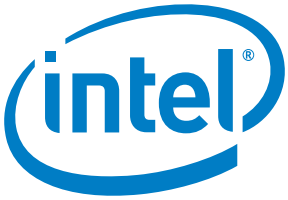


Concurrent Video Analytic Sample Application (Windows) Release Notes 2021.1.0

Release Notes

26 May 2021

Version History/Revision History

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

Date	Revision	Description
May 25, 2020	0.5	Initial release
Sep 07, 2020	0.6	Updated
May 17, 2021	0.7	Updated OpenVINO to 2021.3 and Media SDK 2020 R1

Intended Audience

OEM/ODM software developers are our target audience.

Customer Support

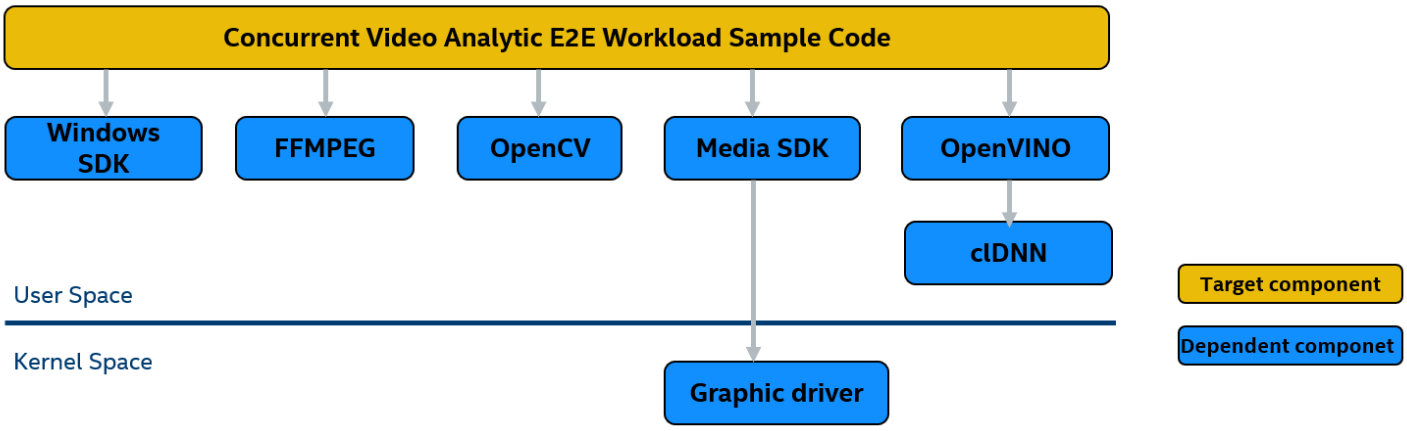
For NDA customers, please contact your corresponding FAE. For technical support, including answers to questions not addressed in this product, report issues on our github issue page.

Contents:

1 Introduction 4
2 New in This Release 5
3 Fixed Issues 6
4 Known Issues 7
5 Related Documentation 8
6 Where to Find the Release 9
7 Release Content 10
8 Best Known Configuration 11
9 Hardware and Software Compatibility 12
10 Acronyms and Terms 13
11 Legal Information 14

1 Introduction

The concurrent video analytic sample application “video_e2e_sample” leverages Windows Intel® Media SDK release 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 Windows 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

2021.1 New Features

- Support OpenVINO 2021.3
- Support Media SDK 2020 R1
- Support FFmpeg 4.4

2020.2 New Features

- Specify different inference types in one or more decoding sessions in par file.
- Turn on offline inference by specify “-infer::offline”.
- Support using RTSP stream as source.
- Support saving RTSP stream to local file.
- Support multiple display with multiple par files
- Support -infer::interval and max_detect.
- Support fake sink.

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

2021.1 fixed issue

- Fixed video wall case displays dead lock issue.
- Fixed format_reader.lib configuration link with static username issue.

2020.2 fixed issue

- Fixed inaccurate FPS control issue.
- Fixed -vpp_comp option will hang issue.

4 Known Issues

Reference ID	Description	symptom	Impact	Workaround/Resolution	Affected component/module/ driver	Affected OS
1	RTSP stream drop at the beginning of playing 16-channel RTSP stream and running inference on the first time	The display has corruptions at the beginning when using RTSP stream as source, and then recoveries in several seconds	The display has corruptions at the beginning when using RTSP stream as source, and then recoveries in several seconds	Enable cl_cache to reduce the loading time of models. See chapter 2.3 of Concurrent_video_analytic_sample_application_user_guide.pdf	Decoding with 16-channel RTSP streams	All

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-w

How to Install this Release

- Run compile.bat under the script/ 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	2021.1.0

External Dependencies

- MediaSDK 2020 R1
- OpenVINO 2021.3
- FFMPEG 4.4

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™ i5-6600
- Intel® Core™ i7-8700
- Intel® Core™ i7-8665U
- Intel® Core™ i7-8559U
- Intel® Core™ i7-6770HQ

Supported Operating Systems

Windows 10 Enterprise 2019

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