

Concurrent Video Analytic Sample Application (Linux) Release Notes

Release Notes

27 August 2021

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

Intended Audience

Software developers from OEM / ODM / SI / ISV.

Customer Support

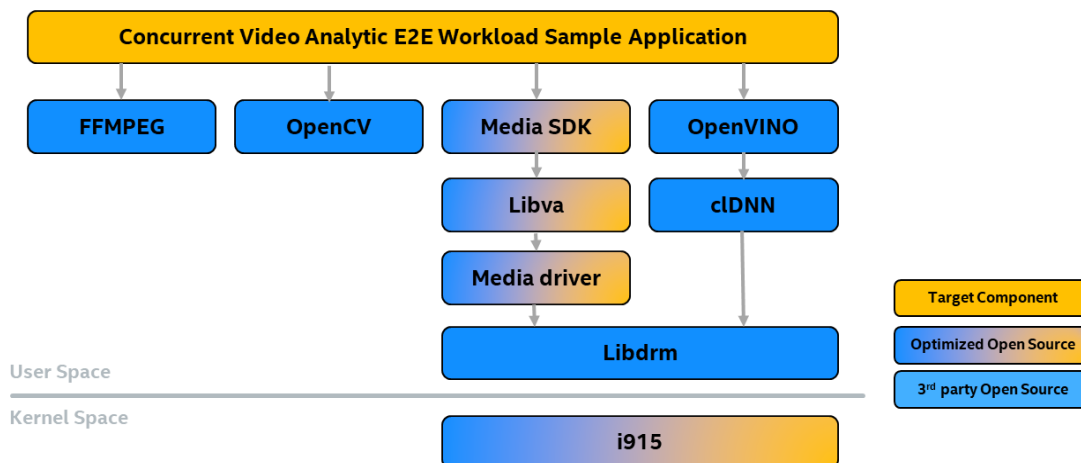
For NDA customers, please contact your corresponding FAE. For technical support, including answers to questions not addressed in this product, report issues on our [github issue page](#).

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1 Introduction

The concurrent video analytic sample application “video_e2e_sample” leverages open source Intel® Media SDK 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 more inference models: yolov3, MOT
- Support MCU mode
- Support building without OpenVINO
- Upgrade the Media SDK to version 2021.1.3 and OpenVINO to version 2021.4.

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

- 64 D1 video decode + display test case is not stable on TGL-U

4 Known Issues

Reference ID	Description	symptom	Impact	Workaround/Resolution	Affected component/module/driver	Affect ed OS
1	64 D1 + 16 1080p two display test failed on 1 st running on TGL-U	Return error.	64 D1 + 16 1080p two display test failed on 1 st running on TGL-U	It can run successfully on second time	Multiple display test on TGL	Linux
2	16 channel videowall with 1080p display failed on TGL i3	GPU hang in dmesg	16 channel videowall failed on TGL i3	Replace “-h 1080” with “-h 1088” in the last line of par file	16 channel videowall on TGL i3	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 git project <https://github.com/intel-iot-devkit/concurrent-video-analytic-pipeline-optimization-sample-1>

How to Install this Release

- Install OpenVINO 21.4 release firstly. Then run build_and_install.sh under the root directory.
- 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	2021.1.2

External Dependencies

- MediaSDK 2021.1.0
- OpenVINO 2021.4
- FFmpeg

8 Best Known Configuration

Please refer to [concurrent_video_analytic_sample_application_user_guide.pdf](#)

9 Hardware and Software Compatibility

Generally, all Intel® Atom™ & Core™ processors with HD, Iris, Iris Pro Graphics from Gen 9 to Gen 12 are supported except Gen 11. You can refer to [Intel Graphics Wiki](#) to see detailed processors list. Below are platforms we have validated.

- Intel® Core™ i7-8700
- Intel® Core™ i7-8665U
- Intel® Core™ i7-8559U
- Intel® Core™ i7-6770HQ
- Intel® Core™ i5-1135G7
- Intel® Core™ i5-1145G7E
- Intel® Core™ i5-1185G7E
- Intel® Core™ i5-1145GRE

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