

# Public Media Part 2 – Common Metadata version RC-5

This Enterprise Metadata Model (EMM) is the basis for how commonly interchanged metadata is structured and validated in Public Broadcasting. The EMM uses the Entertainment Identifier Registry as its standard. The EMM builds its schema upon the experience of MovieLabs and Gracenote, respectively. The purpose of the EMM is to improve interoperability for Public Media content. The current version is 2.1﻿﻿. Release Candidate #5﻿ is pending.

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# Introduction

The Public Media Enterprise Metadata Application Profile (MAP) is a metadata schema to improve interoperability across Public Media show products.

## Selected Metadata Standard and Schemas

**The Public Media MAP adopted the Entertainment Identifier Registry (EIDR) data model standard.**

There is no one industry schema; there are the most preferred schemas – each have a distinct focus. The Public Media Common Metadata MAP aligns to the following schemas, listed in order of rank:

* **MovieLabs Common Metadata Specification**  
  MovieLabs is a Digital Distribution Framework that defines standards for online distribution, automation of digital workflows and supply chain efficiency to improve consumer experiences.
* **Gracenote, powered by Nielsen**Gracenote controlled vocabularies and their TMS IDs (formerly Tribune Media) are deeply entrenched within some of the largest audio and video services – both online and traditional cable services.

## Namespaces

Namespaces define a logical reference that maps back to a schema’s source. Public Media MAP references the aforementioned schemas in its framework. In order to claim compliance with this specification, it is necessary to conform to the following standards and other works as indicated, in addition to the other requirements of this specification. Notwithstanding, intellectual property rights may be required to use or implement such normative references.

|  |  |  |
| --- | --- | --- |
| Schema | Namespace | |
| Entertainment Registry Identifier | [eidr] | http://www.eidr.org/schema/2.0 |
|  |  | http://eidr.org/documents/EIDR\_2.0\_Data\_Fields.pdf |
| MovieLabs Common Metadata2.5 | [md] | http://movielabs.com/md/md/ |
| MovieLabs Media Manifest 1.6 | [mmm] | http://movielabs.com/md/manifest/ |
| Gracenote/TMS Relay 0.5.7 | [tms] |  |
| Public Media Common Metadata 3.0 | [pm] |  |

## Taxonomies and Data Formats

One a metadata field is defined, a taxonomy (controlled vocabulary) is used to establish a shared categorization or classification system. In certain instances, an enterprise may have its own vocabularies. To avoid unnecessary variations, this MAP references the following standards.

|  |  |  |
| --- | --- | --- |
| Taxonomy/Format | Code | |
| Date and Time Format | ISO8601-2004 | <http://www.iso.org/iso/home/standards/iso8601.htm> |
| Country Codes | ISO3166-1 | <http://www.iso.org/iso/home/store/catalogue_tc/catalogue_detail.htm?csnumber=63545> |
|  | ISO3166-2 | http://www.iso.org/iso/home/store/catalogue\_tc/catalogue\_detail.htm?csnumber=63546 |
| Language Codes | ISO 639 | <https://www.iso.org/iso-639-language-codes.html> |

# Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Revision ID | Date | Editor | Action |
| RC-1 | 4/5/2016 | Edgar Roman |  |
| RC-2 | 4/11/2016 | Edgar Roman |  |
| RC-3 | 4/29/2016 | Edgar Roman | Parts 1 & 2 were published in draft |
| 1.0 | 5/16/2016 | Edgar Roman | Parts 1 & 2 were published |
| RC-4 | 7/13/2016 | Edgar Roman |  |
| 2.1 | 5/31/2017 | Interconnection Working Group | Part 2. Core Content Metadata:  Series  Synopsis90 now Synopsis100  NOLA Root now Program Identifier  NOLA Episode now Episode Identifier  Release  Release Identifier added  Repair Description added  Core Business Metadata  Prefix Codes added  Reference for Field Values  Audio Type Dolby replaced with Surround  Release Type  Stacked/Unedited replaced with Stacked  Evergreen added |
| RC-5 | 10/2/2017 | PBS ETAC Metadata Working Group | |  |  | | --- | --- | | What | To align the EMM to an industry metadata scheme | | How | by hardening an application profile (obligations + constraints) and its schema (relationships + framework) | | Who | with EIDR, Vigor, and Rightsline | | Where | using APIs | | Why | to enable consistency across public media platforms | | When | when discovery, machine-readable process improvement, and distribution controls are necessary to facilitate long term preservation of public media content. | | Focused the EMM on interoperability across the enterprise by lessening focus on Interconnection  Added fields required for EIDR  Adopted the EIDR Data Model standard  Focused data objects on their primary role  Removed:  Taxonomies and Field Names defined in the TOS  Extraneous descriptive fields  Introduced an “File” data object to map abstract metadata to a physical file  Comprised a Metadata Application Profile (MAP) to document the model’s framework | | |
|  |  |  | 10 fields have new names:   |  |  | | --- | --- | | **Old Name** | **New Name** | | Distributor | Organization/Display Name | | Episode Identifier | Distribution Number | | Episode: isOTO | Episode Class (now a enum) | | Package Domain | PTV/Package Domain | | Package Number | PTV/Package Number | | PTV Package ID | PTV/PackageID | | Audio Type | Audio/Type | | Package Type | PTV/Package Type | | Revision Number | PTV/Package Revision Number | | Language Primary | Video/Subtitle Language | | Language Versions | Video/Subtitle Language Secondary |   The Organization element has the following new fields:  [Organization@organizationID](mailto:Organization@organizationID)  Organization@domain  [Organization@role](mailto:Organization@role)  Series will reuse Content ID for NOLA Root: <cid:org:pbs.org:NOLARoot:NOVA>  Season has the following new fields:  Parent ID  Episode has the following new fields:  Parent ID  UID  Content Identifier  This field houses the NOLA Code.  Manifest has the following new fields:  UID  Manifestation Class  Parent ID |

# Common Metadata Entities

Entities provide systems to manage records. Entities support the records perspective for understanding the business domain but they are not in themselves always tangible objects.

