

Intel® Media Software Development Kit 2013 for Android* on Baytrail Platform Release Notes

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Overview

The **Intel® Media Software Development Kit for Android*** (Intel® Media SDK) is a software development library that exposes the media acceleration capabilities of Intel® platforms for decoding and encoding. The API library covers a wide range of Intel platforms. The Intel Media SDK targets general application developers who want to integrate encoding and decoding into their applications.

The Intel® Media SDK OpenMAX* Integration Layer (IL) Plug-ins expose Hardware Acceleration support on Intel® platforms running Android* Operating System thru Android* Stagefright* Media Framework.

Package Contents

Binary delivery of Media SDK for Android* contains the following components:

./mediasdk_release_notes.pdf

Intel® Media SDK Release Notes (this file)

| | |
|--------------------------------------|--|
| ./lib/p8/libmfxhw32.so | Intel® Media SDK Dynamic Library |
| ./lib/p8/libmfx_omx_core.so | Intel® Media SDK OpenMAX* IL Core |
| ./lib/p8/libmfx_omx_components_hw.so | Intel® Media SDK OpenMAX* IL Components (Plug-ins) |

Features

Hardware accelerated Intel® Media SDK Library included in this package implements Intel® Media SDK API 1.6 and contains the following components:

| Component | Supported features | Limitations |
|---------------|---|--|
| H.264 decoder | Supported Profiles: <ul style="list-style-type: none"> Baseline Main High | Maximum supported resolution is 1920x1088 |
| H.264 encoder | Supported Profiles: <ul style="list-style-type: none"> Baseline Main High Supported methods: <ul style="list-style-type: none"> Constant QP (CQP) Constant Bit Rate (CBR) Variable Bit Rate (VBR) | <ul style="list-style-type: none"> Maximum supported resolution is 1920x1088 Does not support encoding of interlaced streams |
| VC1 decoder | Supported Profiles: <ul style="list-style-type: none"> Simple Main Advanced | Maximum supported resolution is 1920x1088 |

The Media SDK OpenMAX* IL Plug-ins included in this release support the same codecs as Media SDK library (see table above for the details). All limitations applicable to Media SDK library are applicable to the Media SDK OpenMAX* IL Plug-ins since their implementation is based on Media SDK.

System Requirements

Product passed validation on the following configuration:

- Operating System:
 - Android* 4.3 (Jelly Bean)
- Hardware:
 - Firmware: Android_BYT_B0_Engg_IFWI_00.14

- SOC: Valleyview B0

Installation

To install Media SDK for Android* on the platform it is needed to:

- 1) Place Shared Library files in the /system/lib folder. Libraries are:
 - a. libmfxhw32.so
 - b. libmfx_omx_components_hw.so
 - c. libmfx_omx_core.so
- 2) Register desired Media SDK OpenMAX* Plug-ins within OpenMAX* IL Core by creating /etc/mfx_omxil_core.conf configuration file. For example, configuration file with the following contents registers all Plug-ins included in this release:

```
$ cat mfx_omxil_core.conf
OMX.Intel.hw_vd.h264 : libmfx_omx_components_hw.so
OMX.Intel.hw_ve.h264 : libmfx_omx_components_hw.so
OMX.Intel.hw_vd.vcl  : libmfx_omx_components_hw.so
```

- 3) Register Media SDK OpenMAX* IL Components within Stagefright* framework by modifying /etc/media_codec.xml file. For example, the following lines registers all components included in this release:

```
$ cat media_codecs.xml
<MediaCodecs>
  <Decoders>
    <MediaCodec name="OMX.Intel.hw_vd.h264" type="video/avc" />
    <MediaCodec name="OMX.Intel.hw_vd.vcl" type="video/x-ms-wmv" />
    <MediaCodec name="OMX.Intel.hw_vd.vcl" type="video/wmv" />
  </Decoders>

  <Encoders>
    <MediaCodec name="OMX.Intel.hw_ve.h264" type="video/avc" />
  </Encoders>
</MediaCodecs>
```

Notes:

- a. Please, keep in mind that decoder/encoder listed for the specific mime type first will have preference over other components with the same capabilities.
 - b. Please, keep in mind that searching for the component is being done by checking mime types. Thus, component should be registered for the all possible required mime types supported on the specific platform.
- 4) Register Media SDK OpenMAX* IL Core within /system/lib/libstagefrighthw.so library to make Media SDK Plug-ins visible to the Stagefright* framework.

