Schema documentation for PBCoreXSD_Ver_2.0.draft5_101130.xsd

30 november 2010

Table of Contents

Namespace: "http://www.pbcore.org/PBCore/PBCoreNamespace.html"

Schemas

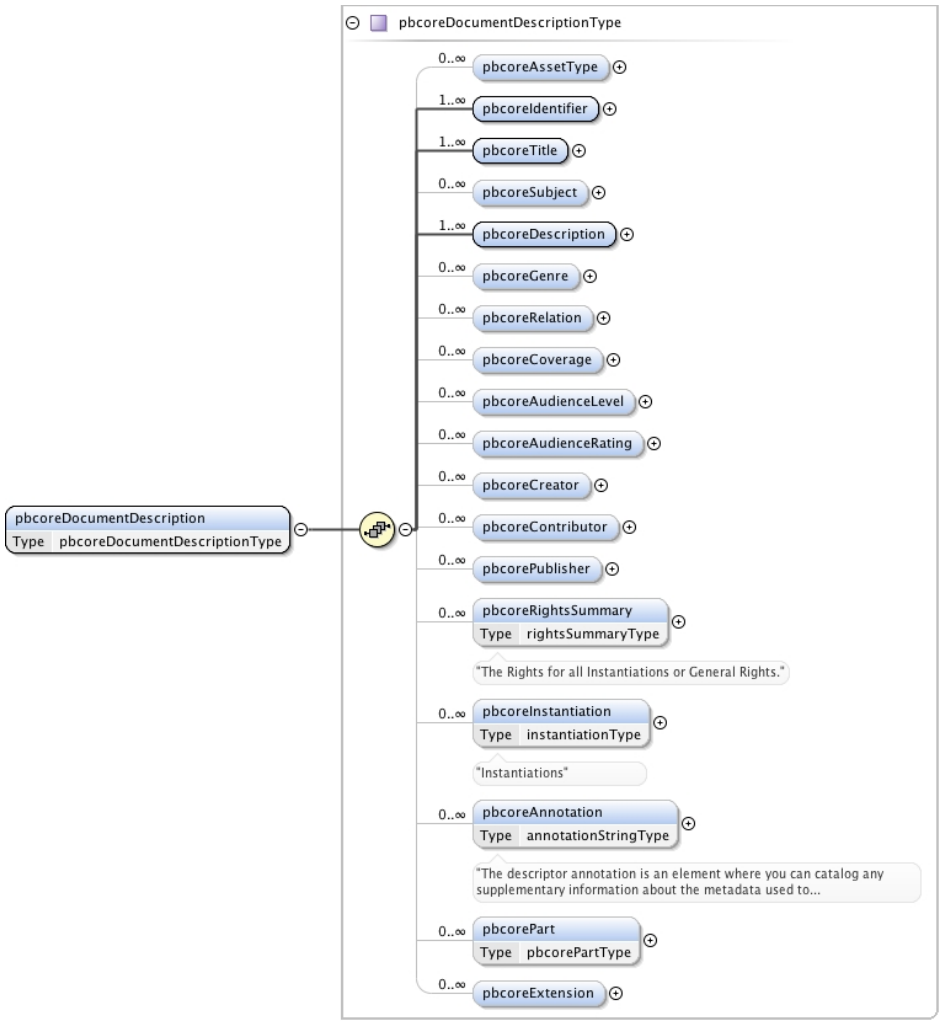
Main schema `PBCoreXSD_Ver_2.0.draft5_101130.xsd`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	`"This is the PBCore version 2.0 draft3 XML schema. All element descriptions can be found at http://www.pbcore.org"`
Properties	attribute form default: `unqualified` element form default: `qualified`

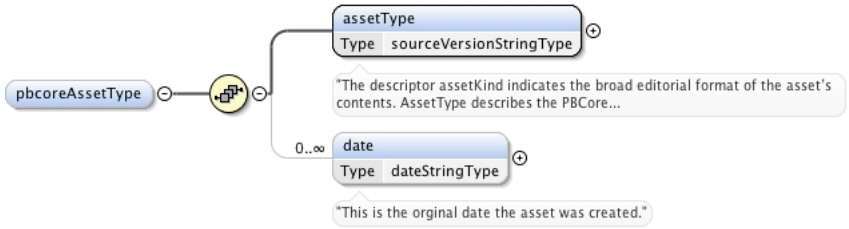
Elements

Element `pbcoreDocumentDescription`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

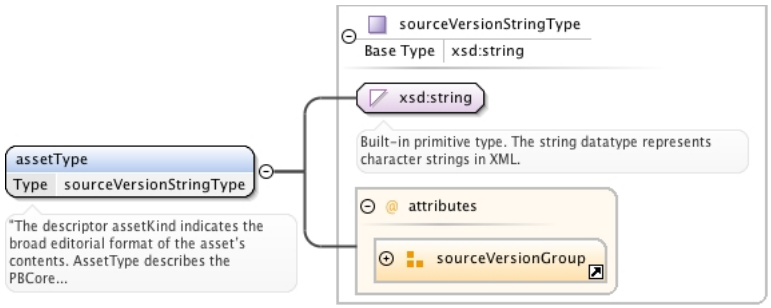
Diagram	
Type	pbcoreDocumentDescriptionType
Properties	content: complex
Model	pbcoreAssetType* , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcoreAnnotation* , pbcorePart* , pbcoreExtension*
Children	pbcoreAnnotation, pbcoreAssetType, pbcoreAudienceLevel, pbcoreAudienceRating, pbcoreContributor, pbcoreCoverage, pbcoreCreator, pbcoreDescription, pbcoreExtension, pbcoreGenre, pbcoreIdentifier, pbcoreInstantiation, pbcorePart, pbcorePublisher, pbcoreRelation, pbcoreRightsSummary, pbcoreSubject, pbcoreTitle
Instance	<pbcoreDocumentDescription> <pbcoreAssetType>{0,unbounded}</pbcoreAssetType> <pbcoreIdentifier>{1,unbounded}</pbcoreIdentifier> <pbcoreTitle>{1,unbounded}</pbcoreTitle> <pbcoreSubject>{0,unbounded}</pbcoreSubject> <pbcoreDescription>{1,unbounded}</pbcoreDescription> <pbcoreGenre>{0,unbounded}</pbcoreGenre> <pbcoreRelation>{0,unbounded}</pbcoreRelation> <pbcoreCoverage>{0,unbounded}</pbcoreCoverage> <pbcoreAudienceLevel>{0,unbounded}</pbcoreAudienceLevel> <pbcoreAudienceRating>{0,unbounded}</pbcoreAudienceRating> <pbcoreCreator>{0,unbounded}</pbcoreCreator> <pbcoreContributor>{0,unbounded}</pbcoreContributor> <pbcorePublisher>{0,unbounded}</pbcorePublisher> <pbcoreRightsSummary>{0,unbounded}</pbcoreRightsSummary> <pbcoreInstantiation>{0,unbounded}</pbcoreInstantiation> <pbcoreAnnotation annotationType="">{0,unbounded}</pbcoreAnnotation> <pbcorePart annotation="" relationID="" relationType="">{0,unbounded}</pbcorePart> <pbcoreExtension>{0,unbounded}</pbcoreExtension> </pbcoreDocumentDescription>
Source	<xsd:element name="pbcoreDocumentDescription" type="pbcoreDocumentDescriptionType"/>

Element pbcoreDocumentDescriptionType / pbcoreAssetType

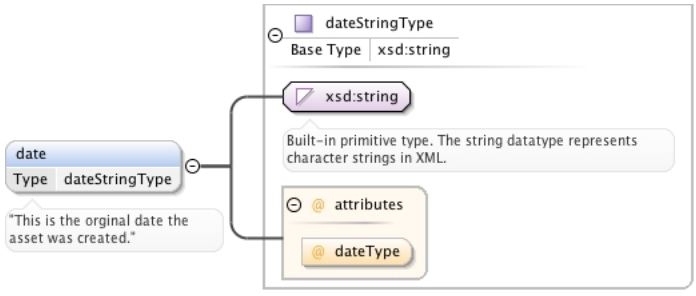
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	assetType , date*
Children	assetType, date
Instance	<pbcoreAssetType> <assetType annotation="" source="" version="">{1,1}</assetType> <date dateType="">{0,unbounded}</date> </pbcoreAssetType>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAssetType"> <xsd:complexType> <xsd:sequence> <!-- the pbcore asset type - this element may occur only once --> <xsd:element maxOccurs="1" minOccurs="1" name="assetType" type="sourceVersionStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor assetKind indicates the broad editorial format of the asset’s contents. AssetType describes the PBCore record as a whole and at its highest level. Though a record may contain many instantiations of different formats and generations, for example, assetType may be used to indicate that they all represent a “program” or a “clip.” In FRBR language, assetType would be used to describe an asset at the “work” level. (Whereas “formatMediaType” would describe the “item” level.) This element is largely based on the EBUCore element ObjectType: http://www.ebu.ch/metadata/cs/ebu_ObjectTypeCodeCS.xml"</ xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element maxOccurs="unbounded" minOccurs="0" name="date" type="dateStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"This is the orginal date the asset was created."</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreAssetType / assetType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor assetKind indicates the broad editorial format of the asset’s contents. AssetType describes the PBCore record as a whole and at its highest level. Though a record may contain many instantiations of different formats and generations, for example, assetType may be used to indicate that they all represent a “program” or a “clip.” In FRBR language, assetType would be used to describe an asset at the “work” level. (Whereas “formatMediaType” would describe the “item” level.) This element is largely based on the EBUCore element ObjectType: http://www.ebu.ch/metadata/cs/ebu_ObjectTypeCodeCS.xml"

Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **annotation** / xsd:string / / / optional **source** / xsd:string / / / optional **version** / xsd:string / / / optional
Source	`<xsd:element maxOccurs="1" minOccurs="1" name="assetType" type="sourceVersionStringType">` `<xsd:annotation>` `<xsd:documentation xml:lang="en">"The descriptor assetKind indicates the broad editorial format of the asset’s contents. AssetType describes the PBCore record as a whole and at its highest level. Though a record may contain many instantiations of different formats and generations, for example, assetType may be used to indicate that they all represent a “program” or a “clip.” In FRBR language, assetType would be used to describe an asset at the “work” level. (Whereas “formatMediaType” would describe the “item” level.) This element is largely based on the EBUCore element ObjectType: http://www.ebu.ch/metadata/cs/ebu_ObjectTypeCodeCS.xml"</xsd:documentation>` `</xsd:annotation>` `</xsd:element>`

Element pbcoreDocumentDescriptionType / pbcoreAssetType / date

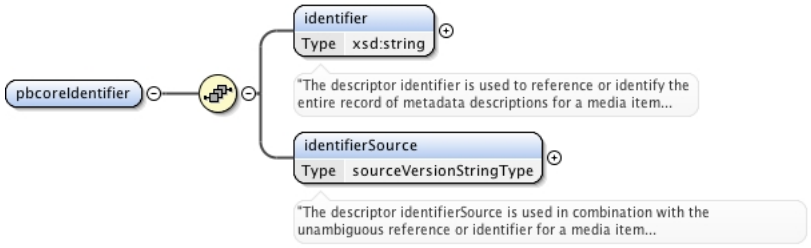
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"This is the orginal date the asset was created."
Diagram	 dateStringType Base Type xsd:string xsd:string Built-in primitive type. The string datatype represents character strings in XML. attributes dateType date Type dateStringType "This is the orginal date the asset was created."
Type	dateStringType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded

Attributes	QName	Type	Fixed	Default	Use
	dateType				optional

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="date" type="dateStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"This is the orginal date the asset was
                            created."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreIdentifier

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	identifier , identifierSource
Children	identifier, identifierSource

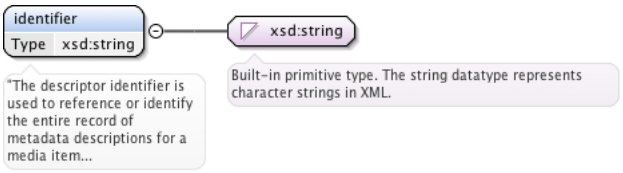
Instance

```
<pbcoreIdentifier>
  <identifier>{1,1}</identifier>
  <identifierSource annotation="" source="" version="">{1,1}</identifierSource>
</pbcoreIdentifier>
```

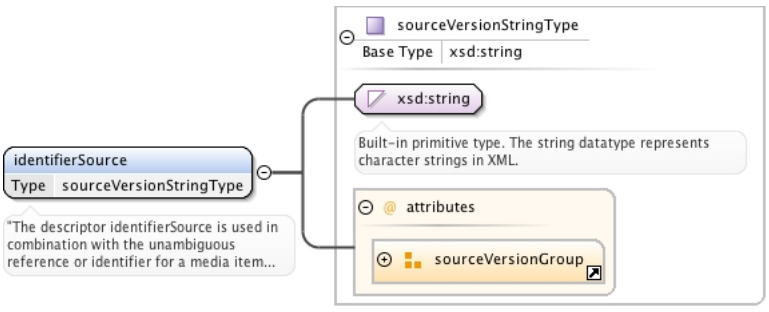
Source

```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreIdentifier">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" name="identifier" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor identifier is used to
                            reference or identify the entire record of metadata
 descriptions for a
                            media item and exists at the top level for a PBCore description
 and its
                            associated description document (XML). Best practice is to
 identify the
                            media item (whether analog or digital) by means of an
 unambiguous 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."</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="1" name="identifierSource"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor identifierSource is used in
                            combination with the unambiguous reference or identifier for a
 media item
                            found in the descriptor identifier. Thus PBCore provides not
 only a
                            locator number, but also an agency or institution who assigned
 it. Both
                            exist at the top level for a PBCore description and its
 associated
                            description document (XML)."</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreIdentifier / identifier

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor identifier is used to reference or identify the entire record of metadata descriptions for a media item and exists at the top level for a PBCore description and its associated description document (XML). Best practice is to identify the media item (whether analog or digital) by means of an unambiguous 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."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="1" name="identifier" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor identifier is used to reference or identify the entire record of metadata descriptions for a media item and exists at the top level for a PBCore description and its associated description document (XML). Best practice is to identify the media item (whether analog or digital) by means of an unambiguous 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."</xsd:documentation> </xsd:annotation> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreIdentifier / identifierSource

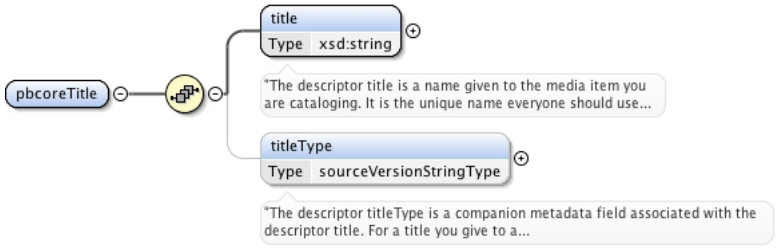
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor identifierSource is used in combination with the unambiguous reference or identifier for a media item found in the descriptor identifier. Thus PBCore provides not only a locator number, but also an agency or institution who assigned it. Both exist at the top level for a PBCore description and its associated description document (XML)."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 1 maxOccurs: 1

Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="1" name="identifierSource"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor identifierSource is used in
                            combination with the unambiguous reference or identifier for a
 media item
                            found in the descriptor identifier. Thus PBCore provides not
 only a
                            locator number, but also an agency or institution who assigned
 it. Both
                            exist at the top level for a PBCore description and its
 associated
                            description document (XML)."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreTitle

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	title , titleType{0,1}
Children	title, titleType

Instance

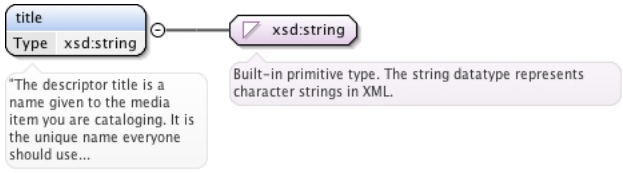
```
<pbcoreTitle>
  <title>{1,1}</title>
  <titleType annotation="" source="" version="">{0,1}</titleType>
</pbcoreTitle>
```

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreTitle">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" name="title" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor title is a name given to
                            the media item you are cataloging. It is the unique name
 everyone should
                            use to refer to or search for a particular media item. There
 are
                            obviously many types of titles a media item may have, such as a
 series
                            title, episode title, segment title, or project title. Use the
 descriptor
                            titleType to indicate the type of title you are assigning to
 the media
                            item."</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" name="titleType"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor titleType is a companion
                            metadata field associated with the descriptor title. For a
 title you give
                            to a media item, you may wish to inform end users what type of
 title it
                            is (see the picklist of recommended vocabulary
                            terms)."</xsd:documentation>
```

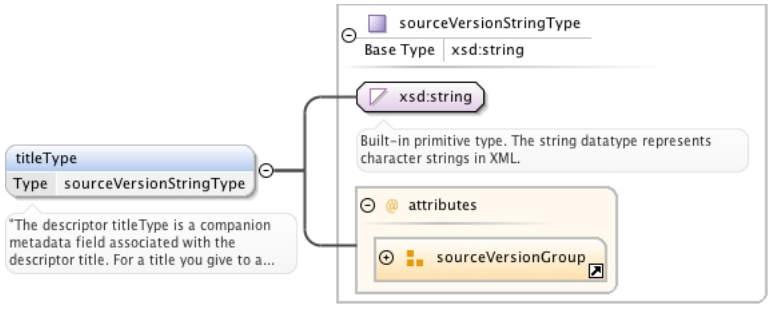
```
          <xsd:documentation xml:lang="en">"Picklist at
                          http://www.pbcore.org/PBCore/picklists/
picklist_titleType.html"</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreTitle / title

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor title is a name given to the media item you are cataloging. It is the unique name everyone should use to refer to or search for a particular media item. There are obviously many types of titles a media item may have, such as a series title, episode title, segment title, or project title. Use the descriptor titleType to indicate the type of title you are assigning to the media item."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	

```
<xsd:element maxOccurs="1" minOccurs="1" name="title" type="xsd:string">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor title is a name given to
                          the media item you are cataloging. It is the unique name
 everyone should
                          use to refer to or search for a particular media item. There
 are
                          obviously many types of titles a media item may have, such as a
 series
                          title, episode title, segment title, or project title. Use the
 descriptor
                          titleType to indicate the type of title you are assigning to
 the media
                          item."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreTitle / titleType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor titleType is a companion metadata field associated with the descriptor title. For a title you give to a media item, you may wish to inform end users what type of title it is (see the picklist of recommended vocabulary terms)." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_titleType.html"
Diagram	
Type	sourceVersionStringType

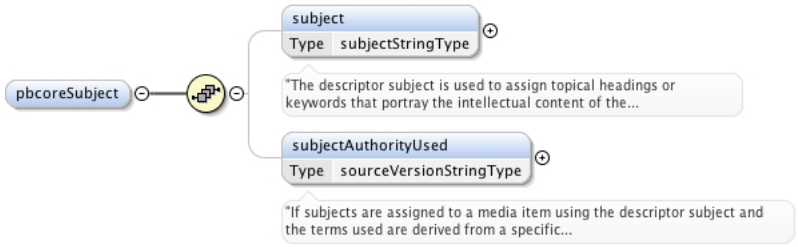
Properties	content:	complex
	minOccurs:	0
	maxOccurs:	1

Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="titleType" type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor titleType is a companion
                            metadata field associated with the descriptor title. For a
 title you give
                            to a media item, you may wish to inform end users what type of
 title it
                            is (see the picklist of recommended vocabulary
                            terms)."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                            http://www.pbcore.org/PBCore/picklists/
picklist_titleType.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreSubject

