

Technical Specification

Germany
Short Form

NBCUniversal
International Television

XDCam HD 422 (MXF)

General	
Container	MXF OP1a (SMPTE 378M)
File name	32 characters max, no special characters, no spaces
File suffix	Mxf (case sensitive – no capital letters)
Programme start	First frame (no clocks, no bars)
Start timecode	00:00:00:00
Video	
Video signal compliance	ITU-R BT.709
Chroma format	4:2:2
Video coding	MPEG-2 422P@HL
Video data rate	50 Mbit/s
Stored resolution	1920x1088
Displayed resolution	1920x1080
Frame rate	25 fps (50i)
Interlacing	Top field first
GOP	IBBP (Length:12) – sequence header on each GOP – first GOP closed
Aspect ratio	16:9
Audio	
Format	AES-3 (SMPTE 382M)
Total audio essences	8
Channels per essence	1 (mono)
Audio coding	PCM (Channel 1-4) or Dolby E (Channel 5-8)
Sampling rate	48 kHz
Channel configuration	8 channels @ 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	Centre
4	LFE
5	Surround left
6	Surround right
7	Left total mix or muted
8	Right total mix or muted