

testreport AM335x-SK_PG1.0_JB_4.2.2

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1 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>

1.1 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 2013-06-14
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 2013-06-14
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 2013-06-14
Tester gt_amsdk_lead

1.2 Test Suite : Multimedia

1.2.1 Test Suite : Audio

1.2.1.1 Test Suite : Decode

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)

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

1.2.2 Test Suite : Image

1.2.2.1 Test Suite : Decode

Test Case amsdkA-39: JPEG

Summary:

Display JPEG files using the Gallery app.

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead

Test Case amsdkA-40: PNG

Summary:

Display PNG image with Galllery app.

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead

Test Case amsdkA-41: GIF

Summary:

Display GIF image with Gallery app.

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead

Test Case amsdkA-42: BMP

Summary:

Display BMP Image with Gallery app.

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead

1.2.3 Test Suite : Video

1.2.3.1 Test Suite : Decode

Test Case amsdkA-46: MPEG4 SP

Summary:

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

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead
Testing notes Test case PASS.Performance data was NOT compared

LOG PATH

Test Case amsdkA-776: H.264_352x288_4mbps_aac

Summary:

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

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead
Testing notes Test case PASS.Performance data was NOT compared

LOG PATH

Test Case amsdkA-782: MPEG4_720x480_15mbps_aac

Summary:

MPEG4 files in 3GPP (.3gp) container

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead
Testing notes Test case PASS.Performance data was NOT compared

LOG PATH

2 Test Suite : Performance

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

1. System
2. Graphics
3. Browser

2.1 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.

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

2.2 Test Suite : 0xBench

Test Case amsdkA-89: 0xBench Math Linpack test

Summary:

0xBench Math Linpack test.

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

Test Case amsdkA-90: 0xBench Math Scimark2 test

Summary:

0xBench Math Scimark2 test.

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

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

Summary:

0xBench 2D Draw Canvas test.

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

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

Summary:

0xBench 2D Draw Circle test.

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

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

Summary:

0xBench 2D Draw Circle2 test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench 2D Draw Rect test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench 2D Draw Arc test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench 2D Draw Image test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench2D Draw Text test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Cube test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Blending test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Fog test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench 3D OpenGL Flying Teapot test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

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

Summary:

0xBench VM Garbage Collection test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

2.3 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: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |
| Testing notes | Test case PASS.Performance data was NOT compared |

LOG PATH

2.4 Test Suite : RowboPerf

Various Performance metrics

Test Case amsdkA-118: Dhrystone

Summary:

Measure Dhrystone bechmark

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes Test case PASSED.Performance data was NOT compared

LOG PATH

Test Case amsdkA-119: Whetstone

Summary:

Measure Whetstone metric

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes Test case PASSED.Performance data was NOT compared

LOG PATH

Test Case amsdkA-120: Linpack

Summary:

Measure Linpack metrics

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes Test case PASSED.Performance data was NOT compared

LOG PATH

2.5 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 | 2013-06-14 |
| Tester | gt_amsdk_lead |

2.6 Test Suite : Storage

Read and Write performance tests

2.6.1 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 2013-06-14

Tester gt_amsdk_lead

Testing notes StorageIO performance data collected successfullyPerformance data was NOT compared

LOG PATH

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

---- *** ----

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

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes StorageIO performance data collected successfullyPerformance data was NOT compared

LOG PATH

2.6.2 Test Suite : MMC/SD

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 2013-06-14

Tester gt_amsdk_lead

Testing notes StorageIO performance data collected successfullyPerformance data was NOT compared

LOG PATH

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

Summary:

---- Warning ----

TestLink Warning

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

Original name

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

---- *** ----

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

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes StorageIO performance data collected successfullyPerformance data was NOT compared

LOG PATH

2.7 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>

2.7.1 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).

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

2.7.2 Test Suite : WEP 40 bits

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).

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes Buffer Size Throughput 4096 13.72 Performance data was NOT compared

LOG PATH

2.7.3 Test Suite : WEP 128 bits

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).

