

Concurrent Video Analytic Sample Application (Linux) Release Notes

Release Notes

21 October 2022

Version History/Revision History

These are the main releases of concurrent video analytic sample application:

Date	Revision	Description
December 23, 2019	0.5	Initial release
Aug 27, 2021	21.1.2	Update for 2021.1.2 release
Aug 03, 2022	22.1.0	Update for 2022.1.0 release

Intended Audience

Software developers from OEM / ODM / SI / ISV.

Customer Support

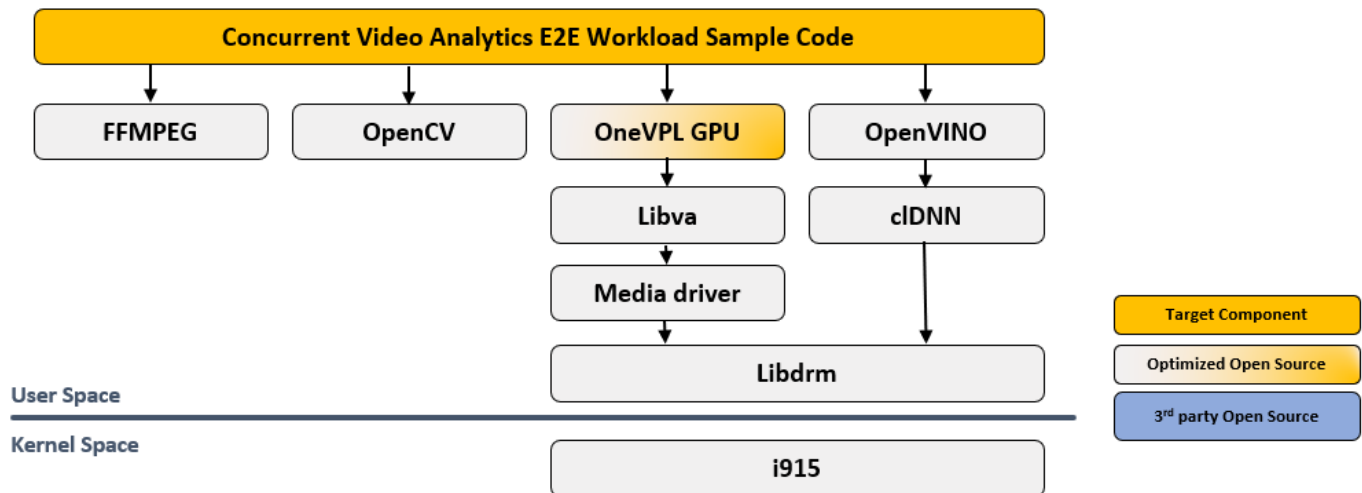
For NDA customers, please contact your corresponding FAE. For technical support, including answers to questions not addressed in this product, report issues on our [github issue page](#).

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1 Introduction

The concurrent video analytic sample application “video_e2e_sample” leverages open source Intel® OneVPL for video codec support, OpenVINO™ for inference support. Both workloads will be accelerated by Intel® integrated Graphics. Meanwhile FFmpeg is used for RTSP streaming in support and OpenCV is for bunding box drawing. Below diagram is the high-level software stack for Linux version.



Please refer to the concurrent video analytic sample application user guide for system requirements, installation instructions, and example command line.

To learn more about this product, see:

- New features listed in the [New in this Release](#) section below
- Reference documentation listed in the [Related Documentation](#) section below

2 New in This Release

New Features

- Support saving inference result to a local file
- Upgrade the Media SDK to OneVPL 22.0.3 and OpenVINO to version 2022.1.

For the example par file of these new features, please refer to the chapter 2 in `concurrent_video_analytic_sample_application_user_guide.pdf`

3 Fixed Issues

- N/A

4 Known Issues

Reference ID	Description	symptom	Impact	Workaround/Resolution	Affected component/module/driver	Affect ed OS
1	OpenVINO inference doesn't work when remote blob is enabled	Return error.	Application returns error when "-infer::remote_blob" is set in par file	Use newer OpenVINO version than 2022.1 or manually build latest OpenVINO runtime libraries from source code.	Inference	Linux

Non-Intel Issues

NULL

5 Related Documentation

[concurrent_video_analytic_sample_application_user_guide.pdf](#)

6 Where to Find the Release

Please use git to download source code from branch svet_onevpl of git project https://github.com/intel-iot-devkit/concurrent-video-analytic-pipeline-optimization-sample-l/tree/svet_onevpl.

Command line to download the source code:

```
$git clone -b svet_onevpl https://github.com/intel-iot-devkit/concurrent-video-analytic-pipeline-optimization-sample-l.git cva_sample
```

How to Install this Release

- Please refer to concurrent_video_analytic_sample_application_user_guide.pdf under directory doc.

7 Release Content

Table 1-1 Revision numbers of components of the Production Candidate release.

Subproject (component)	Location	Revision
video_e2e_sample	video_e2e_sample	2022.1.0

External Dependencies

- OneVPL GPU 2022.0.3
- OneVPL 2022.3.2
- OpenVINO 2022.1
- FFmpeg

8 Best Known Configuration

Please refer to [concurrent_video_analytic_sample_application_user_guide.pdf](#)

9 Hardware and Software Compatibility

Generally, all Intel® 11th and 12th Generation Core™ processors with HD, Iris, Iris Pro Graphics are supported. Below are platforms we have validated.

- Intel® Core™ i5-1135G7
- Intel® Core™ i5-1145G7E
- Intel® Core™ i5-1185G7E
- Intel® Core™ i7-1165G7
- Intel® Core™ i5-12400

Supported Operating Systems

Ubuntu 20.04

10 Acronyms and Terms

The following acronyms and terms are used in this document (arranged in alphabetic order):

Acronym/Term	Description
E2E	End to End
Intel® OpenVINO™	A free toolkit that facilitating of deployment neural network models across Intel® platforms with a built-in model optimizer for pretrained models and an inference engine runtime for hardware-specific acceleration.
OpenCV	Open Source Computer Vision Library
RTSP	Real Time Streaming Protocol

11 Legal Information

Component	License
Concurrent video analytic sample application	MIT 2.0