

Intel® Media Server Studio 2016 – Essentials Edition for Linux* Release Notes

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Overview

The **Intel® Media Server Studio – Essentials Edition for Linux*** provides software development tools and libraries needed to develop enterprise grade media solutions on Intel® Server Products. The studio is designed for optimizing datacenter and embedded media applications for Linux server operating systems to utilize Intel® Iris™ and Intel® HD Graphics hardware acceleration capabilities. The suite includes:

- *Intel® Media Server Studio 2016 – Graphics driver*
- *Intel® Media Server Studio 2016 – SDK* (hereinafter referred to as "SDK") is designed for optimizing datacenter and embedded media applications for Linux server operating systems to utilize Intel® Iris™ and Intel® HD Graphics hardware acceleration capabilities.
- *Intel® Media Server Studio 2016 – Samples* show how to use different SDK features.
- *Intel® Media Server Studio 2016 – OpenCL™ Code Builder* assists with creating, building, debugging, and analyzing OpenCL applications.
- *Intel® Media Server Studio 2016 – Metrics Monitor* provides access to a set of GPU metrics.

What's New

The Intel® Media Server Studio 2016 – Essentials Edition for Linux* includes the following components:

- Intel® Media Server Studio 2016 – Graphics driver, version 16.4.4.47109
- Intel® Media Server Studio 2016 – SDK, version 6.0.16043361.361
- Intel® Media Server Studio 2016 – OpenCL™ Code Builder 2015 R6

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- Intel® Media Server Studio 2016 – Metrics Monitor, version 1.1.0
- Intel® Media Server Studio 2016 – Samples, version 6.0.16043361.361; a subset of samples binaries is available as part of this package. The latest version of samples package (with all samples binaries and corresponding source code) could be downloaded from [Intel\(R\) Media Server Studio Support](#).

For information on what is new in each component, please read the individual component release notes:

- the Intel® Media Server Studio 2016 – SDK Release Notes
`<studio-extract-dir>/<sdk-extract-dir>/media_server_studio_sdk_release_notes.pdf`
- the Intel® Media Server Studio 2016 – OpenCL™ Code Builder Release Notes
<https://software.intel.com/en-us/articles/mss-code-builder-release-notes>
- the Intel® Media Server Studio 2016 – Metrics Monitor Manual
`<studio-extract-dir>/<sdk-extract-dir>/metrics_monitor/doc/metricsmon-man.pdf`

System Requirements

Hardware

The following processor models are supported:

- Intel® Xeon® Processor E3-128x v4
- 5th Generation Intel® Core™ Processors with Intel Iris™ Pro Graphics, Intel Iris™ Graphics or Intel HD Graphics (5500, 6000, 6100, 6200).
- Intel® Xeon® Processor E3-128x v3
- 4th Generation Intel Core™ Processors with Intel Iris™ Pro Graphics, Intel Iris Graphics or Intel HD Graphics 4200+ Series (chipset compatibility is usually not an issue for Core™ processors.)

Chipset limitations:

- Chipset must have processor graphics enabled; make sure to check the datasheet.
- Among Intel Server Chipsets only C226 is supported.
- For platforms/motherboards based on Intel Server Chipsets, having a C226 chipset is necessary but **not** sufficient. Make sure to consult with specific platform/board vendor regarding processor graphics being supported. Check our product website for the approved/recommended platforms list at <https://software.intel.com/en-us/intel-media-server-studio/details#professional>

Note:

- Intel Core processors earlier than 4th Generation are not supported
- Intel® Celeron®, Intel® Pentium® and Intel® Atom™ processors are not supported

Note: Individual components could have specific requirements, please read the corresponding release notes.

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Software

Please see the individual component release notes to know about supported operating systems and required software list.

Package Contents

Intel® Media Server Studio 2016 – Essentials Edition for Linux* package includes the following components:

Component	Description
<code>SDK2016Production16.4.4.tar.gz</code>	Intel® Media Server Studio 2016 – Driver & SDK & Metrics Monitor package.
<code>intel_code_builder_for_opencl_mss_<ocl-version>.tar.gz</code>	Intel® Media Server Studio 2016 – OpenCL™ Code Builder package.
<code>MediaSamples_Linux_bins_<id>.tar.gz</code>	Intel® Media Server Studio 2016 – Samples package includes the following binaries: <ul style="list-style-type: none">• Decoding Sample• Encoding Sample• Multi Transcoding Sample• VPP Sample, test streams and README file with a link to full Samples package download.
<code>media_server_studio_essentials_release_notes.pdf</code> <code>Intel(R) Media Server Studio EULA.pdf</code> <code>redist.txt</code> <code>site_license_materials.txt</code> <code>third_party_programs.txt</code>	Intel® Media Server Studio 2016 – Essentials Edition for Linux documentation: this file, EULA, EULA's accompanying files.

Installation

Installation of Intel® Media Server Studio 2016 – Essentials Edition for Linux* requires full administrative rights.

Extract files from the `MediaServerStudioEssentials2016.tar.gz` file to the target hard drive.

Intel® Media Server Studio 2016 – Driver & SDK installation procedure is described in the corresponding Getting Started Guide

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<studio-extract-dir>/<sdk-extract-dir>/media_server_studio_getting_started_guide.pdf. Please refer to the document for details.

Intel® Media Server Studio 2016 – Metrics Monitor will be installed together with Intel® Media Server Studio 2016 – Driver & SDK.

To install Intel® Media Server Studio 2016 – Samples you need to extract corresponding tar.gz file to the target hard drive.

To install OpenCL™ Code Builder you need to extract corresponding tar.gz file and run install.sh. Installer will guide installation process, please follow it.

If you installed Intel® Media Server Studio 2016 – Driver & SDK using package for Generic OS you could see the following “Missing Critical Prerequisite(s)” issued by OpenCL Code Builder installer:

```
The following libraries required for installation are missing:  
- libOpenCL.so.1() (64bit)  
- libOpenCL.so.1(OPENCL_1.0) (64bit)  
- libOpenCL.so.1(OPENCL_1.2) (64bit)  
To install libOpenCL* libraries, please install OpenCL™ runtime for Intel®  
CPU device package.
```

First please make sure all required libraries are available on your system:

```
$ find / -name libOpenCL.so.1*  
/opt/intel/ocl/libOpenCL.so.1  
/opt/intel/ocl/libOpenCL.so.1.2
```

And then run the following command in <OCL-Code-Builder-extract-dir> folder:

```
$ rpm -ivh --nodeps rpm/*.rpm
```

Installation Folders

Intel® Media Server Studio 2016 – Essentials Edition for Linux* components will be installed in the following locations by default:

Component	Description
/opt/intel/mediasdk	Default location of Intel® Media Server Studio 2016 – SDK.
/opt/intel/ocl-1.2-sdk- <ocl-version>	Default location of Intel® Media Server Studio 2016 – OpenCL™ Code Builder.
/opt/intel/mediasdk/tools/ metrics_monitor	Default location of Intel® Media Server Studio 2016 – Metrics Monitor.

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Intel® Media Server Studio 2016 – Driver has multiple installation layouts. Please refer to the corresponding Intel® Media Server Studio 2016 – Driver & SDK Release Notes for details.

Limitations

For information on known limitations in each component, please read the individual component release notes.

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