Sustainability of Digital Formats: Planning for Library of Congress Collections

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MPEG-4 File Format, V.2, with AVC, High Profile

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Format Description Properties 1



• Short name: MP4 FF 2 AVC HP

• Content categories: moving-image

• Format Category: file-format, encoding

• Other facets: unitary, binary, sampled

• Last significant FDD update: 2010-06-24

• Draft status: Full

Identification and description 1

Full name	MPEG-4 Version 2 file format with Advanced Video Coding, High Profile
Description	MPEG-4 Version 2 file format containing AVC encoded data, high profile. From the H.264/MPEG-4 AVC Wikipedia article (consulted August 1, 2010): "The primary profile for broadcast and disc storage applications, particularly for high-definition television applications (for example, this is the profile adopted by the Blu-ray Disc storage format and the DVB HDTV broadcast service)."
Production phase	See MP4_FF_2.
Relationship to other formats	
Subtype of	MP4_FF_2, MPEG-4 File Format, Version 2
Contains	MPEG-4_AVC_HP, MPEG-4, Advanced Video Coding (Part 10), High Profile
May contain	AAC_MP4, MPEG-4 Advanced Audio Coding
May contain	AAC_MP4_LC, AAC (MPEG-4) Low Complexity Object
May contain	Additional audio, graphics, and scene graph stream types. Not documented at this time.

LC experience or existing holdings	See MP4_FF_2
LC preference	See MP4_FF_2

Sustainability factors 1

Disclosure	See MP4_FF_2
Documentation	See MP4_FF_2 and MPEG-4_AVC.
Adoption	See MP4_FF_2 and MPEG-4_AVC.
Licensing and patents	See MP4_FF_2.
Transparency	See MPEG-4_AVC.
Self-documentation	See MP4_FF_2.
External dependencies	See MP4_FF_2.
Technical protection considerations	See MP4_FF_2.

Quality and functionality factors 1

Moving Image	
Normal rendering	See MP4_FF_2.
Clarity (high image resolution)	See MPEG-4_AVC_HP.
Functionality beyond normal rendering	See <u>MP4_FF_2</u> .
Sound	
Fidelity (high audio resolution)	See MP4_FF_2.
Multiple channels	See MP4_FF_2.
Functionality beyond normal rendering	See <u>MP4_FF_2</u> .

File type signifiers and format identifiers 1

Tag	Value	Note
Filename extension	See related format.	See MP4_FF_2
Internet Media Type	See related format.	See MP4_FF_2
Magic numbers	See related format.	See MP4_FF_2
File type brand (ISO Base Media File Format)	See related format.	See MP4_FF_2
Indicator for profile, level, version, etc.	100	The <i>profile_idc</i> pertains to the encoding and is described as a part of Annex A of Part 10 of the standard, p. 302 as follows: "Conformance of a bitstream to the High profile is specified by profile_idc being equal to 100. Decoders conforming to the High profile at a specific level shall be capable of decoding all bitstreams in which either or both of the following

conditions are true: (profile_idc is equal to 77 or constraint_set1_flag is
equal to 1) and the combination of level_idc and constraint_set3_flag
represent a level less than or equal to the specified level; profile_idc is
equal to 100 and level idc represent a level less than or equal to the
specified level."

Notes i

General	
History	

Format specifications 1

• See <u>Disclosure</u> under Sustainability factors.

Useful references

URLs

• See MP4_FF_2 and MPEG-4_AVC.

Last Updated: 08/04/2021

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