



## **TI Android FroYo DevKit V2.2**

AM37x\_DevKit2.2

Test Report

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# 1 Test Suite : Compliance

## Test Case amsdkA-8: Google's Compliance Test Suite

Summary:

Run CTS

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes More than 99% of the tests passed

# 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 : 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)

Last Result: **Passed**

Build 2011-01-19

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)

Last Result: **Passed**

Build 2011-01-19

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.

Last Result: **Passed**

Build 2011-01-19  
Tester gt\_amsdk\_lead

### **Test Case amsdkA-234: Monkey**

Summary:

Run Monkey application.

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

## **2.2 Test Suite : Multimedia**

### **2.2.1 Test Suite : Audio**

#### **2.2.1.1 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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

2.2.2 Test Suite : Image

2.2.2.1 Test Suite : Decode

### **Test Case amsdkA-39: JPEG**

Summary:

Base + Progressive

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

2.2.3 Test Suite : Video

2.2.3.1 Test Suite : Decode

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

# 3 Test Suite : Performance

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

System  
Graphics  
Browser

## 3.1 Test Suite : System

### Test Case amsdkA-47: Browser Launch Time

Summary:

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.

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes Browser Launched in 1050ms

### Test Case amsdkA-48: AlarmClock Launch Time

Summary:

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.

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes AlarmClock launched in 601ms

### Test Case amsdkA-49: Simultaneous Applications

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes AlarmClock launched on 496ms the second time

### Test Case amsdkA-117: Boot time

Summary:

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead

### **3.2 Test Suite : 0xBench**

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

Summary:

0xBench Math Linpack test.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes MathLinpack performance data collected successfully  
[LOG PATH](#)

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

Summary:

0xBench Math Scimark2 test.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes MathScimark2 performance data collected successfully  
[LOG PATH](#)

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

Summary:

0xBench 2D Draw Canvas test.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes 2DDrawCanvas performance data collected successfully  
[LOG PATH](#)

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

Summary:

0xBench 2D Draw Circle test.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes 2DDrawCircle performance data collected successfully  
[LOG PATH](#)

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

Summary:

0xBench 2D Draw Circle2 test.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin  
Testing notes 2DDrawCircle2 performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 2D Draw Rect test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 2DDrawRect performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 2D Draw Arc test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 2DDrawArc performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 2D Draw Image test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 2DDrawImage performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 2D Draw Text test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 2DDrawText performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 3D OpenGL Cube test.

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 3DOpenGLCube performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 3D OpenGL Blending test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 3DOpenGLBlending performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 3D OpenGL Fog test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 3DOpenGLFog performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench 3D OpenGL Flying Teapot test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes 3DOpenGLTeapot performance data collected successfully  
[LOG PATH](#)

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

Summary:  
0xBench VM Garbage Collection test.  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes VMGC performance data collected successfully  
[LOG PATH](#)

#### **Test Case amsdkA-103: 0xBench Native LibMicro test**

Summary:

0xBench Native LibMicro test.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes NativeLibMicro performance data collected successfully

[LOG PATH](#)

### **Test Case amsdkA-104: 0xBench Native UnixBench test**

Summary:

0xBench Native UnixBench test.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes NativeUnixBench performance data collected successfully

[LOG PATH](#)

### **3.3 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**

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes Buffer Size Throughput 16 33.04

[LOG PATH](#)

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes Buffer Size Throughput 32 32.44

[LOG PATH](#)

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

Summary:



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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes Buffer Size Throughput 64 33.01

[LOG PATH](#)

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes Buffer Size Throughput 128 33.05

[LOG PATH](#)

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes Buffer Size Throughput 256 33.0

[LOG PATH](#)

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes Buffer Size Throughput 512 32.86

[LOG PATH](#)

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin  
Testing notes Buffer Size Throughput 1024 33.06  
[LOG PATH](#)

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

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Buffer Size Throughput 4096 31.83  
[LOG PATH](#)

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

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Buffer Size Throughput 8192 37.8  
[LOG PATH](#)

## **3.4 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

Last Result: **Failed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Test Failed. 93 < 100  
[LOG PATH](#)

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

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

Last Result: **Failed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes Time too high: 12987ms, 2.1%

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

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

Last Result: **Failed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes execution expired  
[LOG PATH](#)

#### **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

Last Result: **Failed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Test Failed. 55.1 < 100  
[LOG PATH](#)

### ***3.5 Test Suite : RowboPerf***

Various Performance metrics

#### **Test Case amsdkA-118: Dhrystone**

Summary:  
Measure Dhrystone bechmark  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 2,000,000 Dhrystones per second

