ECP-2007-DILI-517006

EFG – The European Film Gateway

Common interoperability schema for archival resources and filmographic descriptions

Report on the common interoperability schema

Deliverable number	*D 2.2*
Dissemination level	*Public*
Delivery date	*24 June 2009 (first public release)*
Status	***Version 3.2.4 (built 10-05-2011)***
Authors	*Franca Debole (CNR - ISTI), Pasquale Savino (CNR - ISTI), Detlev Balzer (for DIF) with contributions by Marco Rendina (for IL), Go Sugimoto, (EDL), Georg Eckes (DIF), Francesca Schulze (DIF)*

1 Introduction

This deliverable describes the common interoperability schema developed for EFG. The schema allows to consolidate the data held in the various heterogeneous source databases of the EFG content providers in a common format. A first draft outline of the schema had been established in the beginning of March 2009. Since then it has been refined in a series of meetings and telephone conferences. Mainly involved in the establishment of the finalised version were Consiglio Nazionale delle Ricerche – Istituto di Scienza e Tecnologie dell'Informazione (CNR-ISTI), Deutsches Filminstitut – DIF (DIF), Istituto Luce (IL) and Europeana (EDL). An advanced draft version has been presented to the project partners during the WG 3 workshop carried out in Copenhagen from 11 to 13 May 2009. On the basis of the discussion held in Copenhagen the data model has then been finalised. It was circulated to all content providers before the end of June 2009. As defined in the DOW (M2.9 "Evaluation and approval of EFG interoperability by EDL"), evaluation and approval of the existing EFG metadata schema by the Europeana interoperability staff was received in July. Part of the metadata schema described in this deliverable is an XML expression of the same, which was firstly released in July 2007. Following the work on the EFG metadata schema, the mapping from the EFG to the Europeana format ESE[1] was carried out in December 2009.

This deliverable is divided into five chapters. Chapter 2 gives a general overview of the EFG metadata model, while Chapter 3 introduces the major entities. Chapter 4 focuses on common elements that are applied within more than one entity of the EFG metadata model. Finally, Chapter 5 describes the relationships that can exist between the various entities.

---

[1] Europeana Semantic Elements version 3.2

2 Preliminary remarks to the EFG metadata model

The EFG data model described in this deliverable is composed of eight major entities. Entities are defined as the topmost level of description that can have relationships to other entities. In order to describe objects, the EFG metadata model basically distinguishes between three levels: Creation, Manifestation and Item. "Creation" is the topmost level of description and basically refers to the concept of Cinematographic Work as defined in the EN 15907 reference model. Other reference models have been used, such as the FRBR (concepts: Work / Expression) as well as the concept of WPE (Work / Primary Expression) as defined by the OLAC[2]. A creation in EFG can be either an audiovisual work (represented in the "AVCreation" entity) or a non-audiovisual work (represented in the "NonAVCreation" entity). This applies also to the "Manifestation" level which is represented in the entities "AVManifestation" and "NonAVManifestation". The "Item" entity functions as a logical wrapper for the digital file presented in the EFG portal. Moreover, "Agents", "Event" and "Collection" also have entity status.

Each major entity of the schema comes with elements, attributes and relationships. A thorough introduction of these is done in chapter 3. Simple elements are defined redundantly while common elements are defined in a separate chapter. Common elements, in contrast to regular elements, can occur as part of more than one major entity. Moreover, the description of the metadata model includes proposals for value spaces that can be controlled either through vocabularies or syntax definitions.

The last chapter provides details about the relationships that can occur between entities. Relationships can have a type attribute for values that define the semantics of the relationship. These values will be taken from controlled vocabularies which specify a forward and inverse form of the relationship, and possible restrictions depending on the classes of entities for which the relationship is valid. The vocabularies for the relationship type attributes were defined within Work Package 3.

The EFG metadata model applies existing metadata standards and schemas as well as reference models from the audiovisual and digital library sector. These are:

- prEN 15907, Film identification – Enhancing interoperability of metadata – Elements sets and structures[3] (EN_15907_2009-12-14-1 STD Version 2.3).
- Europeana Semantic Elements specifications. V3.2 Date: 07.08.2009. – URL: http://version1.europeana.eu/c/document_library/get_file?uuid=104614b7-1ef3-4313-9578-59da844e732f&groupId=10602

---

[2] Online Audiovisual Cataloguers
[3] Final draft of the standard. Further information: http://www.filmstandards.org.

- IFLA: Functional Requirements for Bibliographic Records. Corrected version of 2009. – URL: http://www.ifla.org/en/publications/functional-requirements-for-bibliographic-records
- Moving Image Work-Level Records Task Force (Online Audiovisual Cataloguers): Report and Recommendations for Moving Image Works. – URL: http://www.olacinc.org/drupal/?q=node/27. – Cited: 16.06.2009.
- Encoded Archival Context (EAC). – URLs: http://jefferson.village.virginia.edu/eac/; http://jefferson.village.virginia.edu/eac/. – Cited: 16.06.2009

Moreover, this documentation provides references to the vocabulary sources applied for the respective element. Amongst others, the following standards were used to define controlled vocabularies or syntactic rules for EFG value spaces:

- ISO 639-1:2002 Codes for the representation of names of languages - Part 1: Alpha 2 code
- ISO 639-2:1998 Codes for the representation of names of languages - Part 2: Alpha 3 code
- ISO 3166-1: Codes for the representation of names of countries and their subdivisions. - Part 1: Country codes
- ISO-3166-2: Codes for the representation of names of countries and their subdivisions – Part 2: Country subdivision code
- ISO 8601:2004 Data elements and interchange formats - Information interchange - Representation of dates and times.
- Library of Congress: MARC Code List for Countries. Date: April 2008 – URL: http://www.loc.gov/marc/countries/cou_home.html
- ISO 15511:2003 Information and documentation – International Standard Identifier for Libraries and Related Organisations (ISIL)
- Internet Media Types (MIME). - http://www.iana.org/assignments/media-types

The entire documentation of the semantic and syntactic rules applied in EFG is available as Milestone 3.2 "Semantic & Syntactic Interoperability Rules". This report can be found in the members´ area of the EFG project website[4].

At the core, the EFG data model is an entity relationship model, although it applies some parts from an RDF[5] logic namely semantically defined types for relationships (see chapter 5). This entity-relationship view is illustrated in figure 1 below which provides an overview of all major entities and the relationships between them. For relationships, the cardinalities are given in a notation that is explained in figure 2. The model implies that all many-to-many relationships are bi-directional, i.e. that they can have distinct meanings in each direction.