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	

Properties	content:	complex
	minOccurs:	0
	maxOccurs:	unbounded
Model	subject{0,1} , subjectAuthorityUsed{0,1}	
Children	subject, subjectAuthorityUsed	

Instance

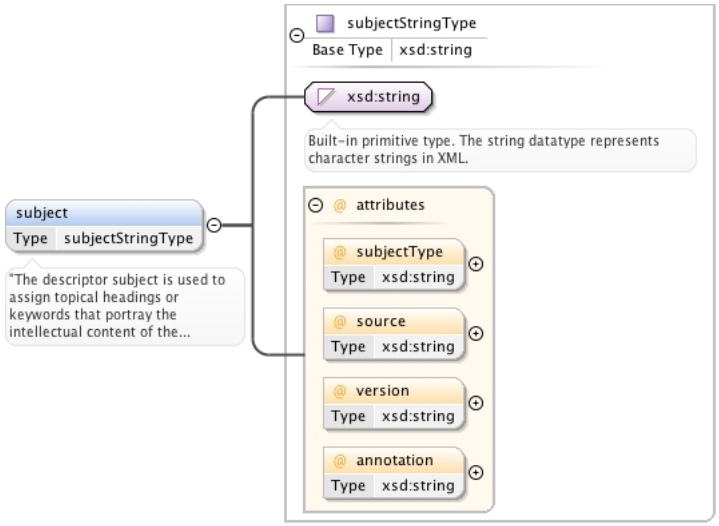
```
<pbcoreSubject>
  <subject annotation="" source="" subjectType="" version="">{0,1}</subject>
  <subjectAuthorityUsed annotation="" source="" version="">{0,1}</subjectAuthorityUsed>
</pbcoreSubject>
```

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreSubject">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="0" name="subject" type="subjectStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor subject is used to assign
                            topical headings or keywords that portray the intellectual
 content of the
                            media item you are cataloging. Typically, a subject is
 expressed by a
                            limited number of keywords, key phrases, or even specific
 classification
                            codes. Controlled vocabularies, authorities, or formal
 classification
                            schemes may be employed when assigning descriptive subject
 terms (rather
                            than using random or ad hoc terminology)."</xsd:documentation>
          <xsd:documentation xml:lang="en">"Use reference at
                            http://www.pbcore.org/PBCore/subject.html"</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" name="subjectAuthorityUsed"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"If subjects are assigned to a media item
```

```
                                using the descriptor subject and the terms used are derived
 from a
                                specific authority or classification scheme, use
 subjectAuthorityUsed to
                                identify whose vocabularies and terms were used."</
xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreSubject / subject

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor subject is used to assign topical headings or keywords that portray the intellectual content of the media item you are cataloging. Typically, a subject is expressed by a limited number of keywords, key phrases, or even specific classification codes. Controlled vocabularies, authorities, or formal classification schemes may be employed when assigning descriptive subject terms (rather than using random or ad hoc terminology)." "Use reference at http://www.pbcore.org/PBCore/subject.html"
Diagram	
Type	subjectStringType

Properties		
	content:	complex
	minOccurs:	0
	maxOccurs:	1

Attributes

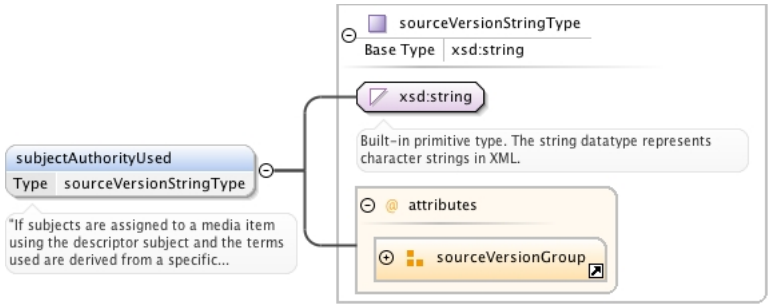
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
subjectType	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="subject" type="subjectStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor subject is used to assign
                                topical headings or keywords that portray the intellectual
 content of the
                                media item you are cataloging. Typically, a subject is
 expressed by a
                                limited number of keywords, key phrases, or even specific
 classification
                                codes. Controlled vocabularies, authorities, or formal
 classification
                                schemes may be employed when assigning descriptive subject
 terms (rather
                                than using random or ad hoc terminology)."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Use reference at
                                http://www.pbcore.org/PBCore/subject.html"</xsd:documentation>
```

```
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreSubject / subjectAuthorityUsed

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"If subjects are assigned to a media item using the descriptor subject and the terms used are derived from a specific authority or classification scheme, use subjectAuthorityUsed to identify whose vocabularies and terms were used."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

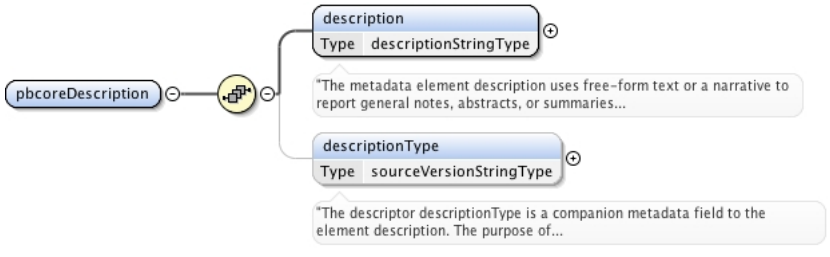
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="subjectAuthorityUsed"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"If subjects are assigned to a media item
                          using the descriptor subject and the terms used are derived
 from a
                          specific authority or classification scheme, use
 subjectAuthorityUsed to
                          identify whose vocabularies and terms were used."</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreDescription

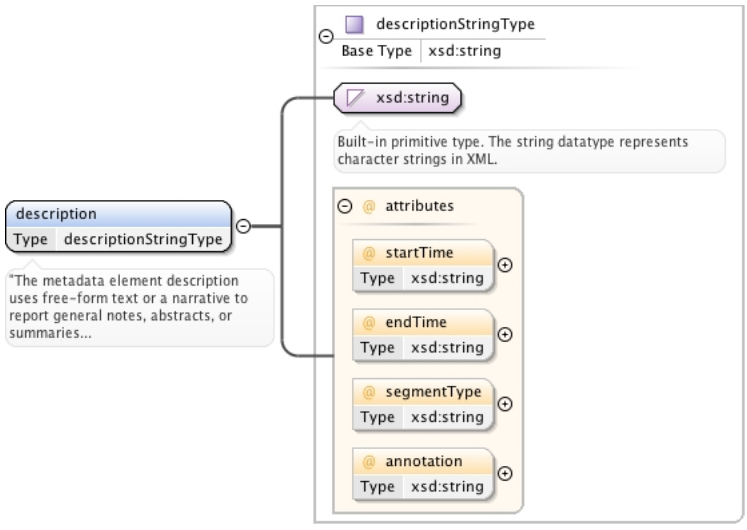
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	description , descriptionType{0,1}
Children	description, descriptionType

Instance

```
<pbcoreDescription>
  <description annotation="" endTime="" segmentType="" startTime="">{1,1}</description>
  <descriptionType annotation="" source="" version="">{0,1}</descriptionType>
```

	</pbcoreDescription>
Source	<xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreDescription"> <xsd:complexType> <xsd:sequence> <xsd:element maxOccurs="1" minOccurs="1" name="description" type="descriptionStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The metadata element description uses free-form text or a narrative to report general notes, abstracts, or summaries about the intellectual content of a media item you are cataloguing. 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, rundowns, edit decision lists, indexes, or tables of content."</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element maxOccurs="1" minOccurs="0" name="descriptionType" type="sourceVersionStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor descriptionType is a companion metadata field to the element description. The purpose of descriptionType is to identify the nature of the actual description and flag the form of presentation for the information."</xsd:documentation> <xsd:documentation xml:lang="en">"Picklist at http://www.pbcore.org/PBCore/picklists/picklist_descriptionType.html"</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreDescription / description

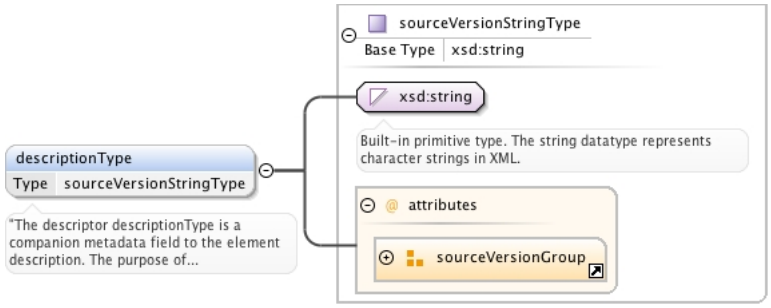
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The metadata element description uses free-form text or a narrative to report general notes, abstracts, or summaries about the intellectual content of a media item you are cataloguing. The information may be in the form of a paragraph giving an individual program description, anecdotal interpretations, or brief content reviews. The description may also consist of outlines, lists, bullet points, rundowns, edit decision lists, indexes, or tables of content."
Diagram	
Type	descriptionStringType
Properties	content: complex

	minOccurs:	1			
	maxOccurs:	1			
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	endTime	xsd:string			optional
	segmentType	xsd:string			optional
	startTime	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="1" name="description" type="descriptionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The metadata element description uses
                            free-form text or a narrative to report general notes,
 abstracts, or
                            summaries about the intellectual content of a media item you
 are
                            cataloguing. 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, rundowns, edit decision lists, indexes, or
 tables of
                            content."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreDescription / descriptionType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor descriptionType is a companion metadata field to the element description. The purpose of descriptionType is to identify the nature of the actual description and flag the form of presentation for the information." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_descriptionType.html"
Diagram	
Type	sourceVersionStringType

Properties	content:	complex
	minOccurs:	0
	maxOccurs:	1

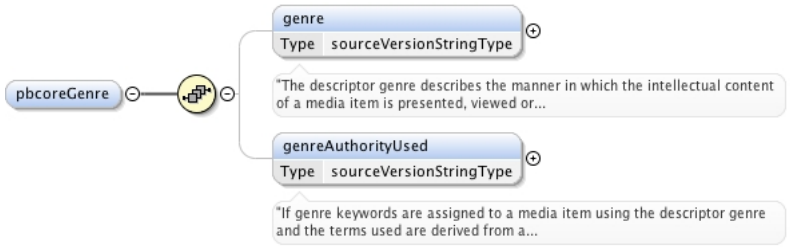
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="descriptionType"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor descriptionType is a
                            companion metadata field to the element description. The
 purpose of
                            descriptionType is to identify the nature of the actual
 description and
                            flag the form of presentation for the information."</
xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
```

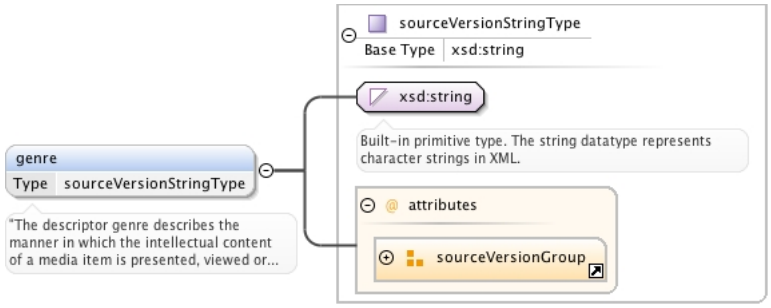
```
                              http://www.pbcore.org/PBCore/picklists/
picklist_descriptionType.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreGenre

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	genre{0,1} , genreAuthorityUsed{0,1}
Children	genre, genreAuthorityUsed
Instance	<pbcoreGenre> <genre annotation="" source="" version="">{0,1}</genre> <genreAuthorityUsed annotation="" source="" version="">{0,1}</genreAuthorityUsed> </pbcoreGenre>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreGenre"> <xsd:complexType> <xsd:sequence> <xsd:element maxOccurs="1" minOccurs="0" name="genre" type="sourceVersionStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor genre describes the manner in which the intellectual content of a media item is presented, viewed or heard by a user. It indicates the structure of the presentation, as well as the topical nature of the content in a generalized form."</xsd:documentation> <xsd:documentation xml:lang="en">"Picklist at http://www.pbcore.org/PBCore/picklists/picklist_genre.html"</ xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element maxOccurs="1" minOccurs="0" name="genreAuthorityUsed" type="sourceVersionStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"If genre keywords are assigned to a media item using the descriptor genre and the terms used are derived from a specific authority or classification scheme, use genreAuthorityUsed to identify whose vocabularies and terms were used. PBcore supplies its own picklist of terms, but others may be employed as long as the authority for a picklist is identified."</xsd:documentation> <xsd:documentation xml:lang="en">When genreAuthorityUsed is not used, the default is understoond to be PBCore Genre List.</ xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreGenre / genre

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor genre describes the manner in which the intellectual content of a media item is presented, viewed or heard by a user. It indicates the structure of the presentation, as well as the topical nature of the content in a generalized

	form." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_genre.html"
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

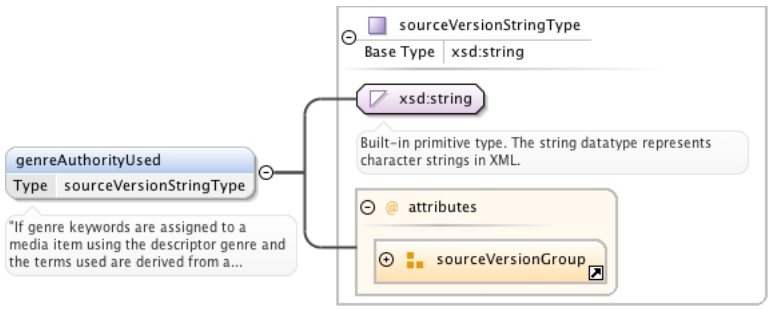
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="genre" type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor genre describes the manner
                           in which the intellectual content of a media item is presented,
 viewed or
                           heard by a user. It indicates the structure of the
 presentation, as well
                           as the topical nature of the content in a generalized
                           form."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                           http://www.pbcore.org/PBCore/picklists/picklist_genre.html"</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreGenre / genreAuthorityUsed

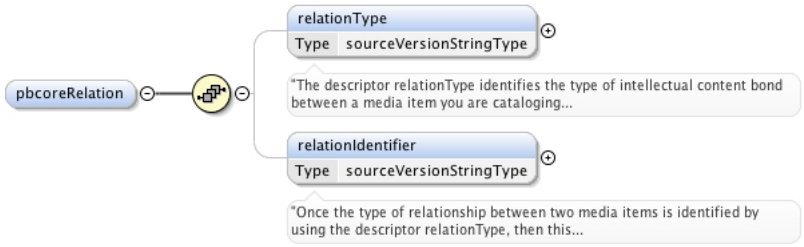
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"If genre keywords are assigned to a media item using the descriptor genre and the terms used are derived from a specific authority or classification scheme, use genreAuthorityUsed to identify whose vocabularies and terms were used. PBcore supplies its own picklist of terms, but others may be employed as long as the authority for a picklist is identified." When genreAuthorityUsed is not used, the default is understoond to be PBCore Genre List.
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="genreAuthorityUsed"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"If genre keywords are assigned to a media
                           item using the descriptor genre and the terms used are derived
 from a
                           specific authority or classification scheme, use
 genreAuthorityUsed to
                           identify whose vocabularies and terms were used. PBcore
 supplies its own
                           picklist of terms, but others may be employed as long as the
 authority
                           for a picklist is identified."</xsd:documentation>
    <xsd:documentation xml:lang="en">When genreAuthorityUsed is not used, the
                           default is understoond to be PBCore Genre List.</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreRelation

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	relationType{0,1} , relationIdentifier{0,1}
Children	relationIdentifier, relationType

Instance

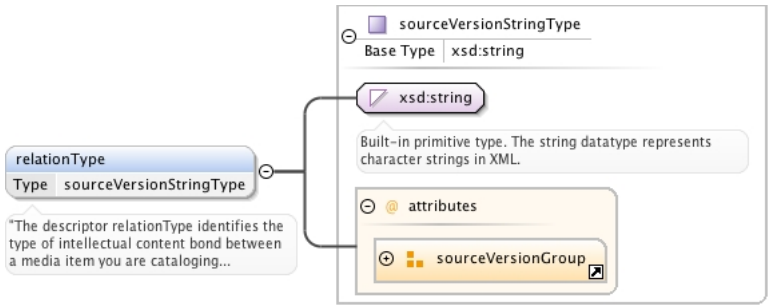
```
<pbcoreRelation>
  <relationType annotation="" source="" version="">{0,1}</relationType>
  <relationIdentifier annotation="" source="" version="">{0,1}</relationIdentifier>
</pbcoreRelation>
```

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreRelation">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="0" name="relationType"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor relationType identifies the
                           type of intellectual content bond between a media item you are
 cataloging
                           and some other related media item."</xsd:documentation>
          <xsd:documentation xml:lang="en">"Picklist at
                           http://www.pbcore.org/PBCore/picklists/
picklist_relationType.html"</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="0" name="relationIdentifier"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"Once the type of relationship between two
                           media items is identified by using the descriptor relationType,
 then this
                           companion descriptor relationIdentifier is used to provide a
 name,
                           locator, accession, identification number or ID where the
 related item
                           can be obtained or found. The cross reference uses a unique
                           identifier."</xsd:documentation>
```

```
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreRelation / relationType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor relationType identifies the type of intellectual content bond between a media item you are cataloging and some other related media item." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_relationType.html"
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

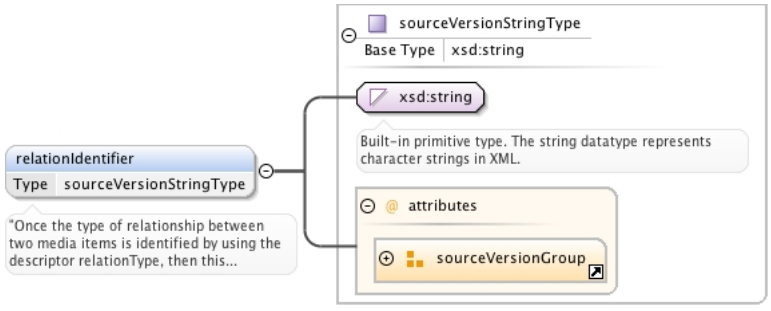
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="relationType"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor relationType identifies the
                          type of intellectual content bond between a media item you are
 cataloging
                          and some other related media item."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                          http://www.pbcore.org/PBCore/picklists/
picklist_relationType.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreRelation / relationIdentifier

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Once the type of relationship between two media items is identified by using the descriptor relationType, then this companion descriptor relationIdentifier is used to provide a name, locator, accession, identification number or ID where the related item can be obtained or found. The cross reference uses a unique identifier."
Diagram	

Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

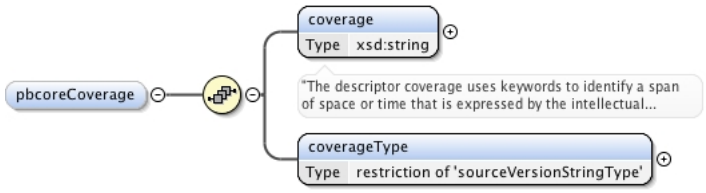
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="relationIdentifier"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Once the type of relationship between two
                            media items is identified by using the descriptor relationType,
 then this
                            companion descriptor relationIdentifier is used to provide a
 name,
                            locator, accession, identification number or ID where the
 related item
                            can be obtained or found. The cross reference uses a unique
                            identifier."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreCoverage

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	

Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	coverage , coverageType
Children	coverage, coverageType

