



TI Android FroYo DevKit V2
Test Report
(AM37x)

Project: amsdk_android

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1 Test Suite : Compliance

Test Case amsdkA-8: Google's Compliance Test Suite	
<u>Summary:</u> Run CTS	
<u>Expected Results:</u> All CTS tests passed.	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	99.11% Pass Rate.

2 Test Suite : Compatibility

2.1 Test Suite : Reference Software

Test Case amsdkA-9: SDK's Calculator App	
<u>Summary:</u> Run Calculator app (from Google's SDK)	
<u>Expected Results:</u> Application APK is properly installed and runs OK	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-10: SDK's LunarLander App	
<u>Summary:</u> Run LunarLander app (from Google's SDK)	
<u>Expected Results:</u> Application APK is properly installed and runs OK	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-11: Android Market Place App	
<u>Summary:</u> Run one application from Android Market	
<u>Expected Results:</u> Application APK is properly installed and runs OK	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Run several apps from market such as 0xBench, replica island, SDCardTester and others

Test Case amsdkA-12: SDK's ApiDemos App	
<u>Summary:</u> Run ApiDemos app (from Google's SDK)	
<u>Expected Results:</u> Application APK is properly installed and runs OK	
<u>Last Result:</u>	Failed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-13: Dalvik's Unit Tests	
<u>Summary:</u> Run Dalvik VM unit tests (from /dalvik/tests/)	
<u>Expected Results:</u> All Dalvik VM tests passed	
<u>Last Result:</u>	Failed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	passed: 74 test(s) failed: 4 test(s) failed: 057-iteration-performance failed: 062-character-encodings failed: 063-process-manager failed: 071-dexfile

Test Case amsdkA-233: Replica Island	
<u>Summary:</u> Run Replica Island Game	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

2.2 Test Suite : Development Tools

Test Case amsdkA-14: ADB USB

Summary:

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

Expected Results:

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

Last Result: **Passed**

Build 02.00.00

Tester gt_amsdk_lead

Test Case amsdkA-15: ADB Ethernet

Summary:

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

Steps:

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

Expected Results:

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

Last Result: **Passed**

Build 02.00.00

Tester gt_amsdk_lead

Test Case amsdkA-16: DDMS

Summary:

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

Steps:

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

Expected Results:

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

Last Result: **Passed**

Build 02.00.00

Tester gt_amsdk_lead

Test Case amsdkA-234: Monkey

Summary:

Run Monkey application.

Type adb shell monkey -h for help about the options available

<u>Last Result:</u>	Passed
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Build	02.00.00
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Tester	gt_amsdk_lead
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2.3 Test Suite : Multimedia

2.3.1 Test Suite : Audio

2.3.1.1 Test Suite : Decode

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

<u>Last Result:</u>	Passed
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Build	02.00.00
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Tester	gt_amsdk_lead
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2.3.2 Test Suite : Image

2.3.2.1 Test Suite : Decode

Test Case amsdkA-39: JPEG	
<u>Summary:</u> Base + Progressive	
<u>Expected Results:</u> File displays fine	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

2.3.3 Test Suite : Video

2.3.3.1 Test Suite : Decode

Test Case amsdkA-45: H.264	
<u>Summary:</u> H.264 files in 3GPP (.3gp) and MPEG-4 (.mp4) container	
<u>Expected Results:</u> Video file plays fine	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

3 Test Suite: Performance

3.1 Test Suite: System

Test Case amsdkA-47: Browser Launch Time	
<u>Summary:</u> The launch time is measured as the total time to complete loading the default activity for the application, including the time it takes to start the Linux process, load the Android package into the Dalvik VM, and call onCreate.	
<u>Expected Results:</u> Browser should launch in less than 1300ms	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	adb shell am start -W -a android.intent.action.VIEW -n com.android.browser/.BrowserActivity http://www.themaninblue.com/experiment/AnimationBenchmark/ Starting: Intent { act=android.intent.action.VIEW dat=http://www.themaninblue.com/experiment/AnimationBenchmark/ } Status: ok Activity: com.android.browser/.BrowserActivity ThisTime: 560 TotalTime: 560 Complete