---

[4] http://www.europeanfilmgateway.eu/members/members-workpackage_3.php
[5] Resource Description Framework
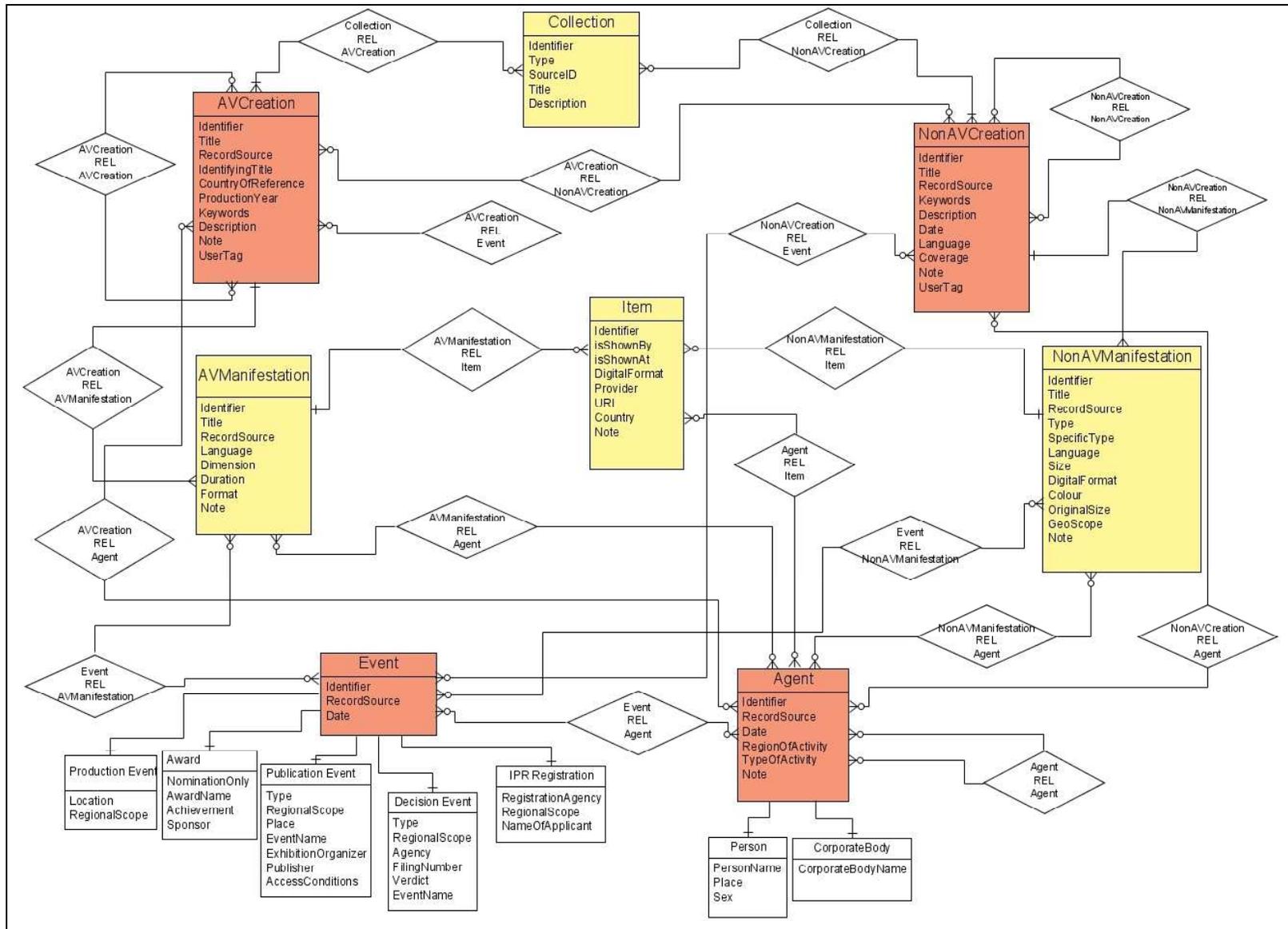
Figure 1: Entities and relationships of the EFG metadata model
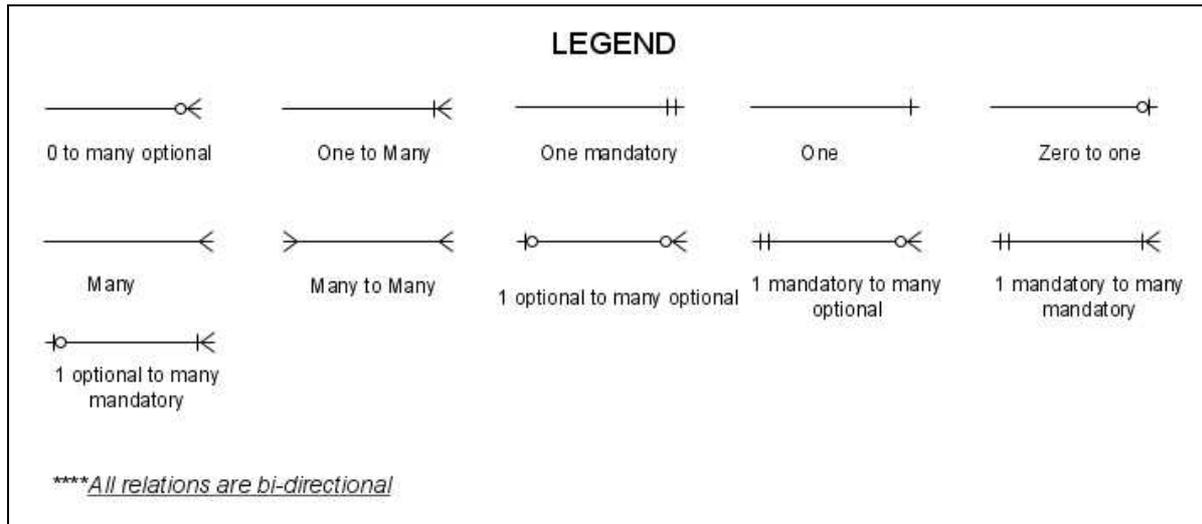
Figure 2: Cardinalities of relationships

For a better understanding of the metadata schema documentation provided hereafter, a short definition of the used terms is given:

- **Entity**: A conceptual unit defining a focus of description. Entities can enter relationships with other entities. An entity can have attributes and can be composed of elements.

- **Element**: A semantic unit that is a major property of one or more entities. An element can have attributes.

- **Attribute**: A named property, of elements and/or relationships, whose value domain can be restricted by a data type. An attribute usually consists of a name and a value.

- **Relation**: A relation is a property that associates an entity to another entity. A relation can have attributes.

- **Cardinality**: The number of times an instance of a relationship is permitted. An element with the cardinality status zero is optional. A relationship with the status one or more is mandatory.

- **Occurrences**: The number of times an instance of an element can exist (zero, one or more). An element with the occurrence status zero is optional. An element with the status one or more is mandatory.

3 Entities

For each entity listed here, a list of elements and attributes is supplied. For some of these, proposals for value spaces are given, either through controlled vocabulary or through syntax definitions. The number of occurrences, the entity's status as well as their allowed relationships are indicated in all cases. It should be noted, that some occurrences can be subject to revision.

3.1 AVCreation

This entity refers to the concept of cinematographic work as defined in prEN 15907:2009 clause 4.1. An audiovisual creation should only have properties that remain constant throughout all of its manifestations.

3.1.1   Elements

- **Identifier** (described in *4.1* Identifier)
  Identifier of the audiovisual creation that will be automatically generated by the EFG database.
  Status: Mandatory; Occurrences: 1

- **Title** (described in *4.2* Title)
  Status: Mandatory; Occurrences: 1..n

- **Record Source** (described in *4.3* Record Source)
  Status: Mandatory: Occurrences: 1..n

- **Identifying Title**
  A short phrase for identifying the audiovisual creation, to be used e.g. in human-readable result lists from database queries. The identifying title should not be constructed by a cataloguer according to cataloguing rules but algorithmically during the metadata conversion process for EFG. This element was modelled by using prEN 15907:2009 clause 6.4.
  Status: Mandatory; Occurrences: 1

  Attribute:
  - Origin
    Acronym or other identifier indicating the origin of the element content. For identifying titles created automatically, this should be the name and version of the software agent.
    Status: Optional

- **Country of Reference**

  The geographic origin of a audiovisual creation. This should be the country or countries where the production facilities are located. If production information is missing, this element can refer to countries where the audiovisual creation was filmed or distributed, or where copies are known to exist in archives.

  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:Regions_LocallyDefined)

  Status: Mandatory; Occurrences: 1..n

  Attribute:

  - Reference

    The relationship between a geographic area and the audiovisual creation. Defaults to "production", use of this attribute is only required if the point of reference is different from the country of production.

    Value space: controlled vocabulary (efg:CountryReference)

- **Production Year**

  The year associated with the production of the audiovisual creation. A typical use of this element is the chronological ordering of AVCreations.

  Status: Mandatory; Occurrences: 1..n

  Attribute:

  - derived from

    If this attribute is empty or omitted, then it is assumed that the "Production Year" has been validated as a real production year. Otherwise, it may contain a textual string which specifies how it has been derived (e.g. inferred from censorship).

    Value space: free text

- **Keywords** (described in *4.5* Keywords)

  Status: Optional; Occurrences: 0..n

- **Description** (described in *4.6* Description)

  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)

  Status: Optional; Occurrences: 0..n

- **User Tag** (described in 4.7 User Tag*)*

  This is a tag created by the user through the EFG interface.

