



# MXF::SDK

Who is it for?

Built for users that want to perform extensive MXF development and need to have fine control on data access and manipulation. With MXF::SDK you also get a development tool with full professional support.

## Technical Details

### WRAPPER OUTPUT

WRAPPER	STANDARD
<b>SMPTE MXF</b>	SMPTE ST377
<b>ARD/ZDF</b>	IRT HDF
<b>AS02</b>	AMWA AS-02
<b>AS03</b>	AMWA AS-03
<b>AS-11/DPP</b>	AMWA AS-11
<b>Sony XDCAM</b>	SMPTE RDD 9
<b>Sony XAVC</b>	SMPTE RDD 32
<b>Panasonic P2 AVC-Intra</b>	SMPTE RP 2027
<b>Panasonic AVC-Ultra</b>	SMPTE RDD26

### OPERATIONAL PATTERNS

OPERATIONAL PATTERNS	STANDARD
<b>OP1a</b>	SMPTE ST 378
<b>OP1b</b>	SMPTE ST 391
<b>OP1c</b>	SMPTE ST 408
<b>OP2a</b>	SMPTE ST 392
<b>OP2b</b>	SMPTE ST 393
<b>OP2c</b>	SMPTE ST 408
<b>OP3a</b>	SMPTE ST 407
<b>OP3b</b>	SMPTE ST 407
<b>OP3c</b>	SMPTE ST 408
<b>OPAtom</b>	SMPTE ST 390

### METADATA SUPPORT

OPERATIONAL PATTERNS	STANDARD	SHORT NAME
<b>SMPTE S380M</b>	Descriptive Metadata Scheme-1	DMS-1
<b>AMWA AS-11</b>	AS-11 Metadata	AS-11/DPP
<b>SMPTE ST 377-4</b>	Multichannel Audio Labeling Framework	MCA Labeling
<b>SMPTE RP 2057:2011</b>	Text-Based Metadata Carriage in MXF	Text-Based Metadata
<b>SMPTE ST 434</b>	XML Encoding for Metadata and File Structure Information	ST434

### SUPPORTED OS

Microsoft Windows	Linux / Ubuntu	Apple Mac OS
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### DEVELOPMENT ENVIRONMENT

C++ Implementation	Visual Studio Support
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# Technical Details



## MXF::SDK

### SUPPORTED ESSENCE AND PROFILES

CODEC	STANDARD	PROFILES
<b>DV</b>	SMPTE ST383	PAL DV25
		PAL DV50
		PAL DVCAM
		NTSC DV25
		NTSC DV50
		NTSC DVCAM
<b>DVCPRO HD</b>	SMPTE 390M	720/1080
<b>D10/IMX</b>	SMPTE 381	IMX 30
		IMX 40
		IMX 50
<b>XDCAM HD</b>	SMPTE RDD 9	MPEG HD420 17,5
		MPEG HD420 25
		MPEG HD420 35
		MPEG HD422 50
<b>XAVC</b>	SMPTE RDD 32	XAVC Intra HD CBG 50
		XAVC Intra HD CBG 100
		XAVC Intra HD CBG 200
		XAVC Intra 4K CBG 100
		XAVC Intra 4K CBG 300
		XAVC Intra 4K CBG 480
		XAVC Intra 4K VBR 100

### SUPPORTED ESSENCE AND PROFILES

CODEC	STANDARD	PROFILES
<b>XAVC</b>	SMPTE RDD 32	XAVC Intra 4K VBR 300
		XAVC Intra 4K VBR 480
		XAVC Long GOP HD 25
		XAVC Long GOP HD 35
		XAVC Long GOP HD 50
		XAVC Long GOP 4K 188
		XAVC Long GOP 4K 300
		XAVC Long GOP 4:2:2 10bit
<b>AVC-I</b>	SMPTE RP 2027	AVC-Intra 50
		AVC-Intra 100
<b>AVC Ultra</b>	SMPTE RDD 26	AVC-Ultra LongGOP G6
		AVC-Ultra LongGOP G12
		AVC-Ultra LongGOP G25
		AVC-Ultra LongGOP G50
		AVC-Ultra Intra 50
		AVC-Ultra Intra 100
		AVC-Ultra Intra 200
<b>AVC Proxy</b>	SMPTE RDD25	AVC Constrained Baseline
<b>DNxHD (VC-3)</b>	SMPTE ST 2019	DNxHD 35-220
<b>DNxHR</b>	SMPTE RP 2027	444
		HQX

### SUPPORTED ESSENCE AND PROFILES

CODEC	STANDARD	PROFILES
		HQ
		SQ
		CL
		LB
<b>JPEG2000</b>	SMPTE ST 422	2K
		4K
		SEPPARATE_FIELDS
		SINGLE_FIELD
		MIXED_FIELDS
		SEGMENTED_FRAME
<b>MPEG4</b>	-	Sony XDCAM Proxy
<b>Uncompressed</b>	SMPTE 384M	4:2:2 (YCbCr) sampling
<b>AIFF</b>	-	AIFF Uncompressed Coding
<b>WAVE/BWF</b>	-	
<b>AES3</b>	SMPTE ST 382	
<b>AAC</b>	SMPTE ST 381-4	
<b>Binary</b>	SMPTE ST 381	MPEG Streams Other than Video or Audio
<b>VBI Lines and Ancillary Data Packets</b>	SMPTE ST 436	
<b>Blind</b>	-	
<b>MPEG TS/MPEG PS</b>		Mpeg Transport Stream / MPEG Program Stream
<b>AVI</b>		Audio Video Interleave