Test Case amsdkA-48: AlarmClock Launch Time	
<u>Summary:</u> The launch time is measured as the total time to complete loading the default activity for the application, including the time it takes to start the Linux process, load the Android package into the Dalvik VM, and call onCreate.	
<u>Expected Results:</u> AlarmClock should launch in less than 650ms	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	adb shell am start -W -a android.intent.action.VIEW -n com.android.deskclock/.AlarmClock Starting: Intent { act=android.intent.action.VIEW cmp=com.android.deskclock/.AlarmClock } Status: ok Activity: com.android.deskclock/.AlarmClock ThisTime: 208 TotalTime: 208 Complete

Test Case amsdkA-49: Simultaneous Applications

Expected Results:

When multiple applications have been launched, re-launching an alreadyrunning application after it has been launched must take less than the original launch time.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	<pre>adb shell am start -W -a android.intent.action.VIEW -n com.android.browser/.BrowserActivity http://www.themaninblue.com/experiment/AnimationBenchmark/ Starting: Intent { act=android.intent.action.VIEW dat=http://www.themaninblue.com/experiment/AnimationBenchmark/ } Status: ok Activity: com.android.browser/.BrowserActivity ThisTime: 560 TotalTime: 560 Complete ~@@ adb shell am start -W -a android.intent.action.VIEW -n com.android.deskclock/.AlarmClock Starting: Intent { act=android.intent.action.VIEW cmp=com.android.deskclock/.AlarmClock } Status: ok Activity: com.android.deskclock/.AlarmClock ThisTime: 208 TotalTime: 208 Complete ~@@ adb shell am start -W -a android.intent.action.VIEW -n com.android.browser/.BrowserActivity http://www.themaninblue.com/experiment/AnimationBenchmark/ Starting: Intent { act=android.intent.action.VIEW dat=http://www.themaninblue.com/experiment/AnimationBenchmark/ } Status: ok Activity: com.android.browser/.BrowserActivity ThisTime: 283 TotalTime: 283 Complete</pre>

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

<u>Last Result:</u>	Failed
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Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Boot time is too long ~37 seconds. On first boot, it takes almost 4 minutes.

3.2 Test Suite : 0xBench

Test Case amsdkA-89: 0xBench Math Linpack test	
<u>Summary:</u>	
0xBench Math Linpack test.	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-90: 0xBench Math Scimark2 test	
<u>Summary:</u>	
0xBench Math Scimark2 test.	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-91: 0xBench 2D Draw Canvas test	
<u>Summary:</u>	
0xBench 2D Draw Canvas test.	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-92: 0xBench 2D Draw Circle test	
<u>Summary:</u>	

0xBench 2D Draw Circle test.	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 2D Draw Circle2 test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 2D Draw Rect test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 2D Draw Arc test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 2D Draw Image test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 2D Draw Text test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Cube test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Blending test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Fog test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Flying Teapot test.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

0xBench VM Garbage Collection test.

<u>Last Result:</u>	Passed
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Build	02.00.00
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Tester	gt_amsdk_lead
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Test Case amsdkA-103: 0xBench Native LibMicro test

Summary:

0xBench Native LibMicro test.

<u>Last Result:</u>	Passed
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Build	02.00.00
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Tester	gt_amsdk_lead
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Test Case amsdkA-104: 0xBench Native UnixBench test

Summary:

0xBench Native UnixBench test.

<u>Last Result:</u>	Passed
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Build	02.00.00
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Tester	gt_amsdk_lead
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3.3 Test Suite : Netperf

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

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	02.00.00
Tester	gt_amsdk_lead

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

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

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

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"

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

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"

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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

Summary:

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

Steps:

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

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

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

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

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

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

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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"

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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"

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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"

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

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"

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

3.4 Test Suite : Browser

Test Case amsdkA-115: Sunspider

Summary:

Measure browser performance using Sunspider tool.

