



ISAN

INTERNATIONAL STANDARD
AUDIOVISUAL NUMBER

ISAN Data Fields

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1 Introduction

1.1 Overview

The foundation of the ISAN audiovisual identification system is based on the ISO standards 15706-1 and 15706-2. ISAN International Agency (ISAN-IA) the ISAN registration authority, is in charge of maintaining and updating the ISAN metadata schemas for the proper description of audiovisual works and their versions. The ISAN registration, matching and bulk search process as well as the ISAN API, all based on the ISAN metadata schema, are also defined and maintained by ISAN-IA based on inputs from ISAN registration agencies and ISAN users.

There are two sets of ISAN metadata: the ISAN Work Metadata for the identification of audiovisual works (covering both episodic and non-episodic works), and the ISAN Version Metadata for the identification of Versions or Variants (Expressions and Manifestations) as well as closely related content and items (subtitling files, closed captions, etc...). Both metadata sets are stored in the centralized ISAN registry. It is vital to the integrity of the ISAN system to have the most complete and accurate metadata as possible. If information changes or becomes available after the initial registration, an immediate update is recommended.

The information used to describe an audiovisual work in the ISAN registry is defined in the chapter [2 Descriptive information for the identification of audiovisual works](#), the information used to describe versions of audiovisual works is described in the chapter [3 Descriptive information for the identification of versions of an Audiovisual Work](#).

1.2 Character encoding

The ISAN system is using the UTF-8 Charset to preserve the special characters that may be used in the various languages. Be aware that if the XML data is not encoded in UTF-8 all special characters such as accents will be transformed into undesired characters and will lead to unusable data.

For more information about use of special characters refer to the W3C XML specifications.

1.3 XML Schemas

Main schema for non-episodic (single) works:

<http://www.isan.org/schema/v1.11/common/common.xsd>

Main schema for serial headers (series) and episodic works (serial episodes):

<http://www.isan.org/schema/v1.21/common/serial.xsd>

Main XML schema used for version of works (ISAN Version or V-ISAN):

<http://www.isan.org/schema/v1.11/common/version.xsd>

Other dependent schemas:

- ISAN representation: <http://www.isan.org/ISAN/isan.xsd>
- Titles representation: <http://www.isan.org/schema/v1.11/common/title.xsd>
- Other IDs representation: <http://www.isan.org/schema/v1.11/common/externalid.xsd>
- Participants representation: <http://www.isan.org/schema/v1.11/common/participant.xsd>
- Languages representation: <http://www.isan.org/schema/v1.11/common/language.xsd>
- Countries representation: <http://www.isan.org/schema/v1.11/common/country.xsd>

1.4 How to read the tables in this document?

Column “Element”: the name of the ISAN data field. When the name is followed by an asterisk (i.e. “ * ”) it means that the data is a compulsory for ISAN allocations.

Column “Occurrence”: indicates the possible number of occurrence for the data element.

- 0 means that the element can be omitted
- 1 : means that the element is unique (not repeatable).
- 1 or more: means that the element can be unique or repeated an unlimited number of times.

Column “Type”: the XML complex type defined to represent the element. Blue underlined text indicates an hyperlink to the corresponding element in the document.

1.5 Related documents

It is assumed that the reader is familiar with the following documents:

- [ISAN User Guide](#)
- [Applying ISAN to versions of audiovisual works](#)
- [ISAN Data Fields Annex: List of Codes](#)

1.6 References

[ISO 15706-1:2002, Information and Documentation – International Standard Audiovisual Number \(ISAN\) – Part 1: Audiovisual Work Identifier](#)

[ISO 15706-2:2007, Information and Documentation – International Standard Audiovisual Number \(ISAN\) – Part 2: Version identifier](#)

2 Descriptive information for the identification of audiovisual works

An ISAN can be applied to episodic or non-episodic Audiovisual Work (AV Work) consisting of a sequence of related images, with or without accompanying sound, which is intended to be made visible as a moving image.

ISAN identifies audiovisual works as distinct intellectual realizations. The first known manifestation of the AV Work is identified with an ISAN “work” (version segment of the ISAN code set to zero). For the identification and description of all other variants and manifestations of the work, an ISAN “version” or V-ISAN applies (version segment of the ISAN code is different from zero).

The information used to describe an audiovisual work in the ISAN registry is defined in this section. The main attribute of an audiovisual work is **WorkMetadata**, whether the work is episodic (serial episode) or non-episodic (single work).

Compared to single works, the WorkMetadata attribute for episodic works contains an additional **EpisodeDetail** element.

- The list of elements contained in WorkMetadata is described in the section [Single Works / Serial Episodes: WorkMetadataType](#)
- The list of elements contained in EpisodeDetails is described in the section [EpisodeDetailType](#)

The main attribute to describe series is the SerialHeader, the elements contained in a Serial header is described in the section [Series: SerialHeaderType](#)

2.1 Single Works / Serial Episodes: WorkMetadataType

The WorkMetadataType is used to describe an audiovisual work with all associated metadata.

WorkMetadataType			
Element	Description	Type	Occurrence
ISAN *	ISAN of the audiovisual Work, represented with 16 hexadecimal digit followed with a check character (using Arabic numerals 0 to 9 and letters A to Z), followed by an 8 hexadecimal digit version segment, followed with a check character (using Arabic numerals 0 to 9 and letters A to Z).	isanType	0 or 1*
EpisodeDetail	Additional information such as Season and Episode number Not applicable for single works, mandatory for serial episodes.	EpisodeDetailType	0 or 1**
Type *	Classification of the audiovisual Work in Feature films, documentaries, TV entertainment, etc.. See the full list of codes in ISAN Schema Appendix: List of Codes	WorkTypeType (xs:string)	1
Kind *	The Work Kind Code defines whether the work is animated, a live action or a combination of both. Possible values are: A Animated L Live Action LA Live Action + Animated	WorkKindType (xs:string)	1
YearOfReference *	Year of Reference: the year of production or the year of copyright as it appears in the credits of the work. Format: YYYY Value: from 1896 to current year +1	YearType (xs:string)	1
YearOfFirstPublication	The year where the work was first presented to the public Format: YYYY Value: from 1896 to current year +1.	YearType (xs:string)	0 or 1
Duration *	Approximate length of the work. Positive integer value	DurationType	1
ColorKind *	The color scheme that applies to the moving images such as "Color", "Black and White", "Colorized", etc. See the full list of codes in ISAN Schema Appendix: List of Codes	ColorType (xs:string)	1
CompanyList	List of Production or Distribution companies for the AV work.	CompanyListType	0 or 1
ReferenceCountryList	List of countries of reference, i.e. the country(ies) of production and/or shooting	ReferenceCountryListType	0 or 1
OriginalLanguageList *	List of original spoken Language(s) in the audiovisual work. Silent works get the XMU (silent) original language code	OriginalLanguageListType	1

