DOpenGLTeapot performance data collected successfully

LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf  
GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf  
GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf  
GR\_74: Benchmark Suite 0xbench is part of Rowboperf

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

Summary:

0xBench VM Garbage Collection test.

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes VMGC performance data collected successfully

LOG PATH

Requirements GR\_53: Benchmark scores should be provided  
GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of

Rowboperf

GR\_72: 3D Demos which utilize SGX Core - Chameleon Man, Coverflow and Vase are part of RowboPerf

GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf

GR\_74: Benchmark Suite 0xbench is part of Rowboperf

## 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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 16384 56.71

LOG PATH

Requirements GR\_20: Ethernet operation upto 25MB/s  
AM33X\_36: Android DevKit supports ETHERNET Boot  
AM33X\_5: Android DevKit supports Ethernet

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

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 32768 55.81

LOG PATH

Requirements

GR\_20: Ethernet operation upto 25MB/s  
AM33X\_5: Android DevKit supports Ethernet

### **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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 65536 55.17

#### LOG PATH

Requirements	GR_20: Ethernet operation upto 25MB/s AM33X_5: Android DevKit supports Ethernet
--------------	--

### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 131072 54.74
	<u>LOG PATH</u>
Requirements	GR_20: Ethernet operation upto 25MB/s AM33X_5: Android DevKit supports Ethernet

**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"

## testreport am37x\_ICS\_4.0.3

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:	<b>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 30.0 Mb/s. AVG Throughput=27.69 Buffer Size Throughput 256 27.69
	<u>LOG PATH</u>
Requirements	GR_20: Ethernet operation upto 25MB/s AM33X_5: Android DevKit supports Ethernet

### 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:	<b>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 30.0 Mb/s. AVG Throughput=27.64 Buffer Size Throughput 512 27.64
	<u>LOG PATH</u>
Requirements	GR_20: Ethernet operation upto 25MB/s AM33X_5: Android DevKit supports Ethernet

#### **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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 30.0 Mb/s. AVG Throughput=27.64 Buffer Size Throughput 1024 27.64
	<u>LOG PATH</u>
Requirements	GR_20: Ethernet operation upto 25MB/s AM33X_5: Android DevKit supports Ethernet

#### **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: **Passed**



Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 4096 56.49

LOG PATH

Requirements GR\_20: Ethernet operation upto 25MB/s  
AM33X\_5: Android DevKit supports Ethernet

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 8192 56.76

LOG PATH

Requirements

GR\_20: Ethernet operation upto 25MB/s  
AM33X\_5: Android DevKit supports Ethernet

## 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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Test case PASS.

#### LOG PATH

Requirements	GR_73: Benchmark Suite Rowbot Bench is part of Rowboperf AM33X_11: Android DevKit supports Serial Console
--------------	--

### Test Case amsdkA-115: Sunspider test

Summary:

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

Steps:

## testreport am37x\_ICS\_4.0.3

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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

### LOG PATH

Requirements GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf

## 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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes SIGTERM

### LOG PATH

Requirements GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf

## Test Case amsdkA-264: V8 Browser performance 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements GR\_73: Benchmark Suite Rowbot Bench is part of Rowboperf

## 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Test case PASS.

LOG PATH

Requirements GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf

### 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

Requirements GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Test case PASS.

LOG PATH

Requirements GR\_71: ARM Benchmarks Dhrystone, Whetstone and Linpack are prt of Rowboperf

## 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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Mean-TX=2211.4 Mean-RX=5365.2

#### LOG PATH

Requirements GR\_23: ADB over OTG will be supported  
AM33X\_8: Android DevKit supports USB as OTG

### 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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Mean-TX=2806.8 Mean-RX=2174.5

#### LOG PATH

Requirements GR\_22: ADB over Ethernet will be supported

## 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

### LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_22: Android DevKit supports USB as Data Storage

AM33X\_8: Android DevKit supports USB as OTG

AM33X\_9: Android DevKit supports USB as HOST

**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 goog or better than the last release

Last Result: **Passed**

Build 2012-03-20



Tester gt\_amsdk\_lead  
Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_22: Android DevKit supports USB as Data Storage  
AM33X\_8: Android DevKit supports USB as OTG  
AM33X\_9: Android DevKit supports USB as HOST