Steps:

Open the browser and go to <http://www2.webkit.org/perf/sunspider-0.9/sunspider.html>

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-116: TheManInBlue Animation

Summary:

Measure browser performance using
<http://www.themaninblue.com/experiment/AnimationBenchmark/>

Steps:

Open the browser and go to
<http://http://www.themaninblue.com/experiment/AnimationBenchmark/>

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

3.5 Test Suite : RowboPerf

Test Case amsdkA-118: Dhrystone	
<u>Summary:</u>	
Measure Dhrystone bechmark	
<u>Steps:</u>	
Run RowboPerf's Dhrystone application	
<u>Expected Results:</u>	
As good or better than previous	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	2,000,000 Dhrystones/sec
	1138 DMIPS

Test Case amsdkA-119: Whetstone	
<u>Summary:</u>	
Measure Whetstone metric	
<u>Steps:</u>	
Run RowboPerf's Whetstone application	
<u>Expected Results:</u>	
As good or better than previous release	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Whetstone: 500MIPS

Test Case amsdkA-120: Linpack	
<u>Summary:</u>	
Measure Linpack metrics	
<u>Steps:</u>	

Run RowboPerf's Linpack application	
<u>Expected Results:</u>	
As good or better than previous release	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Linpack: 36622 Kflops

3.6 Test Suite : adb

Test Case amsdkA-121: adb USB Performance	
<u>Summary:</u>	
Measure Android Debug bridge performance using USB connection	
<u>Steps:</u>	
Push and pull a 20MB file 10 times and measure the throughput	
<u>Expected Results:</u>	
As good or better than previous release	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Mean-TX=4853.0 Mean-RX=6154.4 (KB/s)

Test Case amsdkA-122: adb ethernet Performance	
<u>Summary:</u>	
Measure Android Debug bridge performance using ethernet connection	
<u>Steps:</u>	
Push and pull a 20MB file 10 times and measure the throughput	
<u>Expected Results:</u>	
As good or better than previous release	
<u>Last Result:</u>	Passed
Build	02.00.00

Tester	gt_amsdk_lead
Testing notes	Mean-TX=3188.3 KB/s Mean-RX=3022.7 KB/s

3.7 Test Suite : Storage

3.7.1 Test Suite : USB

Test Case amsdkA-209: 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:

- 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

3.7.2 Test Suite : MMC/SD

Test Case amsdkA-191: 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:

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

Expected Results:

Throughput should be as good or better than the last release

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-192: 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:

- 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

02.00.00

Tester

gt_amsdk_lead

Test Case amsdkA-193: 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:

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

Expected Results:

Throughput should be as good or better than the last release

Last Result:

Passed

Build

02.00.00

Tester

gt_amsdk_lead

Test Case amsdkA-194: MMC/SD vfat partition write/read test with a block size of 65536 bytes and a file of size 104857600 bytes

Summary:

---- Warning ----

TestLink Warning

test case name is too long (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:

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

Expected Results:

Throughput should be as goog or better than the last release

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-195: MMC/SD vfat partition write/read test with a block size of 524288 bytes and a fi

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

---- *** ----

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

Steps:

- 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 good or better than the last release

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-196: MMC/SD vfat partition write/read test with a block size of 1048576 bytes and a file of size 104857600 bytes

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

---- *** ----

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

Steps:

- 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 good or better than the last release

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

3.8 Test Suite : Database

3.8.1 Test Suite : TestIndex

Test Case amsdkA-124: TestIndex Benchmarks

Summary:

Run Testindex benchmark application to measure database performance.

Steps:

- 1) Install Testindex (Benchmark.apk) file available at android/common/testindex/benchmark.apk
- 2) Start benchmark application
- 3) Press F1 or the menu button and select sqlite tp start the test
- 4) Wait few minutes (~15min) until the test completes.

Expected Results:

Performance should be as good or better than previous releases

<u>Last Result:</u>	Failed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	<p>TestIndex tool did not finish running, event after more than 90 minutes. No errors shown on logcat</p> <p>User 0%, System 0%, IOW 98%, IRQ 0%</p> <p>User 3 + Nice 0 + Sys 3 + Idle 0 + IOW 296 + IRQ 0 + SIRQ 0 = 302</p> <pre> PID CPU% S #THR VSS RSS PCY UID Name 8298 0% R 1 888K 380K fg root top 1293 0% S 9 115064K 22608K bg app_38 org.garret.bench 537 0% D 1 0K 0K fg root mmcqd 4 0% S 1 0K 0K unk root watchdog/0 5 0% S 1 0K 0K fg root events/0 # </pre>