OtherIdList *	List of alternate identifiers for the work such as the registrant private identifier (REGID), an URN, the IMDB number or the EIDR. Closely related identifiers can also be referenced here such as the ISRC or ISWC for the music associated to the work, or ISNI of the work's participants, ... At least one registrant private ID or registrant token is required for registrations.	ExternalIdListType	1
TitleList *	List of original and alternate Title(s) for the Work	TitleListType	1
ParticipantList *	List of participants such as director, cast, etc.... At least one Director is mandatory for registrations.	ParticipantListType	1
CompositeList	List of ISAN that identify the composite works (see definition in the ISAN User Guide). Potentially any audiovisual work can be a composite. The composite attribute can be added after the ISAN allocation.	CompositeListType	0 or 1

* 0 when writing in the registry (registration), 1 when reading the registry.
** 0 for single works (non episodic), 1 for serial episodes (episodic).

2.2 Series: SerialHeaderType

Series are represented with a Serial Header. A Serial Header is an object that represents a serial and binds all episodes whatever the season. The main attribute of a Serial Header is the list of titles for the serial.

The identifier of the Serial Header is the root ISAN (= root segment of the ISAN = the 12 first digit of an ISAN). All episodes of a serial are attached to the same Serial Header and therefore their ISAN have all the same root segment. The SerialHeaderId is only created when a first episode of the serial is identified with ISAN. For bulk loads of new serials, use the SerialHeaderRegistrantId instead.

Note on seasons:

There is no object to describe seasons, instead, episodes have a season number field. ISAN-IA is currently defining a season object that will enrich the ISAN metadata schema by 2018. In the meantime, season can be identified with ISAN as a compilation of all episodes of the season.

SerialHeader			
Element	Description	Type	Occurrence
SerialHeader	A Serial Header that groups all episodes of a serial. It contains a SerialHeaderRegistrantId , a SerialHeaderId , and a TitleList attributes.	Series: SerialHeaderType	1

SerialHeaderId	Serial Header Identifier. 12 hexadecimal digits of the ISAN root segment that is shared by episodes of the serial.	isanType	0 or 1*
SerialHeaderRegistrantId	Registrant ID (or token) provided by the registrant to identify a Serial Header.	SerialHeaderRegistrantIdType (xs:string)	0 or 1*
SerialTitleList	List of original and alternate title(s) for the Serial.	TitleListType	1

* One of the **SerialHeaderRegistrantId** or **SerialHeaderId** is required. **SerialHeaderRegistrantId** can only be used at the creation of the serial in the registry, Readers or registrants adding episodes to the serial shall use **SerialHeaderId**.

Example

```
<serial:SerialHeader>
  <serial:SerialHeaderId root="0000-0000-DC86"/>
  <serial:SerialTitleList>
    <title:TitleDetail>
      <title:Title>Baywatch</title:Title>
      <title:Language>
        <language:LanguageLabel>english</language:LanguageLabel>
        <language:LanguageCode>
          <language:CodingSystem>ISO639_2</language:CodingSystem>
          <language:ISO639_2Code>ENG</language:ISO639_2Code>
        </language:LanguageCode>
      </title:Language>
      <title:TitleKind>ORIGINAL</title:TitleKind>
    </title:TitleDetail>
    <title:TitleDetail>
      <title:Title>Alerte à Malibu</title:Title>
      <title:Language>
        <language:LanguageLabel>english</language:LanguageLabel>
        <language:LanguageCode>
          <language:CodingSystem>ISO639_2</language:CodingSystem>
          <language:ISO639_2Code>FRE</language:ISO639_2Code>
        </language:LanguageCode>
      </title:Language>
      <title:TitleKind>ALTERNATE</title:TitleKind>
    </title:TitleDetail>
  </serial:SerialTitleList>
</serial:SerialHeader>
</SerialHeader>
```

3 Descriptive information for the identification of versions of an Audiovisual Work

3.1 Introduction: the kind of versions and their relationships

All variants or manifestations of episodic or non-episodic audiovisual works registered with ISAN can be identified with an ISAN version or V-ISAN.

