

## Content Management | Technical Specification

# XDCAM HD 422 (MXF)

### General

<b>Essence container</b>	MXF OP1a (SMPTE 378M)
<b>File name</b>	Not longer than 32 characters, no special characters, no spaces
<b>File suffix</b>	mxf (case sensitive - no capital letters)
<b>Programme start</b>	First frame (no clocks, no bars, ...)
<b>Start timecode</b>	00:00:00:00

### Video essence

<b>Video signal compliance</b>	ITU-R BT.709
<b>Chroma format</b>	4:2:2
<b>Video coding</b>	MPEG-2 422P@HL
<b>Video data rate</b>	50 Mbit/s
<b>Stored resolution</b>	1920x1088
<b>Displayed resolution</b>	1920x1080
<b>Frame rate</b>	25 fps (50i)
<b>Interlacing</b>	Top field first
<b>GOP</b>	IBBP (Length: 12) - sequence header on each GOP - first GOP closed
<b>Aspect ratio</b>	16:9

### Audio essences

<b>Essence format</b>	AES-3 (SMPTE 382M)
<b>Total audio essences</b>	8
<b>Channels per essence</b>	1 (mono)
<b>Audio coding</b>	PCM (Channel 1-4) <b>or</b> Dolby E (Channel 5-8)
<b>Sampling rate</b>	48 kHz
<b>Channel configuration</b>	8 channels @ 24 bit

### Audio channel configuration

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

### Dolby E channel configuration

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