

EBU – TECH 3293-2008



# Core Metadata Set for Archives (EBUCore)

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## Introduction

This is version 1.0 of the "EBU Core" metadata set. This is based on the results of the EBU Digital Strategy Group.

This is primarily a minimum list of attributes for which an XML representation is also proposed.

It is based on the Dublin Core and expands the list of elements originally defined in EBU Tech 3293-2001 for radio archives.

More information on the role of this specification with regard to other related EBU metadata specifications is provided in the 'metadata' section of the EBU TECHNICAL website (<http://tech.ebu.ch>).

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## Core Metadata Set for Archives

<i>EBU Committee</i>	<i>First Issued</i>	<i>Revised</i>	<i>Re-issued</i>
PMC	December 2001	April 2008	December 2008

**Keywords:** Metadata, Schema, Dublin Core, P-META, Tech 3293, Radio, Television, Archive, OAI

### 1. Scope

Metadata is essential to broadcasting.

The “EBU Core” set of metadata defined in this specification has been identified as being the minimum information needed to describe radio and television content.

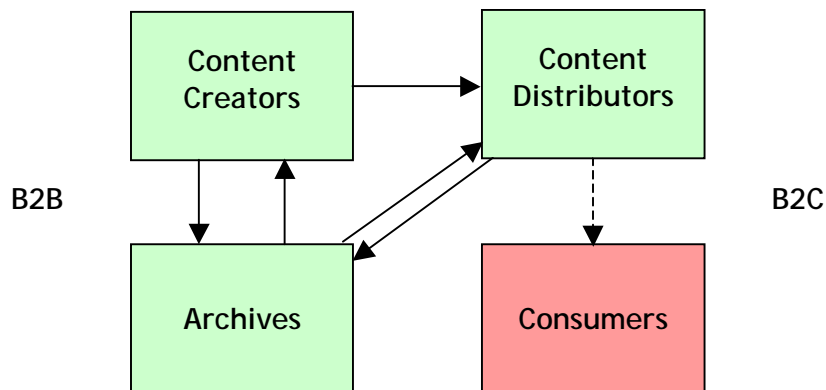


Figure 1: Archiving - a core process to define metadata

"If you can't find it, you don't have it!", this should not happen in modern IT-based production environments. Metadata is the glue between production operations and the following core set of information is a minimum requirement corresponding to fundamental investment with guaranteed return.

This specification addresses the creation, management and preservation of material that can be re-used as originally produced, or may provide input material for new programmes, be it as the result of programmes exchanges between broadcasters or between production facilities in a distributed environment.

The core set of metadata presented in this specification is an extension to the Dublin Core. It is a minimum list of attributes characterising a media resource. An XML representation is also proposed in case this metadata would be implemented e.g. in archive exchange projects using the Open Archive Initiative's Protocol for Metadata Harvesting (OAI-PMH).

The Dublin Core is being used as a core metadata set by librarians and in cultural heritage projects with which radio and television archives have a natural link. The EBU Core, used for such archives, offers a bridge between cultural heritage databases, broadcasting production systems and broadcasting archive repositories.

## 2. Core Metadata Set

### 2.1 Introduction

The “EBU Core” metadata set is a collection of basic metadata elements to be used to describe content in Dublin Core centric environments.

The characterisation and semantics of each element is provided through the following pieces of information:

- a. Name: this is the name of the element
- b. Cardinality: this is the number of times an elements can be used when describing a piece of content
- c. Requirement: this states whether is element is required or optional
- d. Definition: this provides a short unambiguous description of the element and its scope of use
- e. Format: defines the type or format of the element e.g. text or URI
- f. Schema: give a syntactic view of the element representation in the EBUCore schema
- g. Example: this gives an illustration of the element
- h. Refinement: this is the list of elements and attributes used to further define the element in a structured way
- i. Mapping: this gives an indication whether the elements can be found in similar and related popular schemas.

### 2.2 Core Metadata Set Elements and Semantics

#### Title

Name	Title or Alternative Title
Cardinality	Multiple
Requirement	Mandatory
Definition	<p>A title is the name given to a resource e.g. a media item, a media object, or a sequence. It corresponds for a series to the series title, for a programme to the programme title, for an item to the item title, etc.</p> <p>To differentiate between a series title and programme title when these are identical (independently of the declared programme type), recommended best practice is to use a date along with the programme title. For example, “News” is a series title; “News 2007.11.12” is a programme title. Titles are recorded as they appear.</p> <p>The Title is the name by which a resource is formally known and that everyone should use to refer to or search for that particular resource. The formal translation of the title may be provided in several languages.</p> <p>An Alternative Title is another name by which the resource might be known, e.g. within a professional community, and that could also be used for search or reference.</p>

Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:title/dc:title and (optional) /ebucore:coreMetadataType/ebucore:alternativeTitle/dc:title
Example	Title: 'Twilight zone' (series title) Title: 'La quatrième dimension' (series title in French) Title: 'Where is everybody?' (series pilot's title)
Refinement	Title Type, Title Format, Title Status, Title Date, Title Note (optional additional contextual information)
Mapping	DC, PBCore

Name	Title Type / Alternative Title Type
Cardinality	Unique per Title or Alternative Title
Requirement	Optional
Definition	To indicate the type of title or alternative title you are assigning to the resource.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition (optional) of the type
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:title@typeLabel /ebucore:coreMetadataType/ebucore:alternativeTitle@typeLabel and/or /ebucore:coreMetadataType/ebucore:title@typeLink /ebucore:coreMetadataType/ebucore:alternativeTitle@typeLink and (optional) /ebucore:coreMetadataType/ebucore:title@typeDefinition /ebucore:coreMetadataType/ebucore:alternativeTitle@typeDefinition
Reference data	<a href="#">ebu_TitleTypeCodeCS</a>
Example	typeLabel: Episode typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_TitleTypeCodeCS.xml#6">http://www.ebu.ch/metadata/cs/ebu_TitleTypeCodeCS.xml#6</a> typeDefinition: The title is the title of an episode within a series
Mapping	PBCore

Name	Title Status / Alternative Title Status
Cardinality	Unique per Title or Alternative Title
Requirement	Optional
Definition	The Title Status descriptor indicates the type of Title or Alternative Title.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	statusGroup of attributes: /ebucore:coreMetadataType/ebucore:title @statusLabel /ebucore:coreMetadataType/ebucore:Title @statusLink or /ebucore:coreMetadataType/ebucore:alternativeTitle @statusLabel /ebucore:coreMetadataType/ebucore:alternativeTitle @statusLink and (optional) /ebucore:coreMetadataType/ebucore:title @statusDefinition

Reference data	<a href="#">ebu_TitleStatusCodeCS</a>
Example	statusLabel: working statusLink: <a href="http://www.ebu.ch/metadata/cs/ebu_TitleStatusCodeCS.xml#6">http://www.ebu.ch/metadata/cs/ebu_TitleStatusCodeCS.xml#6</a> statusDefinition: a temporary title, which is different from the formal title under which the content has been published

Name	Title Date / Alternative Title Date
Cardinality	Unique per Title or Title Alternative
Requirement	Optional
Definition	Defines the date of creation/attribution, or the associated period for the Title or Alternative Title
Format	RFC 3339 (dateTime). Note that RFC 3339 is stricter than the <a href="#">W3C Date and Time Format</a> . In particular, all portions of the date and time must be present, with the exception of the fractional portions of the second, which may be omitted.
Schema	dateGroup of attributes: /ebucore:coreMetadataType/ebucore:title @startDate and /ebucore:coreMetadataType/ebucore:title @endDate or /ebucore:coreMetadataType/ebucore:title @period
Example	2008-12-23T19:00:00-05:00 2008-12-24T00:00:00Z 2008-12-24T00:00:00.05Z

**Creator**

Name	Creator
Cardinality	Multiple
Requirement	Optional
Definition	The descriptor creator identifies an 'entity' (a person, group of persons or organisation) primarily responsible for creating the content of the resource - <u>behind the camera</u> . Different roles may be considered as representing a creator, e.g. a producer, an author, etc.
Format	EBU Core Entity Type
Schema	/ebucore:coreMetadataType/ebucore:creator
Reference data	<a href="#">ebu_RoleCodeCS</a>
Example	contactDetails:name: John Doe or 'John' + ' Doe' contactDetails:role: typeLabel:Director, typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_RoleCodeCS.xml#20.16">http://www.ebu.ch/metadata/cs/ebu_RoleCodeCS.xml#20.16</a>
Mapping	DC, PBCore

**Subject**

Name	Subject
Cardinality	Multiple
Requirement	Optional
Definition	<p>The generalised topic that represents the intellectual content of the resource. Typically, a subject is expressed by keywords, key phrases.</p> <p>Controlled vocabularies, authorities, or formal classification schemes (codes) may be employed when selecting descriptive subject terms.</p> <p>Persons as subjects are also placed here.</p> <p>Genre of the content is placed under element "Type".</p>
Format	Classification Scheme (code) or free text (possibly issued from a Classification Scheme)
Schema	<p>/ebucore:coreMetadataType/ebucore:subject/dc:subject and/or /ebucore:coreMetadataType/ebucore:subject/subjectCode and (optional) /ebucore:coreMetadataType/ebucore:subject/subjectDefinition</p>
Reference data	<p>Library of Congress Subject Heading (LCSH) Library of Congress Classification (LCC) Medical Subject Headings (MeSH) Dewey Decimal Classification (DDC) Dansk decimalklassedeling 5.utgave (DK5) Klassifikasjonssystem för svenska bibliotek (SAB) Universal Decimal Classification (UDC) Norske emneord <a href="#">ebu_IPTCSubjectCodeCS</a> etc.</p>
Example	<p>dc:subject:Tennis subjectCode:http://www.ebu.ch/metadata/cs/ebu_IPTCSubjectCodeCS.xml#15065000 subjectDefinition: the subject is about tennis (sport, game)</p>
Refinement	Subject Type, Note (additional contextual information)
Mapping	DC, PBCore

Name	Subject Type
Cardinality	Unique per Subject
Requirement	Optional
Definition	To define the subject reference in use such as the reference data source
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	<p>typeGroup of attributes: /ebucore:coreMetadataType/ebucore:subject @typeLabel and/or /ebucore:coreMetadataType/ebucore:subject @typeLink and (optional) /ebucore:coreMetadataType/ebucore:subject @typeDefinition</p>
Reference data	List of reference data and classification scheme names

Example	<p>typeLabel: IPTC Subject Code Classification Scheme (EBU version)</p> <p>typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_IPTCSubjectCodeCS.xml">http://www.ebu.ch/metadata/cs/ebu_IPTCSubjectCodeCS.xml</a></p> <p>typeDefinition: the IPTC subject codes formatted using the EBU classification Scheme schema</p>
Mapping	PBCore

**Description**

Name	Description
Cardinality	Multiple
Requirement	Optional
Definition	<p>Free-form text or a narrative to report general notes, abstracts, or summaries about the intellectual content of a resource. The information may be in the form of a paragraph giving an individual program description, anecdotal interpretations, or brief content reviews. The description may also consist of outlines, lists, bullet points, edit decision lists, indexes, or tables of content, a reference to a graphical representation of content or even a pointer (URI, URL) to an external resource.</p> <p>A running order can also be provided as a description.</p> <p>For a Radio or television programme a running order can be used as description.</p> <p>A description can be provided in different languages.</p>
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:description/dc:description
Example	"A news report about an important international event focusing on the following list of important highlights." "http://www.ebu.ch/dummy/NewsBriefOfTheDay.htm"
Refinement	Description Type, Description Note (optional additional contextual information)
Mapping	DC, PBCore

