



IMF::SDK

Who is it for?

Built for users that need to generate IMF compliant files and get the best from IMF applications and workflows.

Technical Details

WRAPPER OUTPUT

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

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

OPERATIONAL PATTERNS	STANDARD	SHORT NAME
SMPTE S380M	Descriptive Metadata Scheme-1	DMS-1
AMWA AS-11	AS-11 Metadata	AS-11/DPP
SMPTE ST 377-4	Multichannel Audio Labeling Framework	MCA Labeling
SMPTE RP 2057:2011	Text-Based Metadata Carriage in MXF	Text-Based Metadata
SMPTE ST 434	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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SUPPORTED ESSENCE AND PROFILES

CODEC	STANDARD	PROFILES
DV	SMPTE ST383	PAL DV25
		PAL DV50
		PAL DVCAM
		NTSC DV25
		NTSC DV50
		NTSC DVCAM
DVCPRO HD	SMPTE 390M	720/1080
D10/IMX	SMPTE 381	IMX 30
		IMX 40
		IMX 50
XDCAM HD	SMPTE RDD 9	MPEG HD420 17,5
		MPEG HD420 25
		MPEG HD420 35
		MPEG HD422 50
XAVC	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
XAVC	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
AVC-I	SMPTE RP 2027	AVC-Intra 50
		AVC-Intra 100
AVC Ultra	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
AVC Proxy	SMPTE RDD25	AVC Constrained Baseline
DNxHD (VC-3)	SMPTE ST 2019	DNxHD 35-220
DNxHR	SMPTE RP 2027	444
		HQX
		HQ
		SQ
		CL
		LB

SUPPORTED ESSENCE AND PROFILES

CODEC	STANDARD	PROFILES
JPEG2000	SMPTE ST 422	FULL_FRAME
		SEPPARATE_FIELDS
		SINGLE_FIELD
		MIXED_FIELDS
		SEGMENTED_FRAME
MPEG4	-	Sony XDCAM Proxy
		Uncompressed
AIFF	SMPTE 384M	4:2:2 (YCbCr) sampling
		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 (w/ alpha channel)
		4444 XQ
		4444 XQ (with alpha channel)
ACES	SMPTE ST2065	
IMF	SMPTE ST 2067	SMPTE ST 2067-20, 21 e 40: JPEG2000
		SMPTE ST 2067-50: ACES
		SMPTE TSP 2121: ProRes