  Status: Optional; Occurrences: 0..n

- **ViewFilmography**

  An unambiguous URL reference to the full filmographic entry of a film on the content provider web site.

  Status: Optional, Occurrences: 0..n

3.1.2 Allowed Relationships

- AVCreationRELAgent (described in *5.1 AVCreation REL Agent ; NonAVCreation REL Agent; AVManifestation REL Agent ; NonAVManifestation REL Agent*)

- AVCreationRELEvent (described in *5.7 AVCreation REL Event; NonAVCreation REL Event*)

- AVCreationRELAVManifestation (described in *5.8 AVCreation REL AVManifestation; NonAVCreation REL NonAVManifestation*)

- AVCreationRELAVCreation (described in *5.2 AVCreation REL AVCreation*)

- AVCreationRELNonAVCreation(described in *5.6 AVCreation REL NonAVCreation*)

- CollectionRELAVCreation (described in *5.9 Collection REL AVCreation; Collection REL NonAVCreation*)

3.2 AVManifestation

This entity groups all properties that can change during the lifecycle of an audiovisual creation without affecting the identity of a film work as such. A manifestation is the physical embodiment of an audiovisual creation. Examples are archival copies (analogue or digital) or distribution files. This entity was modelled by using the pr:EN 15907:2009 clause 4.3.

3.2.1 Elements

- **Identifier** (described in *4.1* Identifier)

  Identifier of the audiovisual manifestation that will be automatically generated by the EFG database.

  Status: Mandatory; Occurrences: 1

- **Title** (described in *4.2* Title)

  Status: Optional; Occurrences: 0..n

- **Record Source** (described in *4.3* Record Source)

  Status: Mandatory; Occurrences: 1..n

- **Language**
  The language of the spoken, sung or written content.
  Value space: controlled vocabulary (efg:Iso639-1LanguageCS, efg:Iso639-2LanguageCS)
  Status: Optional; Occurrences: 0..n

  Attribute:

  - Language usage
    This indicates the relationship between the language and the manifestation. Defaults to "unspecified".
    Value space: controlled vocabulary (efg:LanguagePurposeCodeCS)

- **Dimension**
  The total physical dimension of the manifestation represented as numeric value, with decimal places if required. For example, if the carrier type is a DVD, it represents the DVD size. If the carrier type is a file, it represents the size in bytes, etc.
  Status: Optional; Occurrences: 0..n

  Attributes:

  - unit
    Value space: controlled vocabulary (efg:DimenionUnitCS)
  - reference
    If the manifestation is composed of more than one physical carrier for which individual lengths are known, then this attribute should be used to refer the length information to a particular carrier (e.g. "reel 3").
    Value space: text

- **Duration**
  The running time of the audiovisual manifestation measured in minutes and seconds.
  Status: Optional; Occurrences: 0..1

  Attribute:

  - frame rate
    Optional value for the projection speed, given in frames per second, to which the given duration refers.
    Value space: text

- **Coverage**
  The spatial or temporal topic of the audiovisual manifestation.
  Status: Optional; Occurrences: 0..n

Attributes:

- spatial

  This may be a named place, a location, a spatial coordinate or a named administrative entity.

  Value space: text

- temporal

  This may be a period, date or range date.

  Value space: text or controlled syntax (ISO 8601 in form of YYYY-MM-DD)

- **Format** (described in *4.4* Format)

  Status: Optional; Occurrences: 0..1

- **Rights Holder**

  Name of the copyright holder.

  Value space: text

  Status: Optional; Occurrences: 0..n

  Attribute:

  - URL

    If available, URL to the homepage of the copyright holder.

    Value space: text

    Status: Optional; Occurrences: 0..n

- **Rights Status**

  Specifies the copyright status of the digital object the provider submits to EFG.

  Value space: Controlled vocabulary (efg:Rightsstatus)

  Status: Optional; Occurrences: 0..n

- **Provenance**

  Organisation which owns or has custody of the item (analogue or born digital).

  Value space: text

  Status: Optional; Occurrences: 0..1

- **Thumbnail**

  Link to the reduced-size image of the Manifestation.

  Value space: text (link or "n/a")

  Status: Mandatory; Occurrences: 1

- **Note** (described in *4.8* Note)

  Status: Optional; Occurrences: 0..n

3.2.2 Allowed relationships

- EventRELAVManifestation (described in *5.12 Event REL AVManifestation; Event REL NonAVManifestation*)
- AVManifestationRELItem (described in *5.10* AVManifestation REL Item; NonAVManifestation REL Item)
- AVManifestationRELAgent (described in *5.11 AVManifestation REL Agent; NonAVManifestation REL Agent*)
- AVCreationRELAVManifestation (described in *5.8 AVCreation REL AVManifestation; NonAVCreation REL NonAVManifestation*)

3.3 NonAVCreation

Non-audiovisual creations in EFG can be pictures, photos, correspondence, books or periodicals. The descriptions of NonAVCreations and their associated manifestations follow an early version of the Europeana Semantic Elements specification. For the data exchange with the Europeana system mappings to the current ESE version will be constructed. Digital representations of non-film works available for viewing are accommodated in an associated instance of the item entity.

3.3.1 Elements

- **Identifier** (described in *4.1* Identifier)
  In this context it is the identifier of the non-audiovisual creation.
  Status: Mandatory; Occurrences: 1

- **Title** (described in *4.2* Title)
  Status: Mandatory; Occurrences: 1..n

- **Record Source** (described in *4.3* Record Source)
  Status: Mandatory; Occurrences: 1..n

- **Keywords** (described in *4.5* Keywords)
  Status: Optional; Occurrences: 0..n

- **Description** (described in *4.6* Description)
  Status: Optional; Occurrences: 0..n

- **Date Created**

  The point or period of time associated with the creation of the non-audiovisual creation.

  Value space: syntax follows ISO 8601 ("YYYY-MM-DD" or "YYYY")

  Status: Optional; Occurrences: 0..n

- **Language**

  The language of the major verbal content of the document.

  Value space: controlled vocabulary (efg:Iso639-1LanguageCS, efg:Iso639-2LanguageCS)

  Status: Optional; Occurrences: 0..1

- **Note** (described in *4.8* Note)

  Status: Optional; Occurrences: 0..n

- **User Tag** (described in 4.7 User Tag)

  This is a tag created by the user through the EFG interface.

  Status: Optional; Occurrences: 0..n

3.3.2 <u>Allowed relationships</u>

- NonAVCreationRELAgent (described in *5.1 AVCreation REL Agent ; NonAVCreation REL Agent; AVManifestation REL Agent ; NonAVManifestation REL Agent*)
- NonAVCreationRELNonAVManifestation (described in *5.8 AVCreation REL AVManifestation; NonAVCreation REL NonAVManifestation*)
- NonAVCreationRELNonAVCreation (described in *5.3 NonAVCreation REL NonAVCreation*)
- NonAVCreationRELEvent (described in *5.7 AVCreation REL Event; NonAVCreation REL Event*)
- CollectionRELNonAVCreation (described in *5.9 Collection REL AVCreation; Collection REL NonAVCreation*)
- AVCreationRELNonAVCreation (described in *5.6 AVCreation REL NonAVCreation*)

3.4 NonAVManifestation

This entity has the function to keep track of copies made of non-audiovisual objects (e.g. a letter gets scanned and then copied, etc.).

3.4.1 **Elements**

- **Identifier** (described in *4.1* Identifier)
  In this context it is the identifier of the non-audiovisual manifestation.
  Status: Mandatory; Occurrences: 1

- **Title** (described in *4.2* Title)
  Status: Optional; Occurrences: 0..n

- **Record Source** (described in *4.3* Record Source)
  Status: Mandatory; Occurrences: 1..n

- **Type**
  The general type of the non-audiovisual manifestation.
  Value space: controlled vocabulary (efg:ObjectType)
  Status: Mandatory; Occurrences: 1

- **Specific Type**
  This element further specifies the type of the non-audiovisual manifestation. Here the document type should be indicated.
  Value space: controlled vocabulary (efg:SpecificType)
  Status: Mandatory; Occurrences: 1

- **Language**
  The language of the spoken, sung or written content.
  Value space: controlled vocabulary (efg:Iso639-1LanguageCS, efg:Iso639-2LanguageCS)
  Status: Optional; Occurrences: 0..n

  Attribute:
  - Language usage
    This indicates the relationship between the language and the manifestation. Defaults to "unspecified".
    Value space: controlled vocabulary (ebu:LanguagePurposeCodeCS.)

