

Intel® Media Software Development Kit 2015 for Android* on Bay Trail Platform Release Notes

Table of Contents

Overview	2
Package Contents	2
Features	3
System Requirements	3
Installation	4
Versions Information	7
Known Limitations	7
Legal Information	8
Attribution.....	9
STLPORT License Agreement.....	10
GABI++ License Agreement.....	11
LIBVA License Agreement.....	13
LIBDL License Agreement.....	13
LIBC License Agreement.....	14
LIBSTDC++ License Agreement.....	56
LIBM License Agreement.....	57
LIBLOG License Agreement.....	64
IntelMetaDataBuffer License Agreement.....	65
LibHardware License Agreement	66

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:

./doc/mediasdk_release_notes.pdf	Intel® Media SDK Release Notes (this file)
./lib/x86/libmfxsw32.so	Intel® Media SDK Dynamic SW Library
./lib/x86/libmfxhw32.so	Intel® Media SDK Dynamic HW Library
./lib/x86/libmfx_omx_core.so	Intel® Media SDK OpenMAX* IL Core
./lib/x86/libmfx_omx_components_sw.so	Intel® Media SDK OpenMAX* IL Components (plug-ins)
./lib/x86/libmfx_omx_components_hw.so	Intel® Media SDK OpenMAX* IL Components (plug-ins)
./lib/x86_64/libmfxsw64.so	Intel® Media SDK Dynamic SW Library
./lib/x86_64/libmfxhw64.so	Intel® Media SDK Dynamic HW Library
./lib/x86_64/libmfx_omx_core.so	Intel® Media SDK OpenMAX* IL Core
./lib/x86_64/libmfx_omx_components_sw.so	Intel® Media SDK OpenMAX* IL Components (plug-ins)
./lib/x86_64/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
HW H.264 decoder	Supported Profiles: <ul style="list-style-type: none">• Baseline• Main• High	Maximum supported resolution is 3840x2160
HW H.264 secure decoder	Supported Profiles: <ul style="list-style-type: none">• Baseline• Main• High	Maximum supported resolution is 3840x2160
SW VP8 decoder		Maximum supported resolution is 640x360
SW VP9 decoder		Maximum supported resolution is 640x360
SW H.265 decoder	Supported Profiles: <ul style="list-style-type: none">• Main	Maximum supported resolution is 640x360
HW 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)	Maximum supported resolution is 1920x1088 Does not support encoding of interlaced streams

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 Plugins since their implementation is based on Media SDK.

System Requirements

Product passed validation on Android* 5.1 (LOLLIPOP_MR1)

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. libmfxsw32.so
 - b. libmfxhw32.so
 - c. libmfx_omx_components_sw.so
 - d. libmfx_omx_components_hw.so
 - e. 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_vd.h264.secure : libmfx_omx_components_hw.so
OMX.Intel.hw_ve.h264      : libmfx_omx_components_hw.so
OMX.Intel.sw_vd.vp8       : libmfx_omx_components_sw.so
OMX.Intel.hw_vd.vp8       : libmfx_omx_components_hw.so
OMX.Intel.sw_vd.vp9       : libmfx_omx_components_sw.so
OMX.Intel.hw_vd.vp9       : libmfx_omx_components_hw.so
OMX.Intel.sw_vd.h265      : libmfx_omx_components_sw.so
OMX.Intel.hw_vd.h265      : libmfx_omx_components_hw.so
OMX.Intel.hw_ve.vp8       : 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.mp3.decoder" type="audio/mpeg" >
      <Limit name="channel-count" max="2" />
      <Limit name="sample-rate" ranges="8000,11025,12000,16000,22050,24000,32000,44100,48000" />
      <Limit name="bitrate" range="8000-320000" />
    </MediaCodec>
    <MediaCodec name="OMX.Intel.amrnb.decoder" type="audio/3gpp" >
      <Limit name="channel-count" max="1" />
      <Limit name="sample-rate" ranges="8000" />
      <Limit name="bitrate" range="4750-12200" />
    </MediaCodec>
    <MediaCodec name="OMX.Intel.amrwb.decoder" type="audio/amr-wb" >
      <Limit name="channel-count" max="1" />
      <Limit name="sample-rate" ranges="16000" />
      <Limit name="bitrate" range="6600-23850" />
    </MediaCodec>
    <MediaCodec name="OMX.Intel.aac.decoder" type="audio/mp4a-latm" >
      <Limit name="channel-count" max="8" />
      <Limit name="sample-rate" ranges="7350,8000,11025,12000,16000,22050,24000,32000,44100,48000" />
      <Limit name="bitrate" range="8000-960000" />
    </MediaCodec>
    <MediaCodec name="OMX.Intel.vorbis.decoder" type="audio/vorbis" >
      <Limit name="channel-count" max="8" />
      <Limit name="sample-rate" ranges="8000-96000" />
      <Limit name="bitrate" range="32000-500000" />
    </MediaCodec>
  </Decoders>
</MediaCodecs>
```

