

# Intel® Media Server Studio 2017 R3 – 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 2017 – Graphics driver*
- *Intel® Media Server Studio 2017 – 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 2017 – Flexible Encode Infrastructure* is an extension of Intel® Media SDK that gives more control over encoding process compared to the standard Media SDK API with the following caveats:
  - Only AVC encode supported
  - Intel does not provide technical support for the FEI through forum or Intel Premier Support
  - Building an application with FEI may take significantly more effort compared to the standard Media SDK API
  - FEI validation is limited. Some combinations of encoding parameters may lead to unstable application behavior, crashes and hangs.
  - FEI API is not backward compatible
  - FEI is subject to the same EULA terms as Intel® Media Server Studio. Some FEI components are distributed as "pre-release materials" which restricts their usage according to EULA.
- *Intel® Media Server Studio 2017 – Samples*  
show how to use different SDK features.
- *Intel® Media Server Studio 2017 – SDK for OpenCL™ Applications*

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assists with creating, building, debugging, and analyzing OpenCL applications.

- *Intel® Media Server Studio 2017 – Metrics Monitor* provides access to a set of GPU metrics.

## What's New

The Intel® Media Server Studio 2017 R3 – Essentials Edition for Linux\* includes the following components:

- Intel® Media Server Studio 2017 R3 – Graphics driver, version 16.5.2.64009
- Intel® Media Server Studio 2017 R3 – SDK, version 7.0.16053710
- Intel® Media Server Studio 2017 R3 – Flexible Encode Infrastructure, version 7.0.16053710; contains PRE-RELEASE Materials
- Intel® Media Server Studio 2017 R3 – SDK for OpenCL™ Applications 2016 R3 6.3.0.1904
- Intel® Media Server Studio 2017 R3 – Metrics Monitor, version 1.1.1
- Intel® Media Server Studio 2017 R3 – Samples, version 8.0.24.698. 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 2017 R3 – SDK Release Notes  
<studio-extract-dir>/<sdk-extract-dir>/  
media\_server\_studio\_sdk\_release\_notes.pdf
- the Intel® Media Server Studio 2017 R3 – Flexible Encode Infrastructure Release Notes  
<studio-extract-dir>/<sdk-extract-dir>/  
media\_server\_studio\_fei\_release\_notes.pdf
- the Intel® Media Server Studio 2017 R3 – SDK for OpenCL™ Applications Release Notes  
<https://software.intel.com/en-us/articles/openccl-code-builder-release-notes>
- the Intel® Media Server Studio 2017 R3 – Metrics Monitor Manual  
<studio-extract-dir>/<sdk-extract-dir>/metricsmon-man.pdf

## System Requirements

### Hardware

Intel® Media Server Studio supports the following platforms with the integrated graphics:

- Intel® Xeon® E3-1200 v4 Family with C226 chipset
- Intel® Xeon® E3-1200 and E3-1500 v5 Family with C236 chipset
- 5th Generation Intel® Core™

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- 6th Generation Intel® Core™

Additionally, for Intel® Xeon® E5 v4 and v5 processors, support of software-only (CPU) HEVC decode and encode, select video pre-processing (Color Space Conversion, Scaling), and virtualization (KVM\*, Xen\*) is available.

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

## Software

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

## Package Contents

Intel® Media Server Studio 2017 R3 – Essentials Edition for Linux\* package includes the following components:

Component	Description
<code>SDK2017Production16.5.2.tar.gz</code>	Intel® Media Server Studio – Driver & SDK & Flexible Encode Infrastructure & Metrics Monitor package.
<code>intel_sdk_for_opencl_&lt;ocl-version&gt;.tgz</code>	Intel® Media Server Studio – SDK for OpenCL™ Applications package.
<code>MediaSamples_Linux_&lt;id&gt;.tar.gz</code>	Intel® Media Server Studio – Samples package.
<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 – Essentials Edition for Linux documentation: this file, EULA, EULA's accompanying files.

## Installation

Installation of Intel® Media Server Studio 2017 R3 – Essentials Edition for Linux\* requires full administrative rights.

Extract files from the `MediaServerStudioEssentials2017R3.tar.gz` file to the target hard drive.

Intel® Media Server Studio 2017 R3 – 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 2017 R3 – Flexible Encode Infrastructure will be installed together with Intel® Media Server Studio 2017 R3 – Driver & SDK.

Intel® Media Server Studio 2017 R3 – Metrics Monitor will be installed together with Intel® Media Server Studio 2017 R3 – Driver & SDK.

To install Intel® Media Server Studio 2017 R3 – Samples you need to extract corresponding tar.gz file to the target hard drive.

FEI Encoding Sample will be installed as part of Intel® Media Server Studio 2017 R3 – Samples.

To install Intel® Media Server Studio 2017 R3 – SDK for OpenCL™ Applications you need to extract corresponding tar.gz file and run install.sh. Installer will guide installation process, please follow it.

## Installation Folders

Intel® Media Server Studio 2017 R3 – 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 – SDK.
/opt/intel/opencl-1.2-sdk-<ocl-version>	Default location of Intel® Media Server Studio – SDK for OpenCL™ Applications.
/opt/intel/mediasdk/tools/metrics_monitor	Default location of Intel® Media Server Studio – Metrics Monitor.

Intel® Media Server Studio 2017 R3 – Driver has multiple installation layouts. Please refer to the corresponding Intel® Media Server Studio 2017 R3 – Driver & SDK Release Notes for details.

## Known Limitations

### Media Server Studio 2017 R3 – Essentials Edition compatibility with Media Server Studio 2017 – Professional Edition:

- Media Server Studio 2017 R3 – Essentials Edition is fully compatible with Media Server Studio 2017 – HEVC Decoder and Encoder plugins (that provides interface to SW decoder/encoder and GPU accelerated encoder) from Media Server Studio 2017 –

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Professional Edition (hereinafter referred to as "HEVC SW"). The only limitation is that after Media Server Studio 2017 R3 – Essentials Edition installed customers have to re-install HEVC SW plugins from Media Server Studio 2017 – Professional Edition. To install **Intel® Media Server Studio 2017 – HEVC Decoder & Encoder** you need to extract HEVC2017.tar.gz file from MediaServerStudioProfessional2017.tar.gz and run install.sh. Installer will guide installation process, please follow it. HEVC SW installer creates backup copy plugins.cfg.bak for <sdk-install-dir>/plugins/plugins.cfg (if any); after HEVC SW installed you need to copy backup content to a new <sdk-install-dir>/plugins/plugins.cfg.

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

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