adstream

BULGARIA

BULGARIA WHITE PAGES | FILE SPECIFICATIONS

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

HD

File Specification

Apple ProRes 422HQ 1080/50	MXF Wrapped XDCAM 1080/50	MPEG-2 Transport Stream 1080/50
Video: Codec : Apple Quicktime ProRes 422 (HQ) Container : MOV Profile : HQ Chroma Subsample : 4:2:2 Interlacing : Upper/TFF Frame Size : 1920x1080 Frame Rate : 25 FPS Aspect Ratio : 16:9	Video: Codec : XDCAM 422 Container : MXF Profile : MPEG-2 422P@HL Bitrate : 50Mb/s CBR Chroma Subsample : 4:2:2 Interlacing : Upper/TFF GOP Structure : Long GOP Frame Size : 1920x1080 Frame Rate : 25 FPS Aspect Ratio : 16:9	Video: Codec : MPEG-2 Container : MPEG-2 Transport Stream Profile : 422P@HL Bitrate : 100Mb/s CBR Chroma Subsample : 4:2:2 Interlacing : Upper/TFF GOP Structure : I Frame Only Frame Size : 1920x1080 Frame Rate : 25 FPS Aspect Ratio : 16:9
Audio: Codec : PCM (Little Endian) Sample Rate : 48kHz Sample Size : 24bit Channels : Stereo	Audio: Codec : PCM (Big/Little Endian) Sample Rate : 48kHz Sample Size : 24bit Channels : Stereo	Audio: Codec : PCM Sample Rate : 48kHz Sample Size : 24bit Channels : Stereo

HD

Video Level Requirements
TV Format : HDTV
Aspect Ratio : 16:9
Title Safe : 16:9 as per EBU R.95-1
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
Out of gamut tolerance
Whilst Adstream and the Broadcasters will reject
illegal video levels they understand there may be
instances where it is difficult to completely avoid,
and following EBU recommendation Rec.103-2000
will allow a small tolerance, assuming that no more
than 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
Depending on the final destination, the SCE region
accepts audio mixed as either:
PPM / Max Peak
• Permitted Maximum Level : PPM 6 (-10dBFS)
• Alignment Level : 1kHz@ -18dBFS
• Ballistic : PPM Type IIa as per IEC 60268-10
Refer to EBU R68-2000 for guidance on alignment
levels

Croatia, Malta, Slovenia and Bulgaria:
Files should always be R128
EBU R.128-2014
• Integrated Loudness Program : -23 LUFS
• Target Level Tolerance : +/- 0.5 LU
• Maximum True Peak : -3dBTP
• Maximum Momentary : -15 LUFS

SD

File Specification

Apple ProRes 422HQ 625/50

Video:
Codec : Apple Quicktime ProRes 422 (HQ)
Container : MOV
Profile : HQ
Interlacing : Upper/TFF
Frame Size : 720x576
Frame Rate : 25 FPS

Audio:
Codec : PCM (Little Endian)
Sample Rate : 48kHz
Sample Size : 16/24bit
Channels : Stereo

MPEG-2 Program Stream 625/50

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

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

SD

Video Level Requirements
TV Format : PAL
Aspect Ratio : 4:3 and 16:9
Title Safe : 4:3 / 16:9 as per EBU R.95-1
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
Out of gamut tolerance
Whilst Adstream and the Broadcasters will reject illegal video levels they understand there may be instances where it is difficult to completely avoid, and following EBU recommendation Rec.103-2000 will allow a small tolerance, assuming that no more than 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)
Content delivered as 16:9 will be converted to 16:9 Letterbox for 4:3 destinations if an alternate version is not supplied.

SD

Audio Level Requirements
Depending on the final destination the SCE region accepts audio mixed as either:
PPM / Max Peak
• Permitted Maximum Level : PPM6 (-10dBFS)
• Alignment Level : -18dBFS
• Ballistic : PPM Type II
Refer to EBU R68-2000 for guidance on alignment levels and permitted maximum levels
Croatia, Malta, Slovenia and Bulgaria:
Files should always be R128
EBU R.128-2014
• Integrated Loudness Program : -23 LUFS
• Target Level Tolerance : +/- 0.5 LU
• Maximum True Peak : -3dBTP
• Maximum Momentary : -15 LUFS

Clock/Slate and Pre & Post Roll Information

	Duration	Example Timecode
TVC	30"	00:00:00:00 - 00:00:29:24

Clock/Slate Information

For this region a valid clock/slate is Not Required

File naming should be: *ClockNumber_Product or Product_Title_Duration_Audio*

The clock number on the order must contain a maximum of 20 characters

It is advised to use the layout **BBB-PPPNNN-DDD** where:
• B : Brand/Agency
• P : Product
• N : Unique Sequential ID Number
• D : Duration

Further Audio Guidance:

• Content delivered mixed to max peak ('R68'/PPM) can be converted to meet the EBU R128 program loudness requirements.

• Care must be taken when converting from R128 to 'R68'/max peak, as this may result in unintentionally low audio levels.

Where required this will be normalised to meet the correct program loudness.

Bulgaria: Files should always be R128

Additional Information:
TVC duration must be to the complete number of frames.
For example at 25fps the number of frames for a 30" TVC will need to be 750 frames.