

# VPPPlugin Utility Class

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## Overview

**VPPPlugin Utility Class** works with **Intel® Media Server Studio 2016 for Linux Server**.

It demonstrates how to use **Media Server Studio – SDK** (hereinafter referred to as "**SDK**") API to construct a pipeline from several video-processing filters including standard **SDK** VPP and User Defined SDK Plugin module.

## Features

**VPPPlugin utility class** implements a pipeline with up to three of the following filters, first and last filter are optional:

*[MFXVideoVPP] → MFXPlugin → [MFXVideoVPP]*

The entire pipeline is exposed under interface unified as much as possible with the **SDK** interface `MFXVideoVPP`, so the application can dynamically select between standard video processing through `MFXVideoVPP` and multi-filters video processing through **VPPPlugin utility class**, as demonstrated in the sample application located in "`<install-folder>/sample_multi_transcode`."

The middle filter in **VPPPlugin utility class** pipeline is the user-defined plugin and must be compiled as a separate dynamic library. See "`<install-folder>/sample_user_modules`" for examples of this plugin module.

## Software Requirements

See `<install-folder>/Media Samples Guide.pdf`

## How to Use the Utility Class

**VPPPlugin utility class** is demonstrated as a part of **Transcoding Sample** package, see "<install-folder>/sample\_multi\_transcode/readme-multi-transcode.pdf" for details.

**VPPPlugin utility class** is used once the command-line option `-angle 180` or `-opencl` (they enable user plugins in the transcoding pipeline) is passed to **Transcoding Sample**.

## Known Limitations

- None

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