- **Date**

  A point or period of time associated with the issue of the non-audiovisual manifestation.

  Value space: syntax follows ISO 8601 ("YYYY-MM-DD" or "YYYY")

  Status: Optional; Occurrences: 0..n

  Attribute:

  - Type

    This attribute specifies the type of temporal properties.

    Value space: controlled vocabulary (efg:ObjectDateType)

- **Digital format**

  The digital format of the manifestation.

  Value Space: controlled vocabulary (MIME types, efg:FileFormatCS)

  Status: Optional; Occurrences: 0..1

  Attributes:

  - Status

    Specifies if the object is originally digital or derived from a physical object.

    Value space: controlled vocabulary (efg:ObjectStatus)

  - Size

    The dimensions of the digital object.

    Value space: value expressed in bytes

  - Resolution

    The degree of sharpness of the digital object.

    Value space: value expressed in lines or pixel

- **Physical format**

  The general format of the physical object (e.g. "DIN A4", "DIN A3").

  Value Space: text

  Status: Optional; Occurrences: 0..1

  Attribute:

  - Size

    The dimensions of the physical object.

    Value space: value expressed in the standard format width x height, in millimetres.

- **Colour**
  This element can be used to indicate the colour of a non-audiovisual object.
  Value space: controlled vocabulary (efg:colour)
  Status: Optional; Occurences: 0…1

- **Geographic scope**
  Indicates the country where the non-audiovisual object was used.
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:Regions_LocallyDefined)
  Status: Optional; Occurences: 0..n

- **Coverage**
  The spatial or temporal topic of the non-audiovisual manifestation.
  Status: Optional; Occurrences: 0..n

  Attributes:
  - spatial
    This may be a named place, a location, a spatial coordinate or a named administrative entity.
    Value space: text

  - temporal
    This may be a period, date or range date.
    Value space: text or controlled syntax (ISO 8601 in form of "YYYY-MM-DD")

- **Rights Holder**
  Name of the copyright holder.
  Value space: text
  Status: Optional; Occurrences: 0..n

  Attribute:
  - URL
    If available, URL to the homepage of the copyright holder.
    Value space: text
    Status: Optional; Occurrences: 0..n

- **Rights Status**
  Specifies the copyright status of the object the provider submits to EFG.
  Value space: Controlled vocabulary (efg:Rightsstatus)
  Status: Optional; Occurrences: 0..n

- **Provenance**
  Organisation which owns or has custody of the item (analogue or born digital).
  Value space: text
  Status: Optional; Occurrences: 0..1

- **Thumbnail**
  Link to the reduced-size image of the Manifestation.
  Value space: text (link or "unknown")
  Status: Mandatory; Occurrences: 1

- **Note** (described in *4.8* Note*)*
  Status: Optional; Occurrences: 0..n

3.4.2 Allowed relationships

- NonAVManifestationRELAgent (described in *5.11 AVManifestation REL Agent; NonAVManifestation REL Agent*)
- NonAVManifestationRELItem (described in *5.10 AVManifestation REL Item; NonAVManifestation REL Item*)
- NonAVCreationRELNonAVManifestation (described in *5.8 AVCreation REL AVManifestation; NonAVCreation REL NonAVManifestation*)
- EventRELNonAVManifestation (described in *5.12 Event REL AVManifestation; Event REL NonAVManifestation*)

3.5 Item

The item entity points to the digital file held in the source repository. Since the item is not a part of the EFG database the Item entity will always contain a reference to an outside resource, either for immediate viewing or for ordering from an archive or distributor. The item functions as a logical wrapper for the digital object displayed in EFG. This entity was modelled by using various elements from ESE version 3.2.

3.5.1 Attributes

- **HighQuality**
  This element indicates whether an item is appropriate for being highlighted through the EFG web portal. The Boolean value "Yes" means that the metadata related to an item fulfil a minimum set of requirements. Hence, the respective item will be added to a data pool of high-quality items in the EFG database. If no value is given the default is "No".
  Value space: Boolean Values ("Yes", "No")

3.5.2 <u>Elements</u>

- **Identifier** (described in *4.1* Identifier)
  Identifier of the item that will be automatically generated by the EFG database.
  Status: Mandatory; Occurrences: 1

- **isShownBy**
  An unambiguous URL reference to the digital object on the content provider's web site in its full best available resolution/quality. This element derives from ESE version 3.2 Europeana:IsShownBy.
  Status: Mandatory; Occurrences: 1

- **isShownAt**
  An unambiguous URL reference to the digital object on the content provider's web site in its full information context. This element derives from ESE version 3.2 Europeana:IsShownAt.
  Status: Mandatory; Occurrences: 1

- **Digital format**
  The file format of the viewing item.
  Value space: controlled vocabulary (efg:FileFormatCS. In particular cases, format parameters relative to the MIME type should be included: e.g. resolution, unusual codecs required for viewing, etc.)
  Status: Mandatory; Occurrences: 1

- **Provider**
  Name of the organisation that sends the data to EFG.
  Value space: controlled vocabulary
  Status: Mandatory; Occurrences: 1

- **Aggregator**
  Name of the online portal or IT system that delivers the data to EFG.
  Value space: controlled vocabulary (efg:AggregatorName)
  Status: Mandatory; Occurrences: 1

- **URI**
  An unambiguous URI to the resource within the EFG context. This is a record identifier for the object in the EFG system. It is created based on unique identifiers provided in the source metadata.
  Status: Optional; Occurrences: 0..n

- **Country**
  The name of the country in which the content provider is based.
  Value space: Controlled vocabulary (efg:Iso3166-1CountryCS)
  Status: Optional; Occurrences: 0..1

- **Type**
  Here again the object type should be indicated. This element derives from ESE version 3.2 Europeana:type.
  Value space: Controlled vocabulary (efg:ObjectType).
  Status: Optional; Occurrences: 0..1

- **Note** (described in *4.8* Note)
  Status: Optional; Occurrences: 0..n

3.5.3 Allowed relationships

- NonAVManifestationRELItem (described in *5.10 AVManifestation REL Item; NonAVManifestation REL Item*)
- AVManifestationRELItem (described in *5.10 AVManifestation REL Item; NonAVManifestation REL Item*)
- AgentRELItem (described in *5.5 Agent REL Item*)

3.6 Agent

Agent is defined as an entity that can perform any kind of action. The EFG metadata model defines three agent types: Person, Corporate Body and Group. As many content providers do not manage their agent data in authority files it is envisaged to store normalized and non-normalized agent metadata "side by side". For persons a common authority registry will be established. This entity uses various elements from the Encoded Archival Context tag library (beta version of 2004).

