

EBUCore (v1.6)

http://www.ebu.ch/metadata/schemas/EBUCore/20150522/ebucore_20150522.xsd

| Information | Example value | XML output position (as Xpath) | Comment |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date/Time of Export | 2016-10-05 | ebuCoreMain / @dateLastModified | Formatted as ISO8601 calendar date: https://en.wikipedia.org/wiki/ISO_8601#Calendar_dates |
| Source carrier format | 16:55:24 | ebuCoreMain / @timeLastModified | Formatted as ISO8601 time (without timezone): https://en.wikipedia.org/wiki/ISO_8601#Times |
| Source timecode offset | | | |
| Descriptive Metadata | | | |
| Identifier | VX-00815 | ebuCoreMain / coreMetadata / identifier / dc:identifier | |
| Title | Fall of the Berlin wall | ebuCoreMain / coreMetadata / title / dc:title | |
| Description | Raw footage filmed on the night the Berlin wall was opened. People gathering, storming the wall. | ebuCoreMain / coreMetadata / description / dc:description | |
| Exported Duration | PT297.440S | ebuCoreMain / coreMetadata / duration / normalPlayTime | Formatted as ISO8601 duration string: https://en.wikipedia.org/wiki/ISO_8601#Durations Duration value in seconds. |
| Technical Metadata | | | |
| Video | | | |
| Container format | AVI | ebuCoreMain / coreMetadata / format / containerFormat / @containerFormatName | |
| Video codec name | FFV1 (FF Video Codec 1) | ebuCoreMain / coreMetadata / format / videoFormat / @videoFormatName | |
| | FFV1 | ebuCoreMain / coreMetadata / format / videoFormat / codec / codeIdentifier / dc:identifier | |
| Video framerate | 25 | ebuCoreMain / coreMetadata / format / videoFormat / frameRate | FPS can be stored as fraction, using @factorNumerator/@factorDenominator. This is preferred when storing e.g. NTSC. Please consider using >2 decimals when rounding. |
| Video framesize | 720 | ebuCoreMain / coreMetadata / format / videoFormat / width | |
| | 576 | ebuCoreMain / coreMetadata / format / videoFormat / height | |
| Video display aspect ratio (DAR) | 16 | ebuCoreMain / coreMetadata / format / videoFormat / aspectRatio / factorNumerator | |
| | 9 | ebuCoreMain / coreMetadata / format / videoFormat / aspectRatio / factorDenominator | |
| Video display alignment | | | |
| Video active image area | | | |
| Video field order | top | ebuCoreMain / coreMetadata / format / videoFormat / scanningOrder | Controlled vocabulary: * none * top * bottom |
| Video scanning format | interlaced | ebuCoreMain / coreMetadata / format / videoFormat / scanningFormat | Controlled vocabulary: * interlaced * progressive |
| Video bit depth | 10 | ebuCoreMain / coreMetadata / format / videoFormat / TechnicalAttributeString / [@typeLabel="BitDepth"] | As output by MediaInfo |
| Video color format | YcbCr | ebuCoreMain / coreMetadata / format / videoFormat / TechnicalAttributeString / [@typeLabel="ColorSpace"] | As output by MediaInfo |
| Video chroma subsampling | 4:2:2 | ebuCoreMain / coreMetadata / format / videoFormat / TechnicalAttributeString / [@typeLabel="ChromaSubsampling"] | As output by MediaInfo |
| Audio | | | |
| Audio codec name | Linear PCM (Uncompressed) PCM | ebuCoreMain / coreMetadata / format / audioFormat / @audioFormatName ebuCoreMain / coreMetadata / format / audioFormat / codec / codeIdentifier / dc:identifier | |
| Audio samplerate | 48000 | ebuCoreMain / coreMetadata / format / audioFormat / samplingRate | |
| Audio bit width | 24 | ebuCoreMain / coreMetadata / format / audioFormat / sampleSize | |
| Audio channel count | 4 | ebuCoreMain / coreMetadata / format / audioFormat / channels | |
| Audio channel mapping | AC_0004 LFE | ebuCoreMain / coreMetadata / format / audioFormatExtended / audioChannelFormat / @audioChannelFormatID ebuCoreMain / coreMetadata / format / audioFormatExtended / audioChannelFormat / @audioChannelFormatName | 4-zero-padded, numeric index of channel, prefixed with „AC_“. Starting at „1“. AudioRole channel name as-is. |
| Coding history | | | |
| Date/Time of Digitization | | | |
| Task CodingHistory | T=SONY MSW-M2000P;SN:15534;OPH:38003 T=Atomix LT;D/D T=Transcoder ConvertToFv1;SP:2560000;EP:300000000 | As XML comment block. | EBUCore doesn't provide preservation provenance/CodingHistory type fields. One might store it as XML comment though, to have it somewhat preserved at least. |
| Marker | | | |
| Cyclic | | | Excluded by default. |
| Other | | ebuCoreMain / coreMetadata / part | All parts used as Markers are marked with the attribute value: @typeLabel="Marker" |
| Marker position | 00:04:54.120 | ebuCoreMain / coreMetadata / part / partStartTime / normalPlayTime | In microseconds. |
| Marker duration | 0 | ebuCoreMain / coreMetadata / part / duration | |
| | microseconds | ebuCoreMain / coreMetadata / part / duration / @formatLabel | |
| Marker type | Cue.TimeRef.VITC | ebuCoreMain / coreMetadata / part / @typeDefinition | |
| Marker value | 36294120000 | ebuCoreMain / coreMetadata / part / @partName | There is no value-field defined for an ebucore:part. @partName is used, since it's the only field available that has the highest chance of being read by ebucore:part-aware implementations. It might be possible to use DublinCore elements, but this is more likely not to be handled, even by ebucore:part-aware implementations. |

