

OTT Content Creation SDK for GStreamer

Simple integration to manage complex workflows

MainConcept® OTT Content Creation SDK for GStreamer enables rapid application development and delivery of live and on-demand video content to any device. With it, you get a complete encoding and transcoding pipeline, including MainConcept's state-of-the-art HEVC/H.265 and AVC/H.264 video encoders, developed for seamless integration within the GStreamer API.

To meet video compression requirements, the unique all-in-one libraries integrate AVC/HEVC Intel Quick Sync Video and NVENC HEVC hardware encoding, as well as Hybrid HEVC GPU Accelerated Encoding on NVIDIA RTX graphics engines.

All industry-leading MainConcept libraries necessary for the creation of GStreamer pipelines generating CMAF-DASH, MPEG-DASH and Apple HLS content are included, as are multi-audio track and subtitle support. Developers familiar with the GStreamer API in their workflow or services can easily integrate the MainConcept GStreamer libraries to quickly realize amazing results.

LICENSABLE PRODUCTS

OTT CONTENT CREATION SDK	Includes the MainConcept AVC/H.264 and HEVC/H.265 video encoders and related libraries for GStreamer for generating CMAF-DASH, MPEG-DASH and Apple HLS content, including packaging to create a complete adaptive streaming set.
HYBRID GPU ACCELERATED HEVC ENCODING	Add-on enabling GPU Accelerated HEVC Encoding on NVIDIA RTX boards
AVC/H.264 ENCODING FOR INTEL QUICK SYNC VIDEO	Add-on enabling accelerated video encoding with reduced CPU usage

OPERATING SYSTEM

- Microsoft® Windows® 10 (64-bit)
- Linux CentOS 7.4 (glibc 2.17) or newer (64-bit)
- GStreamer 1.10 or newer



KEY FEATURES

- Access MainConcept OTT Content Creation SDK using GStreamer API
- Quick and easy setup of complex workflows
- Live and On-Demand content delivery
- DASH-264 and DASH-265 compliant encoding, including packaging and MPD file creation
- CMAF-DASH, MPEG-DASH and Apple HLS compliant encoding and packaging
- Multi-language track support
- WebVTT & TTML subtitles support
- Uses complete encoder configuration files to easily set codec parameters
- Intel Quick Sync Video hardware encoding for AVC/H.264
- Intel Quick Sync Video and NVIDIA NVENC hardware encoding for HEVC/H.265
- Hybrid GPU accelerated encoding for HEVC/H.265



OPTIMIZE WITH MAINCONCEPT PROFESSIONAL SERVICES

OTT CONTENT CREATION SDK COMPARISON

	OTT Content Creation SDK	OTT Content Creation SDK for GStreamer
API	MainConcept Low Level API	GStreamer API
MP4 MULTIPLEXER	✓	✓
MPEG-2 MULTIPLEXER	✓	✓
MPD GENERATOR	✓	✓
HLS GENERATOR	✓	✓
FILE SINK	n/a	✓
AUDIO ENCODERS	Optional License	✓
AVC/H.264 VIDEO ENCODER	Optional License	✓
• IQSV HARDWARE ENCODING	Optional Add-on	Optional Add-on
HEVC/H.265 VIDEO ENCODER	Optional License	✓
• IQSV HARDWARE ENCODING	Optional Add-on	✓
• NVENC HARDWARE ENCODING	Optional Add-on	✓
• HYBRID GPU ACCELERATED ENCODING	Optional Add-on	Optional Add-on
READY-TO-USE CMAF/DASH/HLS PRESET FILES	No	✓
COMMAND-LINE CONTROL	No	✓ (via GStreamer tools)

ABOUT GSTREAMER

GStreamer is a flexible and fast multi-platform framework to create complex multimedia workflows. It is designed for developing applications, services and systems intended for encoding, decoding and streaming environments. GStreamer natively supports numerous media-handling components. Since it is plugin based and has a modular approach for creating pipelines, it can be easily extended to support 3rd party codecs like those available with MainConcept OTT Content Creation SDK for GStreamer. The cross-platform availability of GStreamer makes it desirable for developers whether they work on desktop or mobile platforms.

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MORE INFORMATION
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