

Adstream File Delivery Specifications For Adstream Nordic

This document covers the following regions and countries:

- **Nordic Countries**
 - **Denmark**
 - **Norway**
 - **Sweden**
 - **Finland**
 - **Iceland**

Adstream Commercial File Delivery Specification For Nordic Countries

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

HD File Specifications

Apple ProRes 422HQ 1080/50

Container : MOV

Video:

Codec: Apple Quicktime
ProRes 422 (HQ)
Profile: HQ
Chroma Subsample: 4:2:2
Interlacing: Upper/TFF
Frame Size: 1920x1080
Frame Rate: 25 FPS
Aspect Ratio: 16:9

Audio:

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

Uncompressed 8-bit YUV 1080/50

Container : MOV

Video:

Codec: Uncompressed 8bit
YCbCr
Chroma Subsample: 4:2:2
Interlacing: Upper/TFF
Frame Size: 1920x1080
Frame Rate: 25 FPS
Aspect Ratio: 16:9

Audio:

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

HD Video

TV Format : HDTV
Aspect Ratio : 16:9
Title Safe : 16:9 as per EBU R.95-2008

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

EBU R.128-2014

- Integrated Loudness Program : -23 LUFS
- Target Level Tolerance : +/- 0.5 LU
- Maximum True Peak : -3dBTP
- Maximum Momentary : -15 LUFS
- Maximum Short Term Momentary (3 Sec) : -20 LUFS
- Loudness Range : 20 LU

For specific multi track audio configuration layouts, please see the end of this document

Adstream Commercial File Delivery Specification For Nordic Countries

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

SD File Specifications

MPEG-2 Program Stream 625/50

Container : MPEG-2 Program Stream

Video:
Codec: MPEG-2
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

Apple ProRes 422HQ 625/50

Container : MOV

Video:
Codec: Apple Quicktime ProRes 422 (HQ)
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

Uncompressed 8-bit YUV 625/50

Container : MOV

Video:
Codec: Uncompressed 8bit YCbCr
Chroma Subsample: 4:2:2
Interlacing: Upper/TFF
Frame Size: 720x576
Frame Rate: 25 FPS

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

SD Video

TV Format : PAL
Aspect Ratio : 16:9 FHA
Title Safe : 16:9 as per EBU R.95-2008

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)

SD Audio

EBU R.128-2014

- Integrated Loudness Program : -23 LUFS
- Target Level Tolerance : +/- 0.5 LU
- Maximum True Peak : -3dBTP
- Maximum Momentary : -15 LUFS
- Maximum Short Term Momentary (3 Sec) : -20 LUFS
- Loudness Range : 20 LU

Adstream Commercial File Delivery Specification For Nordic Countries

Clock/Slate and Pre & Post Roll Information

TVC	30"	00:00:00:00 - 00:00:29:24

Local Clearance:

Local clearance is managed by the legal department at the broadcaster, no pre-approval is required.

For questions regarding the Nordic Disney channels and their compliance guidelines:

Please contact: Malene.Lonstrup@disney.com

Additional Clock/Code Information:

Norway: A Nielsen code can be requested from your Media agency or AC Nielsen (email: radiospot@nielsen.com, telephone: +47 406 142 40).

DISNEY: The Disney sales code (DTV, STV or NTVxxxx) is required in the "Disney code" field when placing your order. This number can be found on the Disney Sales order in the upper left corner.

Multi Track Audio Configuration: CARTOON NETWORK

- For each audio language, select the corresponding destination country. (i.e., for DK and NO audio, select both destinations).
- Each audio language can only be included once. (i.e., If SE audio is used for FI, leave "Finnish tracks" empty).
- For a single language track use audio channels 1-2 only.
- For 2 languages tracks use audio channels 1-2 and 3-4.
- For 3 languages tracks use audio channels 1-2, 3-4 and 5-6.
- For 4 languages tracks use audio channels 1-2, 3-4, 5-6 and 7-8.

Multi Track Audio Configuration: DISNEY CHANNELS

Note that as of 1st September 2018 Disney Channels only accept a minimum of 3 language tracks

- 3 languages tracks, use audio channels 1-2, 3-4 and 5-6.
- 4 languages tracks, use audio channels 1-2, 3-4, 5-6 and 7-8.

Multi Track Audio Configuration: NICKELODEON JUNIOR PAN NORDIC

- Accepts 2 or 3 stereo language tracks
- 1) "Language 1" Stereo L-R
- 2) "Language 2" Stereo L-R
- 3) "Language 3" Stereo L-R (If 3 language tracks are available)
- For each audio language, select the corresponding destination country.

Additional Information:

When uploading the file, the filename must be identical to booking clock (Adcode)