

Adstream File Delivery Specification For Australia

To maintain a consistently high quality product Adstream requires all material for distribution in this region to be supplied to the following HD specifications

HD File Specifications

Quicktime ProRes 422LT/HQ 1080/50

Video:

Codec : Apple Quicktime ProRes 422 (LT/HQ)
 Container : MOV
 Profile : LT or HQ
 Chroma Subsample : 4:2:2
 Interlacing : Upper/Top Field First
 Frame Size : 1920x1080
 Frame Rate : 25 FPS
 Aspect Ratio : 16:9

Audio:

Codec : Integer (Little Endian) PCM
 Sample Rate : 48kHz
 Sample Size : 16bit
 Channels : Stereo

Quicktime Wrapped Avid DNxHD 120 1080/50

Video:

Codec : 8bit DNxHD
 Container : MOV
 Bitrate : 120Mb/s
 Chroma Subsample : 4:2:2
 Interlacing : Upper/Top Field First
 Frame Size : 1920x1080
 Frame Rate : 25 FPS
 Aspect Ratio : 16:9

Audio:

Codec : PCM
 Sample Rate : 48kHz
 Sample Size : 24bit
 Channels : Stereo

MXF Wrapped XDCAM 1080/50

Video:

Codec : XDCAM 422
 Container : MXF
 Profile : MPEG-2 422P@HL
 Bitrate : 50Mb/s CBR
 Chroma Subsample : 4:2:2
 Interlacing : Upper/Top Field First
 GOP Structure : Long GOP
 Frame Size : 1920x1080
 Frame Rate : 25 FPS
 Aspect Ratio : 16:9

Audio:

Codec : Integer (Big/Little Endian) PCM
 Sample Rate : 48kHz
 Sample Size : 24bit
 Channels : Stereo

Quicktime Wrapped DVCPro100 1080/50

Video:

Codec : DVCPro100
 Container : MOV
 Bitrate : 115Mb/s CBR
 Chroma Subsample : 4:2:2
 Interlacing : Upper/Top Field First
 Frame Size : 1440x1080
 Frame Rate : 25 FPS

Audio:

Codec : PCM
 Sample Rate : 48kHz
 Sample Size : 16bit
 Channels : Stereo

HD Video Level Requirements

TV Format : HDTV
 Aspect Ratio : 16:9
 Title Safe : 16:9

All Video Signals Should Comply With ITU-R BT.709-5
 And Video Signals Should Not Exceed The Specified Limits

Video Levels Should Not Exceed 700mV, Or Fall Below 0mV

Following EBU recommendation Rec.103-2000 will allow a small tolerance, assuming no more that 1% of the active picture is in error.

- Luminance (Y) -1% and 103%
 (ie between -7mV and 721mV)
- RGB video levels -5% and 105%
 (ie between -35mV and 735mV)

HD Audio Level Requirements

ITU-R 1770 (OP48/59)

All commercial soundtracks must be measured using ITU-R BS 1770-3 loudness meter to ensure compliance to the following delivery specification :

- Reference Level : 1kHz @ -20dBFS
- Integrated Loudness Program : -24 LKFS
- Target Level Tolerance : +/-1 LU
- Maximum True Peak : -2dBTP

Refer to Free TV OP59 for correct loudness measurement and management techniques.

A TVC must contain 12 frames of complete silence, ie no voiceover, active dialogue, music, effects or atmos, at the beginning and end of a commercial.