Name	Description Type
Cardinality	Unique per Description
Requirement	Optional
Definition	To define the form of presentation for the information.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	<p>typeGroup of attributes:</p> <p>/ebucore:coreMetadataType/ebucore:description @typeLabel</p> <p>and/or</p> <p>/ebucore:coreMetadataType/ebucore:description @typeLink</p> <p>and (optional)</p> <p>/ebucore:coreMetadataType/ebucore:description @typeDefinition</p>
Reference data	<a href="#">ebu_DescriptionTypeCodeCS</a>
Example	<p>typeLabel: Promotional Information</p> <p>typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_DescriptionTypeCodeCS.xml#5">http://www.ebu.ch/metadata/cs/ebu_DescriptionTypeCodeCS.xml#5</a></p> <p>typeDefinition: the description contains contextual promotional information</p>
Mapping	PBCore

**Publisher**

Name	Publisher
Cardinality	Multiple
Requirement	Optional
Definition	A publisher is a person, an organization, or a service. Typically, the name of a Publisher should be used to indicate the entity primarily responsible for distributing or making a resource available to others e.g. by broadcasting, selling, leasing, renting and other modes of distribution.
Format	EBU Core Entity Type
Schema	/ebucore:coreMetadataType/ebucore:publisher
Example	contactDetails:name: BBC contactDetails:role: typeLabel: Distributor; typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_RoleCodeCS.xml#10.2">http://www.ebu.ch/metadata/cs/ebu_RoleCodeCS.xml#10.2</a>
Mapping	DC, PBCore

**Contributor**

Name	Contributor
Cardinality	Multiple
Requirement	Optional
Definition	The descriptor contributor identifies a person or organization that has made substantial creative contributions to the content of a resource. Refers particularly (but not only) to participation <u>in front of the camera</u> .  If in doubt whether an entity is a creator or contributor use the element contributor.
Format	EBU Core Entity Type
Schema	/ebucore:coreMetadataType/ebucore:contributor
Example	contactDetails:name: Andy Williams contactDetails:role typeLabel:Presenter, typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_RoleCodeCS.xml#25.10">http://www.ebu.ch/metadata/cs/ebu_RoleCodeCS.xml#25.10</a>
Mapping	DC, PBCore

**Date**

Name	Date
Cardinality	Multiple
Requirement	Optional
Definition	Dates associated with events occurring during the life of the resource.  Typically, Date will be associated with the creation, modification or availability of the resource.
Format	RFC 3339 (date).
Schema	/ebucore:coreMetadataType/ebucore:date/dc:date
Refinement	Date Issued, Date Created, Date Modified, Date Digitised, Date Alternative
Mapping	DC PBCore

Name	Date Issued
Cardinality	Unique
Requirement	Optional

Definition	Date of formal issuance (e.g. publication) of the resource. Specifies the formal date for a particular version or rendition of a resource has been made ready or officially released for distribution, publication or consumption, e.g. the broadcasting date of a radio programme. A specific time may also be associated with the date.
Format	RFC 3339 (dateTime). Note that RFC 3339 is more strict than the <a href="#">W3C Date and Time Format</a> . In particular, all portions of the date and time must be present, with the exception of the fractional portions of the second, which may be omitted.
Schema	/ebucore:coreMetadataType/ebucore:date/ebucore:issued
Example	2007-09-01
Mapping	DC, PBCore

Name	Date Created
Cardinality	Unique
Requirement	Optional
Definition	To specify the creation date for a particular version or rendition of a resource across its life cycle. It is the moment in time that the media item was finalized during its production process and is forwarded to other divisions or agencies to make it ready for publication or distribution. A specific time may also be associated with the date.
Format	RFC 3339 (date).
Schema	/ebucore:coreMetadataType/ebucore:date/ebucore:created
Example	2007-07-16
Mapping	DC, PBCore

Name	Date Modified
Cardinality	Unique
Requirement	Optional
Definition	Date on which the resource was last changed
Format	RFC 3339 (date).
Schema	/ebucore:coreMetadataType/ebucore:date/ebucore:modified
Example	2007-07-20
Mapping	DC, PBCore

Name	Date Digitised
Cardinality	Unique
Requirement	Optional
Definition	Date on which the resource was digitised.
Format	RFC 3339 (date).
Schema	/ebucore:coreMetadataType/ebucore:date/ebucore:digitised
Example	2008-07-16

Name	Date Alternative
Cardinality	Multiple
Requirement	Optional
Definition	An alternative particular date for which the type can be defined
Format	RFC 3339 (dateTime). Note that RFC 3339 is more strict than the <a href="#">W3C Date and Time Format</a> . In particular, all portions of the date and time must be present, with the exception of the fractional portions of the second, which may be omitted.

Schema	/ebucore:coreMetadataType/ebucore:date/ebucore:alternative
Example	2008-07-16
Refinement	Date AlternativeType

Name	Date Alternative Type
Cardinality	Unique per Alternative
Requirement	Optional
Definition	To define a type of date other than the pre-defined dates (created, etc.).
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:date/ebucore:alternative @typeLabel or /ebucore:coreMetadataType/ebucore:date/ebucore:alternative @typeLink and (optional) /ebucore:coreMetadataType/ebucore:date/ebucore:alternative @typeDefinition
Example	typeLabel: Date Ingested typeDefinition: date at which content was fed into the production system

### **Type**

Name	Type
Cardinality	Multiple
Requirement	Optional
Definition	The nature or genre of the content of the resource. Type includes terms describing general categories, functions, genres, or aggregation levels for content. Recommended best practice is to select a value from a controlled vocabulary.  To describe the physical or digital manifestation of the resource, use the FORMAT element.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:type/dc:type and/or /ebucore:coreMetadataType/ebucore:type/typeCode and (optional) /ebucore:coreMetadataType/ebucore:type/typeDefinition
Reference data	<a href="#">ebu_ContentAlertSchemeCodeCS</a> <a href="#">ebu_ContentGenreCS</a> <a href="#">ebu_EditorialFormatCodeCS</a> <a href="#">ebu_IntentionCodeCS</a> <a href="#">tva_ContentCommercialCS</a> <a href="#">tva_ContentAlertCS</a> <a href="#">ebu_IntendedAudienceCodeCS</a> etc.
Example	type:News typeDefinition: the material is about information and reporting such as daily news

Refinement Mapping	Type Type, Type Note (optional additional contextual information) DC,
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Name	Type Type
Cardinality	Unique per Type
Requirement	Optional
Definition	To define the Type of reference data
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:type @typeLabel and/or /ebucore:coreMetadataType/ebucore:type @typeLink and (optional) /ebucore:coreMetadataType/ebucore:type @typeDefinition
Example	typeLabel: EBU Content Genre typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_ContentGenreCS.xml">http://www.ebu.ch/metadata/cs/ebu_ContentGenreCS.xml</a> typeDefinition: the EBU classification scheme for "genre"

**Format**

Name	Format
Cardinality	Unique per manifestation of a resource
Requirement	Optional
Definition	The physical or digital manifestation of the resource. Use the descriptor Format to identify the format of a particular resource as it exists in its physical or digital form. Physical form = an actual physical form that occupies physical space, e.g. a tape. Digital form = a digital file residing on a server or hard drive.  Format may be used to determine the software, hardware or other equipment needed to display or operate the resource.
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:format/dc:format
Example	MPEG video
Refinement	Format Width, Format Height, Format Aspect Ratio, Format Medium, Format Mime Type, Format Channel, , Format Audio Format, Format Video Format, Format File Format, Format Start, Format Duration, Format File Size, Format Location
Mapping	DC PBCore

Name	Format Width
Cardinality	Unique per Format.
Requirement	Optional
Definition	The width of the image or picture. Used as numerator to define the aspect ratio for video content.
Format	Non Negative Integer
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:width
Example	16
Refinement	Unit

Name	Format Height
Cardinality	Unique per Format.
Requirement	Optional
Definition	The height of the image or picture. Used as denominator to define the aspect ratio for video content.
Format	Non Negative Integer
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:height
Example	9
Refinement	Unit

Name	Format Aspect Ratio
Cardinality	Unique per Format.
Requirement	Optional
Definition	The ratio of the width by the height of the image or picture.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition If required more information on the aspect ratio can be provided in the typeDefinition or note attribute.
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:format/ebucore:aspectRatio @typeLabel or /ebucore:coreMetadataType/ebucore:format/ebucore: aspectRatio @typeLink and (optional) /ebucore:coreMetadataType/ebucore:format/ebucore: aspectRatio @typeDefinition
Reference data	ebu:VisualAspectRatioCS
Example	typeLabel:16:9 typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_VisualAspectRatioCS.xml#3">http://www.ebu.ch/metadata/cs/ebu_VisualAspectRatioCS.xml#3</a> typeDefinition: the so-called "widescreen" picture format
Refinement	Note

Name	Format Medium
Cardinality	Multiple
Requirement	Optional
Definition	The material or physical carrier of the resource. If a file, it should be the carrier format.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:format/ebucore:medium @typeLabel and/or /ebucore:coreMetadataType/ebucore:format/ebucore:medium @typeLink and (optional) /ebucore:coreMetadataType/ebucore:format/ebucore:medium @typeDefinition
Reference data	<a href="#">ebu_StorageMediaTypeCode</a> (extension to IBTN, EBU Tech Doc 3279 - <a href="#">tec_doc_t3279-2004_tcm6-15016</a> )
Example	typeLabel: D5 format HDTV digital television tape typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_StorageMediaTypeCodeCS.xml#D5H">http://www.ebu.ch/metadata/cs/ebu_StorageMediaTypeCodeCS.xml#D5H</a>

Mapping	DC PBCore
Name	Format Mime Type
Cardinality	Unique per Format
Requirement	Optional
Definition	The main Mime type of the resource as defined by IANA.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:format/ebucore:mimeType @typeLabel or /ebucore:coreMetadataType/ebucore:format/ebucore:mimeType @typeLink and (optional) /ebucore:coreMetadataType/ebucore:format/ebucore:mimeType @typeDefinition
Reference data	MIME Type ( <a href="http://www.iana.org/assignments/media-types/">http://www.iana.org/assignments/media-types/</a> ) <a href="#">ebu_MediaTypeCS</a>
Example	typeLabel: video only typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_MediaTypeCS.xml#7.1.2">http://www.ebu.ch/metadata/cs/ebu_MediaTypeCS.xml#7.1.2</a> typeDefinition: the resource contains only video footage
Name	Format Channel
Cardinality	Unique per Format
Requirement	Optional
Definition	A description of the resource as a stream or per individual content channel e.g. audio, video, data.
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:channel
Refinement	Channel Type, Channel Format, Channel Encoding, Channel Bitrate, Channel Language
Name	Channel Encoding
Cardinality	Unique per Channel.
Requirement	Optional
Definition	Used to express the encoding parameters of the resource
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:format/ebucore:channel/ebucore:encoding @typeLabel and/or /ebucore:coreMetadataType/ebucore:format/ebucore:channel/ebucore:encoding@typeLink and(optional) /ebucore:coreMetadataType/ebucore:format/ebucore:channel/ebucore:encoding @typeDefinition
Reference data	<a href="#">ebu_VideoCompressionCodeCS</a> , <a href="#">ebu_AudioCompressionCodeCS</a> ,

Example	<p>typeLabel: H264 Main Profile @ Level 1</p> <p>typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_VideoCompressionCodeCS.xml#9.2.1">http://www.ebu.ch/metadata/cs/ebu_VideoCompressionCodeCS.xml#9.2.1</a></p> <p>typeDefinition: the video compression scheme H264, main profile, level1 as specified by ISO/IEC</p>
Mapping	PBCore

Name	Channel Type
Cardinality	Unique per Channel
Requirement	Optional
Definition	Indicates the usage made of the channel being described (e.g. a particular language track).
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	<p>typeGroup of attributes:</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:Channel@typeLabel</p> <p>and/or</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:Channel@typeLink</p> <p>and(optional)</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:Channel@typeDefinition</p>
Example	typeLabel: e.g. Original language, dubbing, alternative camera angle, etc.

