

A/V Preservation – Video Migration Preferred Formats

Preferred Formats	Format Version	Codecs	Format Specifications
Digital Moving-Picture Exchange (DPX)	Motion Picture Film Maximum Capture - 4K [MPD-P1]	SMPTE 268M-1994 and is a pixel-based (raster)	Read format details (https://www.archives.gov/preservation/products/definitions/dpx.html)
Material Exchange Format (MXF)		J2K-lossless-compressed Use with AVC-LongG25 1080p 29.97	ST 377-1:2011Material Exchange Format (MXF) — File Format Specification: (https://www.loc.gov/preservation/digital/formats/fdd/fdd000013.shtml)
Broadcast Wave (BWF)	0, 1 & 2	Linear Pulse Code Modulated Audio (LPCM)	Specification of the Broadcast Wave Format (BWF) - Version 2: (https://tech.ebu.ch/docs/tech/tech3285.pdf)
QuickTime (.mov)	ID: fdd000052	QuickTime Video, Apple Codec (QTV)	QuickTime File Format – (https://www.loc.gov/preservation/digital/formats/fdd/fdd000052.shtml)
MPEG-2 Encoding Family (MPEG-2)	02-14-2012	ISO/IEC 13818. Information technology -- Generic coding of moving pictures and associated audio information (formal name) MPEG-2 (common name)	MPEG-2 Encoding Family – (https://www.loc.gov/preservation/digital/formats/fdd/fdd000335.shtml)

A/V Preservation – Video Migration Accepted Formats (Preservation Access)

Acceptable Formats	Format Version	Codecs	Format Specifications
Audio Video Interleaved - AVI (Uncompressed)	AVI 2.0	RIFF format	AVI Video Codec and format information: (https://www.loc.gov/preservation/digital/formats/fdd/fdd000059.shtml)
MPEG 4	Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format	H.264	ISO/IEC 14496-10:2003. Information technology -- Coding of audio-visual objects -- Part 10: Advanced Video Coding (formal name) MPEG-4, Advanced Video Coding: (http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_detail.htm?csnumber=37729)
FF Video Codec 1 (FFV1)	3	FF Video Codec 1	FF Video Codec 1 File Format Specification: (https://www.loc.gov/preservation/digital/formats/fdd/fdd000341.shtml)
Matroska (.mkv)	FDD update: 2020-08-19	FFV1 codec in the Matroska container is an 'acceptable' format in the Recommended Formats Statement (RFS) for File-based but only for content without closed captions or timecode information.	Matroska Multimedia Container (https://www.loc.gov/preservation/digital/formats/fdd/fdd000342.shtml)

A/V Preservation – Audio Migration Preferred Formats (Preservation Master)

Preferred Formats	Format Version	Codecs	Format Specifications
WAVE Audio File Format (.wav)	ID: fdd000013	Material Exchange Format (MXF)	MXF Format Information: (https://www.loc.gov/preservation/digital/formats/fdd/fdd000013.shtml)
Broadcast Wave (BWF)	0, 1 & 2	WAVE Waveform Audio File Format (.wav) (WAVE_LPM) (WAVE_BWF_1 and _2)	WAVE Audio File Format (https://www.loc.gov/preservation/digital/formats/fdd/fdd000001.shtml)
Pulse Code Modulated Audio (PCM)		Linear PCM is an uncompressed format	PCM, Pulse Code Modulated Audio – (https://www.loc.gov/preservation/digital/formats/fdd/fdd000016.shtml)

A/V Preservation – Audio Migration

Accepted Formats (Preservation Access)

Acceptable Formats	Format Version	Codecs	Format Specifications
Audio Interchange Format (AIFF)	1.3	Linear Pulse Code Modulated Audio (LPCM)	Audio Interchange File Format: "AIFF" A Standard for Sampled Sound Files Version 1.3 Apple Computer, Inc.: (http://www-mmsp.ece.mcgill.ca/Documents/AudioFormats/AIFF/Docs/AIFF-1.3.pdf)
MPEG Audio Layer III (MP3)		MP3enc, Lame, Mp3_FF	ISO/IEC-11172-3 Information technology – Coding of moving pictures and associated audio for digital storage media at up to about 1.5 Mbit/s. (https://www.loc.gov/preservation/digital/formats/fdd/fdd00012.shtml)
Wave Waveform Audio File Format (Wave)		Linear Pulse Code Modulated Audio (LPCM)	Multimedia Programming Interface and Data Specifications 1.0: (http://www-mmsp.ece.mcgill.ca/Documents/AudioFormats/WAVE/Docs/riffmci.pdf)