Instance

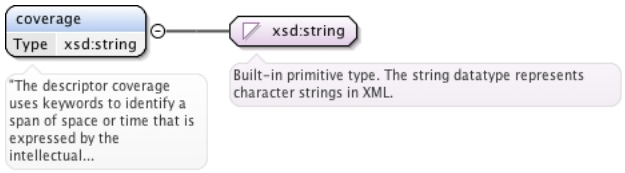
```
<pbcoreCoverage>
  <coverage>{1,1}</coverage>
  <coverageType annotation="" source="" version="">{1,1}</coverageType>
</pbcoreCoverage>
```

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreCoverage">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" name="coverage" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor coverage uses keywords to
                            identify a span of space or time that is expressed by the
 intellectual
                            content of a media item. Coverage in intellectual content may
 be
                            expressed spatially by geographic location. Actual place names
 may be
                            used. Numeric coordinates and geo-spatial data are also
 allowable, if
                            useful or supplied. Coverage in intellectual content may also
 be
                            expressed temporally by a date, period, era, or time-based
 event. The
                            PBCore metadata element coverage houses the actual spatial or
 temporal
                            keywords. The companion descriptor coverageType is used to
 identify the
                            type of keywords that are being used."</xsd:documentation>
          <xsd:documentation xml:lang="en">"Use reference at
                            http://www.pbcore.org/PBCore/coverage.html"</xsd:documentation>
        </xsd:annotation>
```

```
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="1" name="coverageType">
        <xsd:complexType>
          <xsd:annotation>
            <xsd:documentation xml:lang="en">"Whereas the PBCore metadata element
                                coverage uses keywords and descriptors to identify a span of
 space or
                                time that is expressed by the intellectual content of a
 media item,
                                coverageType is used to identify the actual type of keywords
 that are
                                being used. Coverage in intellectual content may be
 expressed
                                spatially by geographic location. Coverage in intellectual
 content may
                                also be expressed temporally by a date, period, era, or
 time-based
                                event. coverageType provides a picklist of coverage types,
 namely
                                *spatial* or *temporal*."</xsd:documentation>
          </xsd:annotation>
          <xsd:simpleContent>
            <!-- COME BACK TO THIS -->
            <xsd:restriction base="sourceVersionStringType">
              <xsd:enumeration value="Spatial"/>
              <xsd:enumeration value="Temporal"/>
            </xsd:restriction>
          </xsd:simpleContent>
        </xsd:complexType>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

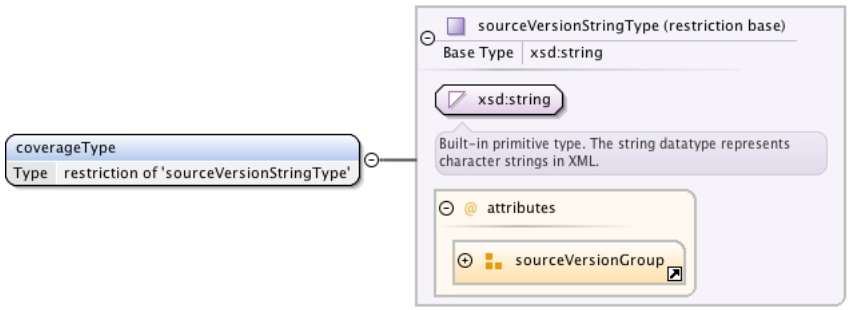
Element pbcoreDocumentDescriptionType / pbcoreCoverage / coverage

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor coverage uses keywords to identify a span of space or time that is expressed by the intellectual content of a media item. Coverage in intellectual content may be expressed spatially by geographic location. Actual place names may be used. Numeric coordinates and geo-spatial data are also allowable, if useful or supplied. Coverage in intellectual content may also be expressed temporally by a date, period, era, or time-based event. The PBCore metadata element coverage houses the actual spatial or temporal keywords. The companion descriptor coverageType is used to identify the type of keywords that are being used." "Use reference at http://www.pbcore.org/PBCore/coverage.html"
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	

```
<xsd:element maxOccurs="1" minOccurs="1" name="coverage" type="xsd:string">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor coverage uses keywords to
                                identify a span of space or time that is expressed by the
 intellectual
                                content of a media item. Coverage in intellectual content may
 be
                                expressed spatially by geographic location. Actual place names
 may be
                                used. Numeric coordinates and geo-spatial data are also
 allowable, if
                                useful or supplied. Coverage in intellectual content may also
 be
                                expressed temporally by a date, period, era, or time-based
 event. The
```

```
                                PBCore metadata element coverage houses the actual spatial or
 temporal
                                keywords. The companion descriptor coverageType is used to
 identify the
                                type of keywords that are being used."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Use reference at
                                http://www.pbcore.org/PBCore/coverage.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreCoverage / coverageType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	restriction of sourceVersionStringType
Type hierarchy	• xsd:string • sourceVersionStringType
Properties	content: complex minOccurs: 1 maxOccurs: 1

Attributes

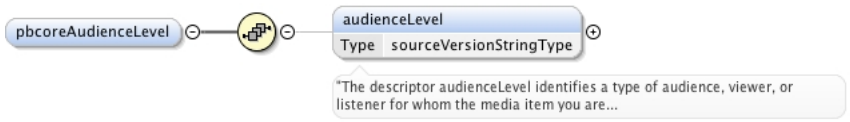
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

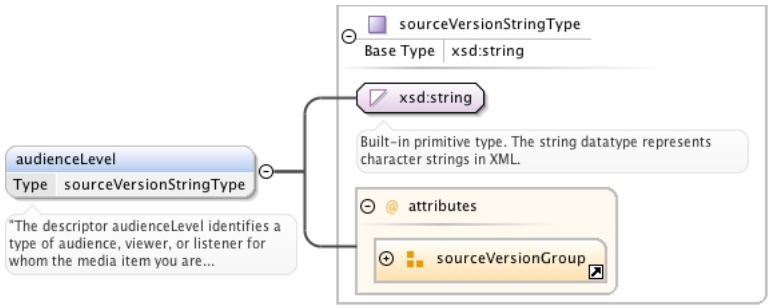
```
<xsd:element maxOccurs="1" minOccurs="1" name="coverageType">
  <xsd:complexType>
    <xsd:annotation>
      <xsd:documentation xml:lang="en">"Whereas the PBCore metadata element
                                coverage uses keywords and descriptors to identify a span of
 space or
                                time that is expressed by the intellectual content of a
 media item,
                                coverageType is used to identify the actual type of keywords
 that are
                                being used. Coverage in intellectual content may be
 expressed
                                spatially by geographic location. Coverage in intellectual
 content may
                                also be expressed temporally by a date, period, era, or
 time-based
                                event. coverageType provides a picklist of coverage types,
 namely
                                *spatial* or *temporal*."</xsd:documentation>
    </xsd:annotation>
    <xsd:simpleContent>
      <!-- COME BACK TO THIS -->
      <xsd:restriction base="sourceVersionStringType">
        <xsd:enumeration value="Spatial"/>
        <xsd:enumeration value="Temporal"/>
      </xsd:restriction>
    </xsd:simpleContent>
  </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreAudienceLevel

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	audienceLevel{0,1}
Children	audienceLevel
Instance	<pbcoreAudienceLevel> <audienceLevel annotation="" source="" version="">{0,1}</audienceLevel> </pbcoreAudienceLevel>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAudienceLevel"> <xsd:complexType> <xsd:sequence> <xsd:element maxOccurs="1" minOccurs="0" name="audienceLevel" type="sourceVersionStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor audienceLevel identifies a type of audience, viewer, or listener for whom the media item you are cataloging is primarily designed or educationally useful."</xsd:documentation> <xsd:documentation xml:lang="en">"Picklist at http://www.pbcore.org/PBCore/picklists/ picklist_audienceLevel.html"</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreAudienceLevel / audienceLevel

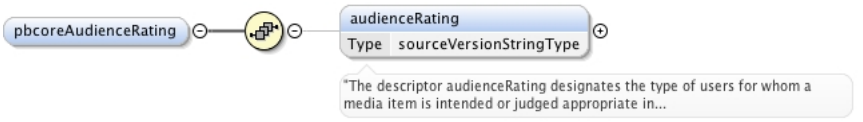
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor audienceLevel identifies a type of audience, viewer, or listener for whom the media item you are cataloging is primarily designed or educationally useful." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_audienceLevel.html"
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source	<xsd:element maxOccurs="1" minOccurs="0" name="audienceLevel" type="sourceVersionStringType"> <xsd:annotation>

```
    <xsd:documentation xml:lang="en">"The descriptor audienceLevel identifies a
                            type of audience, viewer, or listener for whom the media item
 you are
                            cataloging is primarily designed or educationally
                            useful."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                            http://www.pbcore.org/PBCore/picklists/
picklist_audienceLevel.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

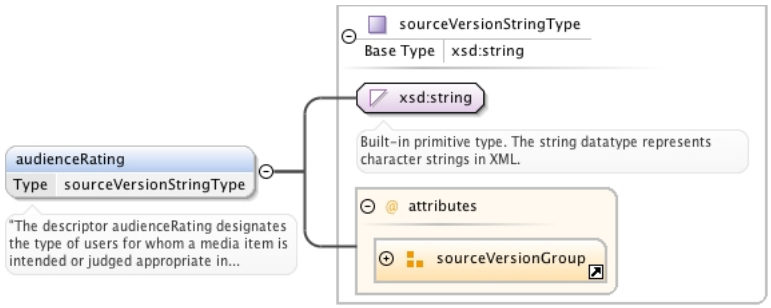
Element pbcoreDocumentDescriptionType / pbcoreAudienceRating

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	audienceRating{0,1}
Children	audienceRating
Instance	<pbcoreAudienceRating> <audienceRating annotation="" source="" version="">{0,1}</audienceRating> </pbcoreAudienceRating>

Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAudienceRating">
	  <xsd:complexType>
	  <xsd:sequence>
	  <xsd:element maxOccurs="1" minOccurs="0" name="audienceRating"
	  type="sourceVersionStringType">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"The descriptor audienceRating designates
	  the type of users for whom a media item is intended or judged
	  appropriate
	  in terms of its intellectual content. Standard ratings have
	  been crafted
	  by the broadcast television and film industries and are used as
	  flags for
	  audience or age-appropriate materials."</xsd:documentation>
	  <xsd:documentation xml:lang="en">"Picklist at
	  http://www.pbcore.org/PBCore/picklists/
	picklist_audienceRating.html"</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  </xsd:sequence>
	  </xsd:complexType>
	</xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreAudienceRating / audienceRating

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor audienceRating designates the type of users for whom a media item is intended or judged appropriate in terms of its intellectual content. Standard ratings have been crafted by the broadcast television and film industries and are used as flags for audience or age-appropriate materials." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_audienceRating.html"

Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

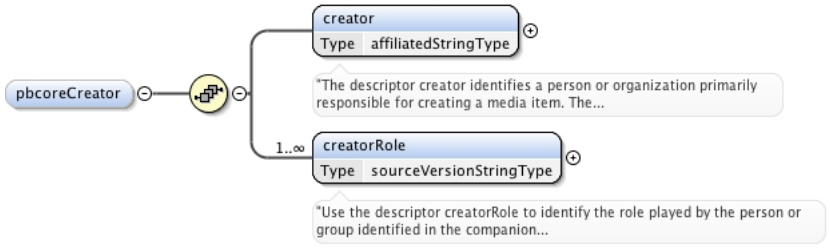
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="audienceRating"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor audienceRating designates
                           the type of users for whom a media item is intended or judged
 appropriate
                           in terms of its intellectual content. Standard ratings have
 been crafted
                           by the broadcast television and film industries and are used as
 flags for
                           audience or age-appropriate materials."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                           http://www.pbcore.org/PBCore/picklists/
picklist_audienceRating.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreCreator

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	creator , creatorRole+
Children	creator, creatorRole

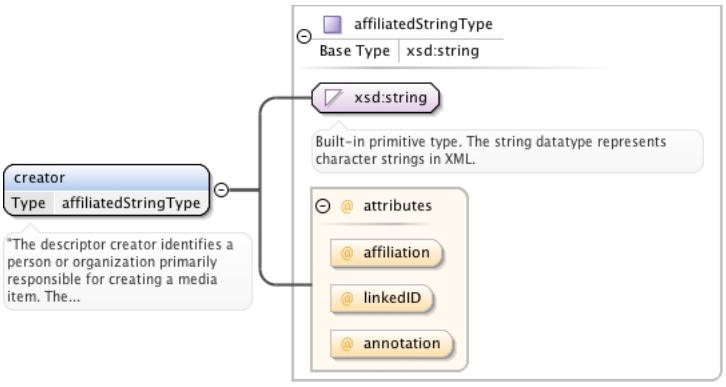
Instance	`<pbcoreCreator>`
	`  <creator affiliation="" annotation="" linkedID="">{1,1}</creator>`
	`  <creatorRole annotation="" source="" version="">{1,unbounded}</creatorRole>`
	`</pbcoreCreator>`

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreCreator">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" name="creator" type="affiliatedStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor creator identifies a person
```

```
                              or organization primarily responsible for creating a media
 item. The
                              creator may be considered an author and could be one or more
 people, a
                              business, organization, group, project or service."</
xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="1" name="creatorRole"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"Use the descriptor creatorRole to identify
                              the role played by the person or group identified in the
 companion
                              descriptor creator. Unlike print resources, there is usually no
 single
                              role, like an author, who has primary responsibility for the
 creation of
                              media items such as audio, video, film assets, and their
 digital
                              renditions. For these media, creators can fill many different
 roles, such
                              as the instructor for a video course, the interviewee from a
 video
                              history program, or the director of a program or film (if they
 are
                              identified as the primary creator for a media item)."</
xsd:documentation>
          <xsd:documentation xml:lang="en">"Picklist at
                              http://www.pbcore.org/PBCore/picklists/
picklist_creatorRole.html"</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreCreator / creator

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor creator identifies a person or organization primarily responsible for creating a media item. The creator may be considered an author and could be one or more people, a business, organization, group, project or service."
Diagram	
Type	affiliatedStringType

Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Attributes

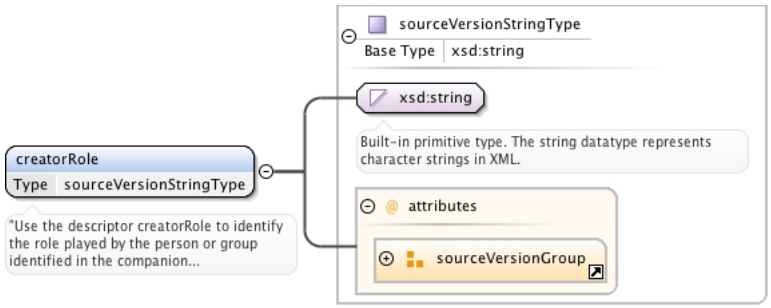
QName	Type	Fixed	Default	Use
affiliation				optional
annotation				optional
linkedID				optional

Source

```
<xsd:element maxOccurs="1" minOccurs="1" name="creator" type="affiliatedStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor creator identifies a person
                              or organization primarily responsible for creating a media
 item. The
```

```
                                creator may be considered an author and could be one or more
 people, a
                                business, organization, group, project or service."</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreCreator / creatorRole

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor creatorRole to identify the role played by the person or group identified in the companion descriptor creator. Unlike print resources, there is usually no single role, like an author, who has primary responsibility for the creation of media items such as audio, video, film assets, and their digital renditions. For these media, creators can fill many different roles, such as the instructor for a video course, the interviewee from a video history program, or the director of a program or film (if they are identified as the primary creator for a media item)." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_creatorRole.html"
Diagram	
Type	sourceVersionStringType

Properties

content:	complex
minOccurs:	1
maxOccurs:	unbounded

Attributes

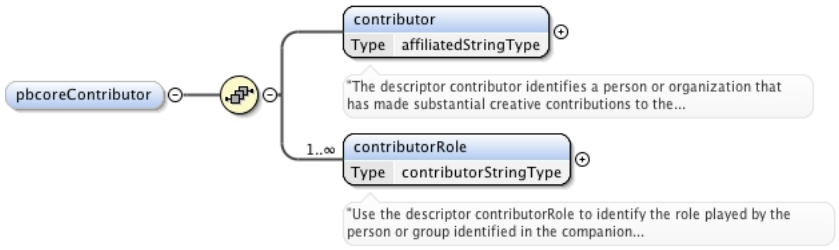
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="creatorRole"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor creatorRole to identify
                                the role played by the person or group identified in the
 companion
                                descriptor creator. Unlike print resources, there is usually no
 single
                                role, like an author, who has primary responsibility for the
 creation of
                                media items such as audio, video, film assets, and their
 digital
                                renditions. For these media, creators can fill many different
 roles, such
                                as the instructor for a video course, the interviewee from a
 video
                                history program, or the director of a program or film (if they
 are
                                identified as the primary creator for a media item)."</
xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                                http://www.pbcore.org/PBCore/picklists/
picklist_creatorRole.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

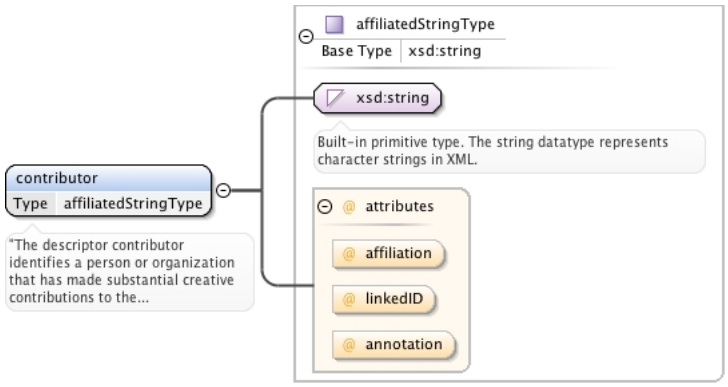
Element pbcoreDocumentDescriptionType / pbcoreContributor

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

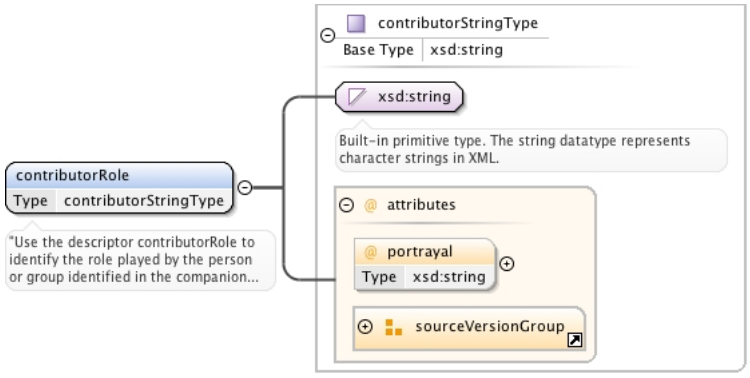
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	contributor , contributorRole+
Children	contributor, contributorRole
Instance	<pbcoreContributor> <contributor affiliation="" annotation="" linkedID="">{1,1}</contributor> <contributorRole annotation="" portrayal="" source="" version="">{1,unbounded}</contributorRole> </pbcoreContributor>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreContributor"> <xsd:complexType> <xsd:sequence> <xsd:element maxOccurs="1" minOccurs="1" name="contributor" type="affiliatedStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor contributor identifies a person or organization that has made substantial creative contributions to the intellectual content within a media item. This contribution is considered to be secondary to the primary author(s) (person or organization) identified in the descriptor creator."</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element maxOccurs="unbounded" minOccurs="1" name="contributorRole" type="contributorStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"Use the descriptor contributorRole to identify the role played by the person or group identified in the companion descriptor contributor."</xsd:documentation> <xsd:documentation xml:lang="en">"Picklist at http://www.pbcore.org/PBCore/picklists/picklist_contributorRole.html"</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreContributor / contributor

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor contributor identifies a person or organization that has made substantial creative contributions to the intellectual content within a media item. This contribution is considered to be secondary to the primary author(s) (person or organization) identified in the descriptor creator."

