

BIBFRAME AV Assessment: Appendix C - Proposed AV Attributes for BIBFRAME

AVPreseve, 6 July 2016

Generic Attribute	Proposed Usage	Example	Recommended media type applicability										Potential Equivalent Properties* (see note in Column R)				Notes
			F-P	F-F	V-PA	V-PD	V-F	S-PA	S-PD	S-F	BIBFRAME 1.0 Vocab	EBUCore Vocab	Schema.org Vocab	RDA (.en) Vocab	Potential Object Vocabularies** (see note in Column R)		
media type	RDA Media Type	projected	x	x	x	x	x	x	x	x	x	bf:mediaCategory	ebucore:mediaType		rdam:mediaType	rda: http://metadataregistry.org/concept/list/vocabulary_id/37.html pbcore: http://metadataregistry.org/concept/list/vocabulary_id/135.html ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_MediaTypeCS.rdf id.loc.gov: http://id.loc.gov/vocabulary/mediaTypes	* Note that these are only potential equivalent properties. In some cases, they may be incomplete or only cover part of the attribute need. Also, several of these properties likely have domains and ranges that limit their use to specific media types, and therefore would not enable them to be used broadly to the media types we recommend in columns D-K. These should be reviewed and tested thoroughly before any implementation.
carrier type	RDA Carrier Type	film reel	x	x	x	x	x	x	x	x	bf:carrierCategory	ebucore:medium		rdam:carrierType	rda: http://id.loc.gov/vocabulary/carriers.html rda: http://id.loc.gov/search?q=cs:http://id.loc.gov/vocabulary/carriers&start=1 pbcore: http://metadataregistry.org/concept/list/vocabulary_id/145.html id.loc.gov: http://id.loc.gov/vocabulary/carriers	** Note that when potential vocabularies do exist, they may not necessarily be complete for the usage and media types recommended. Additional vocabularies will likely be needed in many cases to express the full possible extent of required terms. These should be reviewed and tested thoroughly before any implementation.	
extent	This is not really an attribute, but it currently contain attributes - and is a destination that all content standards recommend	2 sound cassettes (40 min each)	x	x	x	x	x	x	x	x	bf:extent			rdam:extent	N/A		
dimensions	General dimensions needed for migration, but we recommend sub-properties for specific AV dimensions descriptions.	7 in.	x		x			x	x		bf:dimensions			rdam:dimensions	N/A		
-- width	Tape width or film gauge	35 mm.	x		x			x	x				schema:width		N/A		
-- length	Film length, tape roll length for open reel media	1600 ft.	x		x			x							N/A		
-- diameter	Film reel or tape size for open reel media, and diameter of audio discs	7 in.	x		x			x							N/A		
base material	Standard	vinyl	x		x			x	x					rdam:baseMaterial	rda: http://metadataregistry.org/concept/list/vocabulary_id/35.html		
generation	Standard	Master-preservation	x	x	x		x	x	x	x				rdam:generation rdam:generationOfDigitalResource rdam:generationOfAudioRecording rdam:generationOfMotionPictureFilm rdam:generationOfVideotape	pbcore: http://metadataregistry.org/concept/list/vocabulary_id/147.html rda (digital resource): http://metadataregistry.org/concept/list/vocabulary_id/70.html rda (audio resource): http://metadataregistry.org/concept/list/vocabulary_id/69.html rda (motion picture): http://metadataregistry.org/concept/list/vocabulary_id/72.html rda (videotape): http://metadataregistry.org/concept/list/vocabulary_id/73.html		
polarity	Standard	negative	x											rdam:polarity	rda: http://metadataregistry.org/concept/list/vocabulary_id/38.html		
recording method	The scope of this attribute is not sufficient as defined in the evaluated content standards. Should be renamed and applied to all audiovisual resources. Recommend our list of recording methods	digital	x	x	x		x	x	x	x				rdam:hasTypeOfRecording	rda: http://metadataregistry.org/concept/list/vocabulary_id/78.html		
sound recording medium	The scope of this attribute could be extended to any sound carrying resource.	needle	x					x	x					rdam:recordingMedium	rda: http://metadataregistry.org/concept/list/vocabulary_id/79.html		
playing speed	Standard	33 1/3 rpm			x			x						rdam:playingSpeed	pbcore: http://metadataregistry.org/concept/list/vocabulary_id/151.html		
groove characteristic	Standard	microgroove						x						rdam:grooveCharacteristic	rda: http://metadataregistry.org/concept/list/vocabulary_id/80.html rda: http://metadataregistry.org/concept/list/vocabulary_id/100.html		
film sound configuration	Standard - documents the method of encoding sound on film.	edge track	x											rdam:trackConfiguration	rda: http://metadataregistry.org/concept/list/vocabulary_id/81.html		
tape track configuration	Standard - documents the number of magnetic tracks available on an open reel audio tape. This is very difficult to determine without a magnetic viewer.	8							x					rdam:tapeConfiguration	N/A		
sound channel configuration	Standard	stereo	x	x	x		x	x	x	x		ebucore:audioTrackConfiguration		rdam:configurationOfPlaybackChannels	rda: http://metadataregistry.org/concept/list/vocabulary_id/82.html ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_AudioFormatCodeCS.rdf		
sound recording characteristic	This attribute generally includes equalization and/or noise reduction techniques.	Dolby-A	x					x	x					rdam:specialPlaybackCharacteristic	rda: http://metadataregistry.org/concept/list/vocabulary_id/83.html		