METS (+ audioMD/videoMD v2)

http://www.loc.gov/standards/amdvmd/audiovideoMDschemas.html

| Information | Example value | XML output position (as Xpath) | Comment |
|----------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date/Time of Export | 2016-10-05T16:55:24 | mets / metsHdr / @CREATEDATE | |
| Source carrier format | | | |
| Source timecode offset | | | |
| Descriptive Metadata | | | |
| Identifier | VX-00815 | mets / @OBJID | |
| Title | Fall of the Berlin wall | mets / @LABEL | |
| Description | | | |
| Exported Duration | PT297.440S | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / videoInfo / duration mets / amdSec / techMD / xmlData / amd:AUDIOMD / audioInfo / duration | Audio and video duration are given individually. They should always be identical. |
| Technical Metadata | | | |
| Video | | | |
| Container format | AVI | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / fileData / format / name | |
| Video codec name | FFV1 | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / fileData / track / codec / name | There are 2 places for storing the codec name, but when defining scanOrder/scanType, track/codec must be used. The other option would be „fileData / compression / codecName“. That would match the way it's done for audio. |
| Video framerate | 25 | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / videoInfo / frame / frameRate | Does not allow to store as fraction. |
| Video framesize | 720 | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / videoInfo / frame / pixelsHorizontal | Please consider using >2 decimals when rounding e.g. NTSC. |
| | 576 | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / videoInfo / frame / pixelsVertical | |
| Video display aspect ratio (DAR) | 16:9 | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / videoInfo / aspectRatio | |
| Video display alignment | | | |
| Video active image area | | | |
| Video field order | top | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / fileData / track / codec / scanOrder | Vocabulary undefined in XSD. Controlled vocabulary taken from EBUCore. |
| Video scanning format | interlaced | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / fileData / track / codec / scanType | Vocabulary undefined in XSD. Controlled vocabulary taken from EBUCore. |
| Video bit depth | 10 | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / fileData / bitsPerSample | |
| Video color format | Other | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / fileData / color | |
| | YcbCr | mets / amdSec / techMD / xmlData / vmd:VIDEOMD / fileData / otherColor | |
| Video chroma subsampling | 4:2:2 | | |
| Audio | | | |
| Audio codec name | PCM | mets / amdSec / techMD / xmlData / amd:AUDIOMD / fileData / compression / codecName | |
| Audio samplerate | 48.1 | mets / amdSec / techMD / xmlData / amd:AUDIOMD / fileData / samplingFrequency | Frequency is stored in kHz. |
| Audio bit width | 24 | mets / amdSec / techMD / xmlData / amd:AUDIOMD / fileData / bitsPerSample | |
| Audio channel count | 4 | mets / amdSec / techMD / xmlData / amd:AUDIOMD / audioInfo / numChannels | |
| Audio channel mapping | AC_0004 | mets / amdSec / techMD / xmlData / amd:AUDIOMD / audioInfo / soundChannelMap / channelAssignment / @CHANNELNUM | |
| | LFE | mets / amdSec / techMD / xmlData / amd:AUDIOMD / audioInfo / soundChannelMap / channelAssignment / @MAPLOCATION | |
| Coding history | | | |
| Date/Time of Digitization | | | |
| Task CodingHistory | | | |
| Marker | | | |
| Cyclic | | | |
| Other | | | |
| Marker position | | | |
| Marker duration | | | |
| Marker type | | | |
| Marker value | | | |