Diagram	
Type	affiliatedStringType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **affiliation** / / / / optional **annotation** / / / / optional **linkedID** / / / / optional
Source	`<xsd:element maxOccurs="1" minOccurs="1" name="contributor" type="affiliatedStringType">` `<xsd:annotation>` `<xsd:documentation xml:lang="en">"The descriptor contributor identifies a person or organization that has made substantial creative contributions to the intellectual content within a media item. This contribution is considered to be secondary to the primary author(s) (person or organization) identified in the descriptor creator."</xsd:documentation>` `</xsd:annotation>` `</xsd:element>`

Element pbcoreDocumentDescriptionType / pbcoreContributor / contributorRole

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor contributorRole to identify the role played by the person or group identified in the companion descriptor contributor." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_contributorRole.html"
Diagram	
Type	contributorStringType
Properties	content: complex minOccurs: 1 maxOccurs: unbounded

Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	portrayal	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

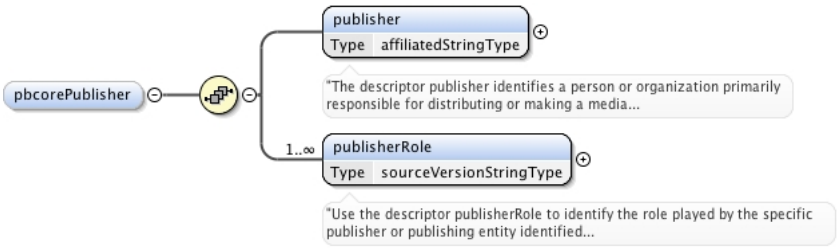
Source

```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="contributorRole"
 type="contributorStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor contributorRole to
                          identify the role played by the person or group identified in
 the
                          companion descriptor contributor."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                          http://www.pbcore.org/PBCore/picklists/
picklist_contributorRole.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcorePublisher

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram



Properties		
	content:	complex
	minOccurs:	0
	maxOccurs:	unbounded

Model	publisher , publisherRole+
Children	publisher, publisherRole

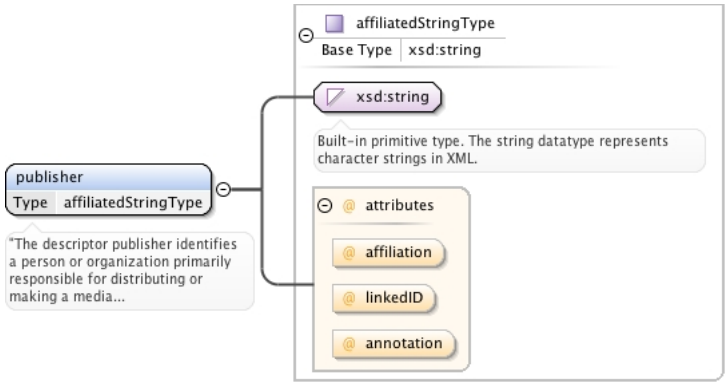
Instance

```
<pbcorePublisher>
  <publisher affiliation="" annotation="" linkedID="">{1,1}</publisher>
  <publisherRole annotation="" source="" version="">{1,unbounded}</publisherRole>
</pbcorePublisher>
```

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcorePublisher">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" name="publisher"
 type="affiliatedStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor publisher identifies a
                          person or organization primarily responsible for distributing
 or making a
                          media item available to others. The publisher may be a person,
 a
                          business, organization, group, project or service."</
xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="unbounded" minOccurs="1" name="publisherRole"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"Use the descriptor publisherRole to
                          identify the role played by the specific publisher or
 publishing entity
                          identified in the companion descriptor publisher."</
xsd:documentation>
          <xsd:documentation xml:lang="en">"Picklist at
                          http://www.pbcore.org/PBCore/picklists/
picklist_publisherRole.html"</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcorePublisher / publisher

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor publisher identifies a person or organization primarily responsible for distributing or making a media item available to others. The publisher may be a person, a business, organization, group, project or service."
Diagram	
Type	affiliatedStringType
Properties	content: complex minOccurs: 1 maxOccurs: 1

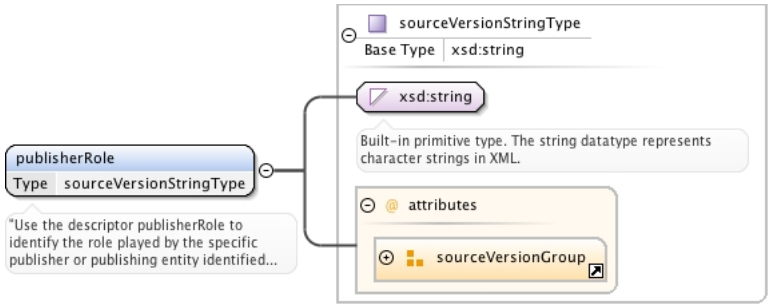
Attributes

QName	Type	Fixed	Default	Use
affiliation				optional
annotation				optional
linkedID				optional

Source

```
<xsd:element maxOccurs="1" minOccurs="1" name="publisher" type="affiliatedStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor publisher identifies a
                            person or organization primarily responsible for distributing
 or making a
                            media item available to others. The publisher may be a person,
 a
                            business, organization, group, project or service."</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcorePublisher / publisherRole

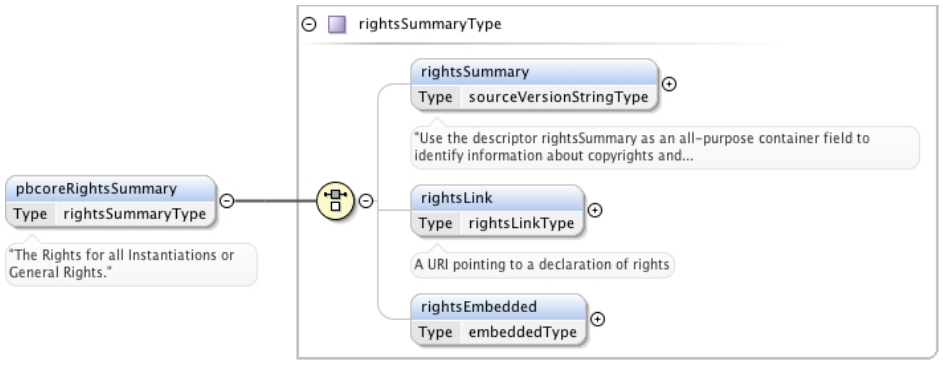
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor publisherRole to identify the role played by the specific publisher or publishing entity identified in the companion descriptor publisher." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_publisherRole.html"
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 1

	maxOccurs:	unbounded			
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="publisherRole"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor publisherRole to
                          identify the role played by the specific publisher or
 publishing entity
                          identified in the companion descriptor publisher."</
xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                          http://www.pbcore.org/PBCore/picklists/
picklist_publisherRole.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreRightsSummary

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The Rights for all Instantiations or General Rights."
Diagram	
Type	rightsSummaryType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	rightsSummary{0,1} | rightsLink{0,1} | rightsEmbedded{0,1}
Children	rightsEmbedded, rightsLink, rightsSummary

Instance

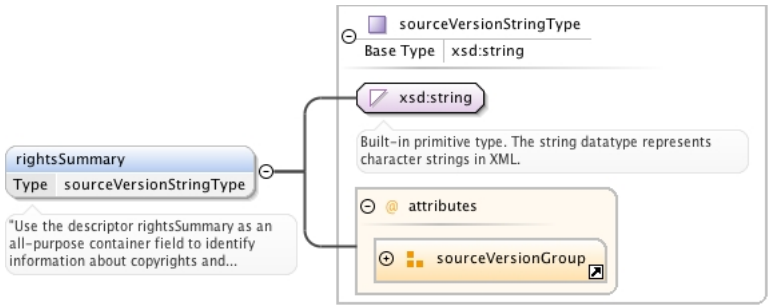
```
<pbcoreRightsSummary>
  <rightsSummary annotation="" source="" version="">{0,1}</rightsSummary>
  <rightsLink annotation="">{0,1}</rightsLink>
  <rightsEmbedded annotation="">{0,1}</rightsEmbedded>
</pbcoreRightsSummary>
```

Source

```
<xsd:element name="pbcoreRightsSummary" type="rightsSummaryType" maxOccurs="unbounded"
 minOccurs="0">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The Rights for all Instantiations or General
                  Rights."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element rightsSummaryType / rightsSummary

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor rightsSummary as an all-purpose container field to identify information about copyrights and property rights held in and over a media item, whether they are open access or restricted in some way. If dates, times and availability periods are associated with a right, include them. End user permissions, constraints and obligations may also be identified, as needed."

Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

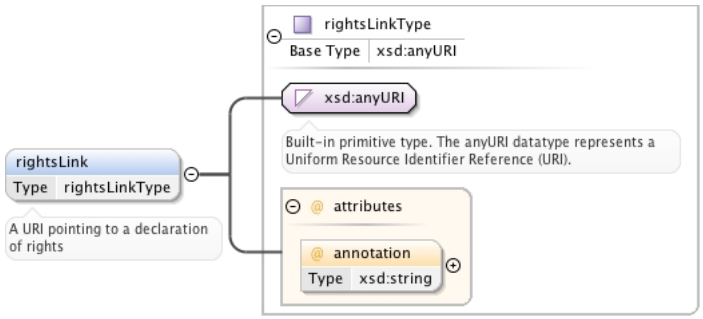
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="rightsSummary"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor rightsSummary as an all-purpose
                  container field to identify information about copyrights and property
 rights held
                  in and over a media item, whether they are open access or restricted in
 some way.
                  If dates, times and availability periods are associated with a right,
 include
                  them. End user permissions, constraints and obligations may also be
 identified, as
                  needed."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element `rightsSummaryType / rightsLink`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	A URI pointing to a declaration of rights
Diagram	
Type	rightsLinkType
Properties	content: complex minOccurs: 0 maxOccurs: 1

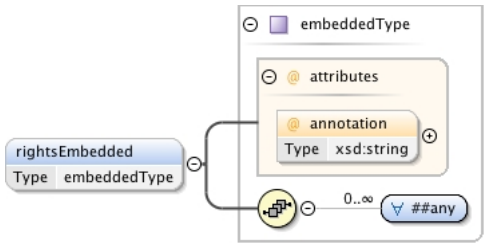
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="rightsLink" type="rightsLinkType">
  <xsd:annotation>
    <xsd:documentation>A URI pointing to a declaration of rights</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

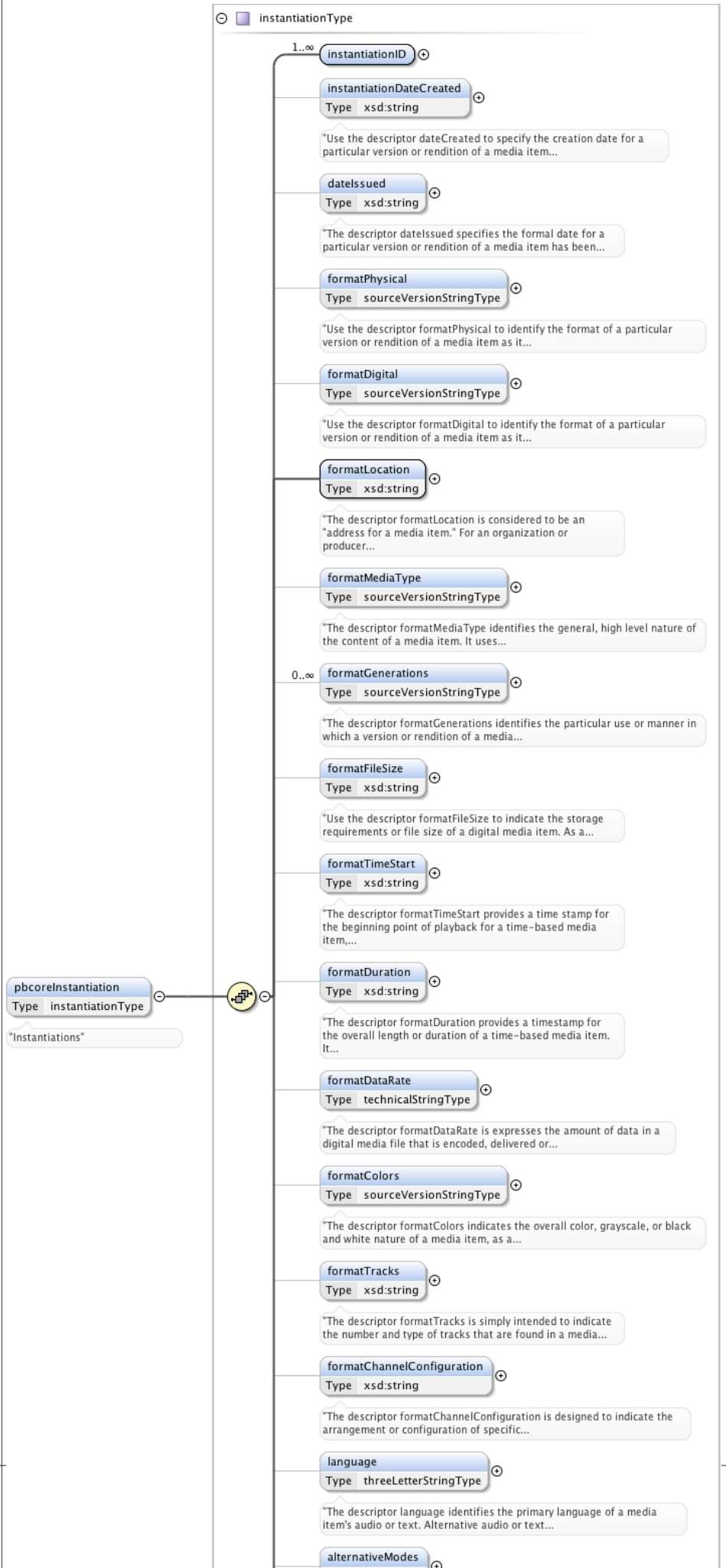
Element `rightsSummaryType / rightsEmbedded`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	embeddedType
Properties	content: `complex` minOccurs: `0` maxOccurs: `1`
Model	ANY element from ANY namespace
Attributes	**QName**: **annotation**; **Type**: xsd:string; **Fixed**: ; **Default**: ; **Use**: optional
`Source`	`<xsd:element name="rightsEmbedded" type="embeddedType" maxOccurs="1" minOccurs="0"/>`

Element `pbcoreDocumentDescriptionType / pbcoreInstantiation`

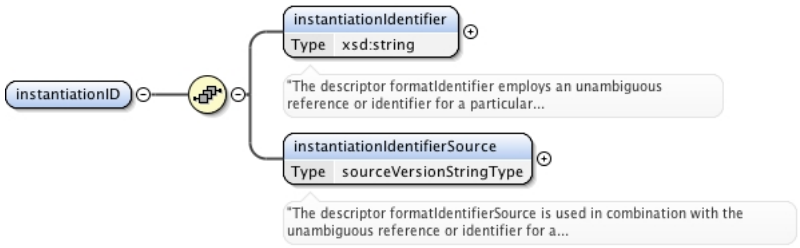
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	`"Instantiations"`

Diagram


instantiationType
1..∞
instantiationID
instantiationDateCreated
Type xsd:string
"Use the descriptor dateCreated to specify the creation date for a particular version or rendition of a media item...
dateIssued
Type xsd:string
"The descriptor dateIssued specifies the formal date for a particular version or rendition of a media item has been...
formatPhysical
Type sourceVersionStringType
"Use the descriptor formatPhysical to identify the format of a particular version or rendition of a media item as it...
formatDigital
Type sourceVersionStringType
"Use the descriptor formatDigital to identify the format of a particular version or rendition of a media item as it...
formatLocation
Type xsd:string
"The descriptor formatLocation is considered to be an "address for a media item." For an organization or producer...
formatMediaType
Type sourceVersionStringType
"The descriptor formatMediaType identifies the general, high level nature of the content of a media item. It uses...
0..∞
formatGenerations
Type sourceVersionStringType
"The descriptor formatGenerations identifies the particular use or manner in which a version or rendition of a media...
formatFileSize
Type xsd:string
"Use the descriptor formatFileSize to indicate the storage requirements or file size of a digital media item. As a...
formatTimeStart
Type xsd:string
"The descriptor formatTimeStart provides a time stamp for the beginning point of playback for a time-based media item,...
formatDuration
Type xsd:string
"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It...
formatDataRate
Type technicalStringType
"The descriptor formatDataRate is expresses the amount of data in a digital media file that is encoded, delivered or...
formatColors
Type sourceVersionStringType
"The descriptor formatColors indicates the overall color, grayscale, or black and white nature of a media item, as a...
formatTracks
Type xsd:string
"The descriptor formatTracks is simply intended to indicate the number and type of tracks that are found in a media...
formatChannelConfiguration
Type xsd:string
"The descriptor formatChannelConfiguration is designed to indicate the arrangement or configuration of specific...
language
Type threeLetterStringType
"The descriptor language identifies the primary language of a media item's audio or text. Alternative audio or text...
alternativeModes
pbcoreInstantiation
Type instantiationType
"Instantiations"

Type	instantiationType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	instantiationID+ , instantiationDateCreated{0,1} , dateIssued{0,1} , formatPhysical{0,1} , formatDigital{0,1} , formatLocation , formatMediaType{0,1} , formatGenerations* , formatFileSize{0,1} , formatTimeStart{0,1} , formatDuration{0,1} , formatDataRate{0,1} , formatColors{0,1} , formatTracks{0,1} , formatChannelConfiguration{0,1} , language{0,1} , alternativeModes{0,1} , instantiationEssenceTrack+ , instantiationDateAvailable* , instantiationRights* , instantiationAnnotation* , instantiationPart*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationAnnotation, instantiationDateAvailable, instantiationDateCreated, instantiationEssenceTrack, instantiationID, instantiationPart, instantiationRights, language
Instance	<pbcoreInstantiation> <instantiationID>{1,unbounded}</instantiationID> <instantiationDateCreated>{0,1}</instantiationDateCreated> <dateIssued>{0,1}</dateIssued> <formatPhysical annotation="" source="" version="">{0,1}</formatPhysical> <formatDigital annotation="" source="" version="">{0,1}</formatDigital> <formatLocation>{1,1}</formatLocation> <formatMediaType annotation="" source="" version="">{0,1}</formatMediaType> <formatGenerations annotation="" source="" version="">{0,unbounded}</formatGenerations> <formatFileSize>{0,1}</formatFileSize> <formatTimeStart>{0,1}</formatTimeStart> <formatDuration>{0,1}</formatDuration> <formatDataRate annotation="" unitsOfMeasure="">{0,1}</formatDataRate> <formatColors annotation="" source="" version="">{0,1}</formatColors> <formatTracks>{0,1}</formatTracks> <formatChannelConfiguration>{0,1}</formatChannelConfiguration> <language annotation="" source="" version="">{0,1}</language> <alternativeModes>{0,1}</alternativeModes> <instantiationEssenceTrack>{1,unbounded}</instantiationEssenceTrack> <instantiationDateAvailable>{0,unbounded}</instantiationDateAvailable> <instantiationRights>{0,unbounded}</instantiationRights> <instantiationAnnotation annotationType="">{0,unbounded}</instantiationAnnotation> <instantiationPart annotation="" relationID="" relationType="">{0,unbounded}</ instantiationPart> </pbcoreInstantiation>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreInstantiation" type="instantiationType"> <xsd:annotation> <xsd:documentation xml:lang="en">"Instantiations"</xsd:documentation> </xsd:annotation> </xsd:element>

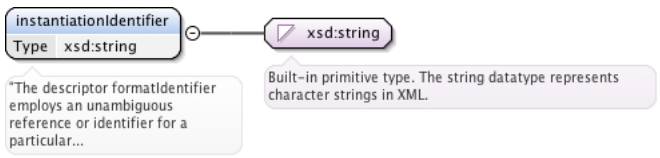
Element instantiationType / instantiationID

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	instantiationIdentifier , instantiationIdentifierSource
Children	instantiationIdentifier, instantiationIdentifierSource
Instance	<instantiationID> <instantiationIdentifier>{1,1}</instantiationIdentifier> <instantiationIdentifierSource annotation="" source="" version="">{1,1}</ instantiationIdentifierSource> </instantiationID>

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="instantiationID">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" name="instantiationIdentifier"
 type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor formatIdentifier employs an
                            unambiguous reference or identifier for a particular
                            rendition/instantiation of a media item. Best practice is to
 identify the
                            media item (whether analog 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."</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="1" name="instantiationIdentifierSource"
 type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor formatIdentifierSource is
                            used in combination with the unambiguous reference or
 identifier for a
                            rendition/instantiation of a media item as found in the
 descriptor
                            formatIdentifier. Thus PBCore provides not only a locator
 number, but
                            also indicates an agency or institution who assigned
                            it."</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
  </xsd:complexType>
</xsd:element>
```