4 Test Suite : Stress

Test Case amsdkA-235: Long-Term Graphics test	
<u>Summary:</u>	
Run Graphics demos for 48 hrs	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

5 Test Suite : Documentation

Test Case amsdkA-54: DevKit Users Guide	
<u>Summary:</u>	
Verify that a DevKit Users Guide document is provided	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Testing notes	http://processors.wiki.ti.com/index.php/TI-Android-FroYo-DevKit-V2_UserGuide
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Test Case amsdkA-55: Release Notes

Summary:

Verify that a Release Notes are provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	http://processors.wiki.ti.com/index.php/TI-Android-FroYo-DevKit-V2_ReleaseNotes

Test Case amsdkA-57: CTS Report

Summary:

Verify that a CTS report is provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-58: DevKit Test Report

Summary:

Verify that a DevKit Test Report is provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-59: Android Rowboat Manifest

Summary:

Verify that an Android Rowboat Manifest document t is provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-60: Datasheet

Summary:

Verify that a Datasheet document is provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	http://processors.wiki.ti.com/index.php/Android_Comparative_Benchmarks

Test Case amsdkA-72: Eclipse Setup

Summary:

Verify that procedure to setup Eclipse for Android development is provided or referenced in the DevKit documentation

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-73: ADB over Ethernet Setup

Summary:

Verify that the procedure to setup Android Debug Bridge (ADB) over Ethernet is provided or referenced in the DevKit documentation

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-74: ADB over USB Setup

Summary:

Verify that the procedure to setup Android Debug Bridge (ADB) over USB is provided or referenced in the DevKit documentation

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-75: ADB .apk File Download

Summary:

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

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-76: Eclipse APK File Download

Summary:

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

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-78: DevKit Developers Guide

Summary:

Verify that a DevKit Developers Guide document is provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	There is no DevKit developers guide at the moment

Test Case amsdkA-81: Document Format

Summary:

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

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	All docs are following similar Wiki template

Test Case amsdkA-82: Packages List

Summary:

Verify that the DevKit includes a list of packages contained in each filesystem image.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

Test Case amsdkA-83: PinMux Utility Usage

Summary:

Verify that the procedure to use the PinMux utility is provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Available only for AM37x

Test Case amsdkA-84: Serial Flash Utility Usage

Summary:

Verify that the procedure to use the Serial Flash utility is provided

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

6 Test Suite : Tools

Test Case amsdkA-61: Pinmux Utility

Summary:

Verify that a PinMux Utility is provided and it works

Steps:

Use the pinmux utility to generate a header file and use the generated-header file to built Uboot.

Expected Results:

Uboot should build and the enabled IPs should work after booting the DUT

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	No changes here. Same tool tested w/ Linux AM SDK

Test Case amsdkA-62: Flashing Utility

Summary:

Verify that a Flashing Utility is provided and the primary/secondary bootloaders can be flashed to the DUT

Steps:

Flash Uboot to DUT and verify the DUT boots fine.

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	No changes here. Same tool tested w/ Linux AM SDK

Test Case amsdkA-63: Bootable-MMC/SD-Card-Generation script

Summary:

Verify that a script to generate a bootable MMC/SD card is provided and works fine.

Steps:

Generate a bootable MMC/SD card using the script and boot the DUT from MMC/SD

<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead

7 Test Suite : Functionality

7.1 Test Suite : System

Test Case amsdkA-71: System boot w/ console

Summary:

Verify that DUT boots fine w/ provided x-loader, u-boot, ulmage 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 ulmage and use provided root filesystem
3. Boot the DUT
4. type "ls" in the UART console

<u>Expected Results:</u>	
DUT should boot fine and Android console should be available in the UART port.	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Take ~40 seconds to boot. It takes ~4 minutes to boot the first time

Test Case amsdkA-86: OOB Demos	
<u>Summary:</u>	
Validate that the system provides icons to Demo Apps in the wallpaper upon booting	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead
Testing notes	Tested RowboPERF

Test Case amsdkA-87: RootFS over NFS	
<u>Summary:</u>	
Validate that the DUT boots fine when using root filesystem over NFS	
<u>Last Result:</u>	Passed
Build	02.00.00
Tester	gt_amsdk_lead