**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 goog or better than the last release

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices

AM33X\_22: Android DevKit supports USB as Data Storage

AM33X\_8: Android DevKit supports USB as OTG

AM33X\_9: Android DevKit supports USB as HOST

**Test Case amsdkA-268: USB vfat partition write/read test with a block size of 65536 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 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices

AM33X\_22: Android DevKit supports USB as Data Storage

AM33X\_8: Android DevKit supports USB as OTG

AM33X\_9: Android DevKit supports USB as HOST

**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 good or better than the last release

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

LOG PATH

Requirements	GR_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices AM33X_22: Android DevKit supports USB as Data Storage AM33X_8: Android DevKit supports USB as OTG AM33X_9: Android DevKit supports USB as HOST
--------------	---

**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 goog or better than the last release

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_22: Android DevKit supports USB as Data Storage  
AM33X\_8: Android DevKit supports USB as OTG  
AM33X\_9: Android DevKit supports USB as HOST

**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

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

## testreport am37x\_ICS\_4.0.3

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 goog or better than the last release

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

### LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices

AM33X\_22: Android DevKit supports USB as Data Storage

AM33X\_8: Android DevKit supports USB as OTG

AM33X\_9: Android DevKit supports USB as HOST

## **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 goog or better than the last release

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_22: Android DevKit supports USB as Data Storage  
AM33X\_8: Android DevKit supports USB as OTG  
AM33X\_9: Android DevKit supports USB as HOST

**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 goog or better than the last release

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully



LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_22: Android DevKit supports USB as Data Storage  
AM33X\_8: Android DevKit supports USB as OTG  
AM33X\_9: Android DevKit supports USB as HOST

## 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 goog or better than the last release

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_25: Android DevKit supports MMC/SD as Data Storage  
AM33X\_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)

**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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices

AM33X\_23: Android DevKit supports NAND as Data Storage

AM33X\_25: Android DevKit supports MMC/SD as Data Storage

AM33X\_34: Android DevKit supports NAND Boot

**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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

LOG PATH

Requirements	GR_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices AM33X_25: Android DevKit supports MMC/SD as Data Storage AM33X_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)
--------------	---

**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 good or better than the last release

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_25: Android DevKit supports MMC/SD as Data Storage  
AM33X\_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)

**Test Case amsdkA-281: MMC/SD vfat partition write/read test with a block size of 524288 bytes and a file size of 104857600 bytes**

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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

LOG PATH

Requirements	GR_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices AM33X_25: Android DevKit supports MMC/SD as Data Storage AM33X_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)
--------------	---

**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

## testreport am37x\_ICS\_4.0.3

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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	StorageIO performance data collected successfully

### LOG PATH

Requirements	GR_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices AM33X_25: Android DevKit supports MMC/SD as Data Storage AM33X_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)
--------------	---

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements



GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices

AM33X\_25: Android DevKit supports MMC/SD as Data Storage

AM33X\_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes StorageIO performance data collected successfully

LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_25: Android DevKit supports MMC/SD as Data Storage  
AM33X\_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes StorageIO performance data collected successfully

#### LOG PATH

Requirements GR\_75: Rowboperf includes StorageIO to measure storage Performance of mounted Devices  
AM33X\_25: Android DevKit supports MMC/SD as Data Storage  
AM33X\_26: Android DevKit supports MMC/SD as Root Filesystem (EXT3)

## 3.9 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.

### 3.9.1 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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: **Passed**

Build 2012-03-20

Tester	gt_amsdk_lead
Testing notes	Power Performance data collected
	<u>LOG PATH</u>
Requirements	GR_16: Power Management will be turned ON in Android Layer GR_18: DVFS, Smart Reflex, CPU Idle

### 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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Power Performance data collected
	<u>LOG PATH</u>
Requirements	GR_16: Power Management will be turned ON in Android Layer GR_18: DVFS, Smart Reflex, CPU Idle

### 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

## 3.9.2 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

## 3.9.3 Test Suite : DVFS-userspace

### 3.9.3.1 Test Suite : 1MHz

#### Test Case amsdkA-340: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-341: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-342: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

**LOG PATH**

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-343: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-344: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected



LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-345: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

### 3.9.3.2 Test Suite : 800KHz

**Test Case amsdkA-346: Idle power performance with FULL\_WAKE\_LOCK**

Summary:

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

Steps:

## testreport am37x\_ICS\_4.0.3

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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

### **Test Case amsdkA-347: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-348: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-349: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

**LOG PATH**

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-350: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-351: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

### **Test Case amsdkA-352: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

#### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

## **3.9.3.3 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:

## testreport am37x\_ICS\_4.0.3

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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

### **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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle



**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

### **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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

#### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

## **3.9.3.4 Test Suite : 300KHz**

### **Test Case amsdkA-360: Idle power performance with FULL\_WAKE\_LOCK**

Summary:

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

Steps:

## testreport am37x\_ICS\_4.0.3

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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

## **Test Case amsdkA-361: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-362: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-363: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

**LOG PATH**

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-364: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-365: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

### **Test Case amsdkA-366: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

#### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

## **3.9.4 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

**LOG PATH**

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

### 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

#### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

## 3.9.5 Test Suite : CPU Idle

### 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-337: SUSPEND MODE power consumption sleep\_while\_idle disabled 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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Power Performance data collected

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-338: SUSPEND MODE power consumption sleep\_while\_idle enabled 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Power Performance data collected

**LOG PATH**

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-922: SUSPEND power consumption SR enabled, 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: **Failed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Broken pipe

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-923: SUSPEND power consumption SR enabled, 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: **Failed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Broken pipe

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-924: SUSPEND power consumption SR enabled, sleep\_while\_idle disabled 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: **Failed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes NO IP allocated for dut

LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer  
GR\_18: DVFS, Smart Reflex, CPU Idle

**Test Case amsdkA-925: SUSPEND power consumption SR enabled, sleep\_while\_idle enabled 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: **Failed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes SIGTERM

```
["/var/lib/gems/1.9.1/gems/log4r-1.1.9/lib/log4r/outputter/fileoutputter.rb:28:in
`initialize",
"/home/gtadwlan001/git_repos/vatf/source/target/linux/linux_localhost_driver.rb:78:in
`new",
"/home/gtadwlan001/git_repos/vatf/source/target/linux/linux_localhost_driver.rb:78:in
`start_logger",
"/home/gtadwlan001/git_repos/vatf/source/target/linux/linux_localhost_driver.rb:14:in
`initialize", "/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:399:in
`new", "/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:399:in `block
(3 levels) in start_test",
"/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:383:in `each",
"/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:383:in
`each_with_index",
"/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:383:in `block (2
levels) in start_test",
"/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:382:in `each",
"/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:382:in `block in
start_test", "/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:379:in
`each", "/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:379:in
`start_test", "/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:302:in
`block in init_test_iterations",
"/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:297:in `upto",
"/home/gtadwlan001/git_repos/vatf/source/atf_session_runner.rb:297:in
`init_test_iterations", "atf_run.rb:56:in `block (4 levels) in run_session",
"atf_run.rb:55:in `each", "atf_run.rb:55:in `block (3 levels) in run_session",
"atf_run.rb:53:in `each", "atf_run.rb:53:in `block (2 levels) in run_session",
"atf_run.rb:52:in `upto", "atf_run.rb:52:in `block in run_session", "atf_run.rb:47:in
`each", "atf_run.rb:47:in `run_session", "atf_run.rb:117:in `main "] Unable to assign
equipment linux_server, entry 0 to server1. Verify that dut1 = [" platform
", "ics_android_multimeter"]; server1 = ["linux_server"]; contains valid bench file
entries; that you can communicate with linux_server, entry 0; and that linux_server,
```

entry 0 IO information is correct.

#### LOG PATH

Requirements GR\_16: Power Management will be turned ON in Android Layer

GR\_18: DVFS, Smart Reflex, CPU Idle

## 3.10 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>

### 3.10.1 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)

## testreport am37x\_ICS\_4.0.3

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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 1024 4.5

### LOG PATH

Requirements GR\_39: Commands to compile the sources of Kernel, U-boot, X-loader and WLAN will be provided  
GR\_40: Commands to integrate WLAN packages will be provided  
AM33X\_7: Android DevKit supports WLAN b/g/n

### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 4096 6.42
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

**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:	<b>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=8.5 Buffer Size Throughput 8192 8.5
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