3.6.1 Person

- **Identifier** (described in *4.1* Identifier)
  In this context it is the person identifier in the EFG database.
  Status: Mandatory; Occurrences: 1

- **Record Source** (described in *4.3* Record Source)
  Status: Mandatory; Occurrences: 1..n

- **Name**
  A name by which the person is (or was) known.
  Status: Mandatory; Occurrences: 1..n

  Attributes:
  - Type
    This attribute specifies the type of the person name.
    Value space: type vocabulary (efg:PNameType)

  - Part
    A distinct part of a person's name.
    Value space: controlled vocabulary (efg:PNamePart)

  - Geographic scope
    Indicates the region in which a particular name was used by the person.
    Value space: free text

  - Temporal scope
    Time when the name was used by the person.
    Value space: Syntax follows ISO 8601 date range

- **Date**
  Temporal properties of the person relating to its existence and activity.
  Value space: syntax follows ISO 8601 ("YYYY-MM-DD" or "YYYY")
  Status: Optional; Occurrences: 0..n

  Attribute:
  - Type
    This attribute specifies the type of temporal properties.
    Value space: defined by EAC (efg:PDateType)

- **Region of Activity**
  A country from the geographic area in which the person is or was active.
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:Regions_LocallyDefined)
  Status: Optional; Occurrences: 0..1

- **Place**
  The places related to the person.
  Value space: text
  Status: Optional; Occurrences: 0..n

  Attribute:

  - Type
    This attribute specifies the type of place properties.
    Value space: defined by EAC (efg:PPlaceType)

- **Sex**
  The person´s sex.
  Value space: controlled vocabulary(efg:PSexType)
  Status: Mandatory; Occurrences: 1

- **Type of Activity**
  A film-related activity of the person, taken from relationship records or from secondary sources.
  Value space: Free text.
  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)
  Status: Optional; Occurrences: 0..n

- **ViewBiography**
  An unambiguous URL reference to the full filmographic entry of the person on one or more content providers websites.
  Value space: text
  Status: Optional, Occurrences: 0..n

3.6.2 <u>Corporate Body</u>

- **Identifier** (described in *4.1* Identifier)
  In this context the corporate body identifier in the EFG database.
  Status: Mandatory; Occurrences: 1

- **Record Source** (described in *4.3* Record Source)
  A reference to the archive or other organisation supplying the record.
  Status: Mandatory; Occurrences: 1..n

- **Date**
  Temporal properties of the corporate body relating to its existence and activity.
  Value space: syntax follows ISO 8601 ("YYYY-MM-DD" or "YYYY")
  Status: Optional; Occurrences: 0..n

  Attribute:
  - ▪ Type
    This attribute specifies the type of temporal properties.
    Value space: defined by EAC (efg:CBDateType)

- **Region of Activity**
  A country from the geographic area in which the corporate body is or was active.
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:Regions_LocallyDefined) or free-text
  Status: Optional; Occurrences: 0..1

- **Name**
  A name by which the corporate body is or was known.
  Status: Mandatory; Occurrences: 1..n

  Attributes:
  - Type
    This attribute specifies the type of the corporate body name.
    Value space: Type vocabulary (efg:CBNameType)

  - Part
    A distinct part of a corporate body´s name.

  - Geographic scope
    Indicates the region in which a particular name was used by the corporate body.
    Value space: text)

  - Temporal scope
    Time when the name was used by the corporate body.
    Value space: Syntax follows ISO 8601 date range

- **Place**
  Domicile of the corporate body.
  Value space: text
  Status: Optional; Occurrences: 0..n

- **Type of Activity**
  A film-related activity of the corporate body, taken from relationship records or from secondary sources.
  Value space: Free text
  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note*)*
  Status: Optional; Occurrences: 0..n

3.6.3 Group

- **Identifier** (described in *4.1* Identifier)
  In this context the group identifier in the EFG database.
  Status: Mandatory; Occurrences: 1

- **Record Source** (described in *4.3* Record Source)
  A reference to the archive or other organisation supplying the record.
  Status: Mandatory; Occurrences: 1..n

- **Date**
  Temporal properties of the group relating to its existence and activity.
  Value space: syntax follows ISO 8601 ("YYYY-MM-DD" or "YYYY")
  Status: Optional; Occurrences: 0..n

  Attribute:
  - Type
    This attribute specifies the type of temporal properties.
    Value space: defined by EAC (efg:GNameType)

- **Region of Activity**
  A country from the geographic area in which the group is or was active.
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:Regions_LocallyDefined)
  Status: Optional; Occurrences: 0..1

- **Name**
  A name by which the group is or was known.
  Status: Mandatory; Occurrences: 1..n

Attributes:

- Type
  This attribute specifies the type of the name of the group.
  Value space: Type vocabulary (efg:GNameType)

- Part
  A distinct part of a group´s name.

- Geographic scope
  Indicates the region in which a particular name was used by the group.
  Value space: text

- Temporal scope
  Time when the name was used by the group.
  Value space: Syntax follows ISO 8601 date range

- **Type of Activity**
  A film-related activity of the group, taken from relationship records or from secondary sources.
  Value space: Free text
  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)
  Status: Optional; Occurrences: 0..n

3.6.4 **Allowed relationships**

- AgentRELAgent (described in *5.4 Agent REL Agent*)
- AgentRELItem (described in *5.5 Agent REL Item*)
- NonAVManifestationRELAgent (described in *5.11 AVManifestation REL Agent; NonAVManifestation REL Agent*)
- AVManifestationRELAgent (described in *5.11 AVManifestation REL Agent; NonAVManifestation REL Agent*)
- NonAVCreationRELAgent (described in *5.1 AVCreation REL Agent ; NonAVCreation REL Agent; AVManifestation REL Agent ; NonAVManifestation REL Agent*)
- AVCreationRELAgent (described in *5.1 AVCreation REL Agent ; NonAVCreation REL Agent; AVManifestation REL Agent ; NonAVManifestation REL Agent*)
- EventRELAgent (described in *5.13 Event REL Agent*)

3.7 Event

Events are defined as primary entities that can occur within the lifecycle of an audiovisual or non-audiovisual creation. This entity was modelled by using prEN 15907:2009 clause 5.2[6]. The EFG metadata model distinguishes between the following event types:

- **Publication event:** This can be a public screening, broadcast or a public release on a physical distribution medium or online. This entity uses prEN 15907:2009 clause 6.11.
- **Decision event:** An event in which a manifestation of a creation was evaluated by a censorship body or an accredited rating agency. This entity uses prEN 15907:2009 clause 6.13.
- **IPR registration:** A registration of intellectual property rights. This entity uses prEN 15907:2009 clause 6.14.
- **Award:** A bestowal of an award relating to the audiovisual creation or to an achievement by an Agent in the context of an audiovisual creation. This entity uses prEN 15907:2009 clause 6.12.
- **Production event:** A specific event in the course of production of a creation. Examples are dates and locations where castings took place or dates and locations of shootings or other recordings. This entity uses prEN 15907:2009 clause 6.10.

3.7.1 Publication Event

- **Identifier** (described in *4.1* Identifier)
  Identifier of the publication event that will be automatically generated by the EFG database.
  Status: Mandatory; Occurrences: 1

- **Record Source** (described in *4.3 Record Source*)
  An identification for the event record, if this exists in the database from which the filmographic record was published, else the value is "undefined".
  Status: Mandatory; Occurrences: 1..n

- **Type**
  The type of an exhibition event (e.g. "Premiere", "Cinema release") or type of publication ("e.g. Paperback book with DVD") if not evident with the type of associated audiovisual manifestation.
  Value space: free text or controlled vocabulary (efg:EventTypes)
  Status: Mandatory; Occurrences: 1

---

[6] The event type "preservation event" from prEN 15907:2009 was not applied.

- **Date**
  The date on which the exhibition took place or on which copies of the manifestation became available for hire.
  Value space: Syntax follows ISO 8601 (YYYY-MM-DD)
  Status: Optional; Occurrences: 0..1

- **Regional Scope**
  The country or large-scale geographic entity where the event took place (e.g. exhibition) or where published items have been made available (e.g. distribution area)
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS)
  Status: Optional; Occurrences: 0..1

- **Place**
  The name of the city of smaller geographic entity (e.g. building) where the event took place.
  Value space: text
  Status: Optional; Occurrences: 0..1

- **Event Name**
  The name of an event that the exhibition was a part of (e.g. name of a film festival, distribution channel of a broadcaster, etc.).
  Value space: text
  Status: Optional; Occurrences: 0..1

- **Exhibition organiser**
  The name of an Agent that was responsible for the exhibition (e.g. name of a cinema company, film club, broadcaster, etc.).
  Value space: text
  Status: Optional; Occurrences: 0..n

- **Publisher**
  If not evident from an association of Agent with Manifestation, this element can be used to state the name of the publisher.
  Status: Optional; Occurrences: 0..n

- **Access conditions**
  Specific restrictions for accessing the content of the manifestation (e.g. "for rental only").
  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)
  Status: Optional; Occurrences: 0..n

3.7.2 <u>Decision Event</u>

- **Identifier** (described in *4.1* Identifier)
  Identifier of the decision event that will be automatically generated by the EFG database.
  Status: Mandatory; Occurrences: 1