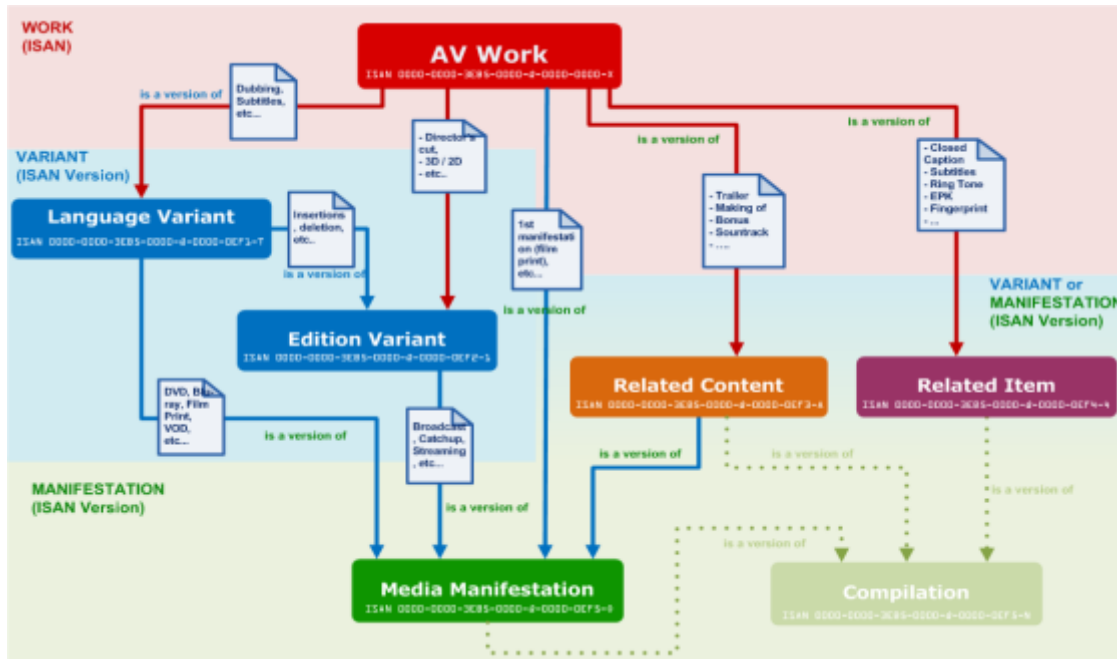
Versions of audiovisual works can only be registered if a valid ISAN has been previously allocated to the audiovisual work. The issue of automatic (provisional) pre-registering of ISAN numbers for massive version registrations that would apply to works that have no ISAN number at the time of said version registration is currently discussed and envisaged by ISAN-IA members.

An ISAN version can be applied to any specific instance (or version) of an AV Work that can result from any particular aggregation of elements that affect the content of an Audiovisual Work already identified with an ISAN.

Versions can be:

- **Variants of AV Works**, which are audiovisual contents resulting from change(s) to the AV Work that do not significantly alter the nature of the intellectual creation (i.e. does not result into a new/different intellectual creation). Such changes can for example be one or a combination of: minor editions, the addition of subtitles, dubbing, alterations of the soundtrack, etc... Variants are usually abstract things since any fixation on a physical medium or digital asset can be pointed to (see manifestations below). A variant can exist only if an AV Work exists.
- **Manifestations of the AV Work**, which are characterized by the fixation of the AV work or a variant of it on a physical medium (e.g. film print, tape, digital file, ...). Since an increasing number of audiovisual works are dematerialized (without a fixed physical carrier), manifestations can also be digital assets such as files or streams without physical properties. A manifestation can exist only if an AV Work exists. Manifestations are described with a specific set of metadata that defines the technical properties of the embodiment (Low Definition / High Definition, 16:9 / 4:3, 2D/3D, etc...) and the media of fixation (Blu-ray, Film Print, DVD, Windows Media File, etc...).
- **Related Contents**: contents closely related to an audiovisual work or version identified with ISAN can be identified with an ISAN Version. Such related contents can be a trailer, bonus material such as “behind the scenes” or interviews of actors or the director, etc...
- **Related Items**: to some extent, contents such as audio tracks, closed captioning, ring tones, fingerprints, etc... that are derived from or closely related to a version of the audiovisual work can be identified with an ISAN version.

An audiovisual work and its many variants and manifestations can be linked together in an audiovisual hierarchy as in the example below:



Versions are defined by a Version Kind and a Relationship in order to identify properly the versions and their relationship with "parent" works or versions.

For example:

#	Version Kind	Relationship	Description
1	Language	is dubbing of	The Italian dubbed version of a Feature Film originally released in French. This version is a variant.
2	Edition	is colored version of	The colored version of a Black and White patrimonial work. This version is a variant
3	Media	is media manifestation of (#2)	The fixation of the above colored work on a film print. This version is a manifestation.
4	Media	is media manifestation of (#1)	The fixation of the above Italian dubbed version of a Feature Film on a Blu-ray disc. This version is a manifestation
5	Related Content	is trailer of (#1)	The trailer of the above Italian dubbed Feature Film
6	Related Item	is soundtrack of (#1)	The audio soundtrack in Italian language of the above dubbed Feature Film

3.2 VersionType

The VersionType is used to describe a version of an audiovisual work with all associated metadata.

VersionType			
Element	Description	Type	Occurrence
VersionMetadata	Descriptive information of the version of an AV work.	VersionType	1
V-ISAN	ISAN version that identifies the current version of work with this set of metadata. The V-ISAN is represented with 16 hexadecimal digit followed with a check character (using Arabic numerals 0 to 9 and letters A to Z), followed by an 8 hexadecimal digit version segment (cannot be null), followed with a check character (using Arabic numerals 0 to 9 and letters A to Z).	isanType	0 or 1*
Parent Work	ISAN that identifies the parent work of the version	isanType	0 or 1
Parent Version	Only if the current version is a version of a this is the V-ISAN of the parent version.	isanType	0 or 1
Relations	The relationship between the current version and the parent work or version. Closed list of values that qualify the relationship. See the full list of codes in ISAN Schema Appendix: List of Codes	Relations	1
DescriptiveName	A free text description of the version of the work, generally the name by which the version is known by the registrant.	Description (xs:string)	0 or 1
TitleList *	List of Title(s) for the Version (original, alternate, translated)	TitleListType	1
RunningTime	Approximate duration of the version. Can be expressed in minutes, seconds or milliseconds. Positive integer value	DurationType	1
ReferenceDate	year or date of reference for the version. This can be the date or year of release in theatres, the year of release for a Blu-ray edition, or the broadcast date and time of a TV program (e.g. 2012-11-23-18:05:22). This field accept values in the following format: <ul style="list-style-type: none"> - YYYY: Year as for example 2009 - YYYY-MM: Year-month as for example 2009-05 for May 2009 - YYYY-MM-DD: Year-Month-Day as for example 2009-05-22 for 22nd of May 2009 - YYYY-MM-DD-HH:MM:SS T: Year-Month-Day-Hour:Minutes:Seconds Timezone as for example 2009-05-22-12:15 or 2009-05-22-12:15:03 or 2009-05-22-12:15:03 +7 (where +7 means CET+7) 	xs:dateTime	1
SpokenLanguages	Specify the spoken language(s) of the version (ISO 632-2 code). If the version has several	OriginalLanguageListType	0, 1 or more

