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ROOTS



# APTN Technical Specifications for Television Commercial Delivery

**IMPORTANT** - Only Broadcast quality video will be accepted.

**Video** Delivery format must be XDCam HD, 50mb/s, in MXF OP1a wrapper, aspect ratio 16x9, resolution 1920x1080i  
8 or 10 bit quantization, 59.94 fps drop frame, colour space 4:2:2 as per ITU-R BT.709

**Audio** -20 dbfs  
PCM, 24 bit, 48kHz, wrapper codec should be BWF  
Stereo mix on channel 1 and 2  
Track allocation for 5.1 audio: 1:L, 2:R, 3:C, 4:LFE, 5:Ls, 6:Rs, 7:DV-L, 8:DV-

**Described Video (VD)** Described video (DV) shall be recorded on channel 7 and 8. In the case when DV is not included audio shall be stereo mix on ch 1 and ch 2, channels 3, 4, 5, 6 unused and the same stereo mix on ch 7 and 8. Track Allocation: 1:L, 2:R, 3:C, 4:LFE, 5:Ls, 6:Rs, 7:DV-L, 8:DV-R.

**Closed Captioning (CC)** ALL English & French commercials and PSAs **MUST** be Closed Captioned.  
Indigenous language commercials and PSAs **do not** have to be Closed Captioned; however, they must be subtitled in English or French.

- CC must be formatted for 29.97 fps Drop Frame Time Code
- CC must be the same duration as the video track
- CC must be encoded into the digital video signal as data packets in accordance with SMPTE 334-2000.
- CC must comply with EIA 608 for SD and EIA 708 for HD.

The EIA 708 captions must include embedded 608 captioning to satisfy the requirements of older HD receivers.

■ Preferred delivery method of CC, file should be .SCC or CAP

All SD commercials or PSAs must be formatted with an aspect ratio of 16x9 and conform to SMPTE standard 259M and SMPTE 334M

**Delivery - File Based** Delivery from a pre-approved vendor ie: Extreme Reach (extremereach.com) or Yangaroo (dmds.com/DMDS.webApp.public/defaultframe.aspx)  
OR  
Signiant Media Shuttle delivery (advise if instructions required for Media Shuttle)