

Content Management | Technical Specification

MPEG-2 SD (LXF)

General

Essence container	LXF – Leitch Version 0 or Version 1
File name	Not longer than 32 characters, no special characters, no spaces
File suffix	lxf (case sensitive - no capital letters) or none
Programme start	First frame (no clocks, no bars, ...)
Start timecode	00:00:00:00

Video essence

Video signal compliance	ITU-R BT.601
Chroma format	4:2:2
Video coding	MPEG-2 422P@ML
Video data rate	15 Mbit/s (CBR)
Stored resolution	720x576
Displayed resolution	720x576
Frame rate	25 fps (50i)
Interlacing	Top field first
GOP	IBBP (Length: 15) - sequence header on each GOP
Intra DC precision	10 bit or 11 bit
Aspect ratio	Aspect ratio flag of container and video essence matching content aspect ratio

Audio essences

Audio channels	2 or 4 or 8
Audio coding	PCM (Channel 1-4) or Dolby E (Channel 5-8)
Sampling rate	48 kHz
Bit depth	16 bit or 20 bit or 24 bit

Audio channel configuration

1-2	Stereo total mix primary language
3-4	Stereo total mix secondary language or M&E or muted
5-6	Dolby E (5.1 or 5.1+2) primary language or muted
7-8	Dolby E (5.1 or 5.1+2) secondary language or muted

Dolby E channel configuration

1	Front left
2	Front right
3	Center
4	LFE
5	Surround left
6	Surround right
7	Left total mix or muted
8	Right total mix or muted