	language tracks (a Blu-ray or DVD for example), specify each spoken language.		
WrittenLanguages	Written languages other than for subtitles (e.g. closed captions, text description), specify the language(s) of such text (ISO 632-2 code). If several languages are available, specify each of them.	OriginalLanguageListType	0, 1 or more
SubtitleLanguages	Specify the subtitle language(s) of the version (ISO 632-2 code). If version contains several subtitles (a Blu-ray or DVD for example), specify each subtitle language.	OriginalLanguageListType	0, 1 or more
AudioDescriptionLanguages	Specify the audio description language(s) of the version (ISO 632-2 code). If version contains several audio descriptions (a Blu-ray or DVD for example), specify each supported language. (Feature available in the course of 2017, contact cs@isan.org for more details)	OriginalLanguageListType	0, 1 or more
ColorFormat	The color scheme that applies to the moving images such as "Color", "Black and White", "Colorized", etc. See the full list of codes in ISAN Schema Appendix: List of Codes	ColorType (xs:string)	0 or 1
ImageDimension	Specify whether the image dimension is in 2D or 3D	ImageDimension (xs:string)	0 or 1
ImageDefinition	Specify the image definition from the closed list of choices, e.g SD, HD, 2K, 4K, 35mm (film print), See the full list of codes in ISAN Schema Appendix: List of Codes	ImageDefinition (xs:string)	0 or 1
ImageAspectRatio	Specify the image aspect ratio from the closed list of choices e.g. 4:3, 16:9, 1.85:1,... See the full list of codes in ISAN Schema Appendix: List of Codes	ImageAspectRatio (xs:string)	0 or 1
DistributionCountries	list of countries or region(s) of the world (e.g. North America, Domestic, Europe, ...) for the distribution of the version. See the full list of codes in ISAN Schema Appendix: List of Codes	CountryListType	0 or 1
DistributionKind	the kind of distribution for the version, e.g. Theatre, Broadcasting, Home Video, etc... See the full list of codes in ISAN Schema Appendix: List of Codes	DistributionChannel (xs:string)	0 or 1
DistributionForm	the form of distribution for the version e.g. Cable, IPTV, Electronic Sell Through, etc... See the full list of codes in ISAN Schema Appendix: List of Codes	DistributionPlatform (xs:string)	0 or 1
MediaFixation	The medium on which the content is fixed: <i>Digital File, Blu-ray, DVD, Digital Cinema Package,...</i> See the full list of codes in ISAN Schema Appendix: List of Codes	MediaFixation (xs:string)	0 or 1
ContainerFormat	This applies only to digital files. Specify from the closed list of choices the file format for the encoded data (e.g. flv for Adobe Flash or mp4 for H264, ...). See the full list of codes in ISAN Schema Appendix: List of Codes .	ContainerFormat (xs:string)	0 or 1
Ratings	Rating systems for almost 50 countries are already prerecorded in the ISAN system. Several rating countries and systems can be applied to the same version.	Ratings	0 or 1

	See the full list of codes in ISAN Schema Appendix: List of Codes .		
ContentAlerts	Alerts about the content of the version, e.g. violence, drugs, ... See the full list of codes in ISAN Schema Appendix: List of Codes .	ContentAlert (xs:string)	0 or 1
AdditionalInformation	Any other relevant information for which no dedicated metadata field exist.	Information (xs:string)	0 or 1
OtherIds	list of alternate or related identifiers can be specified such as private and commercial identifiers, EIDR codes, ISO identifiers, URI, etc... See the full list of codes in ISAN Schema Appendix: List of Codes	ExternalIdListType	0 or 1
Composites	A list of ISAN codes (works or versions) that compose the versions or from which the version is a compilation. <ul style="list-style-type: none"> - When the version contains content (or extracts of content) identified with another ISAN work or version, the ISAN of such composite elements must be filled in here. - When the version is identifying a compilation of various components such as a DVD or Blu-ray made of a video track identified with a V-ISAN, several sound tracks (dubbing) identified each with a V-ISAN, several subtitling tracks identified each with a V-ISAN, bonus material identified with V-ISAN: all V-ISAN of the components that are compiled in the version must be listed here. 	Composites (xs:string)	0 or 1

```

<VersionMetadata>
  <V-ISAN ="" version="" check1="" episodeOrPart="" root="">
  <ParentWork ="" version="" check1="" episodeOrPart="" root="">
  <Relations>
  </Relations>
  <DescriptiveName>
  </DescriptiveName>
  <Titles>
  </Titles>
  <RunningTime>
  </RunningTime>
  <ReferenceDate>
  </ReferenceDate>
  <SpokenLanguages>
  </SpokenLanguages>
  <WrittenLanguages>
  </WrittenLanguages>
  <SubtitleLanguages>
  </SubtitleLanguages>
  <ColorFormat>
  </ColorFormat>
  <ImageDimension>
  </ImageDimension>
  <ImageDefinition>
  </ImageDefinition>
  <ImageAspectRatio>
  </ImageAspectRatio>
  <DistributionCountries>
  </DistributionCountries>
  <DistributionChannel>
  </DistributionChannel>
  <DistributionPlatform>
  </DistributionPlatform>
  <MediaFixation>
  </MediaFixation>
  <ContainerFormat>
  </ContainerFormat>
  <Ratings>
  </Ratings>
  <ContentAlerts>
  </ContentAlerts>
  <ExternalIds>
  </ExternalIds>
  <Composites>
  </Composites>
</VersionMetadata>

```

The data types described in this chapter are used in common works and version descriptions data fields.

4 Sub-types for AV Work or Versions Descriptions

This section defines the sub-types contained in [Single Works / Serial Episodes: WorkMetadataType](#), [Series: SerialHeaderType](#) and [Descriptive information for the identification of versions of an Audiovisual Work](#).

4.1 DurationType

The DurationType defines the approximate duration/running time of an AV work or version.