Example of a 30 Second TVC :

- Audio begins - 00:00:10:12
- Audio ends - 00:00:39:12

Adstream File Delivery Specification For Australia

To maintain a consistently high quality product Adstream requires all material for distribution in this region to be supplied to the following SD specifications

SD File Specifications

MPEG-2 Program Stream 625/50

Video:

Codec : MPEG-2 Program Stream
Container : MPEG-2 Program Stream
Profile : 4:2:2 Profile @MainLevel (422P@ML)
Bitrate : 50Mb/s CBR
Chroma Subsample : 4:2:2
Interlacing : Upper/Top Field First
GOP Structure : I Frame Only Frame
Size : 720x576 (608 Inc VBI)
Frame Rate : 25 FPS
Aspect Ratio : 16:9

Audio:

Codec : MPEG1 Layer-2
Sample Rate : 48kHz
Sample Size : 16 bit

Quicktime ProRes 422LT/HQ 625/50

Video:

Codec : Apple Quicktime ProRes 422 (LT/HQ)
Container : MOV
Profile : LT or HQ
Interlacing : Upper/Top Field First
Frame Size : 720x576
Frame Rate : 25 FPS

Audio:

Codec : Integer (Little Endian) PCM
Sample Rate : 48kHz
Sample Size : 16bit
Channels : Stereo

Quicktime MOV (H.264) 625/50

Video:

Codec : H.264
Container : MOV
Profile : Main@L3
Bitrate : 'Best' Quality
Interlacing : Upper/Top Field First
Frame Size : 720x576
Frame Rate : 25 FPS

Audio:

Codec : Integer (Little Endian) PCM or ACC
Sample Rate : 48kHz
Sample Size : 16bit
Channels : Stereo

SD Video Level Requirements

TV Format : PAL
Aspect Ratio : 16:9 FHA
Title Safe : 16:9

All Video Signals Should Comply With ITU-R BT.601-7
And Video Signals Should Not Exceed The Specified Limits

Video Levels Should Not Exceed 700mV, Or Fall Below 0mV

Following EBU recommendation Rec.103-2000 will allow a small tolerance, assuming no more that 1% of the active picture is in error.

- Luminance (Y) -1% and 103%
(ie between -7mV and 721mV)
- RGB video levels -5% and 105%
(ie between -35mV and 735mV)

SD Audio Level Requirements

ITU-R 1770 (OP48/59)

All commercial soundtracks must be measured using ITU-R BS 1770-3 loudness meter to ensure compliance to the following delivery specification :

- Reference Level : 1kHz @ -20dBFS
- Integrated Loudness Program : -24 LKFS
- Target Level Tolerance : +/-1 LU
- Maximum True Peak : -2dBTP

Refer to Free TV OP59 for correct loudness measurement and management techniques.

A TVC must contain 12 frames of complete silence, ie no voiceover, active dialogue, music, effects or atmos, at the beginning and end of a commercial.

Example of a 30 Second TVC :

- Audio begins - 00:00:10:12
- Audio ends - 00:00:39:12

Adstream File Delivery Specification For Australia

Clapper Board and Pre & Post Roll Information

	Duration	Example Timecode
Clapper Board & Countdown Combined	8"	00:00:00:00 - 00:00:07:24
Black	1"24 Frame	00:00:08:00 - 00:00:09:23
Black w/ 1st Frame Indicator*	1 Frame	00:00:09:24 - 00:00:09:24
TVC (First And Last 12 Frames Must Be Mute)	30"	00:00:10:00 - 00:00:39:24
Black	3"	00:00:40:00 - 00:00:42:24

Clapper Board Information:

For this region a valid Clapper Board is **mandatory**

The following details must be included:

- Key Number
- Client
- Product
- Title
- Duration
- Aspect Ratio
- Date of Production
- OP48 Compliant

Clapper Board : Must be 8 seconds of still image of ID board and countdown combined.

Must be completely silent with no audio pip, followed by 2 seconds of black.

TVC must start exactly at 10 seconds.

There must be 3 seconds of black at the end of the commercial

Local Clearance:

Material must be cleared through Commercials Advice (CAD) before broadcast.

A CAD approval number must be obtained.

Additional Information:

For further information on the Digital Delivery Formats For Commercials, please refer to operational practice OP-29 :

<https://goo.gl/KAJdsc>

***Black w/ 1st Frame Indicator : A small white square must be placed in the top right hand corner of the active picture in the black frame immediately before your first active frame of vision**