#### **Test Case amsdkA-119: Whetstone**

Summary:  
Measure Whetstone metric  
Last Result: **Passed**  
Build 2011-01-19

Tester gt\_amsdk\_lead  
Testing notes 500 MIPS

### **Test Case amsdkA-120: Linpack**

Summary:

Measure Linpack metrics

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 33805 KFLOPS

### **3.6 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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Mean-TX=5440.7 Mean-RX=6393.5  
[LOG PATH](#)

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

Summary:

Measure Android Debug bridge performance using ethernet connection

Last Result: **Failed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Performance is less than 4000.0 KB/s. Mean-TX=3300.6  
Mean-RX=2933.4  
[LOG PATH](#)

### **3.7 Test Suite : Storage**

Read and Write performance tests

#### **3.7.1 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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

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

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

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

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

**Test Case amsdkA-268: USB vfat partition write/read test with a block size**

### of 65536 bytes and a file 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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

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

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

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

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

### 3.7.2 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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

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

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

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

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully

[LOG PATH](#)

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

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully

[LOG PATH](#)

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

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

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

Last Result: **Passed**



Build 2011-01-19  
Tester gt\_admin  
Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

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

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes StorageIO performance data collected successfully  
[LOG PATH](#)

### **3.8 Test Suite : Power**

This Test Suite Measure power consumption under different scenarios.

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

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

See test cases for more details.

**Test Case amsdkA-254: Idle power performance with FULL\_WAKE\_LOCK**

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_admin

Testing notes Power Performance data collected  
[LOG PATH](#)

**Test Case amsdkA-255: Idle power performance with SCREEN\_BRIGHT\_WAKE\_LOCK**

Summary:

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Power Performance data collected  
[LOG PATH](#)

**Test Case amsdkA-256: Idle power performance with SCREEN\_DIM\_WAKE\_LOCK**

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Power Performance data collected  
[LOG PATH](#)

**Test Case amsdkA-257: Idle power performance with PARTIAL\_WAKE\_LOCK**

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Power Performance data collected  
[LOG PATH](#)

**Test Case amsdkA-258: Dhrystone power performance with PARTIAL\_WAKE\_LOCK**

Summary:  
Acquire PARTIAL WakeLock and measure power while running Dhrystone benchmark

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Power Performance data collected  
[LOG PATH](#)

**Test Case amsdkA-259: 3D Graphics power performance**

Summary:  
Measure power while running 3D graphics application

Last Result: **Passed**  
Build 2011-01-19

Tester gt\_admin  
Testing notes Power Performance data collected  
[LOG PATH](#)

### **Test Case amsdkA-260: Audio + Video power performance**

Summary:  
Measure power while running video and audio decode and playback  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Power Performance data collected  
[LOG PATH](#)

### **Test Case amsdkA-261: SUSPEND MODE power consumption**

Summary:  
Measure power while system is in SUSPEND mode  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_admin  
Testing notes Power Performance data collected  
[LOG PATH](#)

## **3.9 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>

### **Test Case amsdkA-284: Non-Secure, TCP Stream, Buffer Size 1024**

Summary:  
Measures TCP bandwidth between Server (Running on Host PC) and Client (Android DUT).  
Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 87380 2048 2048 60.00 6.25 tiwlan:9%,ti\_sdio\_drv:3%

### **Test Case amsdkA-285: Non-Secure, TCP Stream, Buffer size 4096**

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 87380 8192 8192 60.00 11.73  
tiwlan:12%,ti\_sdio\_drv:3%

#### **Test Case amsdkA-286: Non-Secure, TCP Stream, Buffer size 8192**

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 87380 16384 16384 60.00 14.46  
tiwlan:16%,ti\_sdio\_drv:6%

#### **Test Case amsdkA-287: Secure Authentication PSA-PSK, TCP Stream**

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 87380 8192 8192 60.00 8.59  
tiwlan:12%,ti\_sdio\_drv:3%

#### **Test Case amsdkA-288: Secure Encryption WEP 64bits, TCP Stream**

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 87380 8192 8192 60.00 8.79  
tiwlan:12%,ti\_sdio\_drv:3%

#### **Test Case amsdkA-289: Secure Encryption WEP 128bits, TCP Stream**

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

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead  
Testing notes 87380 8192 8192 60.00 8.66 tiwlan:12%,ti\_sdio\_drv:3%

# 4 Test Suite : Documentation

## Test Case amsdkA-54: DevKit Users Guide

Summary:

Verify that a DevKit Users Guide document is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes Wiki is provided at [http://processors.wiki.ti.com/index.php/TI-Android-FroYo-DevKit-V2.2\\_UserGuide](http://processors.wiki.ti.com/index.php/TI-Android-FroYo-DevKit-V2.2_UserGuide)

## Test Case amsdkA-55: Release Notes

Summary:

Verify that a Release Notes are provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes User guide contains link to release notes

## Test Case amsdkA-56: Porting Guide

Summary:

Verify that an Android Rowboat Porting Guide document is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

## Test Case amsdkA-57: CTS Report

Summary:

Verify that a CTS report is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes Devkit page contains link to CTS report

## Test Case amsdkA-58: DevKit Test Report

Summary:

Verify that a DevKit Test Report is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes Devkit contains link to test report

### **Test Case amsdkA-59: Android Rowboat Manifest**

Summary:

Verify that an Android Rowboat Manifest document t is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes Devkit page contains Documents link that contain the Manifest

### **Test Case amsdkA-60: Datasheet**

Summary:

Verify that a Datasheet document is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes Devkit page contains Performance Results link

### **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: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes User guide contains link to developers site that explains eclipse setup

### **Test Case amsdkA-73: ADB over Ethernet Setup**

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes User guide contains adb over ethernet setup procedure

### **Test Case amsdkA-74: ADB over USB Setup**

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes User's guide contains adb over usb setup procedure

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes User's guide contains apk installation command

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes User's guide conatins link to eclipse usage  
<http://developer.android.com/guide/developing/eclipse-adt.html>

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

Summary:

Verify that a DevKit Developers Guide document is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

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

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

#### **Test Case amsdkA-82: Packages List**

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes Manifest file contains list of packages

#### **Test Case amsdkA-83: PinMux Utility Usage**

Summary:

Verify that the procedure to use the PinMux utility is provided

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes Validated during linux sdk testing.

### **Test Case amsdkA-84: Serial Flash Utility Usage**

Summary:

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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes User's guide contains a link to the flash utilities instructions



# 5 Test Suite : Kitting

## Test Case amsdkA-51: Review DevKit components with the legal team

Summary:

All components in the DevKit shall be reviewed by the legal team to identify any possible incompatibility.

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

## Test Case amsdkA-52: Review SW Manifest with OSRB

Summary:

Software manifests shall be reviewed and approved by the OSRB

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

## Test Case amsdkA-79: Download Page

Summary:

Verify that the DevKit installer is distributed from TI's download page and that md5 checksums are provided for all the downloadable files

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

## Test Case amsdkA-80: arowboat.org Download Link

Summary:

Verify that a link to TI's product download page is provided on arowboat.org

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes arowboat.org contains the link

# 6 Test Suite : Tools

Validate tools provided with the SDK such as flash and pin mux utilities.

## **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.

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead

## **Test Case amsdkA-291: Fastboot utility**

Summary:

Validate fastboot

Last Result: **Passed**  
Build 2011-01-19  
Tester gt\_amsdk\_lead

# 7 Test Suite : Functionality

Functional Test cases

## 7.1 Test Suite : System

### Test Case amsdkA-70: System boot

Summary:

Verify that DUT boots fine w/ provided x-loader, u-boot, ulmage and root filesystem

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

### 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

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

### Test Case amsdkA-86: OOB Demos

Summary:

Validate that the system provides icons to Demo Apps in the wallpaper upon booting

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

### Test Case amsdkA-87: RootFS over NFS

Summary:

Validate that the DUT boots fine when using root filesystem over NFS

Last Result: **Passed**

Build 2011-01-19

Tester gt\_amsdk\_lead

## 7.2 Test Suite : Video

### Test Case amsdkA-283: VRFB

Summary:

Test VRFB functionality.

Last Result: **Passed**

Build 2011-01-19  
Tester gt\_amsdk\_lead

### Test Case amsdkA-290: S-Video output

Summary:

Check the S-Video output

Last Result: **Failed**

Build 2011-01-19

Tester gt\_amsdk\_lead

Testing notes SDOCM00078506

## 8 Versioning

This is Release DevKit-V2.2 The release is available from

[http://software-dl.ti.com/dsps/dsps\\_public\\_sw/sdo\\_tii/TI\\_Android\\_DevKit/02\\_02\\_00/index\\_FDS.html](http://software-dl.ti.com/dsps/dsps_public_sw/sdo_tii/TI_Android_DevKit/02_02_00/index_FDS.html)

The release notes is available at

[http://processors.wiki.ti.com/index.php/TI-Android-FroYo-DevKit-V2.2\\_ReleaseNotes](http://processors.wiki.ti.com/index.php/TI-Android-FroYo-DevKit-V2.2_ReleaseNotes)

## 9 Technical Support and Product Updates

For further information or to report any problems, contact <http://e2e.ti.com/android> or <http://support.ti.com>.

For community support join <http://groups.google.com/group/rowboat>

For IRC #rowboat on irc.freenode.net

To raise any defect for this release please use

<http://code.google.com/p/rowboat/issues/list>