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			F-P	F-F	V-PA	V-PD	V-F	S-PA	S-PD	S-F	BIBFRAME 1.0 Vocab	EBUCore Vocab	Schema.org Vocab	RDA (.en) Vocab						
projection characteristic	Standard - 3D, anamorphic, letterbox, window box	anamorphic	x	x	x	x	x									rdam:presentationFormat	rda: http://metadataregistry.org/concept/list/vocabulary_id/84.html			
frame rate	Standard	24 fps	x	x	x	x	x									ebucore:frameRate	rdam:projectionSpeed ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_VideoFrameRateCS.rdf pbcore: http://metadataregistry.org/concept/list/vocabulary_id/168.html			
format	The scope of this attribute is not sufficient as defined in content standards (i.e., it is only described as "video format"), but is being applied widely. This attribute could be a place holder to describe the general format of any audiovisual resource. For film combine gauge (width) with carrier type, same with open reel audio. For digital objects, this is where the wrapper would be recorded.	MOV	x	x	x	x	x	x	x	x	bf:format	ebucore:format ebucore:fileFormat ebucore:containerFormat	schema:encodingFormat	rdam:encodingFormat rdam:videoFormat			rda (encoding format): http://metadataregistry.org/concept/list/page/1/vocabulary_id/87.html rda (video format): http://metadataregistry.org/concept/list/vocabulary_id/85.html pbcore (video): http://metadataregistry.org/concept/list/vocabulary_id/167.html pbcore (audio): http://metadataregistry.org/concept/list/vocabulary_id/166.html ebucore (file format): http://www.ebu.ch/metadata/ontologies/skos/ebu_FileFormatCS.rdf			
mime type	This attribute is not discussed currently in bibliographic description. We include it as a means of preparing data to be ingested in the wider landscape of the Internet, enabling a machine-actionable value for format when resources are file-based. This could likely be a sub-component of format.	application/mxf		x			x									ebucore:mimeType	iana: http://www.iana.org/assignments/media-types/			
broadcast standard	Standard	NTSC			x	x	x										rdam:broadcastStandard	rda: http://metadataregistry.org/concept/list/vocabulary_id/86.html pbcore (video): http://metadataregistry.org/concept/list/vocabulary_id/167.html pbcore (audio): http://metadataregistry.org/concept/list/vocabulary_id/166.html		
file size	Standard	6.3 MB		x			x			x						ebucore:fileSize	schema:fileSize schema:contentSize	rdam:fileSize	N/A	
frame size	General dimensions needed for migration, but we recommend sub-properties for specific AV dimensions descriptions.			x			x										schema:videoFrameSize	rdam:resolution	pbcore: http://metadataregistry.org/concept/list/vocabulary_id/131.html	
-- frame width	Image frame width	4096		x			x									ebucore:width	schema:width			
-- frame height	Image frame height	3112		x			x									ebucore:height	schema:height			
regional encoding	Standard	1				x											schema:regionsAllowed	rdam:regionalEncoding		
bitrate	Standard - average or overall bitrate	50 Mbps		x			x			x	x					ebucore:bitRate ebucore:bitRateMax	schema:bitrate	rdam:encodedBitrate	N/A	
duration	Standard - total duration of the content	00:12:34	x	x	x	x	x	x	x	x						bf:duration	ebucore:durationNormalPlayTime	schema:duration	rdae:duration	N/A
sound content	Standard	sound	x	x	x	x	x									bf:soundContent		rdae:soundContent	rda: http://metadataregistry.org/concept/list/vocabulary_id/93.html	
color content	Standard	color	x	x	x	x	x									bf:colorContent		rdae:colourContent rdae:colourOfMovingImage	pbcore: http://metadataregistry.org/concept/list/vocabulary_id/134.html rda: http://metadataregistry.org/concept/list/vocabulary_id/94.html	
colorspace	Standard, although we updated the title of the attribute to clarify its scope. For film, this is Technicolor; for video it is PAL; for digital it can be sRGB, Adobe RGB, etc.	sRGB	x	x	x	x	x										ebucore:hasColourSpace	rdae:colourContent rdae:colourOfMovingImage	ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_ColourCodeCS.rdf iptc: http://cv.iptc.org/newscodes/colorspace/	
aspect ratio	Standard	4x3	x	x	x	x	x									bf:aspectRatio	ebucore:aspectRatio	rdae:aspectRatio	ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_VisualAspectRatioCS.rdf pbcore: http://metadataregistry.org/concept/list/vocabulary_id/129.html	
time start	Timecode reference of the start of the content of the resource.	00:26:12			x	x	x	x	x	x							ebucore:startTimeCode			N/A
sampling rate	Applies to the sampling rate of digital audio resources.	44.1 kHz/s					x			x	x						ebucore:sampleRate			pbcore: http://metadataregistry.org/concept/list/vocabulary_id/132.html
image bit depth	Applies to the bit depth of the most significant characteristic of the resource. For video and moving image resources, it would apply to the image or video bit depth.	10		x			x													pbcore: http://metadataregistry.org/concept/list/vocabulary_id/130.html
audio bit depth	Applies to the bit depth of the most significant characteristic of the resource. For audio resources, it would apply to the audio bit depth.	24		x			x			x	x						ebucore:sampleSize ebucore:bitDepth			pbcore: http://metadataregistry.org/concept/list/vocabulary_id/130.html
has subtitling	Documents the presence and type of subtitles within a moving image or video resource.	Subtitles	x	x	x	x	x										ebucore:hasDataFormat			ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_TextUsageTypeCodeCS.rdf