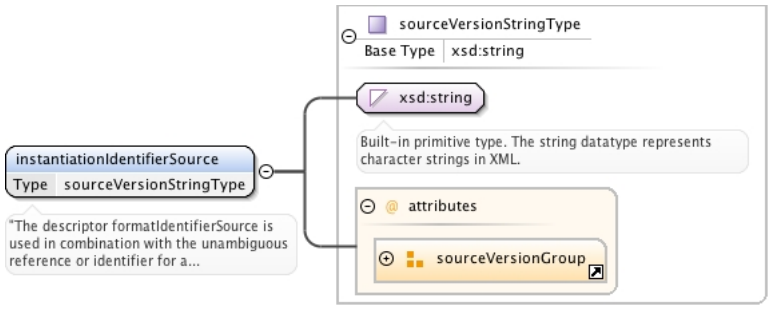
Element instantiationType / instantiationID / instantiationIdentifier

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatIdentifier employs an unambiguous reference or identifier for a particular rendition/instantiation of a media item. Best practice is to identify the media item (whether analog 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."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1

Source

```
<xsd:element maxOccurs="1" minOccurs="1" name="instantiationIdentifier" type="xsd:string">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor formatIdentifier employs an
                            unambiguous reference or identifier for a particular
                            rendition/instantiation of a media item. Best practice is to
 identify the
                            media item (whether analog 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."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element instantiationType / instantiationID / instantiationIdentifierSource

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatIdentifierSource is used in combination with the unambiguous reference or identifier for a rendition/instantiation of a media item as found in the descriptor formatIdentifier. Thus PBCore provides not only a locator number, but also indicates an agency or institution who assigned it."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 1 maxOccurs: 1

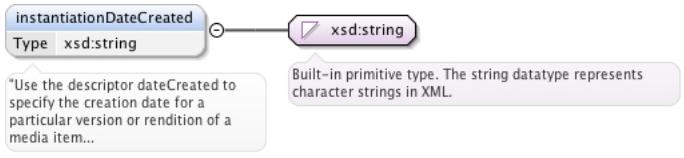
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="1" name="instantiationIdentifierSource"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor formatIdentifierSource is
                          used in combination with the unambiguous reference or
 identifier for a
                          rendition/instantiation of a media item as found in the
 descriptor
                          formatIdentifier. Thus PBCore provides not only a locator
 number, but
                          also indicates an agency or institution who assigned
                          it."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element instantiationType / instantiationDateCreated

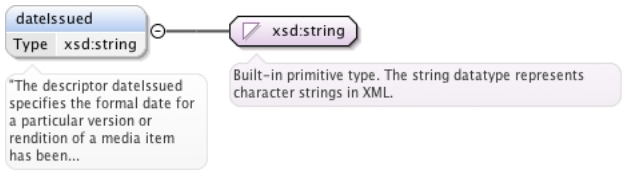
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor dateCreated to specify the creation date for a particular version or rendition of a media item across its life cycle. It is the moment in time that the media item was finalized during its production process and 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."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1

Source

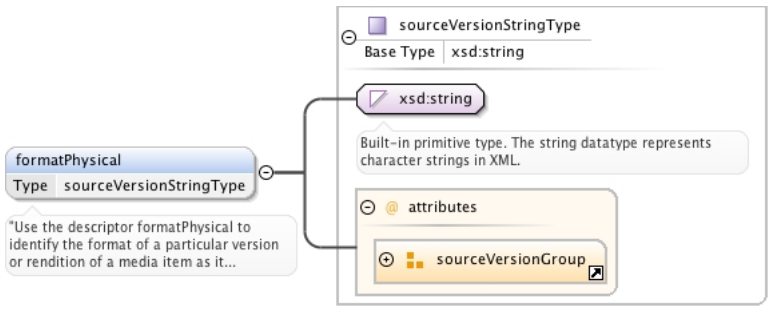
```
<xsd:element maxOccurs="1" minOccurs="0" name="instantiationDateCreated"
 type="xsd:string">
  <xsd:annotation>
```

```
    <xsd:documentation xml:lang="en">"Use the descriptor dateCreated to specify the
                    creation date for a particular version or rendition of a media item
 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."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element `instantiationType / dateIssued`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor dateIssued specifies the formal date for a particular version or rendition of a media item has been made ready or officially released for distribution, publication or consumption. A specific time may also be associated with the date."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="dateIssued" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor dateIssued specifies the formal date for a particular version or rendition of a media item has been made ready or officially released for distribution, publication or consumption. A specific time may also be associated with the date."</xsd:documentation> </xsd:annotation> </xsd:element>

Element `instantiationType / formatPhysical`

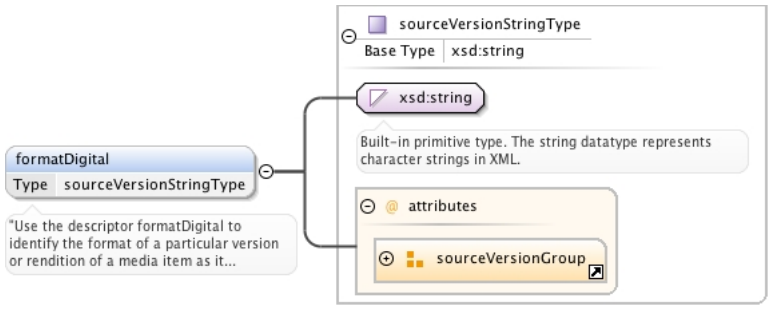
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor formatPhysical to identify the format of a particular version or rendition of a media item as it exists in an actual physical form that occupies physical space (e.g., a tape on a shelf), rather than as a digital file residing on a server or hard drive." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_formatPhysical.html"
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="formatPhysical"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor formatPhysical to identify the
                  format of a particular version or rendition of a media item as it exists
 in an
                  actual physical form that occupies physical space (e.g., a tape on a
 shelf),
                  rather than as a digital file residing on a server or hard
                  drive."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                  http://www.pbcore.org/PBCore/picklists/picklist_formatPhysical.html"</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element instantiationType / formatDigital

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor formatDigital to identify the format of a particular version or rendition of a media item as it exists in its digital form, i.e., as a digital file on a server or hard drive. Digital media formats may be expressed with formal Internet MIME types." "MIME types change often see references at http://www.pbcore.org/PBCore/formatDigital.html" "Picklist may not be up to date at http://www.pbcore.org/PBCore/picklists/picklist_formatDigital.html"
Diagram	
Type	sourceVersionStringType

Properties	content:	complex
	minOccurs:	0
	maxOccurs:	1

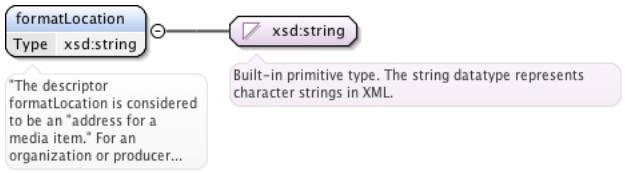
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

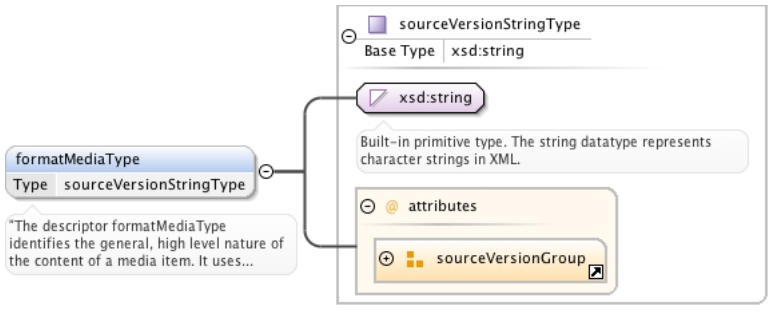
```
<xsd:element maxOccurs="1" minOccurs="0" name="formatDigital"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor formatDigital to identify the
                  format of a particular version or rendition of a media item as it exists
 in its
                  digital form, i.e., as a digital file on a server or hard drive. Digital
 media
                  formats may be expressed with formal Internet MIME types."</
xsd:documentation>
    <xsd:documentation xml:lang="en">"MIME types change often see references at
                  http://www.pbcore.org/PBCore/formatDigital.html"</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist may not be up to date at
                  http://www.pbcore.org/PBCore/picklists/picklist_formatDigital.html"</
xsd:documentation>
```

```
  </xsd:annotation>
</xsd:element>
```

Element instantiationType / formatLocation

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatLocation is considered to be an "address for a media item." For an organization or producer acting as caretaker of a media resource, formatLocation may contain information about a specific shelf location for an asset, including an organization's name, departmental name, shelf ID and contact information. The formatLocation for a data file or web page may include domain, path, filename or html page."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	`<xsd:element maxOccurs="1" minOccurs="1" name="formatLocation" type="xsd:string">` `  <xsd:annotation>` ` <xsd:documentation xml:lang="en">"The descriptor formatLocation is considered to be an "address for a media item." For an organization or producer acting as caretaker of a media resource, formatLocation may contain information about a specific shelf location for an asset, including an organization's name, departmental name, shelf ID and contact information. The formatLocation for a data file or web page may include domain, path, filename or html page."</xsd:documentation>` ` </xsd:annotation>` `</xsd:element>`

Element instantiationType / formatMediaType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatMediaType identifies the general, high level nature of the content of a media item. It uses categories that show how content is presented to an observer, e.g., as a sound or text or moving image." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_formatMediaType.html"
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes

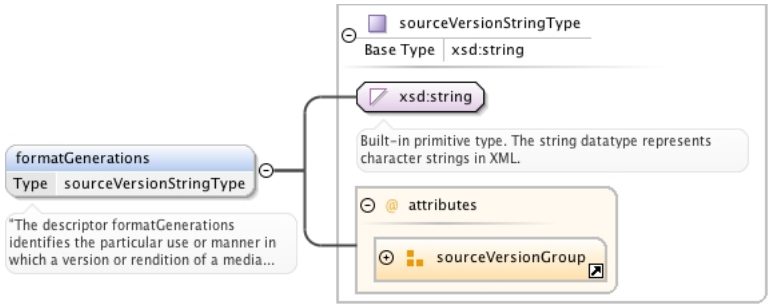
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional

	QName	Type	Fixed	Default	Use
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="formatMediaType"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor formatMediaType identifies the
                  general, high level nature of the content of a media item. It uses
 categories that
                  show how content is presented to an observer, e.g., as a sound or text
 or moving
                  image."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                  http://www.pbcore.org/PBCore/picklists/picklist_formatMediaType.html"</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element instantiationType / formatGenerations

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatGenerations identifies the particular use or manner in which a version or rendition of a media item is used, e.g., Audio/Narration or Moving image/Backup master." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_formatGenerations.html"
Diagram	
Type	sourceVersionStringType

Properties

content:	complex
minOccurs:	0
maxOccurs:	unbounded

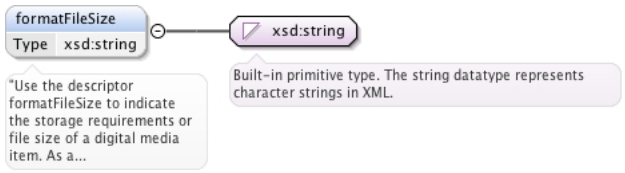
Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="formatGenerations"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor formatGenerations identifies the
                  particular use or manner in which a version or rendition of a media item
 is used,
                  e.g., Audio/Narration or Moving image/Backup master."</
xsd:documentation>
    <xsd:documentation xml:lang="en">"Picklist at
                  http://www.pbcore.org/PBCore/picklists/
picklist_formatGenerations.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

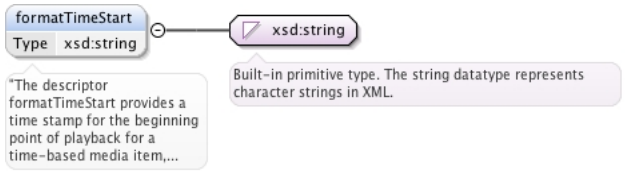
Element instantiationType / formatFileSize

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor formatFileSize to indicate the storage requirements or file size of a digital media item. As a standard, express the file size in bytes."

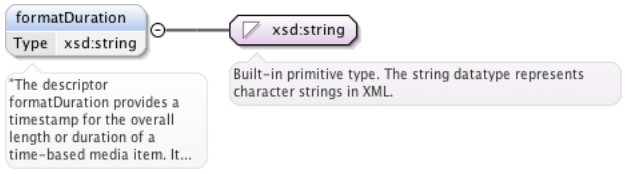
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1

Source	`<xsd:element maxOccurs="1" minOccurs="0" name="formatFileSize" type="xsd:string">`
	`  <xsd:annotation>`
	`  <xsd:documentation xml:lang="en">"Use the descriptor formatFileSize to indicate the storage requirements or file size of a digital media item. As a standard, express the file size in bytes."</xsd:documentation>`
	`  </xsd:annotation>`
	`</xsd:element>`

Element instantiationType / formatTimeStart

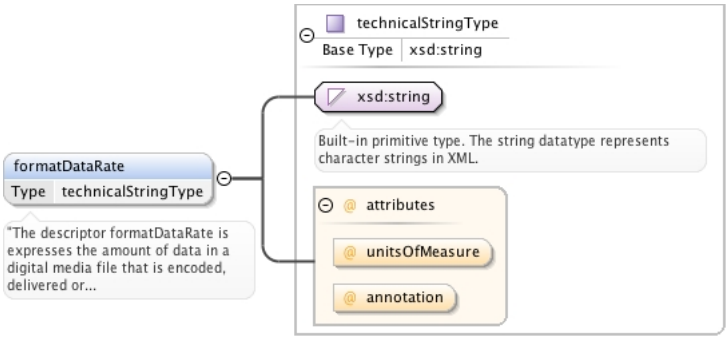
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatTimeStart provides a time stamp for the beginning point of playback for a time-based media item, such as digital video or audio. Use in combination with formatDuration to identify a sequence or segment of a media item that has a fixed start time and end time."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	`<xsd:element maxOccurs="1" minOccurs="0" name="formatTimeStart" type="xsd:string">` `  <xsd:annotation>` ` <xsd:documentation xml:lang="en">"The descriptor formatTimeStart provides a time stamp for the beginning point of playback for a time-based media item, such as digital video or audio. Use in combination with formatDuration to identify a sequence or segment of a media item that has a fixed start time and end time."</xsd:documentation>` ` </xsd:annotation>` `</xsd:element>`

Element instantiationType / formatDuration

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It represents the playback time."
Diagram	
Type	xsd:string

Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="formatDuration" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It represents the playback time."</xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / formatDataRate

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatDataRate is expresses the amount of data in a digital media file that is encoded, delivered or distributed, for every second of time. Although optimal data rates are often dependent on the codec used to compress and encode a digital file, generally speaking, a larger data rate translates into a better quality playback experience, for example 56 kilobits/second vs. 1 megabit/second."
Diagram	
Type	technicalStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes

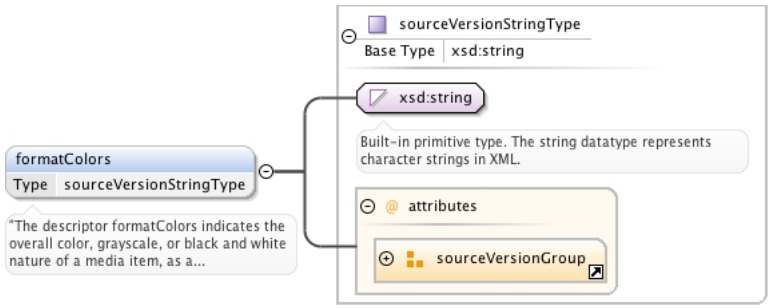
QName	Type	Fixed	Default	Use
annotation				optional
unitsOfMeasure				optional