Versions Information

To obtain versions of the binaries included in this release run the following commands on Linux* Host (output should be as provided below):

1) For Intel® Media SDK Library run:

```
$ strings libmfxhw32.so | grep mediasdk
mediasdk_product_version: 4.0.1601xxx.ssss
mediasdk_file_version: 4.yy.dd.mm
mediasdk_copyright: Copyright(c) 2007-2013 Intel Corporation
mediasdk_product_name: Intel(r) Media SDK 2013 for Android*
```

2) For Intel® Media SDK OpenMAX IL Plug-ins run:

```
$ strings libmfx_omx_components_hw.so | grep mediasdk_omx
mediasdk_omx_product_version: 4.0.1601xxx.ssss
mediasdk_omx_file_version: 4.yy.dd.mm
mediasdk_omx_copyright: Copyright(c) 2011-2013 Intel Corporation
mediasdk_omx_product_name: Intel(r) Media SDK OpenMAX* Hardware Integration
Layer Components
```

3) For Intel® Media SDK OpenMAX IL Core run:

```
$ strings libmfx_omx_core.so | grep mediasdk_omx
mediasdk_omx_product_version: 4.0.1601xxx.ssss
mediasdk_omx_file_version: 4.yy.dd.mm
mediasdk_omx_copyright: Copyright(c) 2011-2013 Intel Corporation
mediasdk_omx_product_name: Intel(r) Media SDK OpenMAX* Integration Layer Core
```

where

- xxx.ssss is Media SDK internal versioning information
- yy.dd.mm is YEAR.DATE.MONTH of the build

Known Limitations

- Media SDK OpenMAX components do not support "OpenMAX™ Integration Layer Extension NAL Unit Packaging".

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```
$ objdump -x libmfxhw32.so | grep NEEDED
NEEDED          libstlport-mfx.so
NEEDED          libgabi++-mfx.so
NEEDED          libva.so
NEEDED          libdl.so
NEEDED          libc.so
NEEDED          libstdc++.so
NEEDED          libm.so
$ objdump -x libmfx_omx_core.so | grep NEEDED
NEEDED          libdl.so
NEEDED          liblog.so
NEEDED          libstlport-mfx.so
NEEDED          libgabi++-mfx.so
NEEDED          libc.so
NEEDED          libstdc++.so
NEEDED          libm.so
$ objdump -x libmfx_omx_components_hw.so | grep NEEDED
NEEDED          libdl.so
NEEDED          liblog.so
NEEDED          libva.so
NEEDED          libva-android.so
NEEDED          libva-tpi.so
NEEDED          libintelmetadatabuffer.so
NEEDED          libhardware.so
NEEDED          libstlport-mfx.so
NEEDED          libgabi++-mfx.so
NEEDED          libc.so
NEEDED          libstdc++.so
NEEDED          libm.so
```

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Android adaptation and tweak by Jim Huang <jserv@0xlab.org>.

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Theo de Raadt <deraadt@openbsd.org> came up with the idea of using
such a mathematical system to generate more random (yet non-repeating)
ids to solve the resolver/named problem. But Niels designed the
actual system based on the constraints.

Later modified by Damien Miller to wrap the LCG output in a 15-bit
permutation generator based on a Luby-Rackoff block cipher. This

ensures the output is non-repeating and preserves the MSB twiddle trick, but makes it more resistant to LCG prediction.

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