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has captioning	Documents the presence and type of closed captioning within a moving image or video resource.	Closed captioned		x	x		x							ebucore:hasDataFormat				ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_TextUsageTypeCodeCS.rdf	
language	Documents the presence and type of languages contained in the resource. This is not a technical attribute as much as it is useful to specify the type of subtitles and/or captions.	Spanish	x	x	x	x	x	x	x	x				bf:language				MARC languages: http://id.loc.gov/vocabulary/languages ISO639-1: http://id.loc.gov/vocabulary/iso639-1 ISO639-2: http://id.loc.gov/vocabulary/iso639-2 ISO639-5: http://id.loc.gov/vocabulary/iso639-5	
video encoding format	Specific to the video encoding of a video resource.	H.264		x		x	x							ebucore:hasVideoEncodingFormat	schema.encodingFormat	rdam.encodingFormat		ebucore (video): http://www.ebu.ch/metadata/ontologies/skos/ebu_VideoCompressionCodeCS.rdf iptc (video): http://cv.iptc.org/newscodes/VideoCodec/ pbcore: http://metadataregistry.org/concept/list/vocabulary_id/156.html	
audio encoding format	Specific to the audio encoding of either an audio or video resource.	LPCM		x		x	x			x	x			ebucore:hasAudioEncodingFormat	schema.encodingFormat	rdam.encodingFormat		ebucore (audio): http://www.ebu.ch/metadata/ontologies/skos/ebu_AudioCompressionCodeCS.rdf pbcore: http://metadataregistry.org/concept/list/vocabulary_id/156.html iptc (audio): http://cv.iptc.org/newscodes/audiocodec/	
scanning format	This attribute documents the method by which a video resource compiles its images on screen, e.g., interlaced, progressive.	interlaced			x	x	x							ebucore:scanningFormat				ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_VideoSamplingStructureCodeCS.rdf	
chroma subsampling	This added attribute applies to the compression of color information in a digital image in order to reduce the overall number of bits needed to store and recreate an image. It documents the number of samples applied to luminance (Y), color blue (CB), and color red (CR), and is often expressed as 4:4:4, or 4:2:2, etc.	4:2:0		x			x											ebucore: http://www.ebu.ch/metadata/ontologies/skos/ebu_VideoSamplingHierarchyCodeCS.rdf	