Source

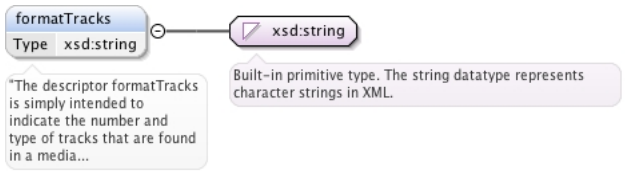
```
<xsd:element maxOccurs="1" minOccurs="0" name="formatDataRate" type="technicalStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor formatDataRate is expresses the
                  amount of data in a digital media file that is encoded, delivered or
 distributed,
                  for every second of time. Although optimal data rates are often
 dependent on the
                  codec used to compress and encode a digital file, generally speaking, a
 larger
                  data rate translates into a better quality playback experience, for
 example 56
                  kilobits/second vs. 1 megabit/second."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element instantiationType / formatColors

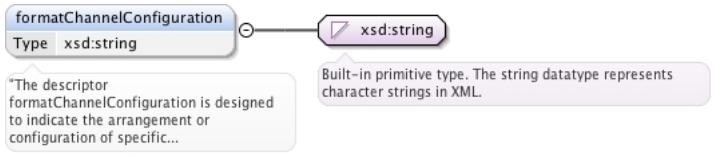
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatColors indicates the overall color, grayscale, or black and white nature of a media item, as a single occurrence or combination of occurrences in or throughout the media item." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_formatColors.html"

Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **annotation** / xsd:string / / / optional **source** / xsd:string / / / optional **version** / xsd:string / / / optional
Source	<xsd:element maxOccurs="1" minOccurs="0" name="formatColors" type="sourceVersionStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor formatColors indicates the overall color, grayscale, or black and white nature of a media item, as a single occurrence or combination of occurrences in or throughout the media item."</xsd:documentation> <xsd:documentation xml:lang="en">"Picklist at http://www.pbcore.org/PBCore/picklists/picklist_formatColors.html"</xsd:documentation> </xsd:annotation> </xsd:element>

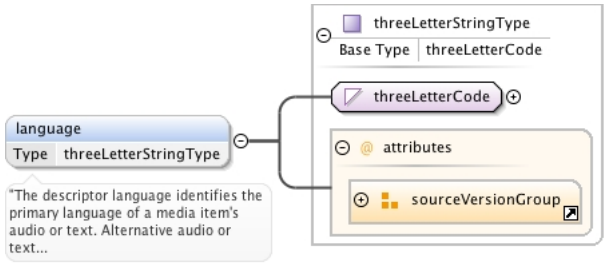
Element instantiationType / formatTracks

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatTracks is simply intended to indicate the number and type of tracks that are found in a media item, whether it is analog or digital. For example, 1 video track, 2 audio tracks, 1 text track, 1 sprite track, etc. Other configuration information specific to these identified tracks should be described using formatChannelConfiguration."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="formatTracks" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor formatTracks is simply intended to indicate the number and type of tracks that are found in a media item, whether it is analog or digital. For example, 1 video track, 2 audio tracks, 1 text track, 1 sprite track, etc. Other configuration information specific to these identified tracks should be described using formatChannelConfiguration."</xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / formatChannelConfiguration

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatChannelConfiguration is designed to indicate the arrangement or configuration of specific channels or layers of information within a media item's tracks. Examples are 2-track mono, 8 track stereo, or video track with alpha channel."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="formatChannelConfiguration" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor formatChannelConfiguration is designed to indicate the arrangement or configuration of specific channels or layers of information within a media item's tracks. Examples are 2-track mono, 8 track stereo, or video track with alpha channel."</xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / language

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor language identifies the primary language of a media item's audio or text. Alternative audio or text tracks and their associated languages should be identified using the descriptor alternativeModes." "Use reference at http://www.pbcore.org/PBCore/language.html"
Diagram	
Type	threeLetterStringType

Type hierarchy	• xsd:string
	  • threeLetterCode
	  • threeLetterStringType

Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes

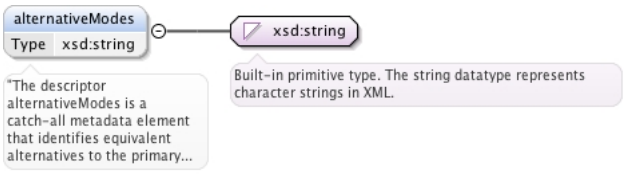
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element name="language" type="threeLetterStringType" maxOccurs="1" minOccurs="0">
```

```
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor language identifies the primary
                  language of a media item's audio or text. Alternative audio or text
 tracks and
                  their associated languages should be identified using the descriptor
                  alternativeModes."</xsd:documentation>
    <xsd:documentation xml:lang="en">"Use reference at
                  http://www.pbcore.org/PBCore/language.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

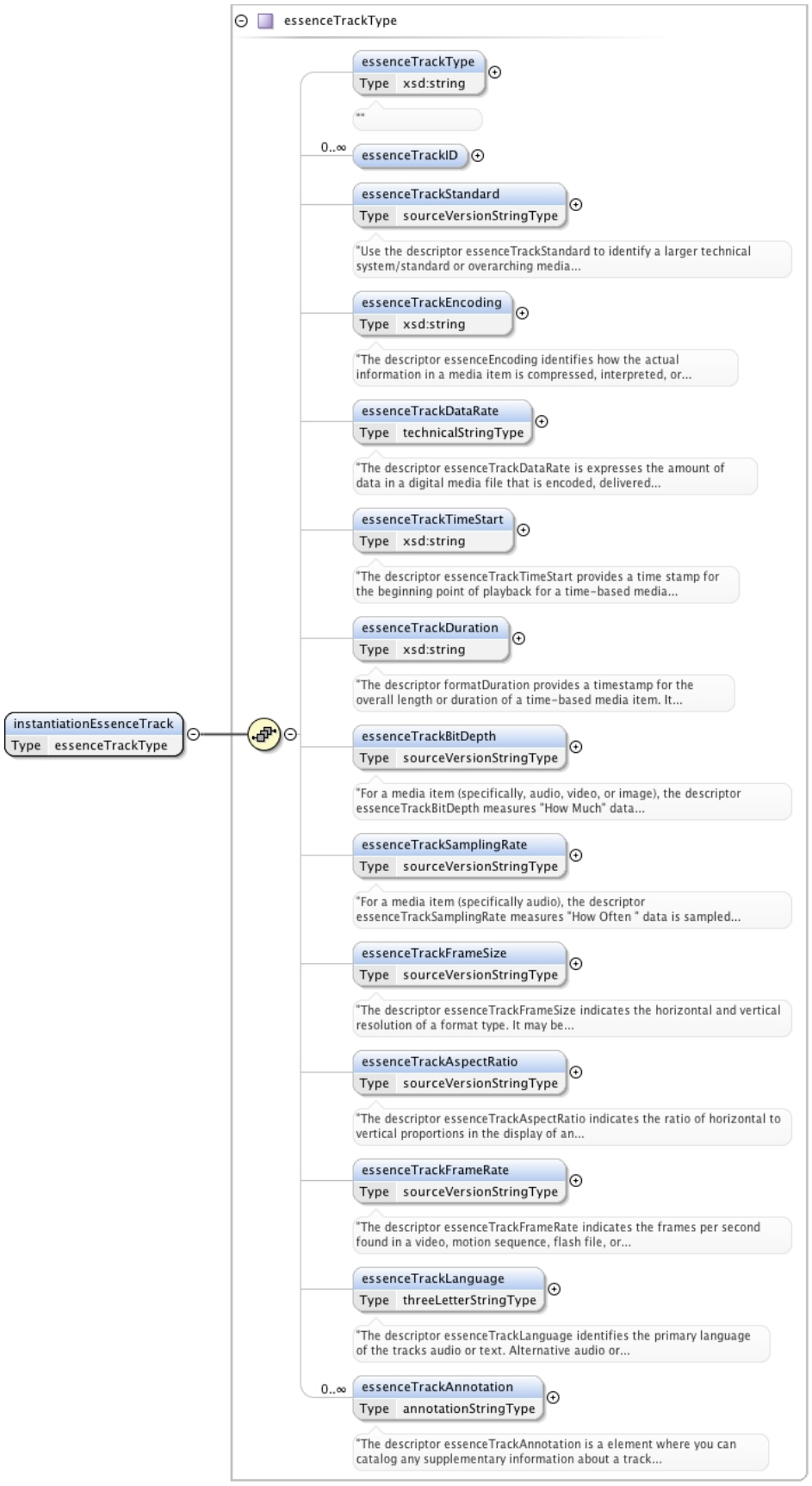
Element `instantiationType / alternativeModes`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor alternativeModes is a catch-all metadata element that identifies equivalent alternatives to the primary visual, sound or textual information that exists in a media item. These are modes that offer alternative ways to see, hear, and read the content of a media item. Examples include DVI (Descriptive Video Information), SAP (Supplementary Audio Program), ClosedCaptions, OpenCaptions, Subtitles, Language Dubs, and Transcripts. For each instance of available alternativeModes, the mode and its associated language should be identified together, if applicable. Examples include 'SAP in English,' 'SAP in Spanish,' 'Subtitle in French,' 'OpenCaption in Arabic.'"
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	

```
<xsd:element maxOccurs="1" minOccurs="0" name="alternativeModes" type="xsd:string">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor alternativeModes is a catch-all
                  metadata element that identifies equivalent alternatives to the primary
 visual,
                  sound or textual information that exists in a media item. These are
 modes that
                  offer alternative ways to see, hear, and read the content of a media
 item.
                  Examples include DVI (Descriptive Video Information), SAP (Supplementary
 Audio
                  Program), ClosedCaptions, OpenCaptions, Subtitles, Language Dubs, and
 Transcripts.
                  For each instance of available alternativeModes, the mode and its
 associated
                  language should be identified together, if applicable. Examples include
 'SAP in
                  English,' 'SAP in Spanish,' 'Subtitle in French,' 'OpenCaption in
                  Arabic.'"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element `instantiationType / instantiationEssenceTrack`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

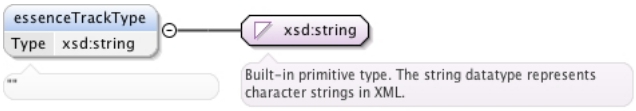
Diagram	
Type	essenceTrackType
Properties	content: complex minOccurs: 1

	maxOccurs: unbounded
Model	essenceTrackType{0,1} , essenceTrackID* , essenceTrackStandard{0,1} , essenceTrackEncoding{0,1} , essenceTrackDataRate{0,1} , essenceTrackTimeStart{0,1} , essenceTrackDuration{0,1} , essenceTrackBitDepth{0,1} , essenceTrackSamplingRate{0,1} , essenceTrackFrameSize{0,1} , essenceTrackAspectRatio{0,1} , essenceTrackFrameRate{0,1} , essenceTrackLanguage{0,1} , essenceTrackAnnotation*
Children	essenceTrackAnnotation, essenceTrackAspectRatio, essenceTrackBitDepth, essenceTrackDataRate, essenceTrackDuration, essenceTrackEncoding, essenceTrackFrameRate, essenceTrackFrameSize, essenceTrackID, essenceTrackLanguage, essenceTrackSamplingRate, essenceTrackStandard, essenceTrackTimeStart, essenceTrackType

Instance	<pre><instantiationEssenceTrack>
	  <essenceTrackType>{0,1}</essenceTrackType>
	  <essenceTrackID>{0,unbounded}</essenceTrackID>
	  <essenceTrackStandard annotation="" source="" version="">{0,1}</essenceTrackStandard>
	  <essenceTrackEncoding>{0,1}</essenceTrackEncoding>
	  <essenceTrackDataRate annotation="" unitsOfMeasure="">{0,1}</essenceTrackDataRate>
	  <essenceTrackTimeStart>{0,1}</essenceTrackTimeStart>
	  <essenceTrackDuration>{0,1}</essenceTrackDuration>
	  <essenceTrackBitDepth annotation="" source="" version="">{0,1}</essenceTrackBitDepth>
	  <essenceTrackSamplingRate annotation="" source="" version="">{0,1}</
	essenceTrackSamplingRate>
	  <essenceTrackFrameSize annotation="" source="" version="">{0,1}</essenceTrackFrameSize>
	  <essenceTrackAspectRatio annotation="" source="" version="">{0,1}</
	essenceTrackAspectRatio>
	  <essenceTrackFrameRate annotation="" source="" version="">{0,1}</essenceTrackFrameRate>
	  <essenceTrackLanguage annotation="" source="" version="">{0,1}</essenceTrackLanguage>
	  <essenceTrackAnnotation annotationType="">{0,unbounded}</essenceTrackAnnotation>
	</instantiationEssenceTrack></pre>

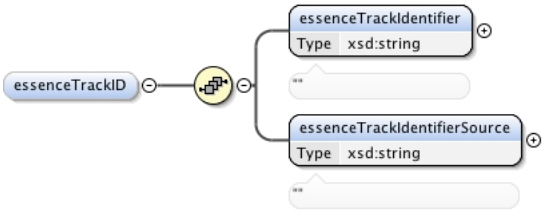
Source	<pre><xsd:element maxOccurs="unbounded" minOccurs="1" name="instantiationEssenceTrack"
	 type="essenceTrackType">
	</xsd:element></pre>

Element essenceTrackType / essenceTrackType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	""
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1

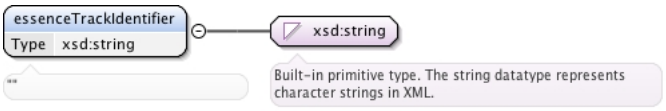
Source	<pre><xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackType" type="xsd:string">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">""</xsd:documentation>
	  </xsd:annotation>
	</xsd:element></pre>

Element essenceTrackType / essenceTrackID

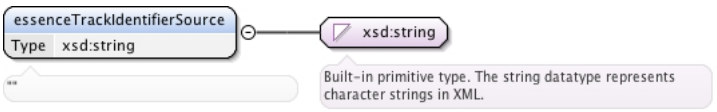
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	essenceTrackIdentifier , essenceTrackIdentifierSource

Children	essenceTrackIdentifier, essenceTrackIdentifierSource
Instance	<essenceTrackID> <essenceTrackIdentifier>{1,1}</essenceTrackIdentifier> <essenceTrackIdentifierSource>{1,1}</essenceTrackIdentifierSource> </essenceTrackID>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="essenceTrackID"> <xsd:complexType> <xsd:sequence> <!-- the pbcore essence track identifier --> <xsd:element maxOccurs="1" minOccurs="1" name="essenceTrackIdentifier" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">""</xsd:documentation> </xsd:annotation> </xsd:element> <!-- the pbcore essence track identifier source --> <xsd:element maxOccurs="1" minOccurs="1" name="essenceTrackIdentifierSource" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">""</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:complexType> </xsd:element>

Element essenceTrackType / essenceTrackID / essenceTrackIdentifier

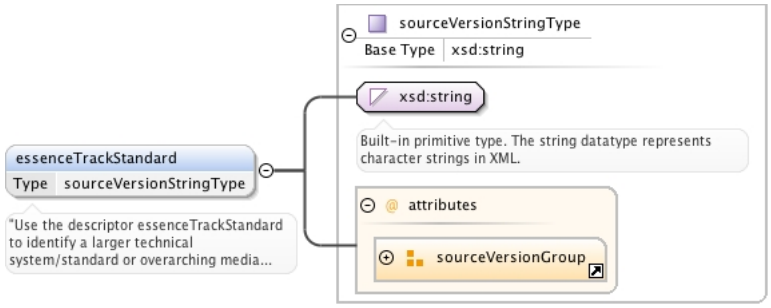
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	""
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="1" name="essenceTrackIdentifier" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">""</xsd:documentation> </xsd:annotation> </xsd:element>

Element essenceTrackType / essenceTrackID / essenceTrackIdentifierSource

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	""
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="1" name="essenceTrackIdentifierSource" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">""</xsd:documentation> </xsd:annotation> </xsd:element>

Element essenceTrackType / essenceTrackStandard

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Annotations	"Use the descriptor essenceTrackStandard to identify a larger technical system/standard or overarching media architecture under which various media formats exist, e.g., NTSC is a system/standard under which many video formats exist."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

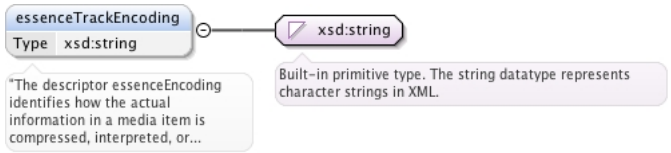
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackStandard"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor essenceTrackStandard to identify
                  a larger technical system/standard or overarching media architecture
 under which
                  various media formats exist, e.g., NTSC is a system/standard under which
 many
                  video formats exist."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackEncoding

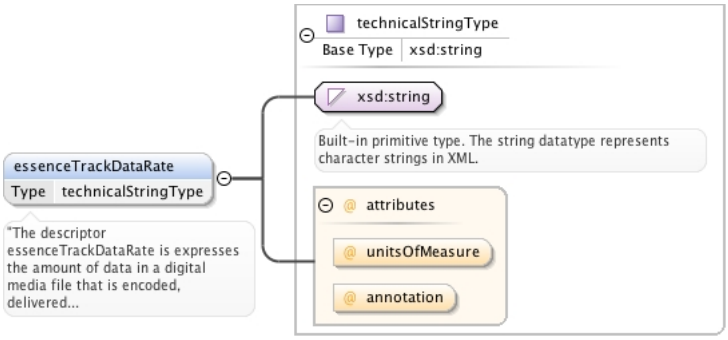
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceEncoding identifies how the actual information in a media item is compressed, interpreted, or formulated using a particular scheme. Identifying the encoding used is beneficial for a number of reasons, including as a way to achieve reversible compression; for the construction of document indices to facilitate searching and access; or for efficient distribution of the information across data networks with differing bandwidths or pipeline capacities."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1

