

# NETA FILE SUBMISSION REQUIREMENTS

## VIDEO REQUIREMENTS:

### PREFERRED FORMATS

- DNx145, 220 or 220x files
- XDCam 422 files with a MXF OP1a wrapper

### RESOLUTION

- 1920x1080,4:2:2

### FRAME RATE

- 29.97 / 59.94, MPEG-2 Long GOP @ 50 Mbps

### ADDITIONAL ACCEPTED FORMATS (but not preferred)

- Apple ProRes 422
- Apple ProRes 422 HQ

### RESOLUTION

- 1920x1080,4:2:2

### FRAME RATE

- 29.97 / 59.94

### FIELD ORDER

- Upper field first (TFF)

### TIMECODE

- Drop Frame
- Starting Time code should be (01:00:00;00 or 00:00:00;00)

Your program should start and end with one frame of black.

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## AUDIO REQUIREMENTS:

### FORMATS

Programs can be delivered to NETA as Stereo or 5.1 surround.

Audio must be free of clipping and distortions and cannot lead or lag video by more than a half frame.

### LOUDNESS

- average levels of -24LKFS +or-2dB
- Programs may have music or effects true-peak levels as high as -2 dBFS during moments of dramatic impact, as long as average dialog levels are maintained

## AUDIO ESSENCE

- PCM Uncompressed
- Audio Format: 48 KHz sample rate, uncompressed
- Peak audio program levels at -12 to -8 dBFS, nominal peak levels -10dBfs, average audio levels should be around -20 dBFS.
- Nominal Loudness level: -24 LKFS plus or minus 2 dB.
  - Loudness is measured using ITU BS.1770-3 weighting for the duration of the show.
- Audio Ancillary
- 24 Bit
- 48 KHz sampling rate
- 1152 kbps Bitrate

## STEREO

- Stereo content that does not have DVI or SAP, should be delivered to NETA with 2 channel audio as noted below.
  - Channel 1 Stereo Left
  - Channel 2 Stereo Right
- Stereo content that does have DVI or SAP, should be delivered to NETA with 8 channel audio as noted below.
  - Channel 1 Stereo Left
  - Channel 2 Stereo Right
  - Channel 3 Silence
  - Channel 4 Silence
  - Channel 5 Silence
  - Channel 6 Silence
  - Channel 7 DVI (silence if none)
  - Channel 8 SAP (silence if none)

## 5.1 SURROUND

- 5.1 Surround that does not have DVI or SAP, should be delivered to NETA with 6 channel audio as noted below.
  - Channel 1 Left Front
  - Channel 2 Right Front
  - Channel 3 Center
  - Channel 4 Low Frequency Effects
  - Channel 5 Left Surround
  - Channel 6 Right Surround
- 5.1 Surround that does have DVI or SAP, should be delivered to NETA with 8 channel audio as noted below.
  - Channel 1 Left Front
  - Channel 2 Right Front
  - Channel 3 Center

- Channel 4 Low Frequency Effects
- Channel 5 Left Surround
- Channel 6 Right Surround
- Channel 7 DVI (silence if none)
- Channel 8 SAP (silence if none)

### STEREO SYNTHESIS

Stereo synthesizing is not allowed within any content at any time.

### UP-MIXING

When up-mixing two channels (stereo) to multi-channel surround sound (5.1 channel), audio must be properly distributed among the channels. The resulting center image should not be spread from center. Up-mixed audio must be downmix-compatible to stereo and mono, that is, the resultant downmix should be virtually indistinguishable from the original.

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### **CLOSED CAPTION REQUIREMENTS:**

Closed Captioning should be embedded on your program media but a .scc synchronous file is also acceptable. Please ensure your 708 captions contain 608 compatibility bytes. The display of Closed Captioning should be in sync with the program audio to the extent possible based on required display time needed to read the captions and speed of the speech. Captions should normally appear within plus or minus 1 second of the spoken word. Please ensure captions do not obscure critical video content.

Any program with embedded captions must have CDP 608 Captions. We will not be able to accept files that only have 708 captions.

Specify if the captions are Embedded or Sidecar

If providing a Sidecar closed caption file, it must be a .scc file. Any other closed caption file types cannot be processed.

### CLOSED CAPTIONING ESSENCE

- SMPTE436M Ancillary data track containing 708 captions with 608 compatibility bits (preferred).
- 708 captions with 608 compatibility bits embedded in the VANC (Alternate).

You may submit test files prior to routine submission. File lengths should be no less than 2 minutes and no more than 10 minutes in duration.