Catalog Content

* [Series](#_Series)
* [Season](#_Season)
* [Episode](#_Episode)

Editorial Curations and Franchises

* [Compilation](#_Compilation) (optional)

Distributable Works

* [Manifestation](#_Manifestation_Metadata)

Physical Files

* [File](#_File)

## Series

For EMMt programs, the Series is the name of the program and contains multiple [Seasons](#_Season) that run for several [Episodes](#_Episode). Examples of a Series include Poldark on Masterpiece, Cat in the Hat, or Charlie Rose.

### Series Structural Relational Metadata

As represented in [Figure 1](#_Required_fields_within), a Series has the following relationships with other concepts:

|  |  |
| --- | --- |
| **Relationship** | **Description** |
| partOf | A Series can be part of a Compilation, an association with another Series or an [One Time Only](#_Episode) show. |
| contains | A Series typically contains one or more [Seasons](#_Season). In rare cases, one time only episodes re-occur annually which merits a Series. |

### Entity = eidr:Series

### Elements = eidr:Series

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element Name** | **Input Guidelines** | **Examples:** | **Cardinality** | **Obligation** |
| Structural Type | Always "Abstraction". | “Abstraction” | 1 | Required |
| Referent Type | Always "Series". | "Series" | 1 | Required |
| Mode | Always “AudioVisual” | “AudioVisual” | 1 | If a broadcast series, this is required. |
| Content Identifier | Content Identifiers provide a means by which to locate an asset across platforms. <type> is the type of identifier.  <domain> is the organization domain name. <category> additional naming to provide context within the scope of ID usage. (optional to include) <ID> (domain specific ID) is a string that corresponds with the domain. | "cid:Amazon:JDJKSH-SJSHJJJ" "cid:HULU:IKKEKKE-JSJSJS14223" "cid:org:pbs.org:NOLARoot:NOVA" "cid:EIDR:xxxx-xxxx-xxxx" | 0..n |  |
| UID | An organization's GUID (global unique identifier) for internal tracking purposes. | XXXX-XXXX-XXXX-XXXX-XXXX | 1 | Required |
| Series Class | Describes the general type of Series. EMMt Series are Episodic, which is assumed if no Series Class is provided. | Episodic, Anthology, Mini-series | 1 | Required |
| Organization/Contact Info/Phone@Type | A mechanism to identify a number's utility. | Main, Mobile, Fax, Other, Office | 1 |  |
| Organization/Contact Info/Phone | The best phone number to reach the Contact or Organization. | +14155552671 | 1 | Required |
| Organization/Contact Info/Address | The physical address of the Organization’s headquarters. |  | 0 |  |
| Organization/Contact Info/PrimaryEmail | Primary email address for contact. |  | 1 | Required |
| Organization/Contact Info/Name | Use when the contactID is blank. Display name of primary contact. | "Joe Doe" | 1 |  |
| Organization/Contact Info/contactID | If an existing contact is reused, provide the contactID and leave the remaining contact fields blank.The Distributor's assigned contact UID. |  | 0 | Conditionally Required. |
| Organization@organizationUID | A Distributors unique ID for internal tracking . | OrgID:xxxx-xxxx-xxxx | 0 | Conditionally Required. |
| Organization@domain | The organization's domain name. NOTE: If domain is EIDRPartyID, organization must be a valid EIDR Party ID. | ISAN,TVG,AMG,IMDB,MUZE,TRIB,URI,EIDR,Grid, etc. | 1 |  |
| [Organization@role](mailto:Organization@role) | A mechanism to identify the role of the organization as it relates to the work. | Producer, Broadcaster, Distributor, Editor, Encoding, Post-Production, Licensor, Other | 1 | Producer and Distributor are required. |
| Organization/DisplayName | A company associated with the work, preferably a list of the producers, distributor or else the original commissioning broadcaster. | NETA, APT | 1…n |  |
| Title/Class | A mechanism to classify the state of the title itself. | “release”, “regional”, “AKA”, “Working” or “Internal”. | 1 | Required |
| Title/Language | A mechanism to classify the state of the title itself. | e.g., en | 1 | Required |
| Title | The Series’ original release title in mixed case without trailing articles. For EMMt programs, the Series is the name of the program and contains multiple Seasons that run for several Episodes. Examples of a Series include NOVA, Nature, PBS Newshour. A Series can be part of a Collection in association with another Series or an One Time Only show. | “Mercy Street” | 1 | Required |
| Country of Origin | The country from which the work originates.   The country code format should be from the ISO 3166-1 alpha 2 codes (Wikipedia has an easy-to-access list here). Example: The country of origin for CRTC Recording productions is Canada, so the ISO 3166-1 alpha 2 code is CA. | The country of origin for CRTC Recording productions is Canada, so the ISO 3166-1 alpha 2 code is CA. | 1 | Required |
| SynopsisShort | A short description of the nature of the work to assist discovery and manual de-duplication for display on OTT and EPG platforms. Not a plot synopsis. | Romeo and Juliet are teenagers who fall in love despite their families hate and leads to their doom. | 1 |  |
| SynopsisLong | Preferably 500 characters only. The plot of an episode. Additional information regarding the nature of the work to assist discovery and manual de-duplication. | William Shakespeare's Romeo and Juliet is a beloved play that is 400 years old, and is the EMMt popular of this man's works. The play opens with a throwback to the ancient Greek choruses, where the actor(s) bring the audience into the action of the play by telling it everything that has come before the action begins, a form of exposition. The first scene is a fight in the street between to two factions, the Capulets and the Montagues, and here is its we are introduced to Romeo, of late unhappy that his romance with Rosaline has gone sour. Here he meets with his friends, Benvolio (a kinsman) and Mercutio (best friend, and cousin to the Count) | 1 |  |
| Credits@role | Producer and Distributor are required.A name of cast or crew associated with the work.  Credits tell the identity and role of someone who contributed to a Series, Episode, OTO, or Story. For example: Directed by John Smith. Some Credit metadata may be known at the Acquisition stage, such as Producer and Director. However, a lot of the Credit metadata cannot be filled in for sure until the end of Production. Multiple Credits can be added to a piece of content. | Writer, Director or Producer | 1 | Executive Producer is required. |
| Credits@TalentId | The Distributor's assigned UID for the cast or crew prefaced by the Distributor's domain. | XXXX-XXXX-XXXX-XXXX-XXXX | 1..n | Conditionally Required. |
| Credits/Display Name | A name of cast or crew associated with the work.  Credits tell the identity and role of someone who contributed to a Series, Episode, OTO, or Story. For example: Directed by John Smith. Some Credit metadata may be known at the Acquisition stage, such as Producer and Director. However, a lot of the Credit metadata cannot be filled in for sure until the end of Production. Multiple Credits can be added to a piece of content. | "Joe Doe" | 1..n | Producer is Required. |
| Language Secondary | This field lists the secondary languages, if any, used in the original production. | en (English) sp (Spanish) de (German)  fr (French) ja (Japanese) | 0…n |  |
| Language Primary@mode | “Audio” (Silent Series are “Visual”) |  | 1 | Required |
| Language Primary | Indicates the primary language spoken in the original work. | œ en (English) œ sp (Spanish) œ de (German) œ fr (French) œ ja (Japanese) | 1 | Required |
| Approximate Length | This value only represents the default Runtime for current and future performances and does not need to capture the HD Level for past Episodes.  If this value is set at the Series level, it determines the default Runtime for newly produced Episodes. This value only represents the Runtime for current and future Episodes and does not need to capture the HD Level for past Episodes. If the value of the Episode differs from this expected value, the actual value may be set at the Episode level. Otherwise, the default value is inherited from the Runtime field at the Series level. | "PT2SM" | 1 | Required |
| Release Date | A date or four-digit year of the work's original release prefaced with the affected platform. | "domain:2003" "amazon:2015" | 1…n | Required |