Source

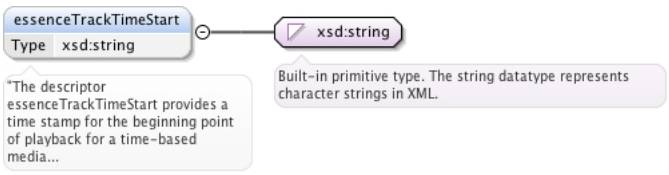
```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackEncoding" type="xsd:string">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceEncoding identifies how the
                  actual information in a media item is compressed, interpreted, or
 formulated using
                  a particular scheme. Identifying the encoding used is beneficial for a
 number of
                  reasons, including as a way to achieve reversible compression; for the
                  construction of document indices to facilitate searching and access; or
 for
```

```
                    efficient distribution of the information across data networks with
 differing
                    bandwidths or pipeline capacities."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackDataRate

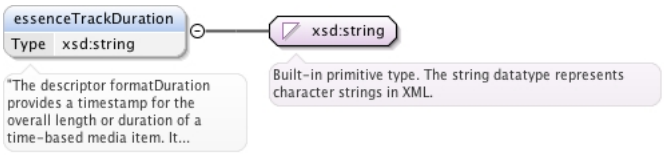
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackDataRate is expresses the amount of data in a digital media file that is encoded, delivered or distributed, for every second of time. Although optimal data rates are often dependent on the codec used to compress and encode a digital file, generally speaking, a larger data rate translates into a better quality playback experience, for example 56 kilobits/second vs. 1 megabit/second."
Diagram	
Type	technicalStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **annotation** / / / / optional **unitsOfMeasure** / / / / optional
Source	`<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackDataRate" type="technicalStringType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor essenceTrackDataRate is expresses the amount of data in a digital media file that is encoded, delivered or distributed, for every second of time. Although optimal data rates are often dependent on the codec used to compress and encode a digital file, generally speaking, a larger data rate translates into a better quality playback experience, for example 56 kilobits/second vs. 1 megabit/second."</xsd:documentation> </xsd:annotation> </xsd:element>`

Element essenceTrackType / essenceTrackTimeStart

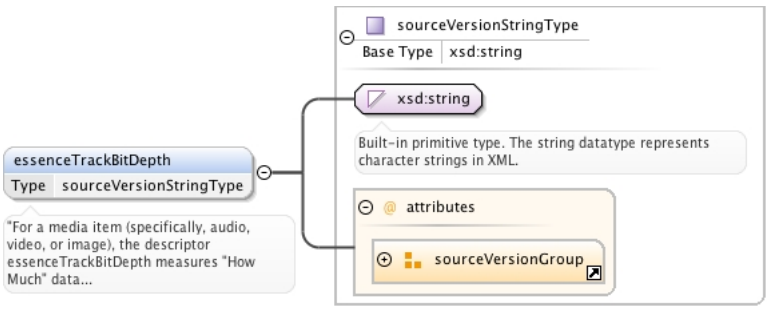
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackTimeStart provides a time stamp for the beginning point of playback for a time-based media item, such as digital video or audio. Use in combination with essenceTrackDuration to identify a sequence or segment of a media item that has a fixed start time and end time."
Diagram	
Type	xsd:string

Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackTimeStart" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor essenceTrackTimeStart provides a time stamp for the beginning point of playback for a time-based media item, such as digital video or audio. Use in combination with essenceTrackDuration to identify a sequence or segment of a media item that has a fixed start time and end time."</xsd:documentation> </xsd:annotation> </xsd:element>

Element essenceTrackType / essenceTrackDuration

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It represents the playback time."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackDuration" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It represents the playback time."</xsd:documentation> </xsd:annotation> </xsd:element>

Element essenceTrackType / essenceTrackBitDepth

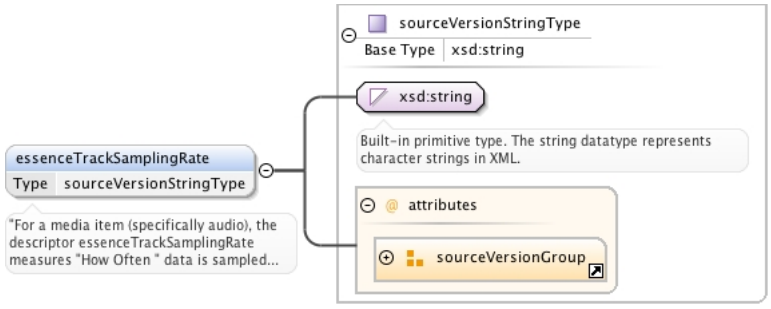
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"For a media item (specifically, audio, video, or image), the descriptor essenceTrackBitDepth measures "How Much" data is sampled when information is digitized, encoded, or converted. Bit depth is measured in bits and is an indicator of the perceived viewing or playback quality of a media item (the higher the bit depth, the greater the fidelity)."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackBitDepth"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"For a media item (specifically, audio, video, or
                  image), the descriptor essenceTrackBitDepth measures "How Much" data is
 sampled
                  when information is digitized, encoded, or converted. Bit depth is
 measured in
                  bits and is an indicator of the perceived viewing or playback quality of
 a media
                  item (the higher the bit depth, the greater the fidelity)."</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackSamplingRate

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"For a media item (specifically audio), the descriptor essenceTrackSamplingRate measures "How Often " data is sampled when information is digitized. For a digital audio signal, the sampling rate is measured in kiloHertz and is an indicator of the perceived playback quality of the media item (the higher the sampling rate, the greater the fidelity)."
Diagram	

Type	sourceVersionStringType	
Properties	content:	complex
	minOccurs:	0
	maxOccurs:	1

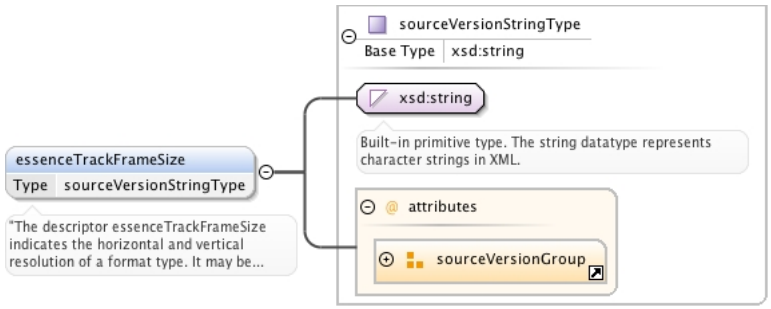
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackSamplingRate"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"For a media item (specifically audio), the
                  descriptor essenceTrackSamplingRate measures "How Often " data is
 sampled when
                  information is digitized. For a digital audio signal, the sampling rate
 is
                  measured in kiloHertz and is an indicator of the perceived playback
 quality of the
                  media item (the higher the sampling rate, the greater the
                  fidelity)."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackFrameSize

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackFrameSize indicates the

	horizontal and vertical resolution of a format type. It may be expressed in pixels, pixels per inch, or in the case of ATSC digital TV, a combination of pixels measured horizontally vs. the number of pixels of image/resolution data stacked vertically (interlaced and progressive scan)."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

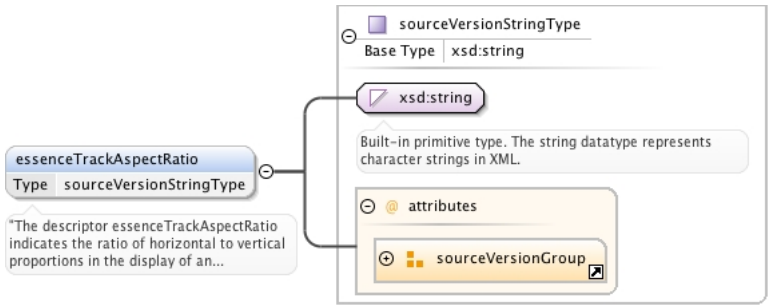
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackFrameSize"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceTrackFrameSize indicates the
                horizontal and vertical resolution of a format type. It may be expressed
 in
                pixels, pixels per inch, or in the case of ATSC digital TV, a
 combination of
                pixels measured horizontally vs. the number of pixels of image/
resolution data
                stacked vertically (interlaced and progressive scan)."</
xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackAspectRatio

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackAspectRatio indicates the ratio of horizontal to vertical proportions in the display of an static image or moving image."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

Attributes

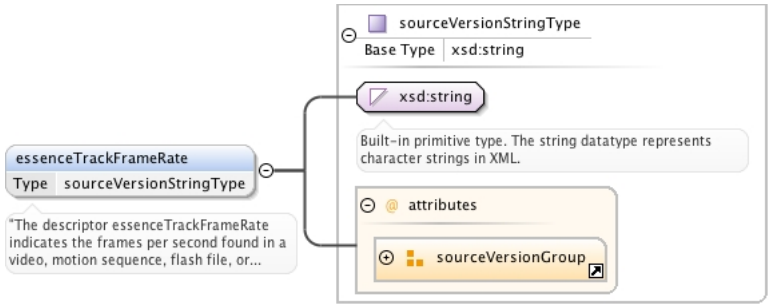
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional

	QName	Type	Fixed	Default	Use
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackAspectRatio"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceTrackAspectRatio indicates
                  the ratio of horizontal to vertical proportions in the display of an
 static image
                  or moving image."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackFrameRate

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackFrameRate indicates the frames per second found in a video, motion sequence, flash file, or animation's playback or display."
Diagram	
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1

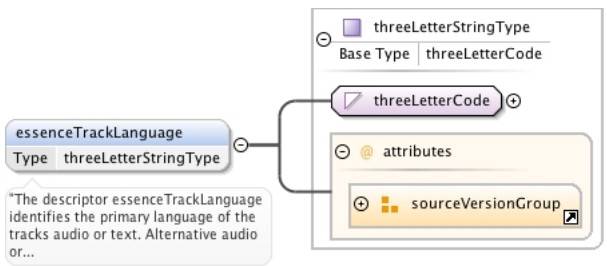
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackFrameRate"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceTrackFrameRate indicates the
                  frames per second found in a video, motion sequence, flash file, or
 animation's
                  playback or display."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackLanguage

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackLanguage identifies the primary language of the tracks audio or text. Alternative audio or text tracks and their associated languages should be identified using the descriptor alternativeModes."
Diagram	
Type	threeLetterStringType

Type hierarchy	• xsd:string
	  • threeLetterCode
	  • threeLetterStringType

Properties	content: complex minOccurs: 0 maxOccurs: 1

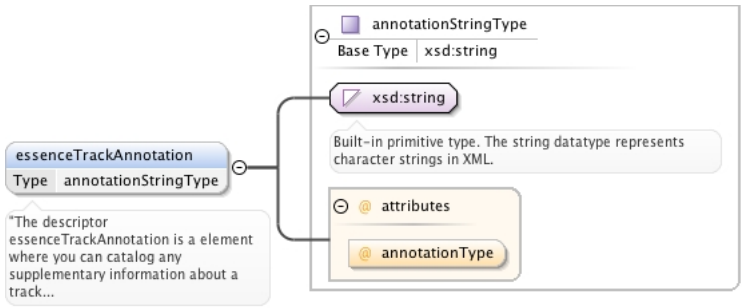
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackLanguage"
 type="threeLetterStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceTrackLanguage identifies the
                  primary language of the tracks audio or text. Alternative audio or text
 tracks and
                  their associated languages should be identified using the descriptor
                  alternativeModes."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element essenceTrackType / essenceTrackAnnotation

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackAnnotation is a element where you can catalog any supplementary information about a track or the metadata used to describe it. annotation clarifies element values, terms, descriptors, and vocabularies that may not be otherwise sufficiently understood."
Diagram	
Type	annotationStringType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded

Attributes

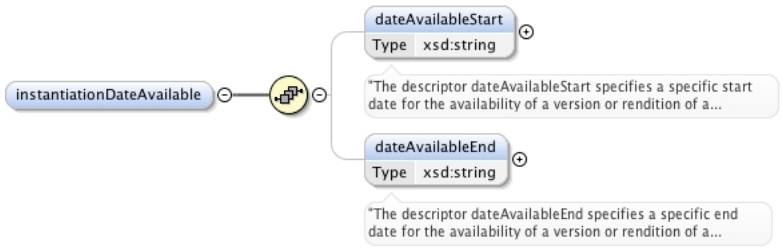
QName	Type	Fixed	Default	Use
annotationType				optional

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="essenceTrackAnnotation"
 type="annotationStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceTrackAnnotation is a element
                  where you can catalog any supplementary information about a track or the
 metadata
                  used to describe it. annotation clarifies element values, terms,
 descriptors, and
                  vocabularies that may not be otherwise sufficiently
                  understood."</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

Element instantiationType / instantiationDateAvailable

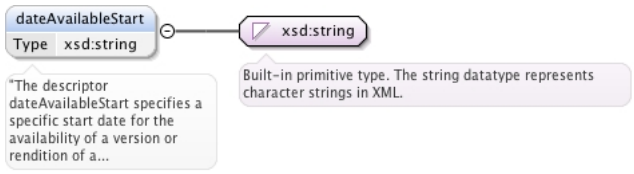
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	dateAvailableStart{0,1} , dateAvailableEnd{0,1}
Children	dateAvailableEnd, dateAvailableStart

Instance	<pre><instantiationDateAvailable>
	  <dateAvailableStart>{0,1}</dateAvailableStart>
	  <dateAvailableEnd>{0,1}</dateAvailableEnd>
	</instantiationDateAvailable></pre>

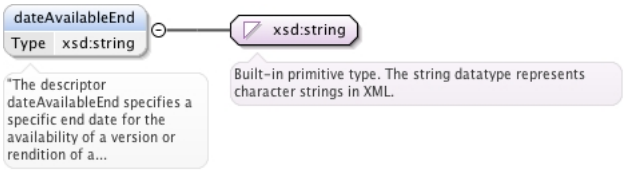
Source	<pre><xsd:element maxOccurs="unbounded" minOccurs="0" name="instantiationDateAvailable">
	  <xsd:complexType>
	  <xsd:sequence>
	  <xsd:element maxOccurs="1" minOccurs="0" name="dateAvailableStart"
	type="xsd:string">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"The descriptor dateAvailableStart
	specifies a specific start date for the availability of a
	version or
	rendition of a media item. It may refer to start dates for the
	availability of a program that is broadcast locally,
	regionally,
	nationally or internationally, or for web-based distribution. A
	specific
	time may also be associated with the date."</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  <xsd:element maxOccurs="1" minOccurs="0" name="dateAvailableEnd" type="xsd:string">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"The descriptor dateAvailableEnd specifies
	a specific end date for the availability of a version or
	rendition of a
	media item. It may refer to end dates for the availability of a
	program
	that is broadcast locally, regionally, nationally or
	internationally, or
	for web-based distribution. A specific time may also be
	associated with
	the date."</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  </xsd:sequence>
	  </xsd:complexType>
	</xsd:element></pre>

Element instantiationType / instantiationDateAvailable / dateAvailableStart

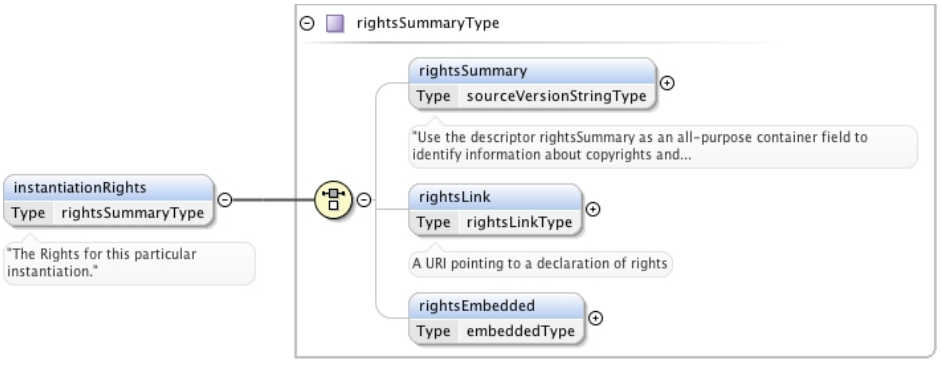
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor dateAvailableStart specifies a specific start date for the availability of a version or rendition of a media item. It may refer to start dates for the availability of a program that is broadcast locally, regionally, nationally or internationally, or for web-based distribution. A specific time may also be associated with the date."
Diagram	
Type	xsd:string
Properties	content: simple

	minOccurs: 0
	maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="dateAvailableStart" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor dateAvailableStart specifies a specific start date for the availability of a version or rendition of a media item. It may refer to start dates for the availability of a program that is broadcast locally, regionally, nationally or internationally, or for web-based distribution. A specific time may also be associated with the date."</xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / instantiationDateAvailable / dateAvailableEnd

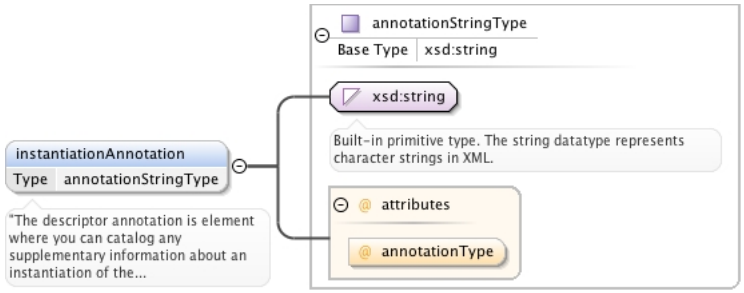
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor dateAvailableEnd specifies a specific end date for the availability of a version or rendition of a media item. It may refer to end dates for the availability of a program that is broadcast locally, regionally, nationally or internationally, or for web-based distribution. A specific time may also be associated with the date."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="dateAvailableEnd" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor dateAvailableEnd specifies a specific end date for the availability of a version or rendition of a media item. It may refer to end dates for the availability of a program that is broadcast locally, regionally, nationally or internationally, or for web-based distribution. A specific time may also be associated with the date."</xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / instantiationRights

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The Rights for this particular instantiation."
Diagram	

Type	rightsSummaryType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	rightsSummary{0,1} | rightsLink{0,1} | rightsEmbedded{0,1}
Children	rightsEmbedded, rightsLink, rightsSummary
Instance	<instantiationRights> <rightsSummary annotation="" source="" version="">{0,1}</rightsSummary> <rightsLink annotation="">{0,1}</rightsLink> <rightsEmbedded annotation="">{0,1}</rightsEmbedded> </instantiationRights>
Source	<xsd:element name="instantiationRights" type="rightsSummaryType" maxOccurs="unbounded" minOccurs="0"> <xsd:annotation> <xsd:documentation xml:lang="en">"The Rights for this particular instantiation."</ xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / instantiationAnnotation

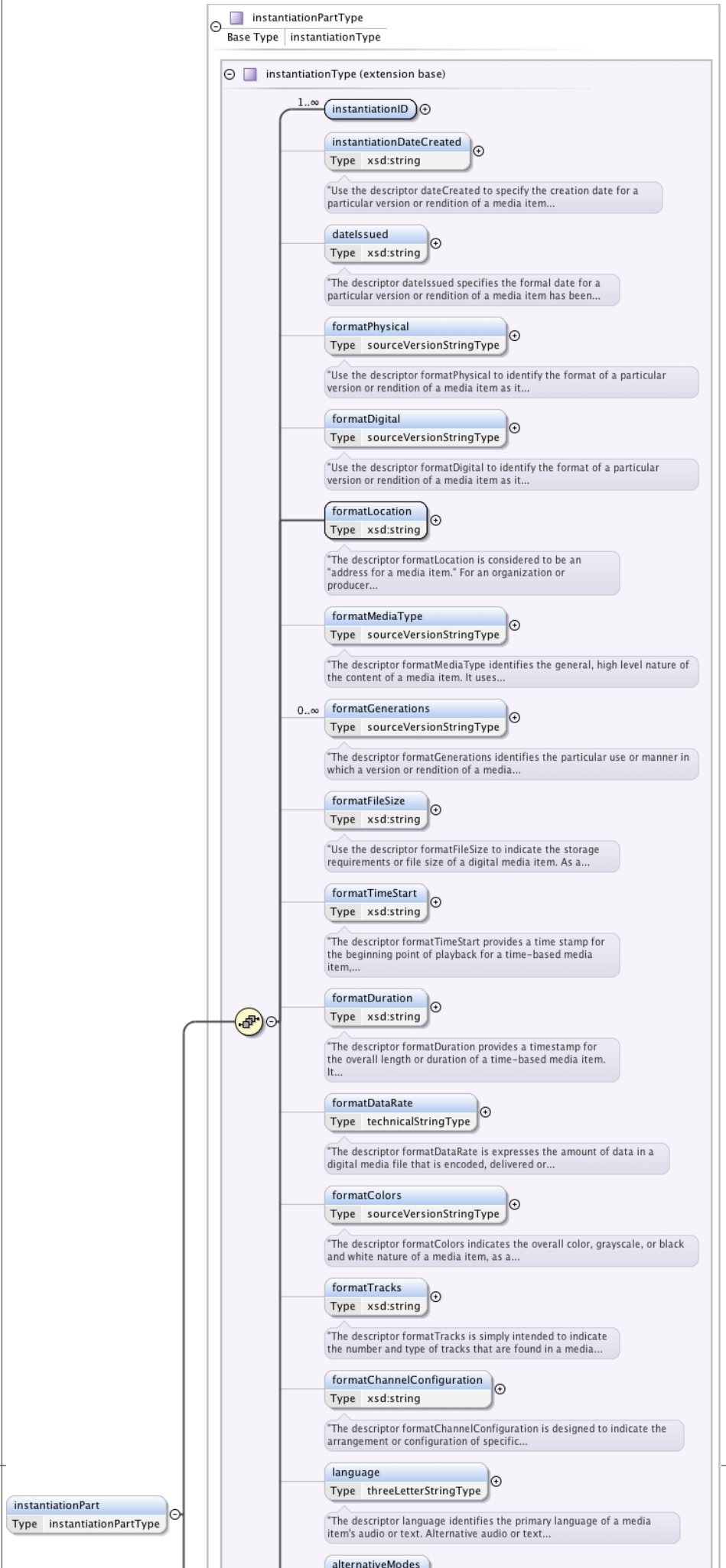
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor annotation is element where you can catalog any supplementary information about an instantiation of the media item or the metadata used to describe it. annotation clarifies element values, terms, descriptors, and vocabularies that may not be otherwise sufficiently understood."
Diagram	
Type	annotationStringType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Attributes	**QName** | **Type** | **Fixed** | **Default** | **Use** **annotationType** | | | | optional

Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="instantiationAnnotation"
	 type="annotationStringType">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"The descriptor annotation is element where you can
	  catalog any supplementary information about an instantiation of the
	 media item or
	  the metadata used to describe it. annotation clarifies element values,
	 terms,
	  descriptors, and vocabularies that may not be otherwise sufficiently
	  understood."</xsd:documentation>
	  </xsd:annotation>
	</xsd:element>

Element instantiationType / instantiationPart

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram


instantiationPartType
Base Type instantiationType
instantiationType (extension base)
1..∞
instantiationID
instantiationDateCreated
Type xsd:string
"Use the descriptor dateCreated to specify the creation date for a particular version or rendition of a media item...
dateIssued
Type xsd:string
"The descriptor dateIssued specifies the formal date for a particular version or rendition of a media item has been...
formatPhysical
Type sourceVersionStringType
"Use the descriptor formatPhysical to identify the format of a particular version or rendition of a media item as it...
formatDigital
Type sourceVersionStringType
"Use the descriptor formatDigital to identify the format of a particular version or rendition of a media item as it...
formatLocation
Type xsd:string
"The descriptor formatLocation is considered to be an "address for a media item." For an organization or producer...
formatMediaType
Type sourceVersionStringType
"The descriptor formatMediaType identifies the general, high level nature of the content of a media item. It uses...
0..∞
formatGenerations
Type sourceVersionStringType
"The descriptor formatGenerations identifies the particular use or manner in which a version or rendition of a media...
formatFileSize
Type xsd:string
"Use the descriptor formatFileSize to indicate the storage requirements or file size of a digital media item. As a...
formatTimeStart
Type xsd:string
"The descriptor formatTimeStart provides a time stamp for the beginning point of playback for a time-based media item,...
formatDuration
Type xsd:string
"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It...
formatDataRate
Type technicalStringType
"The descriptor formatDataRate is expresses the amount of data in a digital media file that is encoded, delivered or...
formatColors
Type sourceVersionStringType
"The descriptor formatColors indicates the overall color, grayscale, or black and white nature of a media item, as a...
formatTracks
Type xsd:string
"The descriptor formatTracks is simply intended to indicate the number and type of tracks that are found in a media...
formatChannelConfiguration
Type xsd:string
"The descriptor formatChannelConfiguration is designed to indicate the arrangement or configuration of specific...
language
Type threeLetterStringType
"The descriptor language identifies the primary language of a media item's audio or text. Alternative audio or text...
alternativeModes
instantiationPart
Type instantiationPartType

Type	instantiationPartType
Type hierarchy	• instantiationType • instantiationPartType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	instantiationID+ , instantiationDateCreated{0,1} , dateIssued{0,1} , formatPhysical{0,1} , formatDigital{0,1} , formatLocation , formatMediaType{0,1} , formatGenerations* , formatFileSize{0,1} , formatTimeStart{0,1} , formatDuration{0,1} , formatDataRate{0,1} , formatColors{0,1} , formatTracks{0,1} , formatChannelConfiguration{0,1} , language{0,1} , alternativeModes{0,1} , instantiationEssenceTrack+ , instantiationDateAvailable* , instantiationRights* , instantiationAnnotation* , instantiationPart*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationAnnotation, instantiationDateAvailable, instantiationDateCreated, instantiationEssenceTrack, instantiationID, instantiationPart, instantiationRights, language

Instance

