Common Metadata 2.7 Update Notes

Final: November 1, 2018

These notes were used during the creation of Version 2.7. It is neither authoritative nor complete, but we believe it can be useful in understanding the motivation behind some of the changes.

The specification and schema supersede anything said here.

www.movielabs.com/md/md



Summary of key changes

Basic

- 'Production' ReleaseType
- CountryOfOrigin: allow multiple (0..n), clarified definition
- People
 - Added People/Job/CharacterInfo for localization, IDs and nonfictional
 - Gender encoding improvements
 - Top-Billed
- Parent (esp. for regional episode ordering)
- "ContentRelatedTo"
 - Includes 'based on x', and Universe, Brand and Franchise
- New WorkType enumerations

Digital Asset Metadata

- 'noforced' subtitle Type
- Compliance (e.g., Photosensitive Epilepsy testing status)
- Add Dynamic Metadata (e.g., Dolby Vision, SL-HDR1, HDR10+)
- Define default video caption as 'open'
- Video: BitDepth and CodecProfile



'Production' ReleaseType

Problem

 No way to express Production year or date (could be different from ReleaseDate)

- Add 'Production' ReleaseType
- Date can be found in RelaseHistory/Date when ReleaseHistory/ReleaseType="Production"



CountryOfOrigin 0..n

- Problem
 - Can be more than one Country of Origin
- Examples
 - Ireland and Canada
 - https://www.fr.universcine.be/films/maudie
 - Canada, Sweden and UK:
 - https://www.fr.universcine.be/films/the-killer-inside-me
- Solution
 - Change cardinality of CountryOfOrigin to 0..n
- Also, clarified definition



'Character' not localized; no character IDs

Problem

- Cannot localize People/Job/Character
 - For example "Chewbacca" in Korean "츄바카"
- Characters cannot be assigned IDs
- No way to know if character is nonfictional

- Add CharacterInfo object to include localization (including original) and optional IDs
- Add NonFictional (boolean) and @context (string)
 - @context is currently undefined, but can include information like "cameo" or "combination" (combination of multiple people)
- Note that this is redundant with Job/Character element
- Why not put in LocalizedInfo?
 - LocalizedInfo/PeopleLocal use for dubbing actors
 - No linkage between LocalizedInfo/PeopleLocal and Basic/People.
 - Actors would be handled differently than other cast and crew.
 - Doesn't solve ID problem.



Top-Billed

Problem

- No way to know which talent is "top billed"
- Information needed to show top-billed talked (retailers sometimes pick arbitrarily)

Solution

Add @topBilled xs:boolean to BillingBlockOrder



Gender (scope)

- "Gender" element is intended to encode gender identity. That is, how a person publicly identifies, not necessarily how some in society might view them
 - Sexual orientation is not included/encoded
 - Gender expression (e.g., gender-specific clothing choice, hair, makeup, etc.) is not included/encoded
 - Sexual reassignment status is not included/encoded



Gender

Problem

- Gender object does not represent diversity of genders
- Terms:
 - 'Other' is missing
 - 'Plural' isn't a good category
- No gender in Character

- Define new Gender-type
 - Add @transgender xs:boolean
 - Add @specificGender for more specific self-identified gender
 - Remove enumeration in type definition, assign to xs:string-Gender
 - Deprecate 'plural' gender
- Define People/Gender as md:Gender-type
- Add Character/Gender of md:Gender-type



Parent Sequence

Problem

- Can't have different parents for different regions.
- Can't have different ordering (especially episodes) for different parents/regions

- Add SequenceInfo to Basic/Parent object
 - This allows different sequencing for different parents
 - Note that this is not backwards compatible with Basic/SequenceInfo (now expressed in two locations). When there's only one Parent/Sequence, both Basic/SequenceInfo and Basic/Parent/SequenceInfo should be populated
- Add Region and ExcludedRegion to Parent
 - This mirrors MMC and has the same functionality
- Note that MMC and MEC now have the same structure
 - ExperienceChild + SequenceInfo in MMC
 - Parent + SequenceInfo in MEC



Universe, Brand and Franchise

Problem

- No way to express
 - "Universe" e.g., MCU, Star Trek, Fantastic 4, X-Men, DCEU, Arrowverse, Middle Earth
 - "Brand" e.g., Marvel, Universal, Pixar, Disney, Lego, ABC, "Marvel Netflix"
 - "Franchise", Wolverine, Wonder Woman, Thor, Captain America, Deadpool, Star Trek TOS, Star Trek TNG, Star Wars Original Trilogy, Star Wars, Prequel Trilogy, Star Wars Legends, Superman, Batman Nolan, Godfather, Ant-Man, Bond Moore, Bond Craig, Bond Brosnan, Minions, Cars, LOTR, Avenger