Name	Channel Format
Cardinality	Unique per Channel
Requirement	Optional
Definition	Indicates the format of channel being described (e.g. audio, video, data).
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	<p>formatGroup of attributes:</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:channel@formatLabel</p> <p>and/or</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:channel@formatLink</p> <p>and(optional)</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:channel@formatDefinition</p>
Example	formatLabel: e.g. audio, video, data, stream (default: more than one component encapsulated)

Name	Channel Bitrate
Cardinality	Unique per Encoding
Requirement	Optional
Definition	Indicates the fixed or average bitrate at which the channel being described was encoded. The value is expressed in 'bits per second'
Format	Non Negative Integer
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:channel @bitrate
Example	13500

Name	Channel Language
Cardinality	Unique per Encoding

Requirement	Optional
Definition	Indicates the language of the channel being described.
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:channel @lang
Reference Data	<a href="#">ebu_Iso639_2LanguageCodeCS</a> , <a href="#">ebu_Iso639_1LanguageCodeCS</a>
Example	En

Name	Format Video Format
Cardinality	Multiple per Encoding
Requirement	Optional
Definition	To provide information on the Video Format in complement to video encoding information on e.g. colour, greyscale or black and white colour schemes, frame rate, sampling rate, scanning format.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:format/ebucore:videoFormat@typeLabel and/or /ebucore:coreMetadataType/ebucore:format/ebucore:videoFormat@typeLink and(optional) /ebucore:coreMetadataType/ebucore:format/ebucore:videoFormat@typeDefinition
Reference Data	<a href="#">ebu_ColourCodeCS</a> ; <a href="#">ebu_VideoFrameRateCS</a>
Example	{typeLabel: grayscale typeLink: <a href="http://www.ebu.ch/metadata/cs/web/ebu_ColourCodeCS_p.xml.htm#5">http://www.ebu.ch/metadata/cs/web/ebu_ColourCodeCS_p.xml.htm#5</a> typeDefinition: colour type} {typeLabel: progressive typeDefinition: scan type} {typeLabel: 50 typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_VideoFrameRateCS.xml#3">http://www.ebu.ch/metadata/cs/ebu_VideoFrameRateCS.xml#3</a> ; typeDefinition: frame rate}

Name	Format Audio Format
Cardinality	Unique per Encoding
Requirement	Optional
Definition	To provide information on the Audio Format in complement to audio encoding information
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:format/ebucore:audioFormat@typeLabel and/or /ebucore:coreMetadataType/ebucore:format/ebucore:audioFormat@typeLink and(optional) /ebucore:coreMetadataType/ebucore:format/ebucore:audioFormat@typeDefinition
Reference Data	<a href="#">ebu_AudioFormatCodeCS</a>

Example	<p>typeLabel: stereo</p> <p>typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_AudioFormatCodeCS.xml#4">http://www.ebu.ch/metadata/cs/ebu_AudioFormatCodeCS.xml #4</a></p> <p>typeDefinition: one 'left' and one 'right' audio channel</p>
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Name	Format File Format
Cardinality	Unique per Encoding
Requirement	Optional
Definition	To provide information on the File Format in complement to stream encoding information
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	<p>typeGroup of attributes:</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:fileFormat@typeLabel</p> <p>and/or</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:fileFormat@typeLink</p> <p>and(optional)</p> <p>/ebucore:coreMetadataType/ebucore:format/ebucore:fileFormat@typeDefinition</p>
Reference Data	<a href="#">ebu_FileFormatCS</a>
Example	<p>typeLabel : mpeg</p> <p>typeLink : <a href="http://www.ebu.ch/metadata/cs/ebu_FileFormatCS.xml#7.2.2">http://www.ebu.ch/metadata/cs/ebu_FileFormatCS.xml#7.2.2</a></p> <p>typeDefinition : The file format or wrapper defined by ISO/IEC (so called MPEG Transport Stream)</p>

Name	Format Start
Cardinality	Unique per Medium
Requirement	Optional
Definition	<p>The beginning point for playback of a time-based resource, such as within a digital video or audio track. Used in combination with Duration to identify a sequence or segment of a resource that has a fixed start time and end time.</p> <p>The start time can be expressed in different time forms inc. a timecode or a number of edit units.</p> <p>The Edit Unit is either the fraction of a second calculated as an inverse to the frame (video) or sample (radio) rate of the resource, or the smallest amount of time per unit (e.g. a second or millisecond). The start time is in this case an integer indicating a number of Edit Units.</p>
Format	ANSI/SMPTE 12M-1986 (Timecode), normal play time (RFC 2326), ISO 8601, edit units (e.g. samples, frames), seconds, milliseconds
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:start
Example	325 (Edit Units), 01:23:10:24 (Timecode)
Refinement	Time Format (e.g. RFC 3339 or Edit Unit or Timecode)
Mapping	PBCore

Name	Format Duration
Cardinality	Unique per physical realisation of an item
Requirement	Optional

Definition	Time-based duration (extent) of the resource. The duration can be expressed in different time forms inc. a timecode or a number of edit units. The Edit Unit is either the fraction of a second calculated as an inverse to the frame (video) or sample (radio) rate of the resource, or the smallest amount of time per unit (e.g. a second or millisecond). The duration is in this case an integer indicating a number of Edit Units.
Format	ANSI/SMPTE 12M-1986 (Timecode), edit units (e.g. samples, frames), seconds, milliseconds), normal play time (RFC 2326), ISO 8601
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:duration
Example	00:28:23:00 (timecode), PT1H31M25S (RFC 3339), 3245 (Edit Units)
Refinement	Time Format (e.g. RFC 3339 or Edit Unit or Timecode)
Mapping	PBCore

Name	Format Time Format
Cardinality	Unique per physical realisation of an item
Requirement	Optional
Definition	The Format in which a start time or duration is expressed
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:format/ebucore:timeFormat@typeLabel and/or /ebucore:coreMetadataType/ebucore:format/ebucore:timeFormat@typeLink and(optional) /ebucore:coreMetadataType/ebucore:format/ebucore:timeFormat@typeDefinition
Example	Timecode, RFC 3339, Edit Units
Reference Data	<a href="#">ebu_TimeFormatCS</a>

Name	Format File Size
Cardinality	Unique per Encoding
Requirement	Optional
Definition	To indicate the storage requirements or file size of a digital resource. The file size is expressed in bytes.
Format	Non Negative Integer
Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:fileSize
Example	23578
Mapping	PBCore

Name	Format Location
Cardinality	Unique per Medium
Requirement	Optional
Definition	An "address for a resource". For an organisation or producer acting as caretaker for a media resource, Format Location may contain information about a specific shelf location for an asset, including an organisation's name, departmental name, shelf id. and contact information. The Format Location for a data file or web page may include a complete URI with a domain, path, filename or html URL.
Format	Free text

Schema	/ebucore:coreMetadataType/ebucore:format/ebucore:Location
Reference data	URI: Unique resource Identifier, URL: Unique Resource Locator : <a href="http://tools.ietf.org/html/rfc3986">http://tools.ietf.org/html/rfc3986</a>
Example	"Archives Building A, Row J, Shelf 2", "d://payout/server/content.mpg", "http://www.ebu.ch/CorporateVideo.avi"
Mapping	PBCore

**Identifier**

Name	Identifier
Cardinality	Multiple
Requirement	Mandatory
Definition	A unique, unambiguous reference or identifier for a resource within a given context. Best practice is to identify the resource (whether analogue or digital) by means of a string or number corresponding to an established or formal identification system if one exists. Otherwise, use an identification method that is in use within your agency, station, production company, office, or institution.  It is also possible to enter more than one, different but still unique, identifier for the same resource.
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:identifier/dc:identifier
Example	06.0A.2B.34.01.01.01.01
Refinement	Identifier Type, Identifier Format, Identifier Note (optional additional contextual information)
Mapping	DC, PBCore

Name	Identifier Type
Cardinality	Unique per Identifier
Requirement	Optional
Definition	Used to define the type of Identifier used.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:identifier @typeLabel and/or /ebucore:coreMetadataType/ebucore:identifier @typeLink and (optional) /ebucore:coreMetadataType/ebucore:identifier @typeDefinition
Example	typeLabel: Main typeDefinition: main identifier attributed to the resource
Mapping	PBCore

Name	Identifier Format
Cardinality	Unique per Identifier
Requirement	Optional
Definition	Used in combination with the resource Identifier. It can denote the agency or institution who specified or assigned it.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label).

Schema	formatGroup of attributes: /ebucore:coreMetadataType/ebucore:identifier @formatLabel or /ebucore:coreMetadataType/ebucore:identifier @formatLink and (optional) /ebucore:coreMetadataType/ebucore:identifier @formatDefinition
Reference data	<a href="#">ebu_IdentifierTypeCodeCS</a> , URI - Unique Resource Identifier: <a href="http://tools.ietf.org/html/rfc3986">http://tools.ietf.org/html/rfc3986</a>
Example	formatLabel: SMPTE Unique Material Identifier (UMID) formatLink: <a href="http://www.ebu.ch/metadata/cs/ebu_IdentifierTypeCodeCS.xml#1.1">http://www.ebu.ch/metadata/cs/ebu_IdentifierTypeCodeCS.xml#1.1</a> formatDefinition: a unique identifier as defined by SMPTE 330M

**Source**

Name	Source
Cardinality	Multiple
Requirement	Optional
Definition	Reference to the resource (s) from which the current resource is derived in whole or in part.  If no label or number is available, the title and/or the statement of responsibility etc. of the digitized recording is recorded here. For a digitized radio programme the production number is normally given here.  The Recommended best practice is to use a unique identifier to identify the physical source that has been used to create the digital resource. In the case of a digitized analogue recording, it is the recording used for digitization which is the source. For commercial recordings the label and number is normally given here.
Format	Free text
Schema	/ebucore:coreMetadataType/dc:source
Example	Eurovision feed 2007-07-16T19:20:30.45+01:00
Mapping	DC

**Language**

Name	Language
Cardinality	Multiple
Requirement	Optional
Definition	Identifies languages and their use in the intellectual content of the resource. Recommended best practice for the values of the Language element is defined by RFC 1766, which includes a two-letter Language Code (taken from the ISO Standard 639), followed optionally, by a two-letter Country Code (taken from the ISO Standard 3166). For example, 'en' for English, 'fr' for French, or 'en-uk' for English used in the United Kingdom.  More contextual information can be provided using the "note" attribute.
Format	Free text or code (ISO 639-1 or ISO 639-2 optionally combined with an ISO 3166 country code, in compliance with RFC 3066)
Schema	/ebucore:coreMetadataType/ebucore:language/dc:language or /ebucore:coreMetadataType/ebucore:language/ebucore:languageCode
Reference data	<a href="#">ebu_Iso639_1LanguageCodeCS</a> , <a href="#">ebu_Iso639_2LanguageCodeCS</a> , <a href="#">ebu_Iso3166CountryCodeCS</a>
Example	FR, EN-UK

Refinement	Language type, note
Mapping	DC, PBCore

Name	Language Type
Cardinality	Unique per Language
Requirement	Optional
Definition	Indicates the usage/purpose of the language described by the Language element.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:language@typeLabel or /ebucore:coreMetadataType/ebucore:language@typeLink and (optional) /ebucore:coreMetadataType/ebucore:language@typeDefinition
Reference data	<a href="#">ebu_LanguagePurposeCodeCS</a>
Example	typeLabel: Main original language typeLink: <a href="http://www.ebu.ch/metadata/cs/ebu_LanguagePurposeCodeCS.xml#1.1">http://www.ebu.ch/metadata/cs/ebu_LanguagePurposeCodeCS.xml#1.1</a> typeDefinition: the main language as originally created/captured for the resource