## 

## Season

A Season is a container for the initial release of a group of Episodes. Seasons are created by a Distributor.

### Season Metadata in the Content Lifecycle

A Season is mainly a wrapper used to delineate a group of Episodes by production year or order.

### Season Relational Metadata

As represented in [Figure 1](#_Required_fields_within), a Season has the following relationships with other concepts:

|  |  |
| --- | --- |
| **Relationship** | **Description** |
| isPart | A Season is part of a [Series](#_Series). |
| contains | A Season contains [Episodes](#_Episode). |

### Entity = pm:Season

### Elements = eidr:Season

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element Name** | **Input Guidelines** | **Examples:** | **Cardinality** | **Obligation** |
| Season Class | Describes the original release Season.  Main. EMMt common selection. Adjunct. Used when distinct segments or episodes are combined into a presentation offered outside of the original season. | Main, Adjunct | 1 | Required |
| Referent Type | Always "Season" | "Season" | 1 | Required |
| Parent ID | Series UID | XXXX-XXXX-XXXX-XXXX-XXXX | 1 | Required |
| UID | An organization's GUID (global unique identifier) for internal tracking purposes. | XXXX-XXXX-XXXX-XXXX-XXXX | 1 |  |
| Content Identifier | Content Identifiers provide a means by which to locate an asset across platforms. <type> is the type of identifier.  <domain> is the organization domain name. <category> additional naming to provide context within the scope of ID usage. (optional to include) <ID> (domain specific ID) is a string that corresponds with the domain. | "cid:Amazon:JDJKSH-SJSHJJJ","cid:HULU:IKKEKKE-JSJSJS14223" "cid:org:pbs.org:NOVA" | 0..n |  |
| Title | To differentiate - for example 'season 1' - across programs, Distributor's use a season title to make their seasons unique. | [Series Title] + “Season” + [Season Number]  "Arthur Season 1" | 1 | Required |
| Sequence Number | A flexible, but mainly numeric, representation of the sequence of release within a set or season as used in distribution. Allows non-numeric values such as '3a' and '1.2'. | 1 | 1 |  |
| Release Date | A date or four-digit year of the work's original release prefaced with the affected platform. | "2017-10-24", "yyyy" | 1 | Required |

## Episode

An Episode represents the storyline of the program.