- **Record Source** (described in *4.3* Record Source)
  An identification for the event record, if this exists in the database from which the filmographic record was published, else the value is "undefined".
  Status: Mandatory; Occurrences: 1..n

- **Type**
  Types include e.g. censorship decisions, rating decisions etc.
  Value space: controlled vocabulary (efg:EventTypes)
  Status: Mandatory; Occurrences: 1

- **Date**
  The date on which the verdict was announced or from which on the verdict was declared valid.
  Value space: syntax follows ISO 8601 (YYYY-MM-DD)
  Status: Optional; Occurrences: 0..1

- **Regional scope**
  The country or large-scale geographic entity for which the decision is (was) valid.
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:MARC21_GeoAreasCS)
  Status: Optional; Occurrences: 0..n

- **Agency**
  The name of the agency performing the rating or censorship.
  Value space: text
  Status: Optional; Occurrences: 0..n

- **Certificate number**
  An identifier issued by the agency uniquely identifying the act of rating or censorship and associated documents such as censorship visa or rating certificates.
  Status: Optional; Occurrences: 0..1

- **Verdict**
  The outcome of the act of rating or censorship.
  Value space: text
  Status: Optional; Occurrences: 0..1

- **Note** (described in *4.8* Note)
  Status: Optional; Occurrences: 0..n

3.7.3   IPR Registration

- **Identifier** (described in *4.1* Identifier)
  Identifier of the IPR registration event that will be automatically generated by the EFG database.
  Status: Mandatory; Occurrences: 1

- **Record Source** (described in *4.3* Record Source)
  An identification for the event record, if this exists in the database from which the filmographic record was published, else the value is "undefined".
  Status: Mandatory; Occurrences: 1..n

- **Date**
  The date on which the registration was filed or the date on which registration became effective.
  Value space: Syntax follows ISO 8601 (YYYY-MM-DD)-If no value is available in the source archive, the value must be set "unknown")
  Status: Mandatory; Occurrences: 1

- **Registration agency**
  Name of agency issuing the registration certificate (e.g. "UK Intellectual Property Office").
  Value space: text (if no value is available in the source archive, the value must be set to "not available in the source archive")
  Status: Mandatory; Occurrences: 1

- **Regional scope**
  The geographic region for which copyright is claimed.
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:MARC21_GeoAreasCS)
  Status: Optional; Occurrences: 0..n

- **Name of applicant**

  Name of the Agent claiming copyright in the audiovisual or non-audiovisual creation. This is the right holder's name.

  Value space: free text

  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)

  Status: Optional; Occurrences: 0..n

3.7.4 <u>Award</u>

- **Identifier** (described in *4.1* Identifier)

  Identifier of the award that will be automatically generated by the EFG database.

  Status: Mandatory; Occurrences: 1

- **Record Source** (described in *4.3* Record Source)

  An identification for the event record, if this exists in the database from which the filmographic record was published, else the value is "undefined".

  Status: Mandatory; Occurrences: 1..n

- **Date**

  The date the award was bestowed to an Agent.

  Value space: Syntax follows ISO 8601 in form of YYYY-MM-DD (if no value is available in the source archive, the value must be set to a default value)

  Status: Mandatory; Occurrences: 1

- **Nomination only**

  If the audiovisual creation was nominated but not among the winners, then this element should be set to the logical value "true".

  Value space: "true" or "false"

  Status: Optional; Occurrences: 0..1

- **Award Name**

  The name of the award or trophy, possibly including a numeric designation (e.g. 2nd Price).

  Value space: text (if no value is available in the source archive, the value must be set to "not available in the source archive")

  Status: Mandatory; Occurrences: 1

- **Achievement**
  A phrase describing a specific achievement for which the award was given, if not for the audiovisual creation in total.
  Value space: text
  Status: Optional; Occurrences: 0..1

- **Sponsor**
  Name of the Agent(s) that have sponsored the award or name of the event in the scope of which the prize was awarded
  Value space: free text
  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)
  Status: Optional; Occurrences: 0..n

3.7.5 Production event

- **Identifier** (described in *4.1* Identifier)
  Identifier of the production event that will be automatically generated by the EFG database.
  Status: Mandatory; Occurrences: 1

  Record Source (described in *4.3* Record Source)
  An identification for the event record, if this exists in the database from which the filmographic record was published, else the value is "undefined".
  Status: Mandatory; Occurrences: 1..n

- **Type**
  The type of event this element instance refers to. Examples are "shooting", "outdoor shooting", "indoor shooting", "post-production", etc.
  Value space: free text or controlled vocabulary (efg:EventTypes)
  Status: Optional; Occurrences: 0..1

- **Location**
  Any geographic name or address of the location where the event took place.
  Value space: text
  Status: Optional; Occurrences: 0..n

- **Regional scope**

  The country or other large-scale geographic entity where the event took place.

  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:MARC21_GeoAreasCS)

  Status: Optional; Occurrences: 0..n

- **Date**

  The date or time-span during which the event took place.

  Value space: Syntax follows ISO 8601 (YYYY-MM-DD or date range)

  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)

  Status: Optional; Occurrences: 0..n

3.7.6 Allowed relationships

- EventRELAgent (described in *5.13 Event REL Agent*)
- EventRELAVManifestation (described in *5.12 Event REL AVManifestation; Event REL NonAVManifestation*)
- EventRELNonAVManifestation (described in *5.12 Event REL AVManifestation; Event REL NonAVManifestation*)
- NonAVCreationRELEvent (described in *5.7 AVCreation REL Event; NonAVCreation REL Event*)
- AVCreationRELEvent (described *5.7 AVCreation REL Event; NonAVCreation REL Event*)

3.8 Collection

In the EFG context, a collection is defined by a compilation of creations (audiovisual or non-audiovisual). This entity refers to the notion of collection professionally curated in an archive and functions moreover like a "basket" of instances from EFG metadata elements that can be assigned by users.

3.8.1 Elements

- **Identifier** (described in *4.1* Identifier)

  Identifier of the collection that will be automatically generated by the EFG database.

  Status: Mandatory; Occurrences: 1

- **Type**
  This element specifies whether the collection has been curated by the archive or defined on the EFG level.
  Value space: controlled vocabulary (efg:CollectionType)

- **Record Source** (described in *4.3* Record Source)
  Either the collection identifier in the content provider's database or the identifier generated on the EFG level.
  Status: Optional; Occurrences: 0..n

- **Title**
  A textual title of the archival collection or the EFG generated collection.
  Value space: text
  Status: Mandatory; Occurrences: 1

- **Description** (described in *4.6* Description)
  Status: Optional; Occurrences: 0..n

- **Note** (described in *4.8* Note)
  Status: Optional; Occurrences: 0..n

3.8.2 <u>Allowed relationships</u>

- CollectionRELAVCreation (described in *5.9 Collection REL AVCreation; Collection REL NonAVCreation*)
- CollectionRELNonAVCreation (described in *5.9 Collection REL AVCreation; Collection REL NonAVCreation*)

4 Common Elements

These are complex elements that can occur as part of more than one major entity. This chapter defines all common elements of the EFG metadata model. Moreover, attributes and proposals for value spaces are given as in the previous chapter.

4.1 Identifier

An unambiguous reference to the resource within a context specified by the schema element. This element was modelled by using prEN 15907:2009 clause 6.1*.*
Value space: GUID or ID chosen from an external naming schema

Elements:
- **Scheme**
  The scheme by which the EFG identifier will be generated. This can be an internationally known identification scheme, an XML namespace identifier, or a URN namespace (e.g. URN: UUID).
  Value Space: controlled vocabulary (efg:IDScheme)
  Status: Mandatory; Occurrences: 1

4.2 Title

Titles can occur several levels of description and can change during the lifecycle of a creation. Titles can be a word, phrase or character, naming the work, a group of works, a particular manifestation or an individual item. The title on the Creation level is a derivate of the best known manifestation title. Film titles in EFG will be managed through a common authority registry. The title element is modelled after the prEN 15907:2009 clause 6.3. Title is a wrapper element for all elements and attributes listed hereunder.