### **Relation**

Name	Relation
Cardinality	Multiple per relation
Requirement	Optional
Definition	Recommended best practice is to reference the resource (to which the current resource under description is related) by means of a string or number conforming to a formal identification system.  Relation is used to show the relation in content to another resource. For example, "IsPartOf" is used to show the relation between a part of a radio programme and the whole programme or between a track and a record album. A resource can be identified by its title, or an identifier (possibly a URI). The related item has its own separate metadata record. Relation is used to provide a name, an identification number or ID, or a locator where the related item can be found.
Format	String, identifier or URI
Schema	/ebucore:coreMetadataType/ebucore:relation/dc:relation /ebucore:coreMetadataType/ebucore:relation/ebucore:relationIdentifier /ebucore:coreMetadataType/ebucore:relation/ebucore:relationLink
Example	EBU Core Video (documentary), 06.0A.2B.34.01.01.01.01, <a href="http://www.etf.zk/EbuCoreVideo.mpg">http://www.etf.zk/EbuCoreVideo.mpg</a>
Refinement	Relation Type, Relation Format, Running Order Flag
Mapping	DC, PBCore

Name	Relation Type
Cardinality	Unique per Relation
Requirement	Optional

Definition	To show the type of relation to another resource, e.g. identifies ways in which the resource is related by intellectual content to some other resource. The relation type shall be used if none of the following predefined relations can be used: isVersionOf / hasVersion isReplacedBy / replaces isRequiredBy / requires isPartOf / hasPart isReferencedBy / references isFormatOf / hasFormat
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:relation@typeLabel and/or /ebucore:coreMetadataType/ebucore:relation@typeLink and (optional) /ebucore:coreMetadataType/ebucore:relation@typeDefinition
Reference data	<a href="#">tva_HowRelatedCS</a>
Example	typeLabel: IsTrailerOf typeLink: <a href="http://www.ebu.ch/metadata/cs/tva_HowRelatedCS.xml#1.2">http://www.ebu.ch/metadata/cs/tva_HowRelatedCS.xml#1.2</a> typeDefinition: the current resource is a trailer of the resource identified by one of the relation elements: dc:relation or relationidentifier or relationLink
Mapping	PBCore

Name	Running Order Flag
Cardinality	Unique
Requirement	Optional
Definition	If set (true), optional field to indicate that the relation is hierarchical and that there is an order in which content is chronologically related, which would be described in a Description element.
Format	Boolean
Schema	/ebucore:assetDescriptivecoreMetadataMetadataType/ebucore:relation@runningOrderFlag

### Coverage

Name	Coverage
Cardinality	Unique
Requirement	Optional
Definition	Coverage is used to show various time and place aspects of the subject of the content. Coverage will typically include spatial location (a place name or geographic coordinates), temporal period (a period label, date, or date range) or jurisdiction (such as a named administrative entity).  Recommended best practice is to select a value from a controlled vocabulary (for example, the Thesaurus of Geographic Names) and that, where appropriate, named places or time periods be used in preference to numeric identifiers such as sets of coordinates or date ranges.
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:coverage/dc:coverage
Example	London, 15 <sup>th</sup> Century

Refinement	Coverage Temporal, Coverage Spatial
Mapping	DC, PBCore

Name	Coverage Temporal
Cardinality	Unique per Coverage
Requirement	Optional
Definition	Temporal characteristics of the content of the resource. To indicate e.g. dates, times or periods specific to the resource in complement to Description.
Format	Free text, ISO 8106, W3C-DTF (Date and Time Format)
Schema	/ebucore:coreMetadataType/ebucore:coverage/ebucore:temporal
Refinement	Temporal Period of Time, Temporal Type
Mapping	DC, PBCore

Name	Period of Time
Cardinality	Unique per Period of Time
Requirement	Optional
Definition	To provide detailed information on the time boundaries and period of time related to the resource.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition.
Schema	dateGroup of attributes /ebucore:coreMetadataType/ebucore:coverage/ebucore:temporal/ ebucore:periodOfTime/@startDate and/or /ebucore:coreMetadataType/ebucore:coverage/ebucore:temporal/ ebucore:periodOfTime/ @endDate and (optional) /ebucore:coreMetadataType/ebucore:coverage/ebucore:temporal/ ebucore:periodOfTime/ @period
Example	startDate: 2008-12-5T00:30:45 endDate: 2008-12-7T13:03:05 period: Christmas 2008

Name	Temporal Type
Cardinality	Unique per Temporal
Requirement	Optional
Definition	To precise the type of temporal information provided.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition
Schema	typeGroup of attributes: /ebucore:coreMetadataType/ebucore:coverage/ebucore:temporal/ @typeLabel and/or /ebucore:coreMetadataType/ebucore:coverage/ebucore:temporal/ @typeCode and (optional) /ebucore:coreMetadataType/ebucore:coverage/ebucore:temporal/ @typeDefinition

Example	typeLabel: Fictional action date typeDefinition: the date at which the event presented is supposed to take place
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Name	Coverage Spatial
Cardinality	Unique per Coverage
Requirement	Optional
Definition	Spatial characteristics of the content of the resource.
Schema	/ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial
Refinement	Location Name
Mapping	DC, PBCore

Name	Location
Cardinality	Multiple
Requirement	Optional
Definition	To indicate e.g. specific place and location aspects of the resource in complement to Description.
Format	Classification scheme (code), free text or the latitude and longitude expressed in decimal degrees [D.d]
Schema	/ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial/ ebucore:location/Name or /ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial/ ebucore:locationName/Code or {/ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial/ ebucore:locationName/posx <u>AND</u> /ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial/ ebucore:locationName/posy}
Reference data	<a href="#">ebu:UNTerritoryCodeCS</a> , <a href="#">ebu:Iso3166CountryCodeCS</a> . Thesaurus of Geographic Names, latitude and longitude coordinates
Example	Name: London Code: W1AA 4WW posx (longitude): -0.15 posy (latitude): 51.49
Refinement	Location Name Type, Location Name Note (optional additional contextual information)

Name	Location Name Type
Cardinality	Unique per Location Name
Requirement	Optional
Definition	To precise the type of place and location.
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an optional definition

Schema	<p>typeGroup of attributes:</p> <p>/ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial/ebucore:locationName@typeLabel</p> <p>and/or</p> <p>/ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial/ebucore:locationName@typeCode</p> <p>and (optional)</p> <p>/ebucore:coreMetadataType/ebucore:coverage/ebucore:spatial/ebucore:locationName@typeDefinition</p>
Reference data	<a href="#">ebu:UNTerritoryCodeCS</a> , <a href="#">ebu:Iso3166CountryCodeCS</a> . Thesaurus of Geographic Names
Example	<p>typeLabel: City</p> <p>typeDefinition: to provide the name of a city</p>

### **Rights**

Name	Rights
Cardinality	Multiple
Requirement	Optional
Definition	<p>An all-purpose field to identify information (rights management statement or reference to a service providing such information e.g. via a URL) about copyright, intellectual property rights or other property rights held in and over a resource, stating whether access is open or restricted in some way. If dates, times, territories and availability periods are associated with a right, they should be included.</p> <p>If the Rights element is absent, no assumptions can be made about the status of these and other rights with respect to the resource.</p>
Format	Free text, URL
Schema	<p>/ebucore:coreMetadataType/ebucore:rights/dc:rights</p> <p>or</p> <p>/ebucore:coreMetadataType/ebucore:rights/ebucore:rightsLink</p>
Example	Copyright limited to United Kingdom satellite broadcast delivery
Refinement	Rights Type, Rights Holder, Coverage, Exploitation Issues
Mapping	DC, PBCore

Name	Rights Type
Cardinality	Unique per Rights
Requirement	Optional
Definition	Used to define the type of rights expressed
Format	Classification scheme link (reference data file URL plus an optional classification scheme term code) or free text (label) and an definition (optional)
Schema	<p>typegroup of attributes:</p> <p>/ebucore:coreMetadataType/ebucore:rights@typeLabel</p> <p>and/or</p> <p>/ebucore:coreMetadataType/ebucore:rights@typeCode</p> <p>and (optional)</p> <p>/ebucore:coreMetadataType/ebucore:rights@typeDefinition</p>
Example	<p>typeLabel: e.g. Licence</p> <p>typeDefinition: the terms and conditions under which the resource can be used</p>

Name	Rights Holder
Cardinality	Multiple
Requirement	Optional
Definition	A person or organisation owning or managing the rights of the resource.
Format	EBU Core Entity Type (see below) /ebucore:coreMetadataType/ebucore:creator/ebucore:entity
Schema	/ebucore:coreMetadataType/ebucore:rights/ebucore:rightsHolder
Example	contactDetails:name: Drama Production Ltd
Refinement	Entity (Contact Details, Organisation Details, Role)
Mapping	DC, PBCore

Name	Coverage
Cardinality	Unique per Rights description
Requirement	Optional
Definition	Specifies a specific start date, end date or period for the availability of the item or the date from which the rights or exploitation issues apply. It may refer to start dates for the availability of an item that is used within a particular geographical area e.g. broadcast locally, regionally, nationally or internationally, or for web-based distribution. A specific time may also be associated with the date.
Format	ISO 8601, W3C-DTF (DATE AND TIME FORMAT)
Schema	/ebucore:coreMetadataType/ebucore:rights/ebucore:coverage
Example	(from) 01 January 2007 - (to) 31 December 2007
Mapping	DC, PBCore

Name	Exploitation Issues
Cardinality	Multiple
Requirement	Optional
Definition	Use to state any other restrictions, such as non-rights ones, e.g. legal. State by media, territory, scope (restriction on whole item or extracts) and possibly language. The presence of this information can be used by asset management system implementing traffic lights like mechanism to signal that content may be subject to particular restrictions to be clarified before exploitation.
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:rights/ebucore:exploitationIssues
Example	Legal restriction, editorial embargo, etc.

