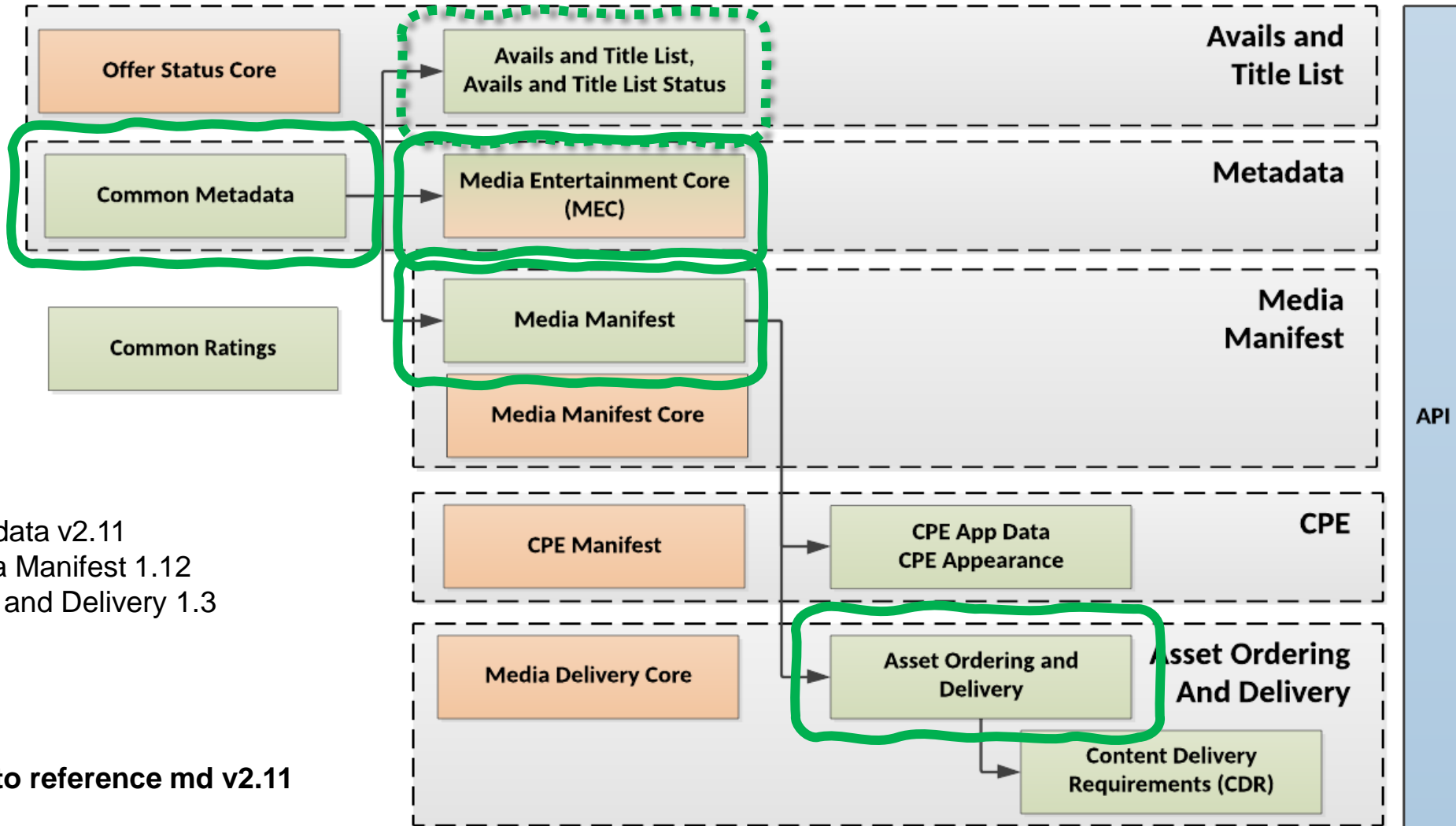


Mid-2022 Spec Updates

December 17, 2022

MDDF Updates



Spec updates

- Common Metadata v2.11
- Common Media Manifest 1.12
- Asset Ordering and Delivery 1.3

Schema Updates

- MD 2.11
- Manifest 1.12
- Delivery 1.3

Scheme updates to reference md v2.11

- MEC 2.11
- Avails 2.6.1

Ancillary Description

- Problem
 - There is no way to express trivia and other data related to a title
- Solution
 - AncillaryDescription added to BasicMetadata-type (top level)
 - Includes
 - Type and Subtype (Type = 'trivia' for trivia)
 - Description (which can be localized)
 - Additional Terms associated with the description

Biography and Character Description

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- Problem
 - No way to capture people's biographies or character descriptions
- Solution
 - Biography used to describe biography of People
 - Added to BasicMetadataPeople-type
 - CharacterDescription used to describe Characters
 - Added to BasicMetadataCharacter-type
 - Both can be localized

Salutation (Title)

- Problem
 - The following could not be expressed
 - Individuals are addressed with titles and honorifics (e.g., “Mr.”, “Ambassador)
 - When addressing people, it is important to use the right title, including
 - Appropriate use of gender (e.g., “Mr.” vs. “Mrs.” vs. “Ms.” vs. “Mx”)
 - No title (e.g., “Dear Chris Smith” vs. “Dear Mr. Smith”)
- Solution
 - People and Character objects now encode Salutation
 - Note: “Title” would be more appropriate, but would cause confusion with work titles
 - Salutation-type provides means to encode no title, single title, or multiple titles (e.g., “Doctor Professor”)

