

MPEG2 SD

File-Based Master Specifications

This document provides essential information, including recommended file settings and layout information, for delivering file-based masters to an Extreme Reach facility so your files can be prepared for broadcast.

If any of the requirements cannot be met, your content processing could be delayed. Please contact your Extreme Reach/Pathfire show coordinator with additional questions.

MPEG2 SD	
Encoding & Video Bit Rate	MPEG2 (9.61Mbps)
Resolution / Frame Rate	720x512 (29.97fps)
Aspect Ratio	4:3
Chroma Sampling	4:2:2
GOP	IBBP 15 (Long)
Stream Type	Transport
Profile / Level	4:2:2P Main
User Data	None
Closed Captioning	Encoded with VBI
Nielsen	Encoded with VBI
V-Chip	Encoded with VBI
Field Dominance	Upper (Odd) Field 1
Timecode	VITC (Line 16 & 18)
AFD	N/A
Audio Encoding Format	MPEG1 Layer 2
Audio Bit Rate	192 Kbps
Audio Bit Depth	N/A
Audio Levels	Reference -20dBFS Loudness -24LKFS ± 2dB (Max)
Audio Sample Rate	48 KHz
Audio Channels	4 (2 Stereo Pairs)
Audio Configuration	Stereo Ch1 – Left Stereo Ch2 – Right Stereo Ch3 – Left Stereo (LAS) Ch4 – Right Stereo (LAS)

File Structure:

- Minimum 10 seconds of black / silence
- Minimum 30 seconds of bars / tone
- Minimum 10 seconds of slate
 - Show Name
 - Episode Number
 - Episode Name
 - Episode Duration
 - Audio Channel Configuration
- Minimum 5 seconds black between each segment.
- Minimum 10 seconds of black / silence

File Naming Conventions:

- The filename must contain the full show name and episode number with no spaces.
- The filename must contain only alphanumeric characters.

Notes:

1. The Video Bit Rate and Audio Bit Rates stated are for the elementary streams. The resulting MUX rate will be the aggregate of all elementary streams. Please use care when configuring your encoders.
2. The specification in this document is the preferred format for SD stereo content with all attributes present.
3. This document describes the base technical details of the file format required. The content delivery specifications of the program provider may contain additional requirements which need to be observed.

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