DurationType			
Element	Description	Type	Occurrence
Duration	The duration or running time of the AV work or version. It contains a TimeValue and a TimeUnit attribute.	DurationType	1
TimeValue	Approximate duration/running time in the specified unit. A positive, not null integer.	String	1
TimeUnit	The unit of time in which the duration is expressed. Possible values are: MIN Minutes SEC Seconds MIL Milliseconds	TimeUnitType	1

XML Sample

```
<Duration>
  <common:TimeUnit>MIN</common:TimeUnit>
  <common:TimeValue>144</common:TimeValue>
</Duration>
```

4.2 ReferenceCountryListType

The ReferenceCountryListType defines a list of country(ies) of reference for the production, publication or shooting of the audiovisual work.

Attributes	Description	Type	Occurrence
ReferenceCountryList	List of countries of reference. It contains a list of ReferenceCountry attributes.	ReferenceCountryListType	0 or 1

ReferenceCountry	Country of reference: The country of Production, Publication (video games) or Shooting.	ReferenceCountryType	1 or more
RelatedAction	The action related to the country of reference. Values can be PRO Production Location. PUB Publication Location SHO Shooting Location.	RelatedActionCodeType (xs:string)	1
Country	The ISO country code and country label See the full list of codes in ISAN Schema Appendix: List of Codes	CountryType	1

Example: XML representation

```

<ReferenceCountryList>
  <ReferenceCountry>
    <Country>
      <country:CountryLabel>United States</country:CountryLabel>
      <country:CountryCode>
        <country:CodingSystem>ISO3166_1</country:CodingSystem>
        <country:ISO3166_1Code>US</country:ISO3166_1Code>
      </country:CountryCode>
    </Country>
    <RelatedAction>PRO</RelatedAction>
  </ReferenceCountry>

  <ReferenceCountry>
    <Country>
      <country:CountryLabel>France</country:CountryLabel>
      <country:CountryCode>
        <country:CodingSystem>ISO3166_1</country:CodingSystem>
        <country:ISO3166_1Code>FR</country:ISO3166_1Code>
      </country:CountryCode>
    </Country>
    <RelatedAction>PRO</RelatedAction>
  </ReferenceCountry>
</ReferenceCountryList>
  
```

4.3 CountryListType

The CountryListType defines a list of country(ies) such as the country(ies) of distribution.

Attributes	Description	Type	Occurrence
CountryList	List of countries. It contains a list of Country elements.	CountryListType	0 or 1
Country	The ISO country code and country label See the full list of codes in ISAN Schema Appendix: List of Codes	CountryType	1

Example: XML representation

```

<CountryList>
  <Country>
    <country:CountryLabel>United States</country:CountryLabel>
    <country:CountryCode>
      <country:CodingSystem>ISO3166_1</country:CodingSystem>
      <country:ISO3166_1Code>US</country:ISO3166_1Code>
    </country:CountryCode>
  </Country>
  <Country>
    <country:CountryLabel>France</country:CountryLabel>
    <country:CountryCode>
      <country:CodingSystem>ISO3166_1</country:CodingSystem>
      <country:ISO3166_1Code>FR</country:ISO3166_1Code>
    </country:CountryCode>
  </Country>
</CountryList>
  
```

4.4 OriginalLanguageListType

A list of spoken or written language(s) for the audiovisual work or version. For silent works use the custom XMU code (Mute Film) from the list of ISO 639-2 Language Codes.

Attributes	Description	Type	Occurrence
OriginalLanguageList	List of original spoken or written language(s) for the AV Work or Version.	OriginalLanguageListType	1
OriginalLanguage	Language for the work or version. For silent works, use the custom XMU code (Mute Film) from the list of ISO 639-2 Language Codes. See the full list of codes in ISAN Schema Appendix: List of Codes	LanguageType	1 or more

Example: XML representation

```

<OriginalLanguageList>
  <OriginalLanguage>
    <language:LanguageLabel>French</language:LanguageLabel>
    <language:LanguageCode>
      <language:CodingSystem>ISO639_2</language:CodingSystem>
      <language:ISO639_2Code>FRE</language:ISO639_2Code>
    </language:LanguageCode>
  </OriginalLanguage>
</OriginalLanguageList>
  
```

4.5 CompanyListType

This type defines a list of Production or Distribution / Publisher (video games) companies for the audiovisual work.

Attributes	Description	Type	Occurrence
CompanyList	List of companies.	CompanyListType	0 or 1
Company	Company details, contains a <i>CompanyName</i> and a <i>CompanyKind</i> element.	CompanyType	1 or more
CompanyKind	The Kind of Company. PRO Production company. PUB Distribution / Publisher (video games) Company.	CoPRolecodeType	1
CompanyName	The name of the production or distribution / publisher company.	CompanyNametype	1

XML Sample

```
<CompanyList>
  <Company>
    <CompanyKind>PRO</CompanyKind>
    <CompanyName>Sony Pictures Entertainment</CompanyName>
  </Company>
  <Company>
    <CompanyKind>PRO</CompanyKind>
    <CompanyName>Columbia Pictures</CompanyName>
  </Company>
  <Company>
    <CompanyKind>PRO</CompanyKind>
    <CompanyName>Metro Goldwyn Mayer</CompanyName>
  </Company>
</CompanyList>
```

4.6 ParticipantListType

The list of participants to the audiovisual work such as director, cast, ...

At least one Director is required. A scriptwriter and 3 actors are highly recommended when applicable.