```

<MediaCodec name="OMX.Intel.hw_vd.h264" type="video/avc" >
  <Limit name="size" min="64x64" max="3840x2160" />
  <Limit name="alignment" value="2x2" />
  <Limit name="block-size" value="16x16" />
  <Limit name="blocks-per-second" range="1-972000" />
  <Limit name="bitrate" range="1-40000000" />
  <Feature name="adaptive-playback" />
</MediaCodec>
<MediaCodec name="OMX.Intel.hw_vd.h264.secure" type="video/avc">
  <Limit name="size" min="64x64" max="3840x2160" />
  <Limit name="alignment" value="2x2" />
  <Limit name="block-size" value="16x16" />
  <Limit name="blocks-per-second" range="1-972000" />
  <Limit name="bitrate" range="1-40000000" />
  <Feature name="adaptive-playback" />
  <Feature name="secure-playback" required="true" />
</MediaCodec>
<MediaCodec name="OMX.Intel.sw_vd.vp8" type="video/x-vnd.on2.vp8" >
  <Limit name="size" min="64x64" max="640x360" />
  <Limit name="alignment" value="2x2" />
  <Limit name="block-size" value="16x16" />
  <Limit name="blocks-per-second" range="1-27000" />
  <Limit name="bitrate" range="1-2000000" />
  <Feature name="adaptive-playback" />
</MediaCodec>
<MediaCodec name="OMX.Intel.sw_vd.vp9" type="video/x-vnd.on2.vp9" >
  <Limit name="size" min="64x64" max="640x360" />
  <Limit name="alignment" value="2x2" />
  <Limit name="block-size" value="16x16" />
  <Limit name="blocks-per-second" range="1-27000" />
  <Limit name="bitrate" range="1-1600000" />
  <Feature name="adaptive-playback" />
</MediaCodec>
<MediaCodec name="OMX.Intel.sw_vd.h265" type="video/hevc" >
  <Limit name="size" min="64x64" max="640x360" />
  <Limit name="alignment" value="2x2" />
  <Limit name="block-size" value="16x16" />
  <Limit name="blocks-per-second" range="1-27000" />
  <Limit name="bitrate" range="1-1600000" />
  <Feature name="adaptive-playback" />
</MediaCodec>
</Decoders>

```

```

<Encoders>
  <MediaCodec name="OMX.Intel.aac.encoder" type="audio/mp4a-latm" >
    <Limit name="channel-count" max="6" />
    <Limit name="sample-rate" ranges="8000,11025,12000,16000,22050,24000,32000,44100,48000" />
    <!-- also may support 64000, 88200 and 96000 Hz -->
    <Limit name="bitrate" range="8000-960000" />
  </MediaCodec>
  <MediaCodec name="OMX.Intel.amrnb.encoder" type="audio/3gpp" >
    <Limit name="channel-count" max="1" />
    <Limit name="sample-rate" ranges="8000" />
    <Limit name="bitrate" range="4750-12200" />
    <Feature name="bitrate-modes" value="CBR" />
  </MediaCodec>
  <MediaCodec name="OMX.Intel.amrwb.encoder" type="audio/amr-wb" >
    <Limit name="channel-count" max="1" />
    <Limit name="sample-rate" ranges="16000" />
    <Limit name="bitrate" range="6600-23850" />
    <Feature name="bitrate-modes" value="CBR" />
  </MediaCodec>
  <MediaCodec name="OMX.Intel.hw_ve.h264" type="video/avc" >
    <Limit name="size" min="176x144" max="1920x1088" />
    <Limit name="alignment" value="16x16" />
    <Limit name="block-size" value="16x16" />
    <Limit name="blocks-per-second" range="1-243000" />
    <Limit name="bitrate" range="1-15000000" />
  </MediaCodec>
</Encoders>
<Include href="media_codecs_google_video.xml" />
<Include href="media_codecs_google_audio.xml" />
</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 for Intel® Media SDK OpenMAX IL Plug-ins run the following command on Linux* Host (output should be as provided below):

```
strings libmfx_omx_components_hw.so | grep mediasdk
mediasdk_omx_product_version: V.v.xxxx
mediasdk_omx_file_version: V.yy.d.m
mediasdk_omx_copyright: Copyright(c) 2011-2015 Intel Corporation
mediasdk_omx_product_name: Intel(r) Media SDK OpenMAX Hardware Integration Layer Components
```

Where

- *V.v.xxxx* is Media SDK internal versioning information
- *yy.d.m* 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 libmfxsw32.so | grep NEEDED
NEEDED          libc.so
NEEDED          libdl.so
NEEDED          libgabi++-mfx.so
NEEDED          libm.so
NEEDED          libstdc++.so
NEEDED          libstlport-mfx.so
$ objdump -x libmfxhw32.so | grep NEEDED
NEEDED          libc.so
NEEDED          libdl.so
NEEDED          libgabi++-mfx.so
NEEDED          libm.so
NEEDED          libstdc++.so
NEEDED          libstlport-mfx.so
NEEDED          libva.so
$ objdump -x libmfx_omx_core.so | grep NEEDED
NEEDED          libc.so
NEEDED          libdl.so
NEEDED          libgabi++-mfx.so
NEEDED          liblog.so
NEEDED          libm.so
NEEDED          libstdc++.so
NEEDED          libstlport-mfx.so
$ objdump -x libmfx_omx_components_sw.so | grep NEEDED
NEEDED          libc.so
NEEDED          libdl.so
NEEDED          libgabi++-mfx.so
NEEDED          libhardware.so
NEEDED          liblog.so
NEEDED          libm.so
NEEDED          libmfxsw32.so
NEEDED          libstdc++.so
NEEDED          libstlport-mfx.so
NEEDED          libui.so
NEEDED          libva.so
NEEDED          libva-android.so
$ objdump -x libmfx_omx_components_hw.so | grep NEEDED
NEEDED          libc.so
NEEDED          libdl.so
NEEDED          libgabi++-mfx.so
NEEDED          libhardware.so
NEEDED          liblog.so
NEEDED          libm.so
NEEDED          libmfxhw32.so
NEEDED          libstdc++.so
NEEDED          libstlport-mfx.so
NEEDED          libui.so
NEEDED          libva.so
NEEDED          libva-android.so
```

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Page 14 of 67

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

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Page 36 of 67

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Oct 13, 1998 by Wes Peters <wes@softweyr.com>

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Page 46 of 67

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Page 52 of 67

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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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