### **Version**

Name	Version
Cardinality	Unique
Requirement	Optional
Definition	Expresses the version type.
Format	Enumerated list, classification scheme or free text
Schema	/ebucore:coreMetadataType/ebucore:version
Example	UK Version, US Version, home video version, etc.
Mapping	'Version' is not a Dublin Core element but would be mapped to dc:description

**Publication History**

Name	Publication History
Cardinality	Unique
Requirement	Optional
Definition	To provide information about the publication history.
Schema	/ebucore:coreMetadataType/ebucore:publicationHistory
Refinement	First Transmission Date/Time, First Transmission Channel, Repeat Date/Time, Repeat Channel

Name	First Transmission Date / Time
Cardinality	Unique
Requirement	Optional
Definition	The first transmission date
Format	RFC 3339 (dateTime). Note that RFC 3339 is more strict than the <u>W3C Date and Time Format</u> . In particular, all portions of the date and time must be present, with the exception of the fractional portions of the second, which may be omitted.
Schema	/ebucore:coreMetadataType/ebucore:publicationHistory/ ebucore:firstTransmissionDateTime
Example	2007-09-01T10:00:03:00

Name	First Transmission Channel
Cardinality	Unique
Requirement	Optional
Definition	The channel on which the title was first transmitted
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:publicationHistory/ ebucore:firstTransmissionChannel
Example	Channel 1

Name	Repeat Date / Time
Cardinality	Multiple
Requirement	Optional
Definition	Subsequent transmission date and time
Format	RFC 3339 (dateTime). Note that RFC 3339 is more strict than the <u>W3C Date and Time Format</u> . In particular, all portions of the date and time must be present, with the exception of the fractional portions of the second, which may be omitted.
Schema	/ebucore:coreMetadataType/ebucore:publicationHistory/ ebucore:repeatDateTime
Example	2007-09-01T10:00:03:00

Name	Repeat Channel
Cardinality	Unique per Repeat Date / Time
Requirement	Optional
Definition	The channel on which the title was subsequently transmitted
Format	Free text
Schema	/ebucore:coreMetadataType/ebucore:publicationHistory/ ebucore:repeatChannel
Example	Channel 2

**Metadata Provider**

Name	Metadata Provider
Cardinality	Unique per asset management description
Requirement	Required
Definition	Identifies the metadata provider, e.g. the contributing archive. The organisation Id or name provides the archive ID or name required for OAI metadata harvesting operation.
Format	EBU Core Entity Type (see below) /ebucore:coreMetadataType/ebucore:creator/ebucore:entity
Schema	/ebucore:coreMetadataType/ebucore:metadataProvider
Example	organisationDetails:organisationName: EBU

**Entity (Contact Details, Organisation Details, Role), Note**

Name	Entity
Cardinality	Unique
Requirement	Optional
Definition	Provides details information about a person, a group of persons, or organisation
Schema	/ebucore:coreMetadataType/ebucore:creator/ebucore:entity /ebucore:coreMetadataType/ebucore:contributor/ebucore:entity /ebucore:coreMetadataType/ebucore:publisher/ebucore:entity /ebucore:coreMetadataType/ebucore:rights//ebucore:rightsOwner/ ebucore:entity /ebucore:coreMetadataType/ebucore:rights//ebucore:metadataProvider/ ebucore:entity
Refinement	Contact Details, Organisation Details, Role

Name	Contact Details
Cardinality	Unique per Entity
Requirement	Optional
Definition	Minimum information providing means to further identify and contact the entity.
Format	EBU Core Contact Details Type (see schema in Annex A): name: e-mail, occupation, stage name, contacts
Refinement	Contact Id, Name, Contact Email Address, Contact Occupation, Stage Name, Related Contacts (entity)

Name	Organisation Details
Cardinality	Unique per Entity
Requirement	Optional
Definition	Minimum information providing means to further identify and contact the entity.
Format	EBU Core Organisation Details Type (see schema in Annex A): name, departement, web address, contacts
Refinement	Organisation Id, Organisation Name, Organisation Department, Organisation Web Address, Contacts (entity)

Name	Role
Cardinality	Unique per Subject Type
Requirement	Optional
Definition	Used to identify the function fulfilled by the person, group or organisation described as an entity.
Format	Enumerated list, classification scheme or free text
Reference data	<a href="#">ebu_RoleCodeCS</a>
Example	Director
Mapping	PBCore, Tech 3293

### 3. Implementation Guidelines

#### 3.1 General remarks

Several aspects of the specification are left to the appreciation of the implementer (e.g. regarding the mapping to pre-existing in-house metadata schemas).

Reference data identified above is proposed by default but can be extended or replaced. In order to maximise interoperability in case of e.g. exchange, it is recommended that extensions or alternative reference data be duly documented, maintained and made available to other users e.g. as open resources on the Internet.

The schema proposed in Annex A is built as an extension to the Simple Dublin Core to facilitate transformation to the Simple Dublin Core representation as required by certain applications such as the European Digital Library. For the same reason, it is recommended to use predefined 'relations' when needed.

#### 3.2 Use of the attribute groups

##### 3.2.1 typeGroup, formatGroup, statusGroup

Each of these groups consists of the same three attributes: a 'label', a 'definition' and a 'link'.

- a) A 'label' gives the actual name given to the *type*, *format* or *status*. For example, 'episode' will be used to specify that the type of Title provided is the title of an episode.
- b) A 'definition' can be used to provide either a definition of the *type*, *format* or *status*, or the name of the reference data set where this *type*, *format* or *status* is defined.
- c) A 'link' is used to provide a URI to a Classification Scheme (in complement to the 'label') or to a Classification Scheme term (in this case the use of the label is optional).

##### 3.2.2 dateGroup

This group is only associated to a title or alternative title. It consists of three attributes: 'endDate', 'startDate' and 'period'.

Precise date and/or time periods shall be defined using the 'startDate' and 'endDate'.

The 'period' attribute is used to define a period by its name e.g. 'April 2000'.

### 3.3 Reference data

Lists of controlled terms are handled by Classification Schemes structured to allow access to terms from a predefined hierarchical vocabulary list (thesaurus). Each list is uniquely identified by its namespace (URI<sup>1</sup>, in the form of a URN<sup>2</sup> or URL<sup>3</sup>) and 'Alias'. EBU namespaces are expressed in accordance to RFC5174<sup>4</sup>. A Classification Term is defined by a unique key (termID) or a name as follows:

*Example:*

```
<ClassificationScheme uri="urn:ebu:metadata-cs:ContentGenreCS:2008">
  <Alias>GenreCS</Alias>
  <Term termID="3.1">
    <Name xml:lang="en">NON-FICTION / INFORMATION</mpeg7:Name>
    <Term key="3.1.1">
      <Name xml:lang="en">News</mpeg7:Name>
    </Term>
    <!--etc.-->
  </ClassificationScheme>
```

It is an important implementation requirement to ensure that these resources are accessible by the metadata recipient. Classification schemes shall preferably be available as resources on the open Internet via maintained URLs. In this case URIs shall respect the following syntax:

URL#termID e.g. [http://www.ebu.ch/metadata/cs/ebu\\_ContentGenreCS.xml#3.1](http://www.ebu.ch/metadata/cs/ebu_ContentGenreCS.xml#3.1)

A conforming parser uses that URI to resolve the termID reference to a resource, whether physical or logical. Once the termID has been resolved, the term name can be accessed (e.g. 'News' in the above example). This resolution method is left to the appreciation of each recipient.

URIs (URLs) can be replaced by aliases to provide a more concise, application-specific way of referring to classification terms as long as a look-up table is provided describing the relationship between Aliases and URIs.

If 'GenreCS' is the alias for [http://www.ebu.ch/metadata/cs/ebu\\_ContentGenreCS.xml](http://www.ebu.ch/metadata/cs/ebu_ContentGenreCS.xml), in the above example 'News' will be accessed through "GenreCS#3.1".

## 4. Maintenance

The EBU Core Metadata Set is maintained by the EBU and suggestions for corrections or additions can be made by mailing to ([metadata@ebu.ch](mailto:metadata@ebu.ch)). EBU members can also provide feedback via the EBU Technical Department's wiki (<http://wiki.ebu.ch/technical/P/MAG>).

Contributions will be subject to peer review by the metadata experts participating in P/MAG (<http://tech.ebu.ch/groups/pmag>), a specialised Project Group of the Production Management Committee (PMC) (<http://tech.ebu.ch/groups/details/pmc>).

<sup>1</sup> Unique Resource Identifier - <http://tools.ietf.org/html/rfc3986>

<sup>2</sup> Unique Resource Namespace - <http://tools.ietf.org/html/rfc3986>

<sup>3</sup> Unique Resource Locator - <http://tools.ietf.org/html/rfc3986>

<sup>4</sup> EBU Namespace - <http://tools.ietf.org/html/rfc5174>

## 5. Download Zone

Filename	Document description	Contents
<a href="#">Tech3293_2008_EBUCoreMetadataSet.zip</a>	Schema	EBU_Core_Metadata_Set.xsd, xml.xsd, simpledc20021212-UK.xsd*
<a href="http://www.ebu.ch/metadata/cs/EBU_cs_p.zip">http://www.ebu.ch/metadata/cs/EBU_cs_p.zip</a>	EBU Classification Schemes	Updated list of EBU Classification Schemes

- The Simple Dublin Core Schema modified to set the language by default to UK-English instead of US-English.

## 6. Useful links

Dublin Core (<http://dublincore.org>)

EBU Metadata (<http://www.ebu.ch/en/technical/metadata/specifications/index.php>)

EBU Metadata News (<http://www.ebu.ch/metadata/index.html>)

PBCore ([www.pbcore.org/index.html](http://www.pbcore.org/index.html))

EDLNet ([www.europeandigitallibrary.eu/edlnet](http://www.europeandigitallibrary.eu/edlnet))

IOC - International Olympic Committee (<http://www.olympic.org/uk/sports/>)

ISO (<http://www.iso.org>)

ISO 4217 - Currency codes:

<http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html>

ISO 3166-1 - Country codes (English):

<http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/list-en1.html>

ISO 3166-1 - Country codes (French):

<http://www.iso.ch/iso/en/prods-services/iso3166ma/02iso-3166-code-lists/list-fr1.html>

ISO 639 - Language codes: <http://www.loc.gov/standards/iso639-2/>

IETF

RFC 3339 (Date and time on the Internet): <http://tools.ietf.org/html/rfc3339>

RFC5174 (EBU namespace): <http://tools.ietf.org/html/rfc5174>

IANA MIME Type: <http://www.iana.org/assignments/media-types/>

Thesaurus of Geographic Names: <http://www.getty.edu/research/tools/vocabulary/tgn/index.html>

## 7. Bibliography

- EBU Technical Information I36-2003 - Metadata Implementation considerations for Broadcasters
- EBU Tech 3293-2001 - Core Metadata Set for Radio Archives
- EBU Tech 3295 - P-META Metadata Library



## Annex A: EBU Core Metadata Set Schema

The EBU Core Metadata schema is used to generate EBU Core Metadata instances formed of an `ebuCoreMain` document.

The `ebuCoreMain` document contains several attributes required to contribute to OAI (Open Archive Initiative) for metadata harvesting. These attributes include the name of the schema (in case the schema location urn would not be present), the version of the schema used to generate the document, the date of last modification of the document and a unique identifier associated to the document. The name of the contributing archive is given by the metadata provider's organisation name or ID.

Resource related information is provided by the `coreMetadata` element.

