

# Intel® Media Server Studio 2016 – Professional Edition for Windows\* Server Release Notes

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## Overview

The **Intel® Media Server Studio – Professional Edition for Windows\* Server** provides software development tools and libraries needed to develop enterprise grade media solutions on Intel® Server Products. 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 – OpenCL™ Code Builder* assists with creating, building, debugging, and analyzing OpenCL applications.
- *Intel® Media Server Studio 2016 – Audio Decoder and Encoder* (hereinafter referred to as "Audio") is a dedicated library for audio codec software processing.
- *Intel® Media Server Studio 2016 – HEVC Decoder and Encoder* (hereinafter referred to as "HEVC") is of set of software development libraries (plug-ins) and tools that that expose the HEVC (ISO\*/IEC\* 23008-2 MPEG-H Part 2 or ITU-T\* H.265 standard) decode and encode acceleration capabilities of Intel® platforms.
- *Intel® Media Server Studio 2016 – Premium Telecine Interlace Reverser* (hereinafter referred to as "PTIR") is a development library that exposes the media acceleration capabilities of Intel platforms for video deinterlacing/inverse telecine processing.
- *Intel® Media Server Studio 2016 – Video Quality Caliper* is a graphical utility for objective and visual quality inspection of encoded or uncompressed videos
- *Intel® VTune™ Amplifier XE* is a powerful threading and performance optimization tool for developers who

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need to understand an application's serial and parallel behavior to improve performance and scalability.

- *Intel® Media Server Studio 2016 – Samples* show how to use different SDK features.

## What's New

The Intel® Media Server Studio 2016 – Professional Edition for Windows\* Server includes the following components:

- Intel® Media Server Studio 2016 – Graphics Driver, version 15.36.4371
- Intel® Media Server Studio 2016 – SDK, version 7.0.0000.327
- Intel® Media Server Studio 2016 – OpenCL™ Code Builder 5.3.0.713
- Intel® Media Server Studio 2016 – Audio Decoder and Encoder, version 6.0.0.1
- Intel® Media Server Studio 2016 – HEVC Decoder and Encoder, version 1.0.8
- Intel® Media Server Studio 2016 – Premium Telecine Interlace Reverser, version 1.2.0
- Intel® Media Server Studio 2016 – Video Quality Caliper, version 1.8.1
- Intel® VTune™ Amplifier XE 2016 Update 2
- Intel® Media Server Studio 2016 – Samples are not a 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-install-dir>\Documentation for Professional Edition\  
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 – Audio Decoder and Encoder Release Notes:  
<audio-install-dir>\release\_notes\_audio.pdf
- the Intel® Media Server Studio 2016 – HEVC Decode & Encode Release Notes:  
<hevc-install-dir>\media\_server\_studio\_hevc\_release\_notes.pdf
- the Intel® Media Server Studio 2016 – Premium Telecine Interlace Reverser Release Notes:  
<ptir-install-dir>\media\_server\_studio\_ptir\_release\_notes.pdf

- the Intel® Media Server Studio 2016 – Video Quality Caliper Release Notes:  
<caliper-install-dir>\Video\_Quality\_Caliper\_Release\_Notes.pdf
- the Intel® VTune™ Amplifier XE Release Notes:  
<vtune-install-dir>\documentation\en\release\_notes\_amplifier\_windows.pdf

## System Requirements

### Hardware

The following processor models are supported for hardware acceleration:

- 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.)
- Note: chipset must have processor graphics enabled; make sure to check the datasheet.
  - Only C226 Server Chipset is supported
  - Having a C226 chipset is necessary but **not** sufficient. Make sure to consult with specific platform or board vendor regarding processor graphics being supported. Check Media Server Studio website for the list of “Known OEM/ODM Functional Platforms”: <https://software.intel.com/en-us/intel-media-server-studio/details>

The following Intel platforms are supported for SW (CPU) only processing:

- Intel® Xeon® Processor E5 v3 and v4

The following Intel platforms are not supported:

- Intel Core processors earlier than 4th Generation, Intel Celeron®, Intel Pentium® and Intel Atom™

**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.

## Installation

Installation of Intel® Media Server Studio 2016 – Professional Edition for Windows\* Server requires full administrative rights.

Please run the installer MediaServerStudioProfessional2016.exe.

Installer will guide installation process, please follow it.

To activate **Intel® Media Server Studio 2016 – Video Quality Caliper** after installation you need:

- If you have Intel Media Server Studio license file then put the file in the following default directory:  
Under Microsoft\* Windows\* 32-bit:  
`c:\Program Files\Common Files\Intel\licenses\`  
Under Microsoft\* Windows\* 64-bit:  
`c:\Program Files (x86)\Common Files\Intel\licenses\`
- If there is no Intel Media Server Studio license file available please:
  1. Log in to the [Intel® Registration Center](#) by entering your login ID and password. You will see a list of all your products.
  2. For each product, you will see the product name, component names (if applicable), a link to the latest version available for download, and the posted date of the latest update.
  3. Clicking **Intel® Media Server Studio – Professional Edition** will take you to the subscription history page where you will be able to download the latest version. On the bottom, you will find the serial number, support status, and links to manage the license and renew your subscription.
  4. If you want to download the license file or resend it to your email account, click the Manage link under the Admin column to go to the Manage License page. You will see two icons on the License File header 'Download license file' and 'Resend license file to my email'. If you chose the second option, you will receive an email with the license file as an attachment. [Note: If you have installed a 2016 product you may have more than one license file per product].

If you have any questions on licensing, visit the [Licensing FAQ](#) page.

NOTE: if you select Intel® MSS 2016 – Graphics Driver to be installed then after Intel® MSS 2016 installation is completed you should reboot your system. This is necessary for correct operation of the Graphics Driver.

## Installation Folders

Intel® Media Server Studio 2016 – Professional Edition for Windows\* Server installs under "C:\Program Files\Intel\Intel(R) Media Server Studio 2016\" – this is referenced as <studio-install-dir> in the remainder of this document.

<b>Component</b>	<b>Description</b>
<studio-install-dir>\Documentation for Professional Edition	Intel® Media Server Studio 2016 – Professional Edition for Windows* Server documentation: this file, Intel Media Server Studio – SDK Release Notes, EULA, EULA’s accompanying files.
<studio-install-dir>\Software Development Kit	Intel® Media Server Studio 2016 – SDK.
<studio-install-dir>\Graphics Driver	Intel® Media Server Studio 2016 – Graphics Driver contains redistributable package GraphicsDriverWin64.zip
<studio-install-dir>\OpenCL(TM) Code Builder	Intel® Media Server Studio 2016 – OpenCL™ Code Builder.
<studio-install-dir>\Audio Decoder & Encoder	Intel® Media Server Studio 2016 – Audio Decoder & Encoder.
<studio-install-dir>\HEVC Decoder & Encoder	Intel® Media Server Studio 2016 – HEVC Decoder & Encoder.
<studio-install-dir>\Premium Telecine Interlace Reverser	Intel® Media Server Studio 2016 – Premium Telecine Interlace Reverser.
<studio-install-dir>\Video Quality Caliper	Intel® Media Server Studio 2016 – Video Quality Caliper.
C:\Program Files (x86)\Intel\VTune Amplifier XE 2016	Intel® VTune™ Amplifier XE 2016

## Known Limitations

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

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