PREMIS (v3.0 + audioMD/videoMD)

http://www.loc.gov/standards/amdvmd/audiovideoMDschemas.html

| Information | Example value | XML output position (as Xpath) | Comment |
|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date/Time of Export | 2016:10:05T16:55:24 | premis / object / objectCharacteristics / creatingApplication / dateCreatedByApplication | |
| Source carrier format | | | |
| Source timecode offset | | | |
| Descriptive Metadata | | | |
| Identifier | VX-00815 | premis / object / objectIdentifier / objectIdentifierValue [../objectIdentifierType="local"] | „local“ as objectIdentifierType is based on LoC controlled vocabulary, as referenced in PREMIS specification: http://id.loc.gov/vocabulary/identifiers/local.html |
| Title | Fall of the Berlin wall | premis / object / objectIdentifier / objectIdentifierValue [../objectIdentifierType="dc:title"] | PREMIS is not intended to hold descriptive metadata. See „Limits to the scope of the Data Dictionary“ (p.31) in the PREMIS 3.0 specification paper: http://www.loc.gov/standards/premis/v3/premis-3-0-final.pdf |
| Description | Raw footage filmed on the night the Berlin wall was opened. People gathering, storming the wall. | premis / object / objectIdentifier / objectIdentifierValue [../objectIdentifierType="dc:description"] | Having more than 1 objectIdentifier is technically legal, but might be considered a „hack“ to embed the rudimentary descriptive metadata fields as done here. „objectCharacteristicsExtension“ (1.5.7, p.85) could be used, but requires external Schema. |
| Exported Duration | PT297.440S | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / duration premis / object / objectCharacteristics / objectCharacteristicsExtension / amd:AUDIO / duration | Audio and video duration are given individually. They are always identical, due to being read from 1 source. |
| Technical Metadata | | | |
| Video | | | |
| Container format | AVI | premis / object / objectCharacteristics / format / formatDesignation / formatName premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / fileData / format / name | |
| Video codec name | FFV1 | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / fileData / track / codec / name | There are 2 places for storing the codec name, but when defining scanOrder/scanType, track/codec must be used. The other option would be „fileData / compression / codecName“. That would match the way it's done for audio. |
| Video framerate | 25 | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / videoInfo / frame / frameRate | Please consider using >2 decimals when rounding e.g. NTSC. |
| Video framesize | 720 | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / videoInfo / frame / pixelsHorizontal | |
| | 576 | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / videoInfo / frame / pixelsVertical | |
| Video display aspect ratio (DAR) | 16:9 | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / videoInfo / aspectRatio | |
| Video display alignment | | | |
| Video active image area | | | |
| Video field order | top | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / fileData / track / codec / scanOrder | Vocabulary undefined in XSD. Controlled vocabulary taken from EBUCore. |
| Video scanning format | interlaced | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / fileData / track / codec / scanType | Vocabulary undefined in XSD. Controlled vocabulary taken from EBUCore. |
| Video bit depth | 10 | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / fileData / bitsPerSample | |
| Video color format | YcbCr | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / fileData / color | |
| Video chroma subsampling | 4:2:2 | premis / object / objectCharacteristics / objectCharacteristicsExtension / vmd:VIDEO / fileData / otherColor | |
| Audio | | | |
| Audio codec name | PCM | premis / object / objectCharacteristics / objectCharacteristicsExtension / amd:AUDIO / fileData / compression / codecName | |
| Audio samplerate | 48000 | premis / object / objectCharacteristics / objectCharacteristicsExtension / amd:AUDIO / fileData / samplingFrequency | Frequency is stored in kHz. |
| Audio bit width | 24 | premis / object / objectCharacteristics / objectCharacteristicsExtension / amd:AUDIO / fileData / bitsPerSample | |
| Audio channel count | 4 | premis / object / objectCharacteristics / objectCharacteristicsExtension / amd:AUDIO / audioInfo / numChannels | |
| Audio channel mapping | AC_0004 LFE | premis / object / objectCharacteristics / objectCharacteristicsExtension / amd:AUDIO / audioInfo / soundChannelMap / channelAssignment / @CHANNELNUM premis / object / objectCharacteristics / objectCharacteristicsExtension / amd:AUDIO / audioInfo / soundChannelMap / channelAssignment / @MAPLOCATION | |
| Coding history | | | |
| Date/Time of Digitization | 2016:04:27T11:21:34:0 | premis / event / eventDetailInformation / eventDetail | ISO8601 DateTime format: DATE+T+TIME |
| Task CodingHistory | T=SONY MSW-M2000P;SN:15534;OPH:38003 T=Atomix LT;D/D T=Transcoder ConvertToFv1;SP:2560000;EP:300000000 | premis / event / eventDetailInformation / eventDetail | Provenance information/CodingHistory could be stored like this: * eventIdentifierType="local" * eventIdentifierValue="event_000X" (incrementing counter for each Task) * eventDateTime="OriginationDate +T+ OriginationTime" |
| Marker | | | |
| Cyclic | | | |
| Other | | | |
| Marker position | | | |
| Marker duration | | | |
| Marker type | | | |
| Marker value | | | |