### EBU CORE XML SCHEMA

```
<?xml version="1.0" encoding="UTF-8"?>
<schema xmlns="http://www.w3.org/2001/XMLSchema"
  xmlns:ebucore="urn:ebu:metadata-schema:ebuCoreMetadataSet_2008"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  targetNamespace="urn:ebu:metadata-schema:ebuCoreMetadataSet_2008" elementFormDefault="qualified">
  <import namespace="http://www.w3.org/XML/1998/namespace" schemaLocation="xml.xsd"/>
  <import namespace="http://purl.org/dc/elements/1.1/" schemaLocation="simpledc20021212-UK.xsd"/>
  <element name="ebuCoreMain" type="ebucore:ebuCoreMainType"/>
  <complexType name="ebuCoreMainType">
    <annotation>
      <documentation> ebuCoreMain is the body of a document using the EBU Core metadata set
      </documentation>
    </annotation>
    <sequence>
      <element name="coreMetadata" type="ebucore:coreMetadataType"/>
    </sequence>
    <attribute name="schema" default="ebuCoreMetadataSet_2008.xsd">
      <annotation>
        <documentation> The name fo the schema for OAI management. </documentation>
      </annotation>
    </attribute>
    <attribute name="version" default="1.0">
      <annotation>
        <documentation> The version fo the schema for OAI management. </documentation>
      </annotation>
    </attribute>
    <attribute name="dateLastModified" type="date">
      <annotation>
        <documentation> The date of edition of the metadata instance for OAI management
        </documentation>
      </annotation>
    </attribute>
    <attribute name="documentId" type="string">
      <annotation>
        <documentation> The unique Identifier of the metadata instance for OAI
        management </documentation>
      </annotation>
    </attribute>
  </complexType>
  <complexType name="coreMetadataType">
    <annotation>
      <documentation>The document containing all the core information regarding the
      resource</documentation>
    </annotation>
    <sequence>
      <sequence>
        <element name="title" type="ebucore:titleType" maxOccurs="unbounded">
```

```

    <annotation>
      <documentation>It is the name by which the resource (e.g. a media item,
        media object, sequence) is formally known and that everyone should
        primary use to refer to or search for that particular resource.
      </documentation>
    </annotation>
  </element>
  <element name="alternativeTitle" type="ebucore:titleType" minOccurs="0"
    maxOccurs="unbounded">
    <annotation>
      <documentation>It is another name by which the resource (e.g. a media item,
        media object, sequence) is known and that could alternatively be
        used to
        refer to or search for that particular resource. </documentation>
    </annotation>
  </element>
</sequence>
<element name="creator" type="ebucore:entityType" minOccurs="0" maxOccurs="unbounded"/>
<element name="subject" type="ebucore:subjectType" minOccurs="0" maxOccurs="unbounded"/>
<element name="description" type="ebucore:descriptionType" minOccurs="0"
  maxOccurs="unbounded"/>
<element name="publisher" type="ebucore:entityType" minOccurs="0" maxOccurs="unbounded">
  <annotation>
    <documentation> A publisher is a person, an organization, or a service.
      Typically, the name of a Publisher should be used to indicate the entity
      primarily responsible for distributing or making a resource available to
      others e.g. by broadcasting, selling, leasing, renting and other modes of
      distribution.</documentation>
  </annotation>
</element>
<element name="contributor" type="ebucore:entityType" minOccurs="0"
  maxOccurs="unbounded">
  <annotation>
    <documentation> The descriptor contributor identifies a person or organization
      that has made substantial creative contributions to the content of a
      resource. Refers particularly (but not only) to participation in front of
      the camera If in doubt whether an entity is a creator or contributor use the
      element contributor.</documentation>
  </annotation>
</element>
<element name="date" type="ebucore:dateType" minOccurs="0" maxOccurs="unbounded"/>
<element name="type" type="ebucore:typeType" minOccurs="0" maxOccurs="unbounded"/>
<element name="format" type="ebucore:formatType" minOccurs="0" maxOccurs="unbounded"/>
<element name="identifier" type="ebucore:identifierType" minOccurs="1"
  maxOccurs="unbounded"/>
<element ref="dc:source" minOccurs="0" maxOccurs="unbounded">
  <annotation>
    <documentation>Reference to the resource (s) from which the current resource is
      derived in whole or in part. If no label or number is available, the title
      and/or the statement of responsibility etc. of the digitized recording is
      recorded here. For a digitized radio programme the production number is
      normally given here. The Recommended best practice is to use a unique
      identifier to identify the physical source that has been used to create the
      digital resource. In the case of a digitized analogue recording, it is the
      recording used for digitization which is the source. For commercial
      recordings the label and number is normally given here. </documentation>
  </annotation>
</element>
<element name="language" type="ebucore:languageType" minOccurs="0" maxOccurs="unbounded"/>
<element name="relation" type="ebucore:relationType" minOccurs="0" maxOccurs="unbounded"/>
<element name="isVersionOf" type="ebucore:relationType" minOccurs="0"
  maxOccurs="unbounded"/>
<element name="hasVersion" type="ebucore:relationType" minOccurs="0"
  maxOccurs="unbounded"/>
<element name="isReplacedBy" type="ebucore:relationType" minOccurs="0"
  maxOccurs="unbounded"/>
<element name="replaces" type="ebucore:relationType" minOccurs="0" maxOccurs="unbounded"/>
<element name="isRequiredBy" type="ebucore:relationType" minOccurs="0"
  maxOccurs="unbounded"/>
<element name="requires" type="ebucore:relationType" minOccurs="0" maxOccurs="unbounded"/>
<element name="isPartOf" type="ebucore:relationType" minOccurs="0" maxOccurs="unbounded"/>
<element name="hasPart" type="ebucore:relationType" minOccurs="0" maxOccurs="unbounded"/>
<element name="isReferencedBy" type="ebucore:relationType" minOccurs="0"
  maxOccurs="unbounded"/>
<element name="references" type="ebucore:relationType" minOccurs="0"

```

```

        maxOccurs="unbounded"/>
    <element name="isFormatOf" type="ebucore:relationType" minOccurs="0"
        maxOccurs="unbounded"/>
    <element name="hasFormat" type="ebucore:relationType" minOccurs="0"
        maxOccurs="unbounded"/>
    <element name="coverage" type="ebucore:coverageType" minOccurs="0" maxOccurs="unbounded">
        <annotation>
            <documentation> Coverage is used to show various time and place aspects of the
                subject of the resource. </documentation>
        </annotation>
    </element>
    <element name="rights" type="ebucore:rightsType" minOccurs="0" maxOccurs="unbounded"/>
    <element name="version" type="dc:elementType" minOccurs="0">
        <annotation>
            <documentation xml:lang="en">UK Version, US Version, home video version, etc.
                Mapping to Dublin Core would be made using a description
                element</documentation>
        </annotation>
    </element>
    <element name="publicationHistory" type="ebucore:publicationHistoryType" minOccurs="0"/>
    <element name="metadataProvider" type="ebucore:entityType">
        <annotation>
            <documentation>Identifies the metadata provider, e.g. the contributing archive.
                The organisation Id or name provide the archive ID or name required for OAI
                metadata harvesting operation. </documentation>
        </annotation>
    </element>
</sequence>
</complexType>
<complexType name="titleType">
    <annotation>
        <documentation> The name given to a resource e.g. a media item, media object, sequence.
            For a series - use the series title; for a programme - a programme title; for an
            item - an item title, etc. To differentiate between a series title and programme
            title when these are identical, recommended best practice is to use a date along
            with the programme title. For example, "News" is a series title; "News 2007.11.12"
            is a programme title. Titles are recorded as they appear. </documentation>
    </annotation>
    <sequence>
        <element ref="dc:title">
            <annotation>
                <documentation> The EBU core metadata set is built as a refinement of the Dublin
                    Core. </documentation>
            </annotation>
        </element>
    </sequence>
    <attributeGroup ref="ebucore:typeGroup">
        <annotation>
            <documentation> The typeGroup is used to define the type of Title such as Episode,
                Programme, Collection, Programme Group, Series, Item, Scene, Shot, Element,
                Segment, Project, , Series Number, Episode Number, Scene Number, Take Number
                Recording, Album, etc. The name of the type can be provided in the form of a
                text label, or a link to a code of a classification scheme, optionally
                accompanied by a definition</documentation>
        </annotation>
    </attributeGroup>
    <attributeGroup ref="ebucore:statusGroup">
        <annotation>
            <documentation> The formatGroup is used to define the format of the Title such as
                short, long, full, abridged, working, transmission, published, international,
                subtitle, original, main, secondary, alternative, pledged, etc. The name of the
                format can be provided in the form of a text label, or a link to a code of a
                classification scheme, optionally accompanied by a definition</documentation>
        </annotation>
    </attributeGroup>
    <attributeGroup ref="ebucore:dateGroup">
        <annotation>
            <documentation> Defines the date of creation/attribution or the period of validity
                or use of this Title. </documentation>
        </annotation>
    </attributeGroup>
    <attribute name="note" type="string">
        <annotation>
            <documentation> Optional additional contextual information. </documentation>
        </annotation>
    </attribute>

```

```

</attribute>
</complexType>
<complexType name="identifierType">
  <annotation>
    <documentation> A unique, unambiguous reference or identifier for a resource within a
    given context. Best practice is to identify the resource (whether analogue or
    digital) by means of a string or number corresponding to an established or formal
    identification system if one exists. Otherwise, use an identification method that is
    in use within your agency, station, production company, office, or institution. It
    is also possible to enter different but unique identifiers for the same resource.
    </documentation>
  </annotation>
  <sequence>
    <element ref="dc:identifier">
      <annotation>
        <documentation> The EBU core metadata set is built as a refinement of the Dublin
        Core. </documentation>
      </annotation>
    </element>
  </sequence>
  <attributeGroup ref="ebucore:typeGroup">
    <annotation>
      <documentation> The typeGroup is used to define the type of Identifier e.g. Main or
      Alternative </documentation>
    </annotation>
  </attributeGroup>
  <attributeGroup ref="ebucore:formatGroup">
    <annotation>
      <documentation> The formatGroup is used to define the format of Identifier used e.g.
      SMPTE UMID, ISO ISAN, IETF URI, ISRC, custom, etc. </documentation>
    </annotation>
  </attributeGroup>
  <attribute name="note" type="string">
    <annotation>
      <documentation> Optional additional contextual information. </documentation>
    </annotation>
  </attribute>
</complexType>
<complexType name="subjectType">
  <annotation>
    <documentation>The generalised topic of that represents the intellectual content of the
    resource. Typically, a subject is expressed by keywords, key phrases, or even
    specific classification codes. Controlled vocabularies, authorities, or formal
    classification schemes may be employed when selecting descriptive subject terms. It
    is possible to employ both keywords, derived from a formal classification scheme,
    such as Dewey or UDC, and genres/subgenres such as those produced by TV-Anytime or
    Escort, to cover Subject(s) and Genre(s) and enter as appropriate Subject Type
    below. Persons as subjects are also placed here. Genre of the content is placed
    under element Type. </documentation>
  </annotation>
  <sequence>
    <element ref="dc:subject" minOccurs="0">
      <annotation>
        <documentation>To express the subject in the form of free text. </documentation>
      </annotation>
    </element>
    <element name="subjectCode" type="anyURI" minOccurs="0">
      <annotation>
        <documentation>To alternatively express the subject using predefined terms
        expressed by classification codes</documentation>
      </annotation>
    </element>
    <element name="subjectDefinition" type="string" minOccurs="0">
      <annotation>
        <documentation>To provide a definition of the subject</documentation>
      </annotation>
    </element>
  </sequence>
  <attributeGroup ref="ebucore:typeGroup">
    <annotation>
      <documentation> To define the type of subject reference in use </documentation>
    </annotation>
  </attributeGroup>
  <attribute name="note" type="string">
    <annotation>

```

```

        <documentation> Optional additional contextual information. </documentation>
    </annotation>
</attribute>
</complexType>
<complexType name="typeType">
    <annotation>
        <documentation>The nature or genre of the content of the resource. Type includes terms
        describing general categories, functions, genres, or aggregation levels for content.
        Recommended best practice is to select a value from a controlled vocabulary. To
        describe the physical or digital manifestation of the resource, use the FORMAT
        element. </documentation>
    </annotation>
    <sequence>
        <element ref="dc:type" minOccurs="0">
            <annotation>
                <documentation> The EBU core metadata set is built as a refinement of the Dublin
                Core. </documentation>
            </annotation>
        </element>
        <element name="typeCode" type="anyURI" minOccurs="0">
            <annotation>
                <documentation>The type of code expressed as a code pointing to a classification
                scheme</documentation>
            </annotation>
        </element>
        <element name="typeDefinition" type="string"/>
    </sequence>
    <attributeGroup ref="ebucore:typeGroup">
        <annotation>
            <documentation>To define the Type reference data.</documentation>
        </annotation>
    </attributeGroup>
    <attribute name="note" type="string">
        <annotation>
            <documentation> Optional additional contextual information. </documentation>
        </annotation>
    </attribute>
</complexType>
<complexType name="descriptionType">
    <annotation>
        <documentation>Free-form text or a narrative to report general notes, abstracts, or
        summaries about the intellectual content of a resource. The information may be in
        the form of a paragraph giving an individual program description, anecdotal
        interpretations, or brief content reviews. The description may also consist of
        outlines, lists, bullet points, edit decision lists, indexes, or tables of content,
        a reference to a graphical representation of content or even a pointer (URI, URL) to
        an external resource. For a Radio or television programme a running order can be
        used as description. A description can be provided in different languages.
        </documentation>
    </annotation>
    <sequence>
        <element ref="dc:description">
            <annotation>
                <documentation> The EBU core metadata set is built as a refinement of the Dublin
                Core. </documentation>
            </annotation>
        </element>
    </sequence>
    <attributeGroup ref="ebucore:typeGroup">
        <annotation>
            <documentation> To define the form of presentation for the information: Annotation,
            abstract, summary, review, table of content, synopsis, shot list, edit decision
            list, promotional information, purpose, script, outline, rundown,
            selection/excerpt, transcript, bookmarks, theme, highlights, running order, etc.
            </documentation>
        </annotation>
    </attributeGroup>
    <attribute name="note" type="string">
        <annotation>
            <documentation> Optional additional contextual information. </documentation>
        </annotation>
    </attribute>
</complexType>
<complexType name="coverageType">
    <annotation>

