SVET Sample Application Release Notes 2020.1.0 Internal

Release Notes

6 March 2020

Version History/Revision History

These are the main releases of Real-Time Performance Tuning Suite:

Date	Revision	Description
December 23, 2019	0.1	Initial release
March 5, 2020	1.0	Add new features descriptions

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, visit the technical support forum, FAQs, and other support information at: https://platformsw.intel.com/home.aspx, https://premiersupport.intel.com/IPS/home/home.jsp or http://www.intel.com/software/products/support/.

NOTE: If your distributor provides technical support for this product, please contact them for support rather than Intel.

To provide feedback and suggestions, go to the Graphics community page https://communities.intel.com/community/tech/graphics

To submit an issue, go to Intel® Premier Support: (https://employeeportal.intel.com/irj/portal/IntelPremierSupportUser)

For more information on registering to Intel Premier Support, go to: http://software.intel.com/en-us/articles/performance-tools-for-software-developers-intel-premier-support
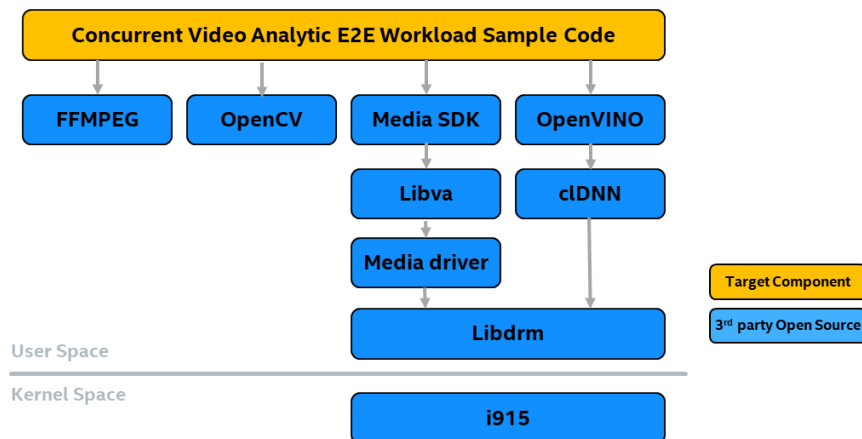
Contents:

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1   Introduction

The SVET sample application "video_e2e_sample" will leverage Media SDK for video codec support, OpenVINO for inference support. Both will be accelerated by Intel integrated GPU. 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.

```
┌────────────────────────────────────────────────────┐
│   Concurrent Video Analytic E2E Workload Sample Code │
└────────────────────────────────────────────────────┘
    │          │             │              │
┌─────────┐ ┌─────────┐ ┌────────────┐ ┌────────────┐
│ FFMPEG  │ │ OpenCV  │ │ Media SDK  │ │ OpenVINO   │
└─────────┘ └─────────┘ └────────────┘ └────────────┘
                            │              │
                        ┌───────┐      ┌────────┐
                        │ Libva │      │ clDNN  │
                        └───────┘      └────────┘
                            │              │
                    ┌──────────────┐  ┌──────────────────────┐
                    │ Media driver │  │  Target Component    │
                    └──────────────┘  ├──────────────────────┤
                            │         │ 3rd party Open Source│
                    ┌──────────────┐  └──────────────────────┘
                    │   Libdrm     │
User Space          └──────────────┘
─────────────────────────────────────
Kernel Space
                    ┌──────────────┐
                    │     i915     │
                    └──────────────┘
```

Please refer to the SVET 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, or in the help.
- Reference documentation listed in the Related Documentation section below

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2　New in This Release

New Features

- Specify different inference types in one or more 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 RTSP stream saving only mode in a separated par file

- Support multiple display with multiple par files

For the example par file of these new features, please refer to the chapter 2 in svet_sample_application_user_guide_2020.1.0.pdf

3   Known Issues

Reference ID	Description	symptom	Impact	Workaround/Resolution	Affected component/module/driver	Affected OS
1	RTSP stream drop on the beginning of playing RTSP stream	The display has corruptions on the beginning when using RTSP stream as source, and then recoveries in several seconds	The display has corruptions on the beginning when using RTSP stream as source, and then recoveries in several seconds	N/A	Decoding with RTSP streams	All

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4   Related Documentation

svet_sample_application_user_guide_2020.1.0.docx

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5 Where to Find the Release

TBD

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6 Release Content

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

Subproject (component)	Location	Revision
svet_e2e_sample_l		2020.1.0

External Dependencies

- MediaSDK, libva, media-driver

- OpenVINO 2019 R3

- FFMPEG

7   Hardware and Software Compatibility

- Intel® Core™ i7-8700
- Intel® Core™i7-8559U

Supported Operating Systems

Ubuntu 18.04

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8 Acronyms and Terms

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

Acronym/Term	Description
DVR	Digital Video Recorder
NVR	Network Video Recorder
IPC	IP camera
RAID	Redundant Arrays of Independent Disks
RTSP	Real Time Streaming Protocol
BPS	Bit Per Second
FPS	Frame Per Second
DSS	Digital Surveillance System
VA	Video Analysis
ROI	Region of Interest
CSC	Color Space Conversion
PAR	Configuration file name for sample code

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9 Legal Information

Component	License
SVET sample application	MIT 2.0

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