Attribute:
- **Language**
  The language of the title.
  Value space: controlled vocabulary (efg:Iso639-1, efg:Iso639-2; if no value is available in the source archive, the value must be set to "unspecified")
  Status: Mandatory; Occurrences: 1

Elements:
- **Title Text**
  The textual expression of the title.
  Status: Mandatory; Occurrences: 1

- **Part designation**
  A combination of the name of a structuring unit and the count value that identifies the current creation as an individual part of a complex work. For complex works with multi-level numberings (e.g. "Season 2, Episode 12"), an instance of this element should be created for each level. Non-numeric values such as letter symbols (e.g. "Part B" or calendar dates - e.g. "August 1956 issue") are permitted.
  Status: Optional; Occurrences: 0..1

  Attributes:

  - <u>unit</u>
    The name of the unit that is represented within a series, serial, or multi-part work.
    Value space: controlled vocabulary (efg:AVTitleUnit)

  - <u>value</u>
    An ordinal number, numeration symbol, or date value that identifies the individual creation within a complex work.
    Value space: text

- **Title relationship**
  The type of relationship between the title and the entity to which it is assigned.
  Value space: controlled vocabulary (efg:AVTitleType OR NonAVTitleType)
  Status: Optional; Occurrences: 0..1

- **Temporal scope**
  For titles that were changed, or introduced after the date of issue, the time span in which the title was used should be indicated.
  Value space: Syntax follows ISO 8601 (YYYY-MM-DD)
  Status: Optional; Occurrences: 0..1

- **Geographic scope**
  Indication to which region(s) the title applies if a work was distributed under different titles in distinct geographic regions.
  Status: Optional; Occurrences: 0..n

  Elements:

  - <u>Code</u>
    Region code.
    Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:Marc21GeoAreaCS)
    Status: Optional; Occurrences: 0..n

- Region name
  Name of a region or a country.
  Value space: controlled vocabulary (efg:Iso3166-1CountryCS, efg:XPZ44-002HistoricCountryCS, efg:Marc21GeoAreaCS)
  Status: Optional; Occurrences: 0..n

4.3 Record Source

A reference to the EFG content provider and the local IDs. This element was modelled by using prEN 15907:2009 clause 6.2. This is a wrapper element for all elements and attributes listed hereunder.

Elements:

- **Source ID**
  The local identifier.
  Status: Optional; Occurrences: 0..1

- **Provider**
  The name of the archive supplying the record.
  Value space: controlled vocabulary (efg:ProviderNameID)
  Status: Mandatory; Occurrences: 1

  Attributes:
  - Identifier
    An unambiguous reference to the archive supplying the record. This is preferably the institution's identifier, which is registered by the ISIL agency. If the institution is not registered, then the official acronym of the institution will be sufficient.
    Value Space: controlled vocabulary (efg:ProviderNameID)
    Status: Mandatory; Occurrences: 1

- Identification scheme
  Name of the registration scheme encoding the institution name.
  Value space: controlled vocabulary ("ISIL" or "Institution acronym" chosen from efg:IDScheme)
  Status: Mandatory; Occurrences: 1

4.4 Format

The description of the physical artefact or digital file on which an audiovisual manifestation is fixed. This is a wrapper element for all elements and attributes listed hereunder. This element was modelled by using prEN 15907:2009 clause 6.7.

Elements:

- **Digital format**
  The format of the digital file.
  Status: Optional; Occurrences: 0..1

  Elements:

  - Container
    A container or wrapper format is a file format, or often a stream format whose specifications regard only the way data are stored but *not* coded within the file.
    Value space: controlled vocabulary (RFC 2049 (MIME types), efg:FileFormatCS)
    Status: Optional; Occurrences: 0..1

  - Coding
    Specifies the codification of the data.
    Value space: controlled vocabulary (RFC 2049 (MIME types), efg:FileFormatCS)
    Status: Optional; Occurrences: 0..1

  - OriginalStatus
    Specifies if the object is originally digital or derived from a physical object.
    Value space: controlled vocabulary (efg:ObjectStatus)
    Status: Optional; Occurrences: 0..1

- **Carrier type**
  The manifestation's physical carrier. Digital manifestations may be bound to a physical carrier (e.g.: "DVD") or exist without a defined carrier (e.g. "online streaming media", "podcasts")
  Value space: controlled vocabulary (efg:CarrierType)
  Status: Optional; Occurrences: 0..1

- **Gauge**
  The width of the film stock or other carrier (such as magnetic tape) used for the manifestation. Should include value and unit (e.g. "35 mm", "1/2 inch" etc)
  Value space: controlled vocabulary (efg:Gauge)
  Status: Optional; Occurrences: 0..1

- **Aspect ratio**
  The ratio between width and height of the image.
  Value space: text (numeric values or names, e.g. "full frame", "Cinemascope")
  Status: Optional; Occurrences: 0..1

- **Sound**
  The name of the system by which sound is recorded either on the carrier, on a separate medium, or as part of the digital encoding (e.g. Western Electric (Westrex) Movietone, RCA Photophone, Tobis, Dolby Digital, etc.).
  Value space: text
  Status: Optional ; Occurrences: 0..1

  Attributes*:*

  - hasSound
    A boolean value indicating if the manifestation includes recorded sound
    Value space: "true", "false"
  - Recording system
    A boolean value indicating if the system and/or method was used for the primary recording.
    Value space: "true", "false"

- **Colour**
  The name of the colour system or process. For digital formats the name of the colour space. For analogue video the name of video colour system.
  Value space: text or controlled vocabulary (efg:Colour)
  Status: Optional; Occurrences: 0..1

4.5 Keywords

A term or set of vocabulary terms describing the content of an audiovisual or non-audiovisual creation. This can be keywords or other vocabularies to describe subjects. Controlled and uncontrolled terms can be used together, but not within a single set of terms. Likewise, if more than one controlled vocabulary is used, then terms from each of these must be contained in a separate instance of this element. A separate instance is also required for each language if terms in more than one language are taken from a multilingual vocabulary. This is a wrapper element for all elements and attributes listed hereunder. This element was modelled by using prEN 15907:2009 clause 6.16.

Attributes:

- **Language**

  The language of the content of each subject. Can be omitted if the language is evident from the scheme.
  Value space: controlled vocabulary (efg:Iso639-1LanguageCS, efg:Iso639-2LanguageCS)

- **Type**

  Type of information described by the keywords (e.g. "Person", "Subject" , "Genre", "Category".
  Value space: controlled vocabulary (efg:KeywordType)

- **Scheme**

  A unique identifier denoting the controlled vocabulary (preferably URI). If the subject terms are not from a controlled vocabulary, the value of this element should be set to "uncontrolled".
  Value space: controlled vocabulary (efg:IDScheme)

Elements:

- **Term**

  An element containing a single term. This can be the textual value of the term. For non-textual terms the classification codes, preferably a combination of the code and the verbal class description should be indicated.
  Value space: text or controlled vocabulary (If no value is available in the source archive, the value must be set to "not available in the source archive".)
  Status: Mandatory; Occurrences: 1..n

  Attributes*:*

  - ID

    A non-text identifier that can be combined with scheme ID from a unique resource identifier for the term within a controlled vocabulary.

4.6 Description

Textual descriptions include synopses, plot summaries, reviews, transcripts or shot lists. They can occur in more than one language and they can have statements of authorship or references to external resources. This element was modelled by using prEN 15907:2009 clause 6.17.
Value space: text

Attributes:

- **Language**
  The language of the description text.
  Value space: controlled vocabulary (efg:Iso639-1LanguageCS, efg:Iso639-2LanguageCS)

- **Type**
  A keyword denoting the type of description.
  Value space: controlled vocabulary (efg:DescriptionType)

- **Source**
  Either the name of the institution or a URI identifying the source directly or via a reference system such as an on-line catalogue.
  Value space: text or URI

4.7 User Tag

This is a tag created by the user through the EFG interface.