#### **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	2012-03-20

Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 16384 8.52

LOG PATH

Requirements GR\_39: Commands to compile the sources of Kernel, U-boot, X-loader and WLAN will be provided  
GR\_40: Commands to integrate WLAN packages will be provided  
AM33X\_7: Android DevKit supports WLAN b/g/n

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 32768 12.09



LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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: **Failed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Performance is less than 12.3 Mb/s. AVG Throughput=11.31 Buffer Size Throughput 65536 11.31

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=9.21 Buffer Size Throughput 131702 9.21

LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
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## 3.10.2 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>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 1024 4.45

LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
--------------	---

**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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 4096 7.13

LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
--------------	---

**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>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=10.35 Buffer Size Throughput 8192 10.35
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

### **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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 16384 11.99

LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
--------------	---

**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)

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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 32768 12.05

LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
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**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>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=11.1 Buffer Size Throughput 65536 11.1
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

#### **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: **Failed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Performance is less than 12.3 Mb/s. AVG Throughput=12.22 Buffer Size Throughput 131702 12.22

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

### 3.10.3 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 1024 4.51

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 4096 7.1

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Performance is less than 12.3 Mb/s. AVG Throughput=11.19 Buffer Size Throughput 8192 11.19

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 16384 11.57

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 32768 11.58

LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
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**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>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=11.74 Buffer Size Throughput 65536 11.74

LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
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**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>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=11.63 Buffer Size Throughput 131702 11.63

#### LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
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## 3.10.4 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:

## testreport am37x\_ICS\_4.0.3

- 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>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 1024 4.36

### LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
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### **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"



## testreport am37x\_ICS\_4.0.3

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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 4096 7.2

	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

### 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)

## testreport am37x\_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 8192

Last Result:	<b>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=11.0 Buffer Size Throughput 8192 11.0
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

### 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 16384 12.24

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 32768 12.2
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

#### **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: **Failed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Performance is less than 12.3 Mb/s. AVG Throughput=12.28 Buffer Size Throughput 65536 12.28

LOG PATH

Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

**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 2012-03-20

Tester gt\_amsdk\_lead  
Testing notes Buffer Size Throughput 131702 12.55  
LOG PATH  
Requirements AM33X\_7: Android DevKit supports WLAN b/g/n

## 3.10.5 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead

Testing notes      Buffer Size Throughput 1024 4.25

LOG PATH

Requirements      AM33X\_7: Android DevKit supports WLAN b/g/n

**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              2012-03-20

Tester             gt\_amsdk\_lead

Testing notes      Buffer Size Throughput 4096 7.03

LOG PATH

Requirements      AM33X\_7: Android DevKit supports WLAN b/g/n

**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:	<b>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=9.05 Buffer Size Throughput 8192 9.05

**LOG PATH**

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
--------------	---

**Test Case amsdkA-910: WLAN WPA2-PSK, TCP Stream, Buffer size 16 KB**

**Summary:**



## testreport am37x\_ICS\_4.0.3

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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 16384 10.74

### LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
--------------	---

### **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:

## testreport am37x\_ICS\_4.0.3

- 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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 32768 11.52

### LOG PATH

Requirements	AM33X_7: Android DevKit supports WLAN b/g/n
--------------	---

### **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"

## testreport am37x\_ICS\_4.0.3

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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Buffer Size Throughput 65536 12.4
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

### 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>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Performance is less than 12.3 Mb/s. AVG Throughput=11.85 Buffer Size Throughput 131702 11.85
	<u>LOG PATH</u>
Requirements	AM33X_7: Android DevKit supports WLAN b/g/n

## 3.11 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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Gadget not enabled in the release
Requirements	None

## 4 Test Suite : Stress

### 4.1 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:	<b>Failed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Crash(es) reported for [["com.android.music", "pid 1985", "android.database.StaleDataException:"]] No response(s) reported []

#### LOG PATH

Requirements	None
--------------	------

### 4.2 Test Suite : wireless

#### Test Case amsdkA-594: bluetooth

Summary:

## testreport am37x\_ICS\_4.0.3

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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Success Wireless Enable Disable Stress Test=100.0

### LOG PATH

Requirements None

## Test Case amsdkA-595: 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 2012-03-20

Tester gt\_amsdk\_lead

Testing notes Success Wireless Enable Disable Stress Test=100.0

### LOG PATH

Requirements None

## Test Case amsdkA-596: wifi\_wpa-psk

Summary:

## testreport am37x\_ICS\_4.0.3

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	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_10: Settings will be part of Android DevKit core applications GR_77: Settings application helps to configure Ethernet, Wireless and Bluetooth Devices GR_78: Settings application helps to configure Sound, Display and various OOB settings GR_79: Settings application helps to configure Applications

### Test Case amsdkA-597: wifi\_open and bluetooth

Steps:

run script

Expected Results:

must run to complete 100%

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

### Test Case amsdkA-598: wifi\_wpa-psk and bluetooth

Steps:

run script

Expected Results:

must run to complete 100%

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

LOG PATH

Requirements      None

**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 compromized.

Last Result:      **Passed**

Build              2012-03-20

Tester             gt\_amsdk\_lead

Testing notes      Success Wireless Enable Disable Stress Test=100.0

LOG PATH

Requirements      None

## 4.3 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              2012-03-20

Tester             gt\_amsdk\_lead

Testing notes      Success Suspend-Resume Stress Test=100.0



LOG PATH

Requirements GR\_2: The Android Standard GUI will be adopted

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Suspend-Resume Stress Test=100.0

LOG PATH

Requirements None

**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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Suspend-Resume Stress Test=100.0

LOG PATH

Requirements      None

#### 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:      **Failed**

Build              2012-03-20

Tester             gt\_amsdk\_lead

Testing notes      WLAN is preventing the system from suspending.

Requirements      None

#### 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              2012-03-20

Tester             gt\_amsdk\_lead

Testing notes      Suspend-Resume Stress Test=100.0

#### LOG PATH

Requirements      None

### 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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

### 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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

## 4.4 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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

### 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes Graphics Stress Test=100.0

LOG PATH

Requirements None

## 4.5 Test Suite : Browser

Browser Stress test

### Test Case amsdkA-602: Browser Stres test

Steps:

run script

Expected Results:

test run 100%

Last Result: **Failed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Testing notes SIGTERM

LOG PATH

Requirements None

## 4.6 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	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

#### **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	2012-03-20
Tester	gt_amsdk_lead
Testing notes	Graphics Stress Test=100.0

LOG PATH

Requirements	None
--------------	------

#### **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	2012-03-20
Tester	gt_amsdk_lead

Testing notes Graphics Stress Test=100.0

LOG PATH

Requirements None

**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 2012-03-20

Tester gt\_amsdk\_lead

Requirements None

## 4.7 Test Suite : LAN

Stress test area for LAN

**Test Case amsdkA-756: 5-min 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 2012-03-20

Tester gt\_amsdk\_lead  
Requirements None

#### Test Case amsdkA-763: 5-min Network Stream Test

Summary:

Network Stream test

Last Result: **Failed**  
Build 2012-03-20  
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

Requirements None

## 4.8 Test Suite : Device IO

#### Test Case amsdkA-754: 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

## 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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_34: The documentation for setting up host machine must be provided, referred to android links for librari  
GR\_35: Procedure to configure and setup hardware platforms should be provided

#### **Test Case amsdkA-55: Release Notes**

Summary:

Verify that a Release Notes are provided

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

#### **Test Case amsdkA-56: Porting Guide**

Summary:

Verify that an Android Rowboat Porting Guide document is provided

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_41: Porting Guides to adapt to similar platforms will be provided

#### **Test Case amsdkA-57: CTS Report**

Summary:

Verify that a CTS report is provided

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

#### **Test Case amsdkA-58: DevKit Test Report**

Summary:

Verify that a DevKit Test Report is provided

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

**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	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

**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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

**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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_47: Debugging procedure to download .apk files over ADB to EVM should be provided

#### **Test Case amsdkA-75: ADB .apk File Download**

Summary:

Verify that procedure to download .apk files using ADB is documented

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

#### **Test Case amsdkA-76: Eclipse APK File Download**

Summary:

Verify that procedure to download .apk files using Eclipse is documented

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_48: Debugging procedure to download and debug apk files over Eclipse should be provided

#### **Test Case amsdkA-78: DevKit Developers Guide**

Summary:

Verify that a DevKit Developers Guide document is provided

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

#### **Test Case amsdkA-81: Document Format**

Summary:

Verify that all documents follow consistent template for same/similar information

