Sustainability of Digital Formats: Planning for Library of Congress Collections

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

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Format Description Properties 1



- ID: fdd000219
- Short name: MP4 FF 2 AVC MP
- Content categories: moving-image
- Format Category: file-format, encoding
- Other facets: unitary, binary, sampled
- Last significant FDD update: 2010-06-28
- Draft status: Full

Identification and description

Full name	MPEG-4 Version 2 file format with Advanced Video Coding, Main Profile	
Description	MPEG-4 Version 2 file format containing AVC encoded data, main profile. From the H.264/MPEG-4 AVC Wikipedia article (consulted August 1, 2010): "This profile is used for standard-definition digital TV broadcasts that use the MPEG-4 format as defined in the DVB standard. It is not, however, used for high-definition television broadcasts, as the importance of this profile faded when the High Profile was developed in 2004 for that application."	
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_MP, MPEG-4, Advanced Video Coding (Part 10), Main 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.	

Local use 1

LC experience or existing holdings	See MP4_FF_2
LC preference	See MP4 FF 2

Sustainability factors 1

See MP4_FF_2
See MP4_FF_2 and MPEG-4_AVC.
See MP4_FF_2 and MPEG-4_AVC.
See MP4_FF_2.
See MPEG-4_AVC.
See MP4_FF_2.
See MP4_FF_2.
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_MP.	
Functionality beyond normal rendering	See <u>MP4_FF_2</u> .	
Sound		
Fidelity (high audio resolution)	See <u>MP4_FF_2</u> .	
Multiple channels	See MP4_FF_2.	
Functionality beyond normal rendering	See <u>MP4_FF_2</u> .	

File type signifiers and format identifiers

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.	77	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. 301 as follows: "Conformance of a bitstream to the Main profile is specified by profile_idc being equal to 77.

Decoders conforming to the Main profile at a specified level shall be			
capable of decoding all bitstreams in which profile idc is equal to 77 or			
constraint set1 flag is equal to 1 and in which level idc and			
constraint set3 flag 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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