Content Relationships

- Problem
 - Content relationships can be more complicated than is expressible with the existing construct
- Solution
 - Terms added to ContentRelatedTo-type
 - This supports more complex associations

Terms and Timecode

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- Problem
 - Terms-type is a general structure used in many places
 - Some of those places need timecode
- Solution
 - Timecode added to Terms-type

Errors corrected in Digital Asset Metadata

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- Corrections in SequenceParsing
 - StartsWith was required (corrected to be optional)
 - EndsWith was missing (added)
 - FilenameEmbedding/@location, @preceedeBy, and @termintedBy were xs:integer and should be xs:string (corrected)
- autoTTS changed to autoSTT (speech to text, not text to speech)
- Typos fixed

Active Pixels might not be centered

- Problem
 - Assumption is that active area always centered (i.e., same number of inactive pixels above/below or left/right the same)
 - Need method to specify when not equal
- Solution
 - Add `ActiveWidthPixels/@xOffset` and `ActiveHeightPixels/@yOffset`
 - Relative to left corner
 - Default is $(WidthPixels - ActiveWidthPixels)/2$ and $(HeightPixels - ActiveHeightPixels)/2$ respectively

isSingleTrack in DigitalAssetAudioEncoding-type

- Problem
 - Formerly in channel mapping there was no way to distinguish between channels packaged as individual tracks vs. channels packaged in a single track
- Solution
 - @singleTrack is an explicit statement of how tracks are expressed in a package or container

QC Status of tracks in Inventory

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- Problem
 - Need to include QC status of a track or asset
- Solution
 - Copied delivery:QCErrorDescription to md:
 - Use Compliance/ErrorDescription (md:QCErrorDescription-type) to store QC process info and result
 - Added @resolution to ErrorDescription/Severity with values
 - 'fixed' – issue has been corrected
 - 'waived' – issue has not been fixed but found to be acceptable by responsible authority
 - 'risk' – issue is waived, but may require revisiting
 - 'non-issue' – Issue was misreported and is acceptable as-is.
 - Added @originalSeverity to keep track of original severity of error

Completeness status

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- Problem
 - Need a way for vendors to specify that a track is not production ready
- Solution
 - Added WIP (Work in Progress) to AssetIntent
 - This can be used in conjunction with AssetIntent/SubType which can specify 'Draft', "Locked", "Final", etc.

Manifest: Fix Timecode Ambiguity

- Problem
 - Presentations and Playable Sequences start time can be ambiguous (dependent on which track is basis for timeline)
 - Many assets use hour-base timecode. This creates ambiguity on Markers and Chapter timecodes (are they relative to 0 or relative to track timecode)
 - Track alignment can be ambiguous, especially when zero-based and hour-based tracks are mixed
- Solution in Presentation-type/PresentationTimeline
 - Allowed definition of @framerate, @dropframe, @multiplier, and @format to be used in Presentation or Playable Sequence
 - StartTimecode of md:Timecode-type to specify the time base of entire Presentation
 - StartTimecode presumed to be zero if not present
 - Clarified language around use of SMPTE timecodes and media time (seconds.milliseconds)
 - StartTimecode represents the offset from zero-based time that is encoded in the Presentations' tracks. It is particularly aimed at content encoded with hour-based timecodes (i.e., start timecode of tracks start with 01:00:00:00). When StartTimecode is present, it indicates that the timecode of the conformed set of tracks start at StartTimecode. Presentation-relative timecodes such as found in Chapters and Markers should be relative to StartTimecode for frame-encoded timecodes. Time-encoded timecodes (i.e., seconds.milliseconds) should be zero-based.
- Added ability to correct individual tracks (for simple conform adjustments)
- Draft Best Practice provides guidance – This is a complicated topic, so a Best Practice seemed appropriate

Manifest: Chapters/Markers

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- Problem
 - Some markers can have associated images
- Solution
 - Markers updated to include unbounded ImageID objects (like Chapters)

Video tracks from single images

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- Goal
 - Provide means to use a single image to define a video track
 - Example use case: overlays (e.g., visual watermarks), (cards?)
- Approach
 - Treat single image like image sequence with same image repeating
- *Action:* Write best practice that says
 - Use Video Track (like Image Sequence)
 - Encoding/ActualLength used for length
 - Codec type of JPEG, PNG, or other image formats
 - Image size should match overlay video
 - Use PNG for transparency
 - If there are multiple layers, Z-order is undefined. Recommendation is to composite.

“Generated Tracks”

- Problem
 - It is common to include require bars, 2-pop and other standardized material
- Solution
 - Use controlled vocabulary for ImageClip/ImageID
 - Values will be defined in a Best Practice
 - For example, “`md:imageid:md:barsandtone:smp219-2002`” corresponds with SMPTE RP 219-2002 test pattern and tone
 - Details will be contained in a Best Practice
- Also
 - Updated definition of ‘md’ scheme to refer to controlled vocabulary (e.g., “`md:ImageID:md:bars`”)