Attributes	Description	Type	Occurrence
ParticipantList	List of Participants to the AV Work made of one or more Participant element(s).	ParticipantListType	1

Participant	Participant defined with a FirstName, LastName, and RoleCode element. At least one Participant with RoleCode "DIR" must be present.	ParticipantType	1 or more
FirstName	Participant's first name	ParticipantNameType (xs:string)	1
LastName	Participant's last name	ParticipantNameType (xs:string)	1
RoleCode	The role code of the participant in the AV Work as for example: ACT Actor COM Composer DIR Director (Mandatory) DIS Distributor EPRO Executive Producer PRO Producer SCR Screenwriter SPK Speaker NAR Narrator	ParticipantRoleCodeType (xs:string)	1

See the full list of codes in [ISAN Schema Appendix: List of Codes](#)

XML Sample

```

<ParticipantList>
  <participant:Participant>
    <participant:FirstName>Martin</participant:FirstName>
    <participant:LastName>Campbell</participant:LastName>
    <participant:RoleCode>DIR</participant:RoleCode>
  </participant:Participant>

  <participant:Participant>
    <participant:FirstName>Barbara</participant:FirstName>
    <participant:LastName>Broccoli</participant:LastName>
    <participant:RoleCode>PRO</participant:RoleCode>
  </participant:Participant>

  <participant:Participant>
    <participant:FirstName>Neal</participant:FirstName>
    <participant:LastName>Purvis</participant:LastName>
    <participant:RoleCode>SCR</participant:RoleCode>
  </participant:Participant>

  <participant:Participant>
    <participant:FirstName>Daniel</participant:FirstName>
    <participant:LastName>Craig</participant:LastName>
    <participant:RoleCode>ACT</participant:RoleCode>
  </participant:Participant>

  <participant:Participant>
    <participant:FirstName>Judi</participant:FirstName>
    <participant:LastName>Dench</participant:LastName>
    <participant:RoleCode>ACT</participant:RoleCode>
  </participant:Participant>

  <participant:Participant>
    <participant:FirstName>Eva</participant:FirstName>
  </participant:Participant>

```

```

    <participant:LastName>Green</participant:LastName>
    <participant:RoleCode>ACT</participant:RoleCode>
  </participant:Participant>
</ParticipantList>

```

4.7 EpisodeDetailType

This object is specific to serial episodes, it binds the Episode with the Serial Header when new episodes are registered, and contain the Season and Episode Number information.

Attributes	Description	Type	Occurrence
EpisodeDetail	Specific metadata for Episodic Works, it contains the following elements: SerialHeaderRegistrantId , SerialHeaderId , Season , Episode .	EpisodeDetailType	1
SerialHeaderId	Serial Header Identifier = ISAN root. 12 hexadecimal digits as the ISAN root segment that is shared by episodes of the serial. Refer to the description of isanType . NOTE: SerialHeaderId is created with the first episode of the serial. It and can therefore not be used for a new serial registration; use a SerialHeaderRegistrantId instead.	isanType	0 or 1*
SerialHeaderRegistrantId	Registrant ID (or token) provided by the registrant to identify a Serial Header. This ID or Token is only known and usable by the Registrant of the first ISAN allocated to an episode of the series. It shall usually only be used in bulk registrations for new series that have never been registered with ISAN.	SerialHeaderRegistrantIdType	0 or 1*
Season	Season Number Usually an integer	SeasonType	0 or 1
Episode	Episode Number Usually an integer	EpisodeType	0 or 1

* A least one **SerialHeaderRegistrantId** or **SerialHeaderId** must be present for ISAN Registration.

XML Sample

```

<EpisodeDetails>
  <serial:SerialHeaderRegistrantId>123456879</serial:SerialHeaderRegistrantId>
  <serial:Season>2</serial:Season>
  <serial:Episode>23</serial:Episode>
</EpisodeDetails>

```

4.8 isanType

The ISAN type is used to represent ISAN identifiers for works and versions (V-ISAN)

The ISAN is a 24 digit hexadecimal number made of 16 hexadecimal digit followed with a check character (using Arabic numerals 0 to 9 and letters A to Z), followed by an 8 hexadecimal digit version segment, followed with a check character (using Arabic numerals 0 to 9 and letters A to Z).

The different coding form of the ISAN identifier is described in the [ISAN User Guide](#),

The table below outlines the XML coding for an ISAN or ISAN Version (V-ISAN) as defined in ISO 15706-2 Annex D.

Field	Description	Type	Occurrence
ISAN	XML coding for an ISAN or ISAN Version (V-ISAN) as defined in ISO 15706-2 Annex D	isanType	1

Attributes	Description	Type	Occurrence
Root	Root section of the ISAN or V-ISAN (ISAN Version) Tree segment of 4-digit hexadecimal values separated with a hyphen "-".	rootType	1
EpisodeOrPart	Episode section of the ISAN or V-ISAN One segment of 4-digit hexadecimal values.	episodeOrPartType	1
Check1	Version section of the ISAN or V-ISAN (ISAN Version) One digit made of a decimal value from 0 to 9 or an upper-case character from A to Z.	checkType	1
Version	First check character (roots and episode section) Two segments of 4-digit hexadecimal values separated with an hyphen "-"	versionType	1
Check2	Second check character (roots and episode and version section) One digit made of a decimal value from 0 to 9 or an upper-case character from A to Z.	checkType	1

Example 1: ISAN representation in XML

```
<ISAN>
  <Root>0000-0000-CFF1</Root>
  <EpisodeOrPart>004B</EpisodeOrPart>
  <Check1>1</Check1>
  <Version>0000-0000</Version>
  <Check2>Y</Check2>
</ISAN>
```

Example 2: Root ISAN identifying a Serial Header in XML

```
< SerialHeaderId>
  <Root>0000-0000-CFF1</Root>
</SerialHeaderId>
```

4.9 TitleListType

The TitleListType is defines the list of original and alternate titles by which a work or a version is known. At least one original title is required.

Field	Description	Type	Occurrence
TitleList	List of Title(s) for an AV Work or a Version. It is made of one or more TitleDetail elements.	TitleListType	1
TitleDetail	A title made of a TitleKind, a TitleLanguage and a Title string element.	TitleDetailType	1 or more
TitleKind	The kind of title. Possible values are: ORIGINAL Original title of an AV Work (or a Version of an AV Work) used during its initial exploitation. At least one original title is mandatory. ALTERNATE Alternate title of the AV Work (or a Version of an AV Work). At least one original title is mandatory TRANSLATION Self-translation of an original or alternate title. An English translation is highly recommended when no English original or alternate title is available.	TitleKindType (xs:string)	1
Language	The language in which the Title is written.	LanguageType	1
Title	The title of the work or version.	TitleType (xs:string)	1

