

Intel® Media Software Development Kit for Android*

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:

./doc/mediasdk_release_notes.pdf	Intel® Media SDK Release Notes (this file)
./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_hw.so	Intel® Media SDK OpenMAX* IL Components (plug-ins)
./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_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 1.27 and contains the following components:

Component	Supported features	Limitations
HW H.264 decoder	Supported Profiles: <ul style="list-style-type: none"> Baseline Main High Supported features: <ul style="list-style-type: none"> Adaptive playback 	Maximum supported resolution is 3840x2160
HW H.264 secure decoder	Supported Profiles: <ul style="list-style-type: none"> Baseline Main High Supported features: <ul style="list-style-type: none"> Adaptive playback Secure playback 	Maximum supported resolution is 3840x2160
HW VP8 decoder	Supported features: <ul style="list-style-type: none"> Adaptive playback 	Maximum supported resolution is 3840x2160
HW H.265 decoder	Supported Profiles: <ul style="list-style-type: none"> Main Supported features: <ul style="list-style-type: none"> Adaptive playback 	Maximum supported resolution is 3840x2160
HW VC1 decoder	Supported Profiles: <ul style="list-style-type: none"> Simple Main Advanced (up to L3) Supported features: <ul style="list-style-type: none"> Adaptive playback 	Maximum supported resolution is 1920x1080
HW MPEG2 decoder	Supported Profiles: <ul style="list-style-type: none"> Main (ML, HL) Supported features: <ul style="list-style-type: none"> Adaptive playback 	Maximum supported resolution is 1920x1080
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 3840x2160
HW H.265 encoder		

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* 9 (Pie)

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.vc1      : libmfx_omx_components_hw.so
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.hw_vd.vp8      : libmfx_omx_components_hw.so
OMX.Intel.hw_vd.vp9      : libmfx_omx_components_hw.so
OMX.Intel.hw_vd.m2       : libmfx_omx_components_hw.so
OMX.Intel.hw_vd.h265     : libmfx_omx_components_hw.so
OMX.Intel.hw_ve.h265     : 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.vc1" type="video/x-ms-wmv" >
      <!-- profiles and levels: ProfileBaseline : Level51 -->
      <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" type="video/avc" >
      <!-- profiles and levels: ProfileBaseline : Level51 -->
      <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">
      <!-- profiles and levels: ProfileBaseline : Level51 -->
      <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.hw_vd.vp8" type="video/x-vnd.on2.vp8" >
      <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.vp9" type="video/x-vnd.on2.vp9" >
      <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.h265" type="video/hevc" >
      <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.mp2" type="video/mpeg2" >
      <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>
  </Decoders>

  <Encoders>
    <MediaCodec name="OMX.Intel.hw_ve.h264" type="video/avc" >
      <Limit name="size" min="176x144" 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" />
    </MediaCodec>

    <MediaCodec name="OMX.Intel.hw_ve.h265" type="video/hevc" >
      <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" />
    </MediaCodec>
  </Encoders>
  <Include href="media_codecs_google_video.xml" />
  <Include href="media_codecs_google_audio.xml" />
  <Settings>
    <Setting name="max-video-encoder-input-buffers" value="9" />
  </Settings>
</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_name: Intel(r) Media SDK OpenMAX Hardware Integration Layer Components
mediasdk_omx_copyright: Copyright(c) 2011-2018 Intel Corporation
mediasdk_omx_file_version: V.yy.d.m
mediasdk_omx_product_version: V.v.xxxx
```

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 libmfxhw32.so | grep NEEDED
NEEDED          libc.so
NEEDED          libdl.so
NEEDED          libm.so
NEEDED          libc++.so
NEEDED          libva.so
$ objdump -x libmfx_omx_core.so | grep NEEDED
NEEDED          libc.so
NEEDED          libdl.so
NEEDED          liblog.so
NEEDED          libm.so
NEEDED          libc++.so
$ objdump -x libmfx_omx_components_hw.so | grep NEEDED
NEEDED          libc.so
NEEDED          libcutils.so
NEEDED          libdl.so
NEEDED          libhardware.so
NEEDED          liblog.so
NEEDED          libm.so
NEEDED          libmfxhw32.so
NEEDED          libc++.so
NEEDED          libui.so
NEEDED          libva.so
NEEDED          libva-android.so
```

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strtok_r, from Berkeley strtok

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

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Origin: <http://code.google.com/p/y2038>

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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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