- Add GroupingEntity with Type = "Universe", "Brand" or "Franchise"
- Will need best practices



Related To

Issue

- Content is often based on another work (e.g., a book series)
- No way to express
 - "Universe" e.g., MCU, Star Trek, Fantastic 4, X-Men, DCEU, Arrowverse, Middle Earth
 - "Brand" e.g., Marvel, Universal, Pixar, Disney, Lego, ABC, "Marvel Netflix"
 - "Franchise", Wolverine, Wonder Woman, Thor, Captain America, Deadpool, Star Trek TOS, Star Trek TNG, Star Wars Original Trilogy, Star Wars, Prequel Trilogy, Star Wars Legends, Superman, Batman Nolan, Godfather, Ant-Man, Bond Moore, Bond Craig, Bond Brosnan, Minions, Cars, LOTR, Avenger



Related To

- Relations
 - Work: Content can be based-on a work (e.g., a book series)
 - Places: is-about-place, performed/filmed-at, take-place-at
 - People: is-about (primarily, also)
 - Periods or events: is-about-event, takes-place-during
- Objects can be real, fictional or fictionalized
- Degree to which content relates something can range from loose (e.g., fictionalized) to strong (accurate)
 - Modifications can include combining characters, inventing dialog, etc.



Based on structure

Initial

- Relationship
- Work reference to a work (anything in WorkType)
 - See new WorkType enumerations
- Description consumer facing descrption (localized)
- GroupingEntity covers franchise, universe and brand (same used to group for retail)

Future

- People
- Place
- Period
- Event



WorkType enumerations

Problem

- Some material needs to be described for functions such as bonus/interactivity or a relationship (e.g., based on this book)
- No WorkType enumerations for 'cards'
- Current WorkType don't cover these areas

Approach

- Add WorkType values that are general enough to cover broad areas.
- Use WorkTypeDetail to provide additional information when necessary
- WorkTypeDetail change from 0..1 to 0..n

New Values

- Volume Subset of a single season with sequential episodes
- Written Work novels, comic strips, graphic novels, etc.
- Visual Art painting, sculpture, photograph
- Performance Art Play, musical, opera, ballet. Music is covered elsewhere
- Amusement Games (video, board), toys, amusement park rides
- For cards: Allow any term in the CardSet/Card Type (ref: 5.2.11.2): AntiPiracy, DistributionLogo, DubbingCredit, Intermission, EditNotice, *Heath (new)* and Other.



'noforced'

Problem

- Some video comes with open forced subtitles
- Need to flag subtitle tracks without forced subtitles (i.e., gaps where forced subtitles would be)

- Add 'noforced' as subtitle Type
 - Used in conjunction with other Type values such as 'normal' or 'SDH'
 - Can't be used with 'forced'



Compliance

- Problem
 - Need to specify whether track complies with various standards
- Solution
 - Add "Compliance" to every track type
 - Category what is the category (e.g., "PSE" for photosensitive epilepsy)
 - Standard against which compliance is determined
 - Disposition pass/fail/pending/other
 - CompetentAuthority Who issues certification
 - Certificate 'Image' of cert (e.g., PDF in xs:base64Binary)
 - TestingOrganization either self-test or 3rd party
 - TestingMethod
 - Comments



Added Dynamic Metadata

Problem

Need way to specify dynamic metadata (e.g., Dolby Vision, SL-HDR1/2/3, and HDR10+)

- Add ColorTransformMetadata based on SMPTE 2094
- Contains
 - ColorVolumeTransform ("DolbyVision", "SL-HDR", and "HDR10PLUS"
 - ApplicationIdentifier and @applicationVersion (from SMPTE 2094)
 - TargetSystemDisplay, also from SMPTE 2094. Same data as MasteredColorVolume (SMTPE 2086), although with slightly different ranges



Define default video caption as 'open'

Problem

- There is no default for Video/SubtitleLanguage/@closed
- In file-based closed caption delivery is rare if not nonexistent

Solution

Define default as "false" (i.e., default is open captions).



Video: BitDepth and CodecProfile

Problem

- Only way to specify color/luminance bit depth is via MPEG Profile
 - Often easier to just specify it directly
 - Some profiles could support multiple bit depths
- No way to specify profiles for non-MPEG codecs
 - e.g., IMX 50, DNxHD 440x

- Added Picture/BitDepth and @alphaDepth
- Added CodecProfile