Attributes*:*

- **Language**
  This indicates the language of the tag.
  Value space: controlled vocabulary (efg:Iso639-1LanguageCS, efg:Iso639-2LanguageCS)

- **Creator**
  This indicates the ID of the user that has created the tag.
  Value space: text

- **Date**
  This indicates the date on which the tag has been created.
  Value space: syntax follows ISO 8601 ("YYYY-MM-DD")

*D 2.2 Common interoperability schema for archival resources
and filmographic descriptions, report on the common
interoperability schema*

4.8 Note

This element includes all data derived from content providers, that cannot fit into other
elements.

Attributes:

- **Source**
  This attribute specifies the source that produced the note element.
  Value space: text

4.9 Segmentation

A segment is defined as a sequential part of a time-based medium, thus of an audiovisual manifestation. In contrast to semantically defined sequences (e.g. news item in a newsreel) this entity allows for structural divisions of audio-visual content (e.g. time points in a media stream from which frames have been taken). This element is subject to further specification. Segments should at least have an individual identifier (ID), a start and an end frame but also parts of the MPEG-7[7] standard could be applied.

---

[7] ISO 15938. URLs to the documentation of this metadata standard:
http://www.chiariglione.org/mpeg/standards/mpeg-7/mpeg-7.htm; http://www.m4if.org/resources.php#Section40

5 Relation Definition

This chapter specifies the relationships that can occur between entities. For each relation the cardinality restriction is indicated. Moreover, this chapter lists the relationships with a type attribute for values that define the semantics of the relationships. These values will be taken from controlled vocabularies which specify a forward and inverse form of the relationship, and possible restrictions depending on the classes of entities for which the relationship is valid.

5.1 AVCreation REL Agent ; NonAVCreation REL Agent; AVManifestation REL Agent ; NonAVManifestation REL Agent

An agent could be an actor and at the same time a director, but it could happen for an AVCreation he is just one of this. This relation, using the type attribute, specifies which relationship exists between a particular Agent and an AVCreation/NonAVCreation or an AVManifestation/NonAVManifestation.
Cardinality: n..m

Attribute:

- **Type**
  A keyword denoting the type of relation between the
  AVCreation/AVManifestation/NonAVCreation/NonAVManifestation and the Agent.
  Value Space: Type vocabulary (efg:AgentRelation)
  Status: Mandatory; Occurrences: 1

5.2 AVCreation REL AVCreation

An AVCreation could be a part of another AVCreation or the two could share the same content. This relation, using the type attribute, specifies which relationship exists between a particular AVCreation and another one.
Cardinality: n..m

Attribute:

- **Type**
  A keyword denoting the type of relation between an AVCreation and another.
  Value Space: Type vocabulary (efg:AVCreationRelation)
  Status: Mandatory; Occurrences: 1

5.3 NonAVCreation REL NonAVCreation

A NonAVCreation could be a part of another NonAVCreation or the two could share the same content. This relation, using the type attribute, specifies which relationship exists between a particular NonAVCreation and another one.
Cardinality: n..m

Attribute:

- **Type**
  A keyword denoting the type of relation between a NonAVCreation and another NonAVCreation.
  Value Space: Type vocabulary (efg:NonAVRelatedToNonAV)
  Status: Mandatory; Occurrences: 1

5.4 Agent REL Agent

An Agent could be a parent of another Agent or the two could be the owner of a company. This RelatedToAgent, using the type attribute, specifies which relationship exists between a particular Agent and another one.
Cardinality: n..m

Attribute:

- **Type**
  A keyword denoting the type of relation between an Agent and another one.
  Value Space: Type vocabulary (efg:AgentRelatedToAgent)
  Status: Mandatory; Occurrences: 1

5.5 Agent REL Item

An agent could be an actor and at the same time a director, but it could happen for an Item he is just one of this. This relation, using the type attribute, specifies which relationship exists between a particular Agent and an Item.
Cardinality: n..m

Attribute:

- **Type**
  A Keywords denoting the type of relation between an Agent and an Item.
  Value Space: Type vocabulary (efg:AgentRelation)
  Status: Mandatory; Occurrences: 1

5.6 AVCreation REL NonAVCreation

An AVCreation could have documentation related, as article on newspaper or poster. This relation, using the type attribute, specifies which relationship exists between a particular AVCreation and a NonAVCreation.
Cardinality: n..m

Attribute:

- **Type**
  A Keywords denoting the type of relation between the AVCreation and a NonAVCreation.
  Value Space: Type vocabulary (efg:NonAVRelatedToAV)
  Status: Mandatory; Occurrences: 1

5.7 AVCreation REL Event; NonAVCreation REL Event

An AVCreation or a NonAVCreation can be related to a specific Event. This relationship has no attribute.
Cardinality: n..m

5.8 AVCreation REL AVManifestation; NonAVCreation REL NonAVManifestation

This relationship relates an AVCreation/NonAVCreation to its AVManifestation/ NonAVManifestation. This relationship has no attribute.
Cardinality: 1..n

Attribute:

- Type
  A Keywords denoting the type of relation between the AVCreation and an AVManifestation.
  Value Space: Type vocabulary (efg:AVManifestationRelation)
  Status: Mandatory; Occurrences: 1

5.9 Collection REL AVCreation; Collection REL NonAVCreation

This relationship relates a Collection to the AVCreation/NonAVCreation that composes it. This relationship has no attribute.
Cardinality: n..m

5.10 AVManifestation REL Item; NonAVManifestation REL Item

This relationship relates an AVManifestation/NonAVManifestation to the Item related. This relationship has no attribute.
Cardinality: 1..n

5.11 AVManifestation REL Agent; NonAVManifestation REL Agent

This relationship relates an AVManifestation/NonAVManifestation to the Agent related. This relationship has no attribute.
Cardinality: n..m

Attribute:

- Type
  A Keywords denoting the type of relation between the AVManifestation or NonAVManifestation and an Agent.
  Value Space: Type vocabulary (efg:AgentRelation)
  Status: Mandatory; Occurrences: 1

5.12 Event REL AVManifestation; Event REL NonAVManifestation

This relationship relates an Event with an AVManifestation/NonAVManifestation related. This relationship has no attribute.
Cardinality: n..m

5.13 Event REL Agent

This relationship relates an Event with an Agent related. This relationship has no attribute.
Cardinality: n..m

6 Document History

Version	Author	Updated	Comments
0.1	Franca Debole	2009-03-05	Draft in excel file
0.2	Franca Debole	2009-03-13	Draft in excel file
0.3	Franca Debole	2009-05-06	Draft in excel file
1.0	Detlev Balzer, Georg Eckes, Marco Rendina, Pasquale Savino, Franca Debole, Francesca Schulze	2009-05-09	Textual version after WP 2 leader meeting in Pisa on 16. April. Release to EFG content providers during WG 3 workshop in Copenhagen on 11 May.
1.3	Franca Debole, Pasquale Savino, Detlev Balzer, Marco Rendina, Francesca Schulze	2009-06-10	Revisions after WG 3 workshop in Copenhagen.
2.0	Franca Debole, Pasquale Savino, Detlev Balzer et. al.	2009-06-24	1st Public Release. This document was submitted to the EC as Deliverable 2.2. The EDL staff commented and approved this document (Go Sogimoto, Stephan Gradmann). Related document: - Tabular Overview V1 (2009-07-14)
3.0	Franca Debole, Pasquale Savino, Francesca Schulze	2009-07-16	Related document: - XSD V 3.0 (2009-07-20)
3.1	Franca Debole, Pasquale Savino, Francesca Schulze	2009-08-19	Related document: - XSD V 3.1 (2009-09-01)
3.2	Franca Debole, Francesca Schulze	2009-09-04	Stable version of the EFG schema after meeting CNR-ISTI and DIF meeting in Pisa. - XSD V 3.2 (2009-09-22) - Tabular Overview V2
3.2.2	Francesca Schulze	2009-11-24	Same textual version as 3.2 with references to controlled EFG vocabularies for the respective metadata elements. - XSD V 3.2 (2009-09-22) - Tabular Overview V2
3.2.3	Franca Debole Francesca Schulze	2010-04-14	Minor changes in textual version: references to the applied clauses from the preEN 15907:2009 standard updated.

			Minor technical modifications in EFG XML schema (relaxed constraints for the sequence of certain elements):
			- XSD V 3.2.3 (2010-04-14)