### Structural Metadata for an Episode

As represented in [Figure 1](#_Required_fields_within), an Episode has the following relationships with other data objects:

|  |  |
| --- | --- |
| **Relationship** | **Description** |
| partOf | An Episode is part of a [Season](#_Season), which are in turn contained by a [Series](#_Series). |
| associated with | An Episode can be associated with a Compilation. |
| rendered as | An Episode renders as a Manifestation. |

### 

### Entity = eidr:Episode

### Entity = edir:Episode

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element Name** | **Input Guidelines** | **Examples:** | **Cardinality** | **Obligation** |
| Referent Type | A mechanism to identify the record's place within an organization's data object model.Cannot be be inherited and must be self-defined. For example, an object created as a one time only is a one time only whether it is being shown in a broadcast, streamed over the Internet, or played from a DVD. | TV, Movie, Web, Short, or Supplemental | 1 | Required |
| Parent ID | Maps an episode to a season or series. |  | 1 |  |
| UID | An organization's GUID (global unique identifier) for internal tracking purposes. | XXXX-XXXX-XXXX-XXXX-XXXX | 1 |  |
| Content Identifier | Content Identifiers provide a means by which to locate an asset across platforms. <type> is the type of identifier.  <domain> is the organization domain name. <category> additional naming to provide context within the scope of ID usage. (optional to include) <ID> (domain specific ID) is a string that corresponds with the domain. | "cid:Amazon:JDJKSH-SJSHJJJ","cid:HULU:IKKEKKE-JSJSJS14223" "cid:org:pbs.org:NOLACode:NOVA 000101" | 0..n |  |
| Episode Class | Describes the general type of Episode. Main. EMMt common selection. Pilot. Describes the first distributed show. One Time Only. Describes specials created outside of the regular series' shows. Standalone. Describes a movie or show not related to other works such as a series. Recut. Describes stacked shows or shows where there storyline is edited. Segment. Describes segments within a show, such as a cartoon. | Main, Pilot, Standalone, Special, Omnibus, Recut, Segment | 1 | Required |
| Organization/Contact Info/Phone@Type | A mechanism to identify a number's utility. | Main, Mobile, Fax, Other, Office | 1 |  |
| Organization/Contact Info/Phone | The best phone number to reach the Contact or Organization. | +14155552671 | 0..n |  |
| Organization/Contact Info/Address | The physical address of the Organization’s headquarters. |  | 1 |  |
| Organization/Contact Info/PrimaryEmail | Primary email address for contact. |  | 1 |  |
| Organization/Contact Info/Name | Display name of primary contact. | "Joe Doe" | 1 |  |
| Organization/Contact Info/contactID | The Distributor's assigned contact UID. |  | 0 | Conditionally Required. |
| [Organization@organizationID](mailto:Organization@organizationID) | A Distributors unique ID for internal tracking . | OrgID:xxxx-xxxx-xxxx | 0 | Conditionally Required. |
| Organization@domain | The organization's domain name. NOTE: If domain is EIDRPartyID, organization must be a valid EIDR Party ID. | ISAN,TVG,AMG,IMDB,MUZE,TRIB,URI,EIDR,Grid, etc. | 1 |  |
| [Organization@role](mailto:Organization@role) | A mechanism to identify the role of the organization as it relates to the work. | Producer, Broadcaster, Distributor, Editor, Encoding, Post-Production, Licensor, Other | 1 | Distributor is required. |
| Organization/DisplayName | A company associated with the work, preferably a list of the producers, distributor or else the original commissioning broadcaster. |  | 1…n | Conditionally Required if the Organization ID is not provided. |
| Title/Class | A mechanism to classify the state of the title itself. | “release”, “regional”, “AKA”, “Working” or “Internal”. | 1 | Required |
| Title | The full title for a piece of content. | “Decision 2016 Election Special” | 1 | Required |
| Title120 | An abbreviation of the original release title in mixed case without trailing articles for display on OTT and EPG platforms. | “Decision 2016 Election Special” | 1 |  |
| Country of Origin | The country from which the work originates.   The country code format should be from the ISO 3166-1 alpha 2 codes (Wikipedia has an easy-to-access list here). Example: The country of origin for CRTC Recording productions is Canada, so the ISO 3166-1 alpha 2 code is CA. | "EN" | 1 | Required |
| Credits@role | Producer and Distributor are required.A name of cast or crew associated with the work.  Credits tell the identity and role of someone who contributed to a Series, Episode, OTO, or Story. For example: Directed by John Smith. Some Credit metadata may be known at the Acquisition stage, such as Producer and Director. However, a lot of the Credit metadata cannot be filled in for sure until the end of Production. Multiple Credits can be added to a piece of content. | Actor, Moderator,Analyst, Music Director,Anchor, Musician,Animal, Actor,Narrator,Animation, Panelist, Announcer, Performer,Appearing, Photographer, Art Director, etc | 1..n | Producer and Director are required |
| Credits@TalentId | The Distributor's assigned UID for the cast or crew prefaced by the Distributor's domain. | XXXX-XXXX-XXXX-XXXX-XXXX | 1..n | Conditionally Required. |
| Credits/Display Name | A name of cast or crew associated with the work.  Credits tell the identity and role of someone who contributed to a Series, Episode, OTO, or Story. For example: Directed by John Smith. Some Credit metadata may be known at the Acquisition stage, such as Producer and Director. However, a lot of the Credit metadata cannot be filled in for sure until the end of Production. Multiple Credits can be added to a piece of content. | "Name" | 2…n | Required if Contact ID is not provided. |
| Genre Primary | PBS's custom reporting mechism to manage similar topics. | "Children’s" | 1 | Required |
| Genre Secondary | Subject-matter attributes that describe the show. Used to drive recommendation engines on MSOs, OTT, and VOD. | "History","Drama" | 1…5 | Required |
| SynopsisShort | A short description of the nature of the work to assist discovery and manual de-duplication for display on OTT and EPG platforms. Not a plot synopsis. | Follow the Brass sisters into their kitchen to see how they cook up a cheeseburger dosa. | 1 | Required |
| SynopsisLong | Preferably 500 characters only. The plot of an episode. Additional information regarding the nature of the work to assist discovery and manual de-duplication. | Follow the Brass sisters as they tackle their burger bucket list, then "flirt" their way into an Indian kitchen to uncover the mystique of Indian dosa. After some careful experimentation in their home kitchen, they serve up a cheeseburger dosa. | 1 |  |
| Approximate Length | This value only represents the default Runtime for current and future performances and does not need to capture the HD Level for past Episodes.  If this value is set at the Series level, it determines the default Runtime for newly produced Episodes. This value only represents the Runtime for current and future Episodes and does not need to capture the HD Level for past Episodes. If the value of the Episode differs from this expected value, the actual value may be set at the Episode level. Otherwise, the default value is inherited from the Runtime field at the Series level. | "PT2SM" | 1 | Required |
| Episode Number | Where an episode fits in sequence (e.g., episode 1 is “1”). Start with 1. If it is the only one in the sequence, it is numbered 1. This is a strict ordering that may not necessarily correspond with the actual release number. For example, if a show issues with episodes represented in DistributionNumber as‘1’, ‘2’, ‘3a’, ‘3b’ and 4, the corresponding Episode Number will be ‘1’, ‘2’, ‘3’, ‘4’ and ‘5’. | “0101”, "1A", "1" | 1 | Required (see rules) |
| Distribution Number | Order of display.  Lower-numbered entries are displayed before higher-numbered entries. Entries without this element should be displayed after numbered entries.  Only required when Episode Referrent Type = Main, Pilot, Recut  For example, when two episode segments for cartoons are combined into a single episode title:  Each Episode segment in the same Season is numbered 1a, 1b, 2a, 2b, 2c, etc.  The Episode title representing the combined episode is numbered as: 1, 2, 3, etc. | “1”, "2", "3" | 1 | Required (see rules) |
| Language Secondary | This field lists the secondary languages, if any, used in the original production. | Refer to Language Primary. | 0…n |  |
| Language Primary@mode | “Audio” (Silent Series are “Visual”) |  | 1 | Required |
| Language Primary | Indicates the primary language spoken in the original production. | “en” | 1 | Required |
| Release Date | A date or four-digit year of the work's original release prefaced with the affected platform. | "domain:2003" "amazon:2015" "pbs.org:2017-10-24" | 1…n | Required |