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes Buffer Size Throughput 8192 17.38 Performance data was NOT compared

LOG PATH

2.7.4 Test Suite : WPA-PSK

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).

| | |
|---------------|--|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |
| Testing notes | Buffer Size Throughput 16384 15.17 Performance data was NOT compared |

LOG PATH

2.7.5 Test Suite : WPA2-PSK

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).

| | |
|---------------|--|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |
| Testing notes | Buffer Size Throughput 32768 27.26 Performance data was NOT compared |

LOG PATH

2.8 Test Suite : Imbench

Test Case amsdkA-1073: LMBench test

Summary:

LMBench test.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes Imbench data collected successfully Performance data was NOT compared

LOG PATH

2.9 Test Suite : Netperf

Tool to measure TCP/UDP bandwidth.

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

2.9.1 Test Suite : TCP

TCP bandwidth

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

Summary:

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

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| 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).

| | |
|---------------|---|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |
| Testing notes | Buffer Size Throughput ["8192"] {">79.94} Performance data was NOT compared |

LOG PATH

2.9.2 Test Suite : UDP

Test Case amsdkA-1075: UDP Stream, Buffer size 32 KB

Summary:

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

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

Test Case amsdkA-1081: UDP Stream, Buffer size 4096

Summary:

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

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

2.10 Test Suite : Graphics

Test Case amsdkA-1505: IMG's OGLLES2ChameleonMan FPS performance

Summary:

Measure FPS of IMG OGLLES2ChameleonMan demo

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes FPS data collected successfully Performance data was NOT compared

LOG PATH

3 Test Suite : Stress

3.1 Test Suite : wireless

Test Case amsdkA-594: bluetooth

Summary:

This stress test case, stress the system by enabling and disabling bluetooth interface 1000 times and verifying connectivity.

| | |
|---------------|---|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |
| Testing notes | Success Wireless Enable Disable Stress Test=100.0 |

LOG PATH

Test Case amsdkA-595: wifi_open

Summary:

This test case stress the system by enabling , configuring and checking connectivity and finally disabling for 1000 times.

This is non secure connection setup.

| | |
|---------------|---|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |
| Testing notes | Success Wireless Enable Disable Stress Test=100.0 |

LOG PATH

Test Case amsdkA-596: wifi_wpa-psk

Summary:

This test case stresses the 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.

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |

Tester gt_amsdk_lead
Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

Test Case amsdkA-597: wifi_open and bluetooth

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead
Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

Test Case amsdkA-598: wifi_wpa-psk and bluetooth

Last Result: **Passed**
Build 2013-06-14
Tester gt_amsdk_lead
Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

3.2 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.

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Testing notes Success Wireless Enable Disable Stress Test=100.0

LOG PATH

4 Test Suite : Functionality

Functional Test cases

4.1 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

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

Test Case amsdkA-71: System boot w/ console

Summary:

Verify that DUT boots fine w/ provided x-loader, u-boot, uImage and root filesystem and upon booting the Android console is available in the UART port

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| 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 | 2013-06-14 |
| Tester | gt_amsdk_lead |

4.2 Test Suite : Bluetooth

Test Case amsdkA-669: BT-Stream music to bluetooth stereo headset

Summary:

Stream music to bluetooth stereo headset via A2DP profile

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

Test Case amsdkA-477: Bluetooth Object push

Summary:

Verify that you can transfer files to the device via a bluetooth connection

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

Test Case amsdkA-887: BT-Verify that HID devices are working as expected

Summary:

Verify that BT HID devices mouse and/or keyboard are recognized by the EVM and are working as expected

| | |
|--------------|---------------|
| Last Result: | Passed |
| Build | 2013-06-14 |
| Tester | gt_amsdk_lead |

4.3 Test Suite : WLAN

Test Case amsdkA-929: Verify softAP functionality

Summary:

Verify that the device can be configured as a soft Access Point

Last Result: **Failed**

Build 2013-06-14

Tester gt_amsdk_lead

Test Case amsdkA-930: Verify Wifi Direct functionality

Summary:

Verify Wifi direct functionality in the device

Last Result: **Failed**

Build 2013-06-14

Tester gt_amsdk_lead

4.4 Test Suite : Media/Picture Transfer Protocol (MTP, PTP)

Test Case amsdkA-1504: Media Transfer Protocol

Summary:

Verify that MTP functionality is working on the device

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

Test Case amsdkA-1509: Picture Transfer Protocol

Summary:

Verify that PTP functionality is working on the device

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead

4.5 Test Suite : Camera

Test Case amsdkA-1527: Camera Functionality

Summary:

- Verify that the camera works in the device by:

1. Taking pictures
2. Recording video
3. Being able to test the camera option on the device

Last Result: **Passed**

Build 2013-06-14

Tester gt_amsdk_lead