Last Result:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

## 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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_32: Android DevKit should contain Pre-built binaries for uImage u-boot  
x-loader MLO for SubArctic EVM,

#### **Test Case amsdkA-77: Android Devkit apk file**

Summary:

Verify that Android Package (.apk) file is provided for the DevKit

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

#### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

#### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

## 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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_1: Core Android applications should be working after Android boot  
 GR\_29: Android DevKit should contain Sources for u-boot  
 GR\_30: Android DevKit should contain Sources for x-loader  
 GR\_36: Procedure to flash bootloader should be provided  
 GR\_37: Procedure to prepare a SD card to boot Android should be provided  
 GR\_39: Commands to compile the sources of Kernel, U-boot, X-loader and WLAN will be provided  
 GR\_59: DevKit Script to Prepare SD Card to boot the EVM  
 AM33X\_35: Android DevKit supports MMC Boot

#### 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	2012-03-20
Tester	gt_amsdk_lead
Requirements	AM33X_35: Android DevKit supports MMC Boot

#### **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	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

#### **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	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

## **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	None

### **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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_77: Settings application helps to configure Ethernet, Wireless and Bluetooth Devices

### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

## 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: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_12: Music will be part of Android DevKit core applications  
GR\_84: Music application lists songs based on artists, genre and displays album graphic

### **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	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_83: Music application lists Songs from External Storage and Recorded Sounds

**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	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_11: Camera will be part of Android DevKit core applications GR_85: Camera application can capture video and image and can show preview

**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:	<b>Passed</b>
Build	2012-03-20
Tester	gt_amsdk_lead
Requirements	GR_13: Dev Tools will be part of Android DevKit core applications

**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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_14: ICONS for standard applications will be placed on main window

**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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_15: Security will be turned ON in Android Layer

**Test Case amsdkA-617: Android DevKit should contain Sources for 2.6.XX Linux Kernel**

Summary:

Android DevKit should contain Sources for 2.6.XX Linux Kernel

Steps:

Verify that Android DevKit should contain Sources for 2.6.XX Linux Kernel.

Last Result: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_28: Android DevKit should contain Sources for 2.6.XX Linux Kernel

**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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_33: The DevKit installer should work on a ubuntu Linux host machine

### **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: **Passed**

Build 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_49: Links to support infrastructure on e2e and rowboat to be provided

### **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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_5: Email will be part of Android DevKit core applications

### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_50: Links to raise defects against this release should be provided

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_51: Customers should be notified about devkit release through TI news, infolink, android porting mailing

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_11: Camera will be part of Android DevKit core applications

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_61: Android home screen contains Launcher - gateway to all applications

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_63: Android home screen contains Global Search Bar

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements None

**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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_65: Additional Widgets can be added to Home Screen by a long press on the Blank area of Home Screen

#### **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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_66: Multiple Home Screen (5 Screens)

#### **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 2012-03-20

Tester gt\_amsdk\_lead

Requirements GR\_67: Slidable Status bar Indicating Time, System Events on top of the Home Screen

#### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_68: Wallpaper can be changed by pressing long on the Blank area of Home Screen

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_69: Keypad contains HOME, BACK, POWER and MENU Keys.

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_7: Gallery will be part of Android DevKit core applications

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_9: Launcher will be part of Android DevKit core applications

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_8: Global Search will be part of Android DevKit core applications

**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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements GR\_78: Settings application helps to configure Sound, Display and various OOB settings

## 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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements AM33X\_28: Android DevKit supports Hardware Volume Controls

## 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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements AM33X\_16: Android DevKit supports Touchscreen

### Test Case amsdkA-643: Android DevKit supports Mouse

Summary:

Android DevKit supports Mouse

Steps:

Verify that Android DevKit supports Mouse.

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements AM33X\_13: Android DevKit supports Mouse

### Test Case amsdkA-928: Android DevKit supports DVI Out

Summary:

Android DevKit supports DVI Output

Steps:

Verify Android DevKit supports DVI Output is supported.

Last Result: **Passed**  
Build 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements AM33X\_18: Android DevKit supports HDMI Out

## 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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements AM33X\_2: Android DevKit supports Cortex A8 ARM up to Maximum Frequency

### **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 2012-03-20  
Tester gt\_amsdk\_lead  
Requirements AM33X\_3: Android DevKit supports SGX up to Maximum Frequency