## Compilation

This entity is an optional metadata wrapper to arrange an editorial curation of content for a special purpose, such as NOVA’s “Making Stuff” within NOVA Season 2011. The Compilation also supports Franchises groupings such as American Experience, American Masters, Empires, FRONTLINE, Great Performances, Independent Lens, Masterpiece, Masterpiece Mystery!, NATURE, NewsHour, NOVA, POV, Secrets of the Dead, This Old House

### Entity = pm:Compilation

Used to:  
- Grouping a large body of work (e.g. Summer of Adventure, PBS Arts Fall Festival, PBS Arts Festival, Think Wednesdays)  
- Aggregating an anthology Series (e.g. American Experience, American Masters, Empires, FRONTLINE, Great Performances, Independent Lens, Masterpiece, Masterpiece Mystery!, NATURE, NewsHour, NOVA, POV, Secrets of the Dead, This Old House)

### Elements = pm:Compilation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element Name** | **Input Guidelines** | **Examples:** | **Cardinality** | **Obligation** |
| Structural Type | A compilation can only compile objects with the same structural type. | Abstraction, Performance, or Digital | 1 | Required |
| Referent Type | Always "Compilation". | "Compilation" | 1 | Required |
| UID | An organization's GUID (global unique identifier) for internal tracking purposes. | "cid:org:Domain:XXXX-XXXX-XXXX-XXXX-XXXX" "cid:org:pbs.org:SummerofAdventure" | 1 | Required |
| Entry/Content Identifier | Maps to UIDs or EIDR IDs compiled in this collection. A compilation can only compile objects with the same structural type. A compilation may not point to another compilation. | XXXX-XXXX-XXXX-XXXX-XXXX | 1 | Required |
| Entry@EntryNumber | Indicates the position of this entry within the Compilation. The format matches that of an EIDR Episode Distribution Number. | 1 | 0….1 | Required |
| Entry@Class | Describes the association of the contents of a compilation. | Episode, Installment, Part, Season | 0….1 | Required |
| Release Date | A date or four-digit year of the work's original release prefaced with the affected platform. | "2017-10-24", "yyyy" | 1 | Required |
| Title | The full title to describe the relationship between entries. | Summer of Adventure | 0…n | Required |
| Compilation Class | A grouping mechanism for administrative or organizational convenience that did not actually exist in original presentation. | Blu-ray, Digital Cinema, Distribution Bundle, DVD, EST, Franchise, Home Entertainment, Syndication, Series, Season:Recut, Season:Pro-Forma, Season:Mini-Series, Other | 1 | Required |

## Manifestation Metadata

A Manifestation is a version of an Episode or OTO created for a specific purpose or time. It is created during Production and does not undergo the entire Content Lifecycle.

### Manifestation Metadata in the Content Lifecycle

The metadata for a Manifestation should be defined during the Production stage and before the beginning of the Distribution stage.