Example: XML representation

```
<TitleList>
  <title:TitleDetail>
    <title:TitleKind>ORIGINAL</title:TitleKind>
    <title:Language>
      <language:LanguageLabel>French</language:LanguageLabel>
      <language:LanguageCode>
        <language:CodingSystem>ISO639_2</language:CodingSystem>
        <language:ISO639_2Code>FRE</language:ISO639_2Code>
      </language:LanguageCode>
    </title:Language>
    <title:Title>Le Grand Bleu</title:Title>
  </title:TitleDetail>
  <title:TitleDetail>
    <title:TitleKind>ALTERNATE</title:TitleKind>
    <title:Language>
      <language:LanguageLabel>English</language:LanguageLabel>
      <language:LanguageCode>
        <language:CodingSystem>ISO639_2</language:CodingSystem>
        <language:ISO639_2Code>ENG</language:ISO639_2Code>
      </language:LanguageCode>
    </title:Language>
  </title:TitleDetail>
</TitleList>
```

```

    </language:LanguageCode>
  </title:Language>
  <title:Title>The Big Blue</title:Title>
</title:TitleDetail>
<title:TitleDetail>
  <title:TitleKind>ALTERNATE</title:TitleKind>
  <title:Language>
    <language:LanguageLabel>German</language:LanguageLabel>
    <language:LanguageCode>
      <language:CodingSystem>ISO639_2</language:CodingSystem>
      <language:ISO639_2Code>GER</language:ISO639_2Code>
    </language:LanguageCode>
  </title:Language>
  <title:Title>Im Rausch der Tiefe</title:Title>
</title:TitleDetail>
<title:TitleDetail>
  <title:TitleKind>ALTERNATE</title:TitleKind>
  <title:Language>
    <language:LanguageLabel>Spanish</language:LanguageLabel>
    <language:LanguageCode>
      <language:CodingSystem>ISO639_2</language:CodingSystem>
      <language:ISO639_2Code>SPA</language:ISO639_2Code>
    </language:LanguageCode>
  </title:Language>
  <title:Title>El Gran Azul</title:Title>
</title:TitleDetail>
</TitleList>

```

4.10 LanguageType

The LanguageType define a language in a recognized language coding scheme. To date the ISAN registry supports only the ISO639-2 coding system. The LanguageType is used to represent:

- the language of a Title (works and versions)
- the original language of a work (Original Language field)
- the supported languages for a version (Version language(s) fields)

Attributes	Description	Type	Occurrence
Language	The Language defined with LanguageLabel and LanguageCode elements	LanguageType	1 or more
LanguageLabel	The name of the country	LanguageLabelType (xs:string)	0 or 1
LanguageCode	The Language Code made of a CodingSystem and a CodeISO639_2 element.	LanguageCodeType	1

CodingSystem	<p>The Coding System for the language code . Only ISO 639-2 is supported so far.</p> <p>Use always the value: ISO639_2</p> <p>(other systems such as such as RFC3066 may be supported in the future)</p>	CodingSystemType (xs:string)	1
CodeISO639_2	<p>The ISO 639-2 language code</p> <p>See the full list of codes in ISAN Schema Appendix: List of Codes</p>	CodeISO639_2Type (xs:string)	1

Example: XML representation

```
<Language>
  <LanguageLabel>French</LanguageLabel>
  <LanguageCode>
    <CodingSystem>ISO639_2</CodingSystem>
    <CodeISO639_2>FRE</CodeISO639_2>
  </LanguageCode>
</Language>
```

4.11 CountryType

The CountryType defines a country in a recognized country coding scheme. To date the ISAN registry only implements the ISO 3166-1 coding system. The CountryType is used to represent:

- A country in which a work has been shoted or produced or published.
- A country / region in which a version of a work is distributed.

Attributes	Description	Type	Occurrence
Country	A Country code and Label. It is masde of a CountryLabel and CountryCode element.	CountryType	1
CountryLabel	The Label of the country	CountryLabelType	0 or 1
CountryCode	The Country Code in a specific coding system. It is made of a CodingSystem and a CodeISO3166_1 element.	CountryCodeType	1
CodingSystem	The Coding System for the country code Always use ISO 3166-1 Other coding systems might be supported in the future.	CodingSystemType (xs:string)	1

CodeISO3166_1	An ISO 3166-1 Country code See the full list of codes in ISAN Schema Appendix: List of Codes	CodeISO3166_1Type (xs:string)	1
----------------------	---	----------------------------------	---

Example: XML representation

```
<Country>
  <country:CountryLabel>United States</country:CountryLabel>
  <country:CountryCode>
    <country:CodingSystem>ISO3166_1</country:CodingSystem>
    <country:ISO3166_1Code>US</country:ISO3166_1Code>
  </country:CountryCode>
</Country>
```

4.12 ExternalIdListType

The ExternalIdListType defines the list of alternate identifiers for the work such as the registrant private identifier (REGID), an URN, the IMDB number or the EIDR. Closely related identifiers can also be referenced here such as the ISRC or ISWC for the music associated to the work, or ISNI of the work's participants, etc...

At least one registrant private ID or registrant token is required for registrations.

Attributes	Description	Type	Occurrence
ExternalIdList	List of other Identifiers for the work or version. It contains one or several ExternalIdType elements.	ExternalIdListType	1
ExternalId	Other identifier information made of a Code, Id, and note element.	ExternalIdType	1 or more
Code	The name or kind of other identifier such as IMDB, REGID, EIDR, ... Values are taken from a controlled vocabulary list. See the full list of codes in ISAN Schema Appendix: List of Codes	IdCodeType	1
Id	External Identifier	ExtidType	1
Note	A note or description of the identifier. Usually the domain where the identifier can be resolved, e.g. eidr.org, imdb.com, ...	String	0 or 1

Example: XML representation

```
<ExternalIdList>
  <externalid:ExternalId>
    <externalid:Code>REGID</externalid:Code>
    <externalid:Id>123456</externalid:Id>
  </externalid:ExternalId>
</externalid:ExternalId>
```

```

    <externalid:Code>AGICOA</externalid:Code>
    <externalid:Id>175032-0</externalid:Id>
    <externalid:Note>agicoa.org</externalid:Note>
  </externalid:ExternalId>
</ExternalIdList>

```

4.13 CompositeListType

The composite type is used to reference compilations or components of a work or version as a list of ISAN. Each item of the compilation or composite is identifying a distinct work, version of work, closely related content or closely related item.