```

```

<documentation>Coverage will typically include spatial location (a place name or
geographic coordinates), temporal period (a period label, date, or date range) or
jurisdiction (such as a named administrative entity). Recommended best practice is
to select a value from a controlled vocabulary (for example, the Thesaurus of
Geographic Names) and that, where appropriate, named places or time periods be used
in preference to numeric identifiers such as sets of coordinates or date
ranges.</documentation>
</annotation>
<sequence>
  <element ref="dc:coverage" minOccurs="0">
    <annotation>
      <documentation> The EBU core metadata set is built as a refinement of the Dublin
      Core. </documentation>
    </annotation>
  </element>
  <element name="temporal" minOccurs="0">
    <annotation>
      <documentation>Temporal characteristics of the content of the resource. To
      indicate e.g. specific date, time or period aspects of the subject of the
      resource in complement to Description. </documentation>
    </annotation>
    <complexType>
      <sequence>
        <element name="PeriodOfTime">
          <complexType>
            <attributeGroup ref="ebucore:dateGroup">
              <annotation>
                <documentation> To precise the time
                boundaries or the period of
time related
material.</documentation>
              </annotation>
            </attributeGroup>
          </complexType>
        </element>
      </sequence>
      <attributeGroup ref="ebucore:typeGroup">
        <annotation>
          <documentation> To precise the type of temporal information
          provided.</documentation>
        </annotation>
      </attributeGroup>
      <attribute name="note" type="string">
        <annotation>
          <documentation> Optional additional contextual information.
          </documentation>
        </annotation>
      </attribute>
    </complexType>
  </element>
  <element name="spatial" minOccurs="0">
    <annotation>
      <documentation>Spatial characteristics of the content of the resource. To
      indicate e.g. specific place and location aspects of the subject of the
      resource in complement to Description. </documentation>
    </annotation>
    <complexType>
      <sequence>
        <element name="location" minOccurs="0" maxOccurs="unbounded">
          <annotation>
            <documentation>To express a list of location names and
            Optional geospatial coordinates</documentation>
          </annotation>
          <complexType>
            <sequence>
              <element name="name" type="string"
              minOccurs="0">
                <annotation>
                  <documentation>Any location
                  name in free
text</documentation>
                </annotation>
              </element>
            </sequence>
          </complexType>
        </element>
      </sequence>
    </complexType>
  </element>

```

```

<sequence minOccurs="0">
  <annotation>
    <documentation> Optional
                                geospatial
                                coordinates. 'posy' is the
                                latitude. 'posx' is
the                                longitude.
                                Both are expressed in digital
                                degrees</documentation>
  </annotation>
  <element name="posy" type="float"/>
  <element name="posx" type="float"/>
</sequence>
<element name="code" type="anyURI"
                                minOccurs="0">
  <annotation>
    <documentation>A location
                                identified by a
code from a                                predefined list of
                                locations.</documentation>
  </annotation>
  </element>
</sequence>
<attributeGroup ref="ebucore:typeGroup">
  <annotation>
    <documentation> To precise the type of
                                place and
                                location.</documentation>
  </annotation>
  </attributeGroup>
  <attribute name="note" type="string">
    <annotation>
      <documentation>To provide additional
                                information on the type
                                of location described, e.g.
                                countries, regions,
                                cities</documentation>
    </annotation>
  </attribute>
</complexType>
</element>
</sequence>
</complexType>
</element>
</sequence>
</complexType>
<complexType name="rightsType">
  <annotation>
    <documentation>An all-purpose field to identify information (rights management statement
or reference to a service providing such information e.g. via a URL) about
copyright, intellectual property rights or other property rights held in and over a
resource, stating whether open access or restricted in some way. If dates, times,
territories and availability periods are associated with a right, they should be
included. If the Rights element is absent, no assumptions can be made about the
status of these and other rights with respect to the resource. </documentation>
  </annotation>
<sequence>
  <element ref="dc:rights" minOccurs="0">
    <annotation>
      <documentation> The EBU core metadata set is built as a refinement of the Dublin
Core. </documentation>
    </annotation>
  </element>
  <element name="rightsLink" type="anyURI" minOccurs="0">
    <annotation>
      <documentation>A url pointing to a declaration of rights</documentation>
    </annotation>
  </element>
  <element name="rightsHolder" type="ebucore:entityType" minOccurs="0">
    <annotation>

```

```

        <documentation>A person or organisation owning or managing the rights of the
        resource.</documentation>
    </annotation>
</element>
<element name="exploitationIssues" type="dc:elementType" minOccurs="0">
    <annotation>
        <documentation>Use to state any other restrictions, such as non-rights ones,
        e.g. legal. State by media, territory, scope (restriction on whole item or
        extracts) and possibly language. The presence of this information can be
        used by asset management system implementing traffic lights like mechanism
        to signal that content may be subject to particular restrictions to be
        clarified before exploitation. </documentation>
    </annotation>
</element>
<element name="coverage" type="ebucore:coverageType" minOccurs="0">
    <annotation>
        <documentation> Specifies a specific start date, end date or period for the
        availability of the item or the date from which the rights or exploitation
        issues apply. It may refer to start dates for the availability of an item
        that is used within a particular geographical area e.g. broadcast locally,
        regionally, nationally or internationally, or for web-based distribution. A
        specific time may also be associated with the date.</documentation>
    </annotation>
</element>
</sequence>
<attributeGroup ref="ebucore:typeGroup">
    <annotation>
        <documentation> To define the type of rights information provided.</documentation>
    </annotation>
</attributeGroup>
<attribute name="note" type="string">
    <annotation>
        <documentation> Optional additional contextual information. </documentation>
    </annotation>
</attribute>
</complexType>
<complexType name="formatType">
    <annotation>
        <documentation>The physical or digital manifestation of the resource. Use the descriptor
        Format to identify the format of a particular resource as it exists in its physical
        or digital form. Physical form = an actual physical form that occupies physical
        space, e.g. a tape. Digital form = a digital file residing on a server or hard
        drive. Format may be used to determine the software, hardware or other equipment
        needed to display or operate the resource. </documentation>
    </annotation>
</sequence>
    <element ref="dc:format" minOccurs="0">
        <annotation>
            <documentation> The EBU core metadata set is built as a refinement of the Dublin
            Core. </documentation>
        </annotation>
    </element>
    <element name="width" minOccurs="0">
        <annotation>
            <documentation>The width of the image or picture.</documentation>
        </annotation>
        <complexType>
            <simpleContent>
                <extension base="nonNegativeInteger">
                    <attribute name="unit" type="string"/>
                </extension>
            </simpleContent>
        </complexType>
    </element>
    <element name="height" minOccurs="0">
        <annotation>
            <documentation>The height of the image or picture.</documentation>
        </annotation>
        <complexType>
            <simpleContent>
                <extension base="nonNegativeInteger">
                    <attribute name="unit" type="string"/>
                </extension>
            </simpleContent>
        </complexType>
    </element>

```

```

</element>
<element name="aspectRatio" minOccurs="0">
  <annotation>
    <documentation>A string to define e.g. the ratio of the picture, for instance
      4:3 or 16:9. The type and the format of the aspect ration is precised in the
      type and format attributes</documentation>
  </annotation>
  <complexType>
    <attributeGroup ref="ebucore:typeGroup"/>
    <attribute name="note" type="string"/>
  </complexType>
</element>
<element name="medium" minOccurs="0">
  <annotation>
    <documentation>The material or physical carrier of the resource. If a file, it
      should be the carrier format.</documentation>
  </annotation>
  <complexType>
    <attributeGroup ref="ebucore:typeGroup"/>
  </complexType>
</element>
<element name="mimeType" minOccurs="0">
  <annotation>
    <documentation>Define the main MIME type as defined by IANA: e.g. audio, video,
      text, application</documentation>
  </annotation>
  <complexType>
    <attributeGroup ref="ebucore:typeGroup"/>
  </complexType>
</element>
<element name="channel" minOccurs="0" maxOccurs="unbounded">
  <annotation>
    <documentation> A description of the resource as a stream or per individual
      content channel e.g. audio, video, data. </documentation>
  </annotation>
  <complexType>
    <sequence>
      <element name="encoding">
        <annotation>
          <documentation> Used to express the encoding
            resource e.g. H264 for a vide
            parameters of the
            channel.</documentation>
        </annotation>
        <complexType>
          <attributeGroup ref="ebucore:typeGroup"/>
        </complexType>
      </element>
    </sequence>
    <attributeGroup ref="ebucore:typeGroup">
      <annotation>
        <documentation> Describes the usage made of the channel e.g. main
          audio
          language, dubbing, alternative camera
          angle.</documentation>
      </annotation>
    </attributeGroup>
    <attributeGroup ref="ebucore:formatGroup">
      <annotation>
        <documentation> Describes the format fo the channel: audio, video,
          data.
        </documentation>
      </annotation>
    </attributeGroup>
    <attribute name="bitrate" type="positiveInteger">
      <annotation>
        <documentation>Indicates the fixed or average bitrate at which the
          channel being described was encoded. The value is
          expressed in 'bits
          per second'.</documentation>
      </annotation>
    </attribute>
  </complexType>
  <attribute ref="xml:lang">
    <annotation>

```

```

        <documentation> The language used in the channel, when
        appropriate.</documentation>
      </annotation>
    </attribute>
  </complexType>
</element>
<element name="videoFormat" minOccurs="0" maxOccurs="unbounded">
  <annotation>
    <documentation> To provide information on the Video Format in complement to
    video encoding information on e.g. colour, greyscale or black and white
    colour schemes, frame rate, sampling rate, scanning format. Examples:
    1-label: greyscale; definition: colour type / 2-label: progressive;
    definition: scan type / 3-label: 50; definition: frame rate</documentation>
  </annotation>
  <complexType>
    <attributeGroup ref="ebucore:formatGroup"/>
  </complexType>
</element>
<element name="audioFormat" minOccurs="0">
  <annotation>
    <documentation> To provide information on the Audio Format in complement to
    audio encoding information, e.g. 'stereo', 'mono',
    'surround'.</documentation>
  </annotation>
  <complexType>
    <attributeGroup ref="ebucore:formatGroup"/>
  </complexType>
</element>
<element name="fileFormat" minOccurs="0">
  <annotation>
    <documentation> To provide information on the File Format in complement to
    stream encoding information, e.g. mp3, wave, Quicktime,
    ogg..</documentation>
  </annotation>
  <complexType>
    <attributeGroup ref="ebucore:formatGroup"/>
  </complexType>
</element>
<element name="start" minOccurs="0">
  <annotation>
    <documentation>The beginning point for playback of a time-based media item, such
    as digital video or audio. Use in combination with Duration to identify a
    sequence or segment of a media item that has a fixed start time and end
    time.</documentation>
  </annotation>
  <complexType>
    <simpleContent>
      <extension base="string">
        <attributeGroup ref="ebucore:formatGroup"/>
      </extension>
    </simpleContent>
  </complexType>
</element>
<element name="duration" minOccurs="0">
  <annotation>
    <documentation>The time duration/extent of the resource</documentation>
  </annotation>
  <complexType>
    <simpleContent>
      <extension base="string">
        <attributeGroup ref="ebucore:formatGroup"/>
      </extension>
    </simpleContent>
  </complexType>
</element>
<element name="timeFormat">
  <complexType>
    <attributeGroup ref="ebucore:typeGroup">
      <annotation>
        <documentation> Describes the usage made of the channel e.g. main
        audio language, dubbing, alternative camera
        angle.</documentation>
      </annotation>
    </attributeGroup>
  </complexType>

