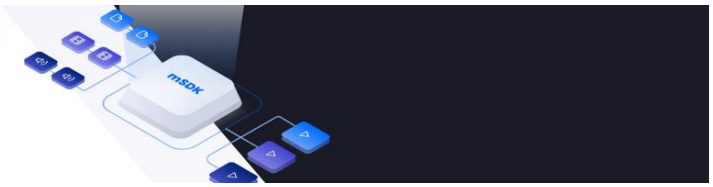
mSDK



Overview

MOG offers a cloud-first, unified media library, that supports MXF, GXF, and IMF formats designed to cut on development time and reduce your time-to-market, with simple programming interfaces.

mSDK is built with a comprehensive, multi-platform SDK, and designed to target the most common use cases. Simplify your media processes with a 4K/HD enabled toolkit, with full support for AVC Ultra, DNxHR, and XAVC.

mSDK lite

A unified media SDK that targets the most popular use cases for GXF, MXF, and IMF, with full 4K/HD support for AVC Ultra, DNxHR, and XAVC.

mSDK lite is available for both server and cloud deploy, and each component offers a very simple API, restricted to a single functionality.

- Simple interface
- Reduce your time-to-market
- Minimize file inconsistencies
- 4K / HD support for AVC Ultra, DNxHR, and XAVC formats
- Multiple operating systems support such as Windows, Linux, MAC, and A64
- Cloud deployment in AWS, Azure, and Google
- Reduced cost per additional license

Software version: *1.0*

mSDK PRO

A unified software development kit for GXF, MXF, and IMF, with full 4K/HD support for AVC Ultra, DNxHR, and XAVC.

mSDK PRO is available for both server and cloud deploy, as a C++ implementation, designed for users that wish to perform extensive development, and need to have fine control on data access and manipulation.

- Smooth programming interfaces
- Simple data model
- 4K / HD support for AVC Ultra, DNxHR, and XAVC formats
- Multiple operating systems support such as Windows, Linux, MAC, and A64
- Cloud deployment in AWS, Azure, and Google

Software version: *1.0*

Technical Specifications

Supported Essence and Profiles

CODEC - Standard	Profiles
DV - SMPTE ST 383	PAL DV25/50, PAL DVCAM, NTSC DV25/50, NTSC DVCAM
DVCPRO HD - SMPTE 390M	720/1080
D10/IMX - SMPTE 381	IMX 30/40/50
Sony XDCAM HD - SMPTE RDD 9	MPEG HD420 17.5/25/35, MPEG HD422 50
XAVC - SMPTE RDD 32	XAVC Intra HD CBG 50/100/200 XAVC Intra 4K CBG 100/300/480 XAVC Intra 4K VBR 100/300/480 XAVC Long GOP HD 25/35/50 XAVC Long GOP 4K 188/300
Panasonic AVC-Intra - SMPTE RP 2027	AVC-Intra 50/100
Panasonic AVC Ultra - SMPTE RDD 26	AVC-Ultra LongGOP G6/12/25/50 AVC-Ultra Intra 50/100/200/444
AVC Proxy - SMPTE RDD 25	AVC Constrained Baseline
DNxHD (VC-3) - SMPTE ST 2019	DNxHD 35-220
DNxHR - SMPTE RP 2027	444, HQX, HQ, SQ, LB
JPEG2000 - SMPTE ST 422	2K, 4K FULL_FRAME, SEPPARATE_FIELDS, SINGLE_FIELD, MIXED_FIELDS, SEGMENTED_FRAME
MPEG4	Sony XDCAM Proxy
Uncompressed - SMPTE 384M	4:2:2 (YCbCr) sampling
AIFF	AIFF Uncompressed Coding
WAVE/BWF	
AES3 - SMPTE ST 382	
AAC - SMPTE ST 381-4	
Binary - SMPTE ST 381	MPEG Streams Other than Video or Audio
VBI Lines and Ancillary Data Packets - SMPTE ST 436	
Blind	
MPEG TS / MPEG PS	MPEG Transport Stream / MPEG Program Stream
AVI	Audio Video Interleave
ProRes - SMPTE RDD 44	422 Proxy, 422 LT, 422, 422 HQ, 4444, 4444 (with alpha channel), 4444 XQ, 4444 XQ (with alpha channel)
ACES - SMPTE ST2065	Uncompressed Monoscopic without Alpha Uncompressed Monoscopic with Alpha
IMF - SMPTE ST 2067	SMPTE ST 2067-20, 21 and 40: JPEG2000, SMPTE ST 2067-50: ACES, SMPTE TSP 2121: ProRes

Wrapper Output

Wrapper	Standard
SMPTE MXF	SMPTE ST 377
ARD/ZDF	IRT SDF01, SDF02, HDF01a, HDF01b, HDF02a, HDF02b, HDF03a, HDF03b
AS02	AMWA AS-02
AS03	AMWA AS-03
AS-11/DPP	AMWA AS-11
IMF Essence Component	SMPTE ST 2067-5

Operational Patterns

Operational Patterns	Standard
OP1a	SMPTE ST 378
OP1b	SMPTE ST 391
OP1c	SMPTE ST 408
OP2a	SMPTE ST 392
OP2b	SMPTE ST 393
OP2c	SMPTE ST 408
OP3a	SMPTE ST 407
OP3b	SMPTE ST 407
OP3c	SMPTE ST 408
OPAtom	SMPTE ST 390

Metadata Support

Standard	Short Name	Name
SMPTE S380M	DMS-1	Descriptive Metadata Scheme-1
AMWA AS-11	AS-11/DPP	AS-11 Metadata
SMPTE ST 377-4	MCA Labeling	Multichannel Audio Labeling Framework
SMPTE RP 2057:2011	Text-Based Metadata	Text-Based Metadata Carriage in MXF
SMPTE ST 434	ST434	XML Encoding for Metadata and File Structure Information

Operating System

Operating System
Microsoft Windows
Linux
Apple Mac OS

Platforms

Platforms
X86
X64

Development Environment

Development Environment
C++ Implementation, Microsoft Visual Studio

Licensing Options

Part Number	Product	Description
msdkltac	mSDK lite	Media SDK targeted for the most popular use cases for MXF mechanisms with well-defined functionalities and simple API
msdklt	mSDK lite - additional licenses	Scale the number of licenses
msdkprac	mSDK PRO	Software development kit targeted to developers who need full access to all MXF mechanisms
msdkpr	mSDK PRO - additional licenses	Scale the number of licenses

Contact our sales team at sales@mog-technologies.com to find out how to purchase or in case you need more information.