### Entity = pm:Manifestation

### Elements = pm:Manifestation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element Name** | **Input Guidelines** | **Examples:** | **Cardinality** | **Obligation** |
| Referent Type | Describes the abstract nature of the content of a referent irrespective of its structuralType. Cannot be be inherited and must be self-defined. | TV, Movie, Web, Short, or Supplemental | 1 |  |
| Parent ID | Maps the Manifestation back to another Manifestation, Episode, or Supplemental object (such as a Series Sell Promo) | Manifestation UID or Episode UID | 1 | Required |
| Content Identifier | Content Identifiers provide a means by which to locate an asset across platforms. <type> is the type of identifier.  <domain> is the organization domain name. <category> additional naming to provide context within the scope of ID usage. (optional to include) <ID> (domain specific ID) is a string that corresponds with the domain. | "cid:Amazon:JDJKSH-SJSHJJJ","cid:HULU:IKKEKKE-JSJSJS14223" "cid:org:pbs.org:EditUID:xxx-xxx" "cid:org:pbs.org:PackageType:HD-Base" "cid:org:pbs.org:PackageNumber:P123456-002" | 0…n |  |
| UID | An organization's GUID (global unique identifier) for internal tracking purposes. | XXXX-XXXX-XXXX-XXXX-XXXX | 1 | Required |
| UseWindow/Term | A mechanism to manage embargo. | "2017-10-10T14:22:15Z":"2017-12-10T14:22:15Z" | 1…n | Required |
| Manifestation Class | Describes usage. | Version Language,VOD,EST,Game Machine,Mobile,Web,Master,Mezzanine,Proxy,Screener,DVD,Blu-ray,HD,SD,UHD,Other | 1…8 | Required |
| Edit/Class | Describes the state of a storyline. Specifically used track differentiation between edits of the storyline. This does not consider extraneous media insertions, such as proEMM, within storylines. | Original, Unrated, Sanitized, Sanitized Audio, Sanitized Picture, Extended, Shortened, Rereleased, Product Placement, Other | 0…8 |  |
| Edit/Use | The original, primary, intended use of the storyline. This does not consider extraneous media that surrounds such as funders. | Theatrical, Broadcast, Home Video, Hospitality, Web, General, Unknown | 1 |  |
| Release Date | A date or four-digit year of the work's original release prefaced with the affected platform. | "2017-10-24", "yyyy" | 1 | Required |
| Actual Length | The frame-accurate length of a performance.  Example: 01:27:59;05 | "PT25M54S130Z" | 1 |  |
| Title | Describes a particular distributable instantiation of a work. | “Mercy Street” | 1 | Required |
| Audio/Language/ClosedCaption | If the combined metadata for the manifest includes closed captioning, indicate the language of the captions. | “en” | 1 |  |
| Video/V-Chip | Use as a Rating and Reason concatenation. If none, use UNRATED. | "TV-PG-V" | 1 | Required |

## File

The physical renderings of a Manifestation.

### File Metadata in the Content Lifecycle

The metadata for a File can be defined during the Production stage and before the beginning of the Distribution stage.

### Entity = pm:File

### Elements = pm:File

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Element Name** | **Input Guidelines** | **Examples:** | **Cardinality** | **Obligation** |
| Parent ID | Maps the file back to a Manifestation. | Manifestation UID | 1 | Required |
| File Name | Filename on media. Full path if appropriate | “P450616-005-1NRHD.mxf” |  |  |
| Asset Class | A category to describe the contents of a file. | manifest, metadata, media, avail, ancillary | 1 | Required |
| Asset UID | An organization's GUID (global unique identifier) for internal tracking purposes. | apid:org:Domain:XXXX-XXXX-XXXX-XXXX-XXXX | 1 | Required |