```

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</element>
<element name="fileSize" type="nonNegativeInteger" minOccurs="0">
  <annotation>
    <documentation>To indicate the storage requirements or file size of a digital
    resource. The file size is expressed in bytes.</documentation>
  </annotation>
</element>
<element name="location" type="string" minOccurs="0">
  <annotation>
    <documentation>An "address for a resource". For an organisation or producer
    acting as caretaker for a media resource, Format Location may contain
    information about a specific shelf location for an asset, including an
    organisation's name, departmental name, shelf id. and contact information.
    The Format Location for a data file or web page may include a complete URI
    with a domain, path, filename or html URL. Examples: "Archives Building A,
    Row J, Shelf 2", "d://playout/server/content.mpg",
    "http://www.ebu.ch/CorporateVideo.avi".</documentation>
  </annotation>
</element>
</sequence>
</complexType>
<complexType name="relationType">
  <annotation>
    <documentation>Recommended best practice is to reference the resource by means of a
    string or number conforming to a formal identification system. Relation is used to
    show the relation in content to another resource. For example, "IsPartOf" is used to
    show the relation between a part of a radio programme and the whole programme, or
    between a track and a record album. A resource can be identified by its title, or
    preferably by an identifier. Relation is used to provide a name, locator, accession,
    identification number or ID where the related item can be obtained or found.
  </documentation>
</annotation>
<choice>
  <element ref="dc:relation">
    <annotation>
      <documentation> The EBU core metadata set is built as a refinement of the Dublin
      Core. A title would be given using this element.</documentation>
    </annotation>
  </element>
  <element name="relationIdentifier" type="ebucore:identifierType">
    <annotation>
      <documentation> An identifier would be given using this element.
    </documentation>
    </annotation>
  </element>
  <element name="relationLink" type="anyURI">
    <annotation>
      <documentation> A link to related material. </documentation>
    </annotation>
  </element>
</choice>
<attributeGroup ref="ebucore:typeGroup">
  <annotation>
    <documentation>To show the type of relation to another resource, e.g. identifies
    ways in which the resource is related by intellectual content to some other
    resource.</documentation>
  </annotation>
</attributeGroup>
<attribute name="runningOrderFlag" type="boolean">
  <annotation>
    <documentation> If set (true), optional field to indicate that the relation is
    hierarchical and that there is an order in which content is chronologically
    related, which would be described in a Description element.</documentation>
  </annotation>
</attribute>
<attribute name="note" type="string">
  <annotation>
    <documentation> Optional additional contextual information. </documentation>
  </annotation>
</attribute>
</complexType>
<complexType name="languageType">
  <annotation>
    <documentation>Identifies languages and their use in the intellectual content of the
    resource. Recommended best practice for the values of the Language element is
  </documentation>
  </annotation>

```

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defined by RFC 1766, which includes a two-letter Language Code (taken from the ISO
Standard 639), followed optionally, by a two-letter Country Code (taken from the ISO
Standard 3166). For example, 'en' for English, 'fr' for French, or 'en-UK' for
English used in the United Kingdom. The usage of the language is also defined.
</documentation>
</annotation>
<sequence>
  <element ref="dc:language" minOccurs="0">
    <annotation>
      <documentation> The EBU core metadata set is built as a refinement of the Dublin
        Core. </documentation>
    </annotation>
  </element>
  <element name="languageCode" type="anyURI" minOccurs="0">
    <annotation>
      <documentation>Identifies the language using the ISO codes from a classification
        scheme</documentation>
    </annotation>
  </element>
</sequence>
<attributeGroup ref="ebucore:typeGroup">
  <annotation>
    <documentation> Indicates the purpose of the language described by the Language
      element e.g. Main original language, main dubbed language, additional original
      language, additional dubbed language, descriptive video information,
      supplemental commentary, Director's commentary, audio description, supplementary
      audio programme, educational notes, voice over, original commentary, dubbed
      commentary, original narration, dubbed narration, dubbed dialogue, interviewer
      language, interviewee language, text description for the hard-of-hearing,
      titles, subtitles, song lyrics, sign language, dubbed sign language, transcript,
      caption, open caption, closed caption.</documentation>
  </annotation>
</attributeGroup>
<attribute name="note" type="string">
  <annotation>
    <documentation> Optional additional contextual information. </documentation>
  </annotation>
</attribute>
</complexType>

<complexType name="dateType">
  <annotation>
    <documentation>Dates associated with events occurring during the life of the resource.
      Typically, Date will be associated e.g. with the creation or availability of the
      resource. </documentation>
  </annotation>

  <sequence>
    <element ref="dc:date" minOccurs="0" maxOccurs="unbounded">
      <annotation>
        <documentation> The EBU core metadata set is built as a refinement of the Dublin
          Core. </documentation>
      </annotation>
    </element>
    <element name="created" type="date" minOccurs="0">
      <annotation>
        <documentation>To specify the creation date for a particular version or
          rendition of a resource across its life cycle. It is the moment in time that
          the resource was finalized during its production process and is forwarded to
          other divisions or agencies to make it ready for publication or
          distribution. A specific time may also be associated with the
          date.</documentation>
      </annotation>
    </element>
    <element name="issued" type="dateTime" minOccurs="0">
      <annotation>
        <documentation>Date of formal issuance (e.g. publication) of the resource.
          Specifies the formal date for a particular version or rendition of a
          resource has been made ready or officially released for distribution,
          publication or consumption, e.g. the broadcasting date of a radio programme.
          A specific time may also be associated with the date. </documentation>
      </annotation>
    </element>
  </sequence>

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```

    <element name="modified" type="date" minOccurs="0">
      <annotation>
        <documentation>The date when the resource was last modified</documentation>
      </annotation>
    </element>
    <element name="digitised" type="date" minOccurs="0">
      <annotation>
        <documentation>The date when the resource was digitised</documentation>
      </annotation>
    </element>
    <element name="alternative" minOccurs="0" maxOccurs="unbounded">
      <annotation>
        <documentation>An alternative particular date for which the type can be
          defined.</documentation>
      </annotation>
      <complexType>
        <simpleContent>
          <extension base="dateTime">
            <attributeGroup ref="ebucore:typeGroup">
              <annotation>
                <documentation> To define a type of date other
                                                              than the pre-defined dates (created,
                                                              etc.).</documentation>
              </annotation>
            </attributeGroup>
          </extension>
        </simpleContent>
      </complexType>
    </element>
  </sequence>
</complexType>
<complexType name="publicationHistoryType">
  <annotation>
    <documentation>To provide information about the publication history which falls outside
      the entries under transmission date/times below. </documentation>
  </annotation>
  <sequence>
    <element name="firstTransmissionDateTime" type="dateTime">
      <annotation>
        <documentation>The first transmission date and time</documentation>
      </annotation>
    </element>
    <element name="firstTransmissionChannel" type="string" minOccurs="0">
      <annotation>
        <documentation>The channel on which the title was first
          transmitted</documentation>
      </annotation>
    </element>
    <sequence minOccurs="0" maxOccurs="unbounded">
      <element name="repeatDateTime" type="dateTime">
        <annotation>
          <documentation>The date and time on which content was
            re-transmitted</documentation>
        </annotation>
      </element>
      <element name="repeatChannel" type="dc:elementType" minOccurs="0">
        <annotation>
          <documentation>The channel on which the resource was
            re-transmitted</documentation>
        </annotation>
      </element>
    </sequence>
  </sequence>
</complexType>
<complexType name="entityType">
  <annotation>
    <documentation>To identify a person, group of persons or organisation</documentation>
  </annotation>
  <sequence>
    <element name="contactDetails" type="ebucore:contactDetailsType"/>
    <element name="organisationDetails" type="ebucore:organisationDetailsType" minOccurs="0"/>
    <element name="role" minOccurs="0">
      <annotation>
        <documentation> Used to identify the function fulfilled by the person, group or
          organisation described as an entity.</documentation>
      </annotation>
    </element>
  </sequence>

```

```

        </annotation>
        <complexType>
          <attributeGroup ref="ebucore:typeGroup"/>
        </complexType>
      </element>
    </sequence>
  </complexType>
  <complexType name="nameType">
    <sequence>
      <annotation>
        <documentation> name is used for a company name or if the given cannot be
          differentiated from the family name</documentation>
      </annotation>
      <choice>
        <element name="name" type="string"/>
        <sequence>
          <element name="givenName" type="string"/>
          <element name="familyName" type="string"/>
        </sequence>
      </choice>
    </sequence>
    <attribute name="id" type="string"/>
  </complexType>
  <complexType name="contactDetailsType">
    <sequence>
      <element name="name" type="ebucore:nameType"/>
      <element name="contactEmailAddress" type="string" minOccurs="0">
        <annotation>
          <documentation>The e-mail address through which the contact can be directly
            accessed</documentation>
        </annotation>
      </element>
      <element name="contactOccupation" type="string" minOccurs="0">
        <annotation>
          <documentation>The job function of the contact</documentation>
        </annotation>
      </element>
      <element name="stageName" type="string" minOccurs="0">
        <annotation>
          <documentation>For example, in the case the contact is a performing
            actor/actress, the stage name will be the fictitious character's
            name</documentation>
        </annotation>
      </element>
      <element name="relatedContacts" minOccurs="0">
        <annotation>
          <documentation> This is used to identify contacts related to the contact being
            described </documentation>
        </annotation>
      <complexType>
        <complexContent>
          <extension base="ebucore:contactDetailsType">
            <attributeGroup ref="ebucore:typeGroup"/>
          </extension>
        </complexContent>
      </complexType>
    </element>
  </sequence>
</complexType>
  <complexType name="organisationDetailsType">
    <sequence>
      <element name="organisationName" type="dc:elementType"/>
      <element name="organisationDepartment" type="dc:elementType" minOccurs="0">
        <annotation>
          <documentation>To identify one or more production area / department / service
            where the resource was created/originated, in free text</documentation>
        </annotation>
      </element>
      <element name="organisationWebAddress" type="string" minOccurs="0">
        <annotation>
          <documentation> The web address where additional information can be found
            regarding the company </documentation>
        </annotation>
      </element>
      <element name="contacts" type="ebucore:contactDetailsType" minOccurs="0">

```

```
<annotation>
  <documentation> Useful to provide contact information particularly is no other
    person information is otherwise provided. </documentation>
</annotation>
</element>
</sequence>
<attribute name="organisationId" type="string"/>
</complexType>
<attributeGroup name="typeGroup">
  <attribute name="typeLabel" type="string"/>
  <attribute name="typeDefinition" type="string"/>
  <attribute name="typeLink" type="anyURI"/>
</attributeGroup>
<attributeGroup name="formatGroup">
  <attribute name="formatLabel" type="string"/>
  <attribute name="formatDefinition" type="string"/>
  <attribute name="formatLink" type="anyURI"/>
</attributeGroup>
<attributeGroup name="statusGroup">
  <attribute name="statusLabel" type="string"/>
  <attribute name="statusDefinition" type="string"/>
  <attribute name="statusLink" type="anyURI"/>
</attributeGroup>
<attributeGroup name="dateGroup">
  <attribute name="startDate" type="dateTime"/>
  <attribute name="endDate" type="dateTime"/>
  <attribute name="period" type="string"/>
</attributeGroup>
</schema>
```