A composite is an audiovisual content which contains one or more other works, versions or portions of content, each of which is insubstantial in relation to the entire composite work (e.g. segments, highlights, etc). Any work or versions can potentially be a composite. The composite information can be added after the allocation of the ISAN.

EXAMPLES: A feature film which contains parts of animated cartoons or other film clips; a television program that contains footage from previously produced feature films, from episodes of television series, or from other audiovisual works, a mashup made of parts from different works.

Compilations of works or versions are grouping of two or more finished works or related items into a single envelope such as a TV program, a Blu-ray that compiles episodes of a serial, a packaged product such as a Blu-ray or a DCP with different tracks (video, sound, subtitles, captions, etc...) each identified with an ISAN/V-ISAN.

Attributes	Description	Type	Occurrence
CompositeList	List of composite works or versions, it contains one or more ISAN element(s).	CompositeListType	0 or 1
ISAN	ISAN of the component or compilation item.	isanType	1 or more

Example: XML representation

```

<CompositeList>
  <ISAN root="0000-0000-CFF1" episodeOrPart="004B" check1="1" version="0000-0000" check2="Y"/>
  <ISAN root="0000-0001-B495" episodeOrPart="000B" check1="9" version="0000-0000" check2="A"/>
  <ISAN root="0000-0000-6776" episodeOrPart="0000" check1="8" version="0000-0000" check2="D"/>
</Composites>

```

4.14 Relations

The Relations type defines the kind of the version (Language, Edition, Media...) and qualifies the relationships with the parent work or the parent version (when the version is a version of a version). The Relations type contains a list of Relation elements.

It is preferable that only one Relation defines the version. In case of doubt, the registrant will choose the Version Kind & Relationship that corresponds best to the main purpose of the version to identify. **For example, the content on a Blu-ray is often resulting from editions + language variations of the original content and then embodiment of this content plus other supplemental material on a disk. However, when the registrant obtains a V-ISAN for content identification in AAC3 then the main purpose of the version leads to "Version Kind = Media" with the "Relationship = is media fixation of".**

Attribute	Description	Type	Occurrence
Relation	Version Kind and relationships with parent work or versions.	Relation	1
VersionKind	The kind of version with its parent relationship. The following kind of versions are possible: LANGUAGE Language variant such as dubbing or subtitling. Can apply to Expressions and/or Manifestations. EDITION Edition variant such as add-ons or cutoffs (e.g. ads inserts or local adaptation, a clip extracted from the work, etc). Can apply to Expressions and/or Manifestations. MEDIA A media fixation of the work or one of its manifestations (e.g. Blu-ray, digital encoding, a mezzanine file, etc...). Media versions are always manifestations. RELATED_CONTENT Related contents can be trailers or promotional material of the work, supplemental material (behind the scenes, bonus, interviews, ..), etc... RELATED_ITEM Related Items can be soundtracks, closed captioning tracks, fingerprints, etc... GENERIC_VERSION Undefined Version Kind	VersionKind	1
ParentRelationKind	The relationships are taken from a list of controlled vocabulary. See the full list of codes in ISAN Schema Appendix: List of Codes	ParentRelationKind	1

XML Sample 1: A language variant with dubbing and subtitling of the original work identified with ISAN 1234-1234-1234-0023-X-0000-0000-1

```
<VersionKindList>
  <VersionKind>
    <Kind> LANGUAGE</Kind>
  </VersionKind>
</VersionKindList>
```

```

    <ParentRelationship>is_dubbing_of</ParentRelationship>
  </VersionKind>
  <ParentISAN>
    <root>1234-1234-1234</root>
    <episodeOrPart>0023</episodeOrPart>
    <check1>X</check1>
    <version >0000-0000</version>
    <check2>1</check2>
  </ParentISAN>
</VersionKindList>

```

XML Sample 2: The soundtrack of the dubbed version above identified with the ISAN Version ISAN 1234-1234-1234-0023-X-0000-0102-Y

```

<VersionKindList>
  <VersionKind>
    <Kind>RELATED_ITEM</Kind>
    <ParentRelation>is_soundtrack_of</ParentRelation>
  </VersionKind>
  <ParentISAN>
    <root>1234-1234-1234</root>
    <episodeOrPart>0023</episodeOrPart>
    <check1>X</check1>
    <version >0000-0102</version>
    <check2>Y</check2>
  </ParentISAN>
</VersionKindList>

```

4.15 Ratings

List of ratings per country that apply to a version of an audiovisual work.

Attribute	Description	Type	Occurrence
RatingList	The list of ratings per country. It contains a list of Rating	Ratings	0 or 1
Rating	A country based rating made of a CountryCode , RatingSystem and RatingCode elements.	Rating	1 or more
RatingCountry	The country code where the rating applies	CountryType	1
RatingSystem	The rating system applicable in the country. See the full list of codes in ISAN Schema Appendix: List of Codes .	RatingSystemCode (xs:string)	1
RatingCode	The rating code (specific to the rating system) See the full list of codes in ISAN Schema Appendix: List of Codes	RatingCode (xs:string)	1

XML Sample

```
<RatingList>
<Rating>
<RatingCountry>
<CountryLabel>United States</CountryLabel>
<CountryCode>
<CodingSystem>ISO3166 1</CodingSystem>
<CodeISO3166_1>US</CodeISO3166_1>
</CountryCode>
</RatingCountry>
<RatingSystem>TVPG</RatingSystem>
<RatingCode>TV-PG-D-V</RatingCode>
</Rating>
<Rating>
<RatingCountry>
<CountryLabel>France</CountryLabel>
<CountryCode>
<CodingSystem>ISO3166 1</CodingSystem>
<CodeISO3166 1>FR</CodeISO3166 1>
</CountryCode>
</RatingCountry>
<RatingSystem>CSA</RatingSystem>
<RatingCode>12+</RatingCode>
</Rating>
</RatingList>
```