# Data Dictionary

| **Element Name** | **Element Category** | **Input Guidelines** | **Examples:** |
| --- | --- | --- | --- |
| Actual Length | Functional | The frame-accurate length of a performance.  Example: 01:27:59;05 | 01:27:59;05 |
| Approximate Length | Functional | This value only represents the default Runtime for current and future performances and does not need to capture the HD Level for past Episodes.  If this value is set at the Series level, it determines the default Runtime for newly produced Episodes. This value only represents the Runtime for current and future Episodes and does not need to capture the HD Level for past Episodes. If the value of the Episode differs from this expected value, the actual value may be set at the Episode level. Otherwise, the default value is inherited from the Runtime field at the Series level. | Downton Abbey runs 60 minutes, so Length=60. |
| Asset UID | Administrative | An organization's GUID (global unique identifier) for internal tracking purposes. | apid:XXXX-XXXX-XXXX-XXXX-XXXX |
| Asset Class | Administrative | A category to describe the contents of a file. | manifest, metadata, media, avail, ancillary |
| Audio/Language/ClosedCaption | Technical | If the combined metadata for the manifest includes closed captioning, indicate the language of the captions. | “en” |
| Compilation |  | A collection of multiple whole works, such as an Ultraviolet bundle, DVD with multiple works, a franchise, etc. It serves the purpose of an optional super container for special circumstances, such as the following: Grouping a large body of work (e.g. Ken Burns Collection) Aggregating content for an anthology Series (e.g. Masterpiece) |  |
| Compilation Class | Functional | A grouping mechanism for administrative or organizational convenience that did not actually exist in original presentation. | Blu-ray, Digital Cinema, Distribution Bundle, DVD, EST, Franchise, Home Entertainment, Syndication, Series, Season:Recut, Season:Pro-Forma, Season:Mini-Series, Other |
| Compilation Structural Type | Functional | A compilation can only compile objects with the same structural type. | Abstraction, Performance, or Digital |
| Compilation Title | Functional | The full title to describe the relationship between entries. | Summer of Adventure |
| Content Identifier | Administrative | Content Identifiers provide a means by which to locate an asset across platforms. <type> is the type of identifier.  <domain> is the organization domain name. <category> additional naming to provide context within the scope of ID usage. (optional to include) <ID> (domain specific ID) is a string that corresponds with the domain. | "cid:Amazon:JDJKSH-SJSHJJJ","cid:HULU:IKKEKKE-JSJSJS14223" "cid:org:pbs.org:NOLARoot:NOVA" "cid:EIDR:xxxx-xxxx-xxxx" "cid:org:pbs.org:PackageType:HD-Base" "cid:org:pbs.org:PackageNumber:P123456-002" "cid:org:pbs.org:EditUID:xxx-xxx" |
| Country of Origin | Descriptive | The country from which the work originates.   The country code format should be from the ISO 3166-1 alpha 2 codes (Wikipedia has an easy-to-access list here). Example: The country of origin for CRTC Recording productions is Canada, so the ISO 3166-1 alpha 2 code is CA. | "EN" |
| Credits/Display Name | Descriptive | A name of cast or crew associated with the work.  Credits tell the identity and role of someone who contributed to a Series, Episode, OTO, or Story. For example: Directed by John Smith. Some Credit metadata may be known at the Acquisition stage, such as Producer and Director. However, a lot of the Credit metadata cannot be filled in for sure until the end of Production. Multiple Credits can be added to a piece of content. | "Joe Doe" |
| Credits@role | Administrative | A mechanism to identify the role of the cast or crew as it relates to the work. | Actor, Moderator,Analyst, Music Director,Anchor, Musician,Animal, Actor,Narrator,Animation, Panelist, Announcer, Performer,Appearing, Photographer, Art Director, etc |
| Credits@TalentId | Descriptive | The Distributor's assigned UID for the cast or crew prefaced by the Distributor's domain. | pbs:xxx-xxx-xxx |
| Distribution Number | Functional | Order of display.  Lower-numbered entries are displayed before higher-numbered entries. Entries without this element should be displayed after numbered entries.  Only required when Episode Referrent Type = Main, Pilot, Recut  For example, when two episode segments for cartoons are combined into a single episode title:  Each Episode segment in the same Season is numbered 1a, 1b, 2a, 2b, 2c, etc.  The Episode title representing the combined episode is numbered as: 1, 2, 3, etc. | “1”, "2", "3" |
| Edit/Class | Functional | Describes the state of a storyline. Specifically used track differentiation between edits of the storyline. This does not consider extraneous media insertions, such as proEMM, within storylines. | Original, Unrated, Sanitized, Sanitized Audio, Sanitized Picture, Extended, Shortened, Rereleased, Product Placement, Other |
| Edit/Use | Functional | The original, primary, intended use of the storyline. This does not consider extraneous media that surrounds such as funders. | Theatrical, Broadcast, Home Video, Hospitality, Web, General, Unknown |
| EIDR ID | Administrative | A GUID provided by EIDR for a work or data object. | cid:EIDR:10.5240%2fF592-58D1-A4D9-E968-5435-L |
| Entry | Administrative | A mechanism to represent a work that is a combination of multiple works. |  |
| Entry/Content Identifier | Functional | Maps to UIDs or EIDR IDs compiled in this collection. A compilation can only compile objects with the same structural type. A compilation may not point to another compilation. |  |
| Entry@Class | Functional | Describes the association of the contents of a compilation. | Episode, Installment, Part, Season |
| Entry@EntryNumber | Functional | Indicates the position of this entry within the Compilation. The format matches that of an EIDR Episode Distribution Number. |  |
| Episode Class | Functional | Describes the general type of Episode. Main. EMMt common selection. Pilot. Describes the first distributed show. One Time Only. Describes specials created outside of the regular series' shows. Standalone. Describes a movie or show not related to other works such as a series. Recut. Describes stacked shows or shows where there storyline is edited. Segment. Describes segments within a show, such as a cartoon. | Main, Pilot, Standalone, Special, Omnibus, Recut, Segment |
| Episode Number | Functional | Where an episode fits in sequence (e.g., episode 1 is “1”). Start with 1. If it is the only one in the sequence, it is numbered 1. This is a strict ordering that may not necessarily correspond with the actual release number. For example, if a show issues with episodes represented in DistributionNumber as‘1’, ‘2’, ‘3a’, ‘3b’ and 4, the corresponding Episode Number will be ‘1’, ‘2’, ‘3’, ‘4’ and ‘5’. | “0101”, "1A", "1" |
| Episode Title Class | Functional | Describes the state of the full title. | “release”, “regional”, “AKA”, “Working” or “Internal”. |
| File Name | Administrative | Physical file. The filename of an asset. Full path if appropriate. | “P450616-005-1NRHD.mxf” |
| First Satellite Feed Date | Functional | The date and time the Distributor releases the performance to its constiuents via a satellite feed. | "2017-10-10T14:22:15Z" |
