

# Paid Program Master File Specifications

## HD File Specs

### VIDEO

XDCAM HD 422 MXF OP1a  
50 Mbps  
Long GOP  
1920x1080  
16:9 aspect ratio  
29.97 fps  
Upper Field First

### AUDIO

PCM  
2 channels  
768 Kbps  
48 KHz  
16 bit

## SD File Specs

### VIDEO

MPEG-2 Program Stream  
10 Mbps  
720x512 or 720x480  
4:3 aspect ratio  
29.97 fps  
Upper Field First

### AUDIO

MPEG-1 Layer 2  
2 channels  
384 Kbps  
48 KHz

## Content Layout

All files are required to be laid out in the following configuration before they can be correctly ingested into the Extreme Reach platform: 8-second slate, 2 seconds of black followed by the program and 2 frames of black. (28:40;02 total run time for a 28:30)

## Audio Levels

The target loudness level should be -24 LKFS and the true-peak level should be below -2 dB TP. These specifications are in accordance with ATSC RP A/85 and measured as per ITU-R BS. 1770-3.

## Closed Captioning

For HD files, EIA-608 and EIA-708 data must be compliant and present (SMPTE 436M).

SD files with embedded EIA-608 closed captioning data are accepted. Line 21 captions are only accepted on 720x512 files.

The first caption should be “paint-on” and occur on or after the fifth frame of content or there must be a one-second delay if the first caption is “pop-on.”

Sidecar SCC files are accepted with drop frame timecode and with the program starting at 01:00:00;00.

## Upload Files

Please notify your Extreme Reach account manager with the file name once the upload is complete.

### ASPERA

<https://transfer.extremereach.com>  
Username: ERGuest  
Password: ERgu3st!

### FTP

<ftp://ftpmpt1.extremereach.com>  
Username: ftpupload  
Password: Blast^off

If you have any questions, contact us [support@extremereach.com](mailto:support@extremereach.com)

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