| Genre Primary | Descriptive | PBS's custom reporting mechism to manage similar topics. | "Children’s" |
| Genre Secondary | Descriptive | Subject-matter attributes that describe the show. Used to drive recommendation engines on MSOs, OTT, and VOD. | "History","Drama" |
| Language Primary | Functional | Indicates the primary language spoken in the original work. | œ en (English) œ sp (Spanish) œ de (German) œ fr (French) œ ja (Japanese) |
| Language Primary@mode | Functional | An EIDR concept. If AudioVisual, ReleaseDate must be after 1893; if Visual, "mode" attribute of OriginalLanguage or VersionLanguage must not be Audio. | Audio, Visual, AudioVisual |
| Language Secondary | Functional | This field lists the secondary languages, if any, used in the original production. | Refer to Language Primary. |
| Manifestation Class | Functional | Describes the distributable work. | Version Language,VOD,EST,Game Machine,Mobile,Web,Master,Mezzanine,Proxy,Screener,DVD,Blu-ray,HD,SD,UHD,Other |
| Manifestation Title | Functional | Describes a particular distributable instantiation of a work. | “Mercy Street” |
| Organization/Contact Info/Address | Administrative | The physical address of the Organization’s headquarters. | 123 Oak Street, Wellington, OH 12345 |
| Organization/Contact Info/contactUID | Administrative | The Distributor's assigned contact UID. | xxx-xxx-xxx |
| Organization/Contact Info/Name | Administrative | Display name of primary contact. | John Smith |
| Organization/Contact Info/Phone | Administrative | The best phone number to reach the Contact or Organization. | +14155552671 |
| Organization/Contact Info/Phone@Type | Administrative | A mechanism to identify a number's utility. | Main, Mobile, Fax, Other, Office |
| Organization/Contact Info/PrimaryEmail | Administrative | Primary email address for contact. | johnsmith@email.com |
| Organization/DisplayName | Administrative | A company associated with the work, preferably a list of the producers, distributor or else the original commissioning broadcaster. | National Education Television Association, American Public Television, Public Broadcasting System |
| Organization@domain | Administrative | The organization's domain name. NOTE: If domain is EIDRPartyID, organization must be a valid EIDR Party ID. | NETA,APT,PBS,ISAN,TVG,AMG,IMDB,MUZE,TRIB,URI,EIDRPartyID,Grid, etc. |
| Organization@organizationUID | Administrative | A Distributors unique ID for internal tracking . | xxx-xxx-xxx |
| Organization@role | Administrative | A mechanism to identify the role of the organization as it relates to the work. | Producer, Broadcaster, Distributor, Editor, Encoding, Post-Production, Licensor, Other |
| Package Domain | Administrative | See content identifier. | cid:org:pbs.org:PackageNumber:P123456-002 |
| Package ID | Administrative | See content identifier. | cid:org:pbs.org:PackageNumber:P123456-002 |
| Package Number | Administrative | See content identifier. | cid:org:pbs.org:PackageNumber:P123456-002 |
| Package Revision Number | Administrative | See content identifier. | cid:org:pbs.org:PackageNumber:P123456-002 |
| Package Type | Administrative | See content identifier. | cid:org:pbs.org:PackageType:HD-Base |
| Parent ID | Structural | An organization's GUID (global unique identifier) for a work to create parent/child relationships between data objects. | "XXXX-XXXX-XXXX-XXXX-XXXX" |
| Referent Type | Structural | A mechanism to identify the record's place within an organization's data object model. | Series, Season, TV, Movie, Web, Short, or Supplemental |
| Release Date | Functional | A date or four-digit year of the work's original release prefaced with the affected platform. | "broadcast:2003" "amazon:2015" "web:2017-10-24" |
| Season Class | Functional | Describes the original release Season.  Main. EMMt common selection. Adjunct. Used when distinct segments or episodes are combined into a presentation offered outside of the original season. | Main, Adjunct |
| Season Title | Functional | To differentiate - for example 'season 1' - across programs, Distributor's use a season title to make their seasons unique. | [Series Title] + “Season” + [Season Number]  "Arthur Season 1" |
| Sequence Number | Functional | A flexible, but mainly numeric, representation of the sequence of release within a set or season as used in distribution. Allows non-numeric values such as '3a' and '1.2'. | 9, 3a, 1.2 |
| Series Class | Functional | Describes the general type of Series. EMMt Series are Episodic, which is assumed if no Series Class is provided. | Episodic, Anthology, Mini-series |
| Series Title | Functional | The Series’ original release title in mixed case without trailing articles. For EMMt programs, the Series is the name of the program and contains multiple Seasons that run for several Episodes. Examples of a Series include NOVA, Nature, PBS Newshour. A Series can be part of a Collection in association with another Series or an One Time Only show. | Episodic, Anthology, Mini-series |
| Structural Type | Structural | A mechanism to identify the record structure (or required fields) dependant on the work it represents (Abstraction, Performance, or Digital). | Abstraction, Performance, or Digital |
| SynopsisShort | Descriptive | A short description of the nature of the work to assist discovery and manual de-duplication for display on OTT and EPG platforms. Not a plot synopsis. | Romeo and Juliet are teenagers who fall in love despite their families hate and leads to their doom. |
| SynopsisLong | Descriptive | Preferably 500 characters only. The plot of an episode. Additional information regarding the nature of the work to assist discovery and manual de-duplication. | William Shakespeare's Romeo and Juliet is a beloved play that is 400 years old, and is the EMMt popular of this man's works. The play opens with a throwback to the ancient Greek choruses, where the actor(s) bring the audience into the action of the play by telling it everything that has come before the action begins, a form of exposition. The first scene is a fight in the street between to two factions, the Capulets and the Montagues, and here is its we are introduced to Romeo, of late unhappy that his romance with Rosaline has gone sour. Here he meets with his friends, Benvolio (a kinsman) and Mercutio (best friend, and cousin to the Count) |
| Title | Descriptive | The original release title in mixed case without trailing articles. | “Mercy Street”, "Summer of Adventure" |
| Title/Class | Administrative | A mechanism to classify the state of the title itself. | “release”, “regional”, “AKA”, “Working” or “Internal”. |
| Title/Language | Administrative | The language of the title. | e.g., en |
| Title120 | Descriptive | An abbreviation of the original release title in mixed case without trailing articles for display on OTT and EPG platforms. | “Decision 2016 Election Special” |
| UID | Administrative | An organization's GUID (global unique identifier) for internal tracking purposes. | "XXXX-XXXX-XXXX-XXXX-XXXX" |
| UseWindow | Functional | A mechanism to manage embargo. | "2017-10-10T14:22:15Z" |
| Video/V-Chip | Technical | Use as a Rating and Reason concatenation. If none, use UNRATED. | "TV-PG-V" |

# Figure 1. Required fields within the Data Model