```
<instantiationPart annotation="" relationID="" relationType="">
  <instantiationID>{1,unbounded}</instantiationID>
  <instantiationDateCreated>{0,1}</instantiationDateCreated>
  <dateIssued>{0,1}</dateIssued>
  <formatPhysical annotation="" source="" version="">{0,1}</formatPhysical>
  <formatDigital annotation="" source="" version="">{0,1}</formatDigital>
  <formatLocation>{1,1}</formatLocation>
  <formatMediaType annotation="" source="" version="">{0,1}</formatMediaType>
  <formatGenerations annotation="" source="" version="">{0,unbounded}</formatGenerations>
  <formatFileSize>{0,1}</formatFileSize>
  <formatTimeStart>{0,1}</formatTimeStart>
  <formatDuration>{0,1}</formatDuration>
  <formatDataRate annotation="" unitsOfMeasure="">{0,1}</formatDataRate>
  <formatColors annotation="" source="" version="">{0,1}</formatColors>
  <formatTracks>{0,1}</formatTracks>
  <formatChannelConfiguration>{0,1}</formatChannelConfiguration>
  <language annotation="" source="" version="">{0,1}</language>
  <alternativeModes>{0,1}</alternativeModes>
  <instantiationEssenceTrack>{1,unbounded}</instantiationEssenceTrack>
  <instantiationDateAvailable>{0,unbounded}</instantiationDateAvailable>
  <instantiationRights>{0,unbounded}</instantiationRights>
  <instantiationAnnotation annotationType="">{0,unbounded}</instantiationAnnotation>
  <instantiationPart annotation="" relationID="" relationType="">{0,unbounded}</
instantiationPart>
</instantiationPart>
```

Attributes

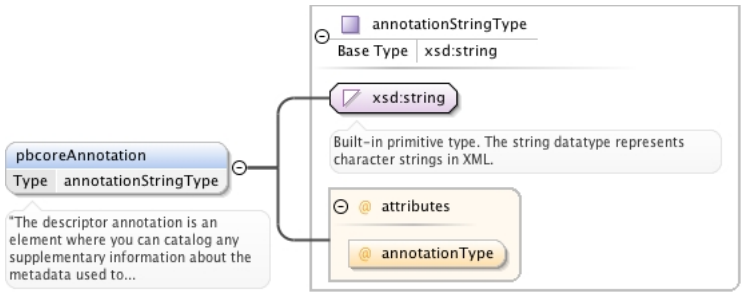
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
relationID	xsd:string			optional
	This part is then referenced to another part."			
relationType	xsd:string			optional
	"This attribute relate this part to another. It could be a episode in a series or a program segment recorded on many tapes."			

Source

```
<xsd:element name="instantiationPart" type="instantiationPartType" maxOccurs="unbounded"
 minOccurs="0">
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreAnnotation

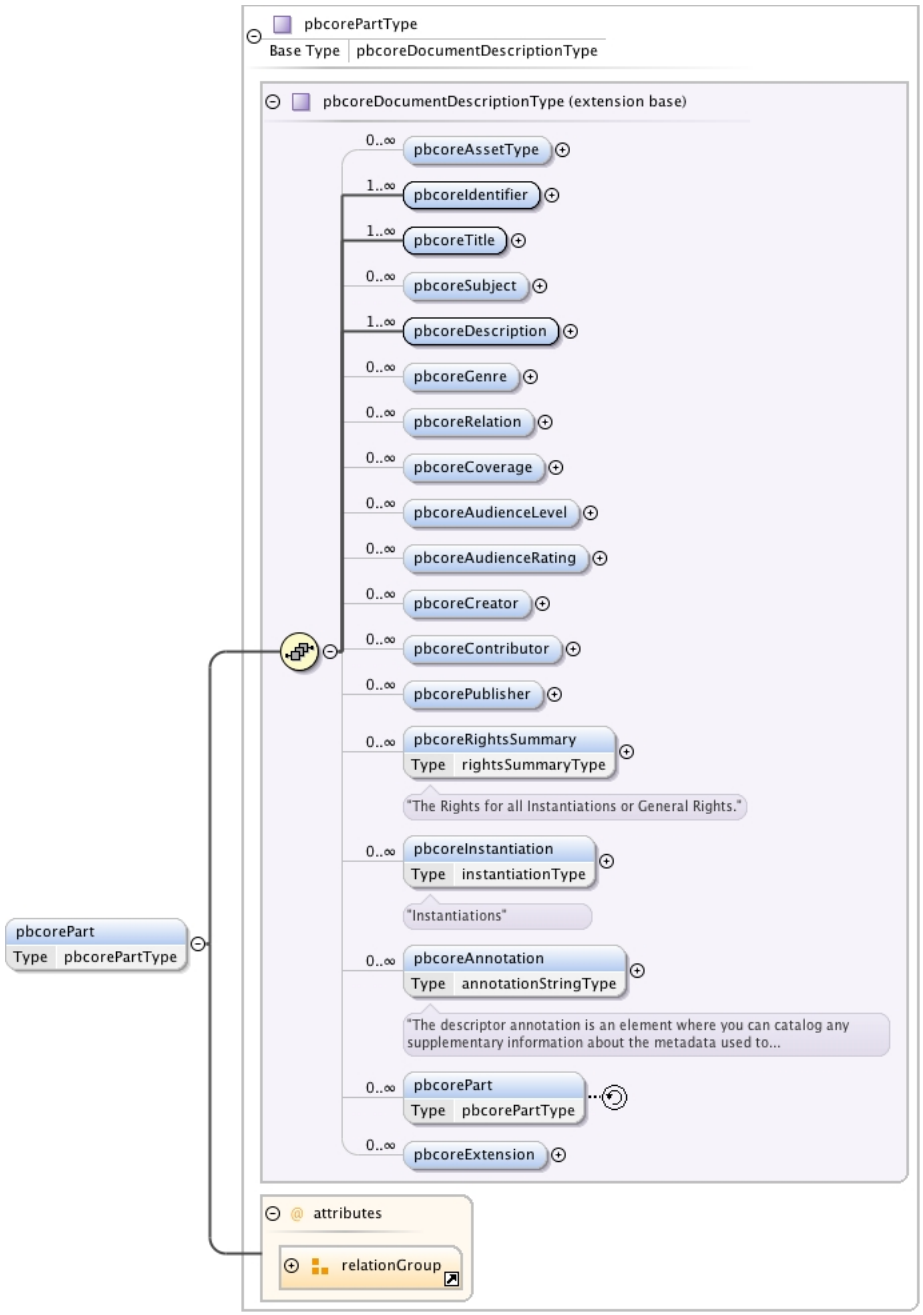
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor annotation is an element where you can catalog any supplementary information about the metadata used to describe the PBCore record. annotation clarifies element values, terms, descriptors, and vocabularies that may not be otherwise sufficiently understood."

Diagram	
Type	annotationStringType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **annotationType** / / / / optional

Source	<pre><xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAnnotation" type="annotationStringType">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"The descriptor annotation is an element where you can catalog any supplementary information about the metadata used to describe the
	PBCore record. annotation clarifies element values, terms, descriptors, and
	vocabularies that may not be otherwise sufficiently understood."</xsd:documentation>
	  </xsd:annotation>
	</xsd:element></pre>

Element pbcoreDocumentDescriptionType / pbcorePart

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	

Diagram	
Type	pbcorePartType
Type hierarchy	• pbcoreDocumentDescriptionType • pbcorePartType
Properties	content: `complex` minOccurs: `0` maxOccurs: `unbounded`
Model	pbcoreAssetType* , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcoreAnnotation* , pbcorePart* , pbcoreExtension*
Children	pbcoreAnnotation, pbcoreAssetType, pbcoreAudienceLevel, pbcoreAudienceRating, pbcoreContributor, pbcoreCoverage, pbcoreCreator, pbcoreDescription, pbcoreExtension, pbcoreGenre, pbcoreIdentifier, pbcoreInstantiation, pbcorePart, pbcorePublisher, pbcoreRelation, pbcoreRightsSummary, pbcoreSubject, pbcoreTitle

`Instance`	`<pbcorePart annotation="" relationID="" relationType="">`
	`  <pbcoreAssetType>{0,unbounded}</pbcoreAssetType>`
	`  <pbcoreIdentifier>{1,unbounded}</pbcoreIdentifier>`

```
  <pbcoreTitle>{1,unbounded}</pbcoreTitle>
  <pbcoreSubject>{0,unbounded}</pbcoreSubject>
  <pbcoreDescription>{1,unbounded}</pbcoreDescription>
  <pbcoreGenre>{0,unbounded}</pbcoreGenre>
  <pbcoreRelation>{0,unbounded}</pbcoreRelation>
  <pbcoreCoverage>{0,unbounded}</pbcoreCoverage>
  <pbcoreAudienceLevel>{0,unbounded}</pbcoreAudienceLevel>
  <pbcoreAudienceRating>{0,unbounded}</pbcoreAudienceRating>
  <pbcoreCreator>{0,unbounded}</pbcoreCreator>
  <pbcoreContributor>{0,unbounded}</pbcoreContributor>
  <pbcorePublisher>{0,unbounded}</pbcorePublisher>
  <pbcoreRightsSummary>{0,unbounded}</pbcoreRightsSummary>
  <pbcoreInstantiation>{0,unbounded}</pbcoreInstantiation>
  <pbcoreAnnotation annotationType="">{0,unbounded}</pbcoreAnnotation>
  <pbcorePart annotation="" relationID="" relationType="">{0,unbounded}</pbcorePart>
  <pbcoreExtension>{0,unbounded}</pbcoreExtension>
</pbcorePart>
```

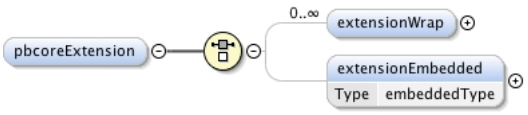
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
relationID	xsd:string			optional
	This part is then referenced to another part."			
relationType	xsd:string			optional
	"This attribute relate this part to another. It could be a episode in a series or a program segment recorded on many tapes."			

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcorePart" type="pbcorePartType">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreExtension

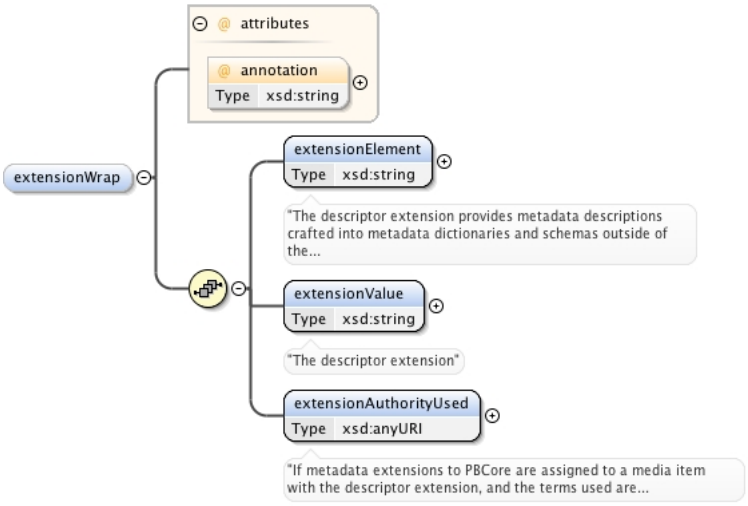
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	extensionWrap* | extensionEmbedded{0,1}
Children	extensionEmbedded, extensionWrap
Instance	<pbcoreExtension> <extensionWrap annotation="">{0,unbounded}</extensionWrap> <extensionEmbedded annotation="">{0,1}</extensionEmbedded> </pbcoreExtension>

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreExtension">
  <xsd:annotation>
    <xsd:documentation/>
  </xsd:annotation>
  <xsd:complexType>
    <xsd:choice>
      <xsd:element maxOccurs="unbounded" minOccurs="0" name="extensionWrap">
        <xsd:complexType>
          <xsd:sequence>
            <xsd:element maxOccurs="1" minOccurs="1" name="extensionElement"
 type="xsd:string">
              <xsd:annotation>
                <xsd:documentation xml:lang="en">"The descriptor extension provides
                                  metadata descriptions crafted into metadata
 dictionaries and
                                  schemas outside of the PBCore Metadata Dictionary
 Project. These
                                  extensions fulfill the metadata requirements for
 communities
                                  identifying and describing their own types of media
 with
                                  specialized, custom terminologies."</
xsd:documentation>
```

```
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="1" name="extensionValue"
type="xsd:string">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor
                                extension"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="1" name="extensionAuthorityUsed"
type="xsd:anyURI">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"If metadata extensions to PBCore
                                are assigned to a media item with the descriptor
extension, and
                                the terms used are derived from a specific authority
or metadata
                                scheme, use extensionAuthorityUsed to identify whose
metadata
                                extensions are being used."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
        <xsd:attribute name="annotation" type="xsd:string"/>
      </xsd:complexType>
    </xsd:element>
    <xsd:element maxOccurs="1" minOccurs="0" name="extensionEmbedded"
type="embeddedType">
    </xsd:element>
  </xsd:choice>
 </xsd:complexType>
</xsd:element>
```

Element pbcoreDocumentDescriptionType / pbcoreExtension / extensionWrap

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	extensionElement , extensionValue , extensionAuthorityUsed
Children	extensionAuthorityUsed, extensionElement, extensionValue

Instance	`<extensionWrap annotation="">`
	`  <extensionElement>{1,1}</extensionElement>`
	`  <extensionValue>{1,1}</extensionValue>`
	`  <extensionAuthorityUsed>{1,1}</extensionAuthorityUsed>`
	`</extensionWrap>`

Attributes

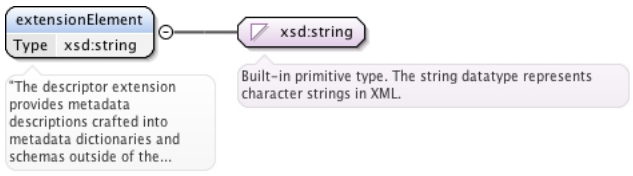
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional

Source

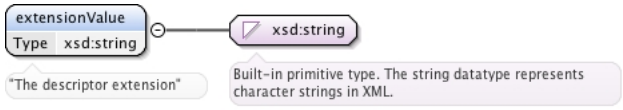
```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="extensionWrap">
  <xsd:complexType>
    <xsd:sequence>
```

```
      <xsd:element maxOccurs="1" minOccurs="1" name="extensionElement" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor extension provides
                                    metadata descriptions crafted into metadata
 dictionaries and
                                    schemas outside of the PBCore Metadata Dictionary
 Project. These
                                    extensions fulfill the metadata requirements for
 communities
                                    identifying and describing their own types of media
 with
                                    specialized, custom terminologies."</
xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="1" name="extensionValue" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor
                                    extension"</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
      <xsd:element maxOccurs="1" minOccurs="1" name="extensionAuthorityUsed"
 type="xsd:anyURI">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"If metadata extensions to PBCore
                                    are assigned to a media item with the descriptor
 extension, and
                                    the terms used are derived from a specific authority
 or metadata
                                    scheme, use extensionAuthorityUsed to identify whose
 metadata
                                    extensions are being used."</xsd:documentation>
        </xsd:annotation>
      </xsd:element>
    </xsd:sequence>
    <xsd:attribute name="annotation" type="xsd:string"/>
  </xsd:complexType>
</xsd:element>
```

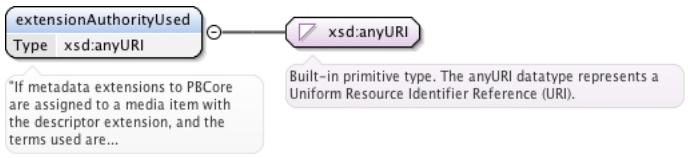
Element pbcoreDocumentDescriptionType / pbcoreExtension / extensionWrap / extensionElement

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor extension provides metadata descriptions crafted into metadata dictionaries and schemas outside of the PBCore Metadata Dictionary Project. These extensions fulfill the metadata requirements for communities identifying and describing their own types of media with specialized, custom terminologies."
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="1" name="extensionElement" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor extension provides metadata descriptions crafted into metadata dictionaries and schemas outside of the PBCore Metadata Dictionary Project. These extensions fulfill the metadata requirements for communities identifying and describing their own types of media with specialized, custom terminologies."</ xsd:documentation> </xsd:annotation> </xsd:element>

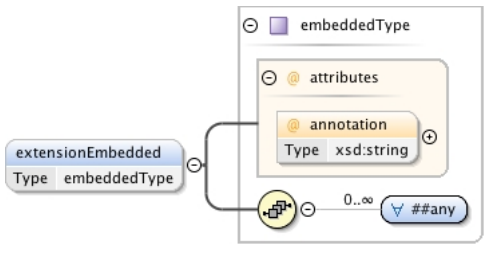
Element pbcoreDocumentDescriptionType / pbcoreExtension / extensionWrap / extensionValue

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor extension"
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="1" name="extensionValue" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor extension"</xsd:documentation> </xsd:annotation> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreExtension / extensionWrap / extensionAuthorityUsed

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"If metadata extensions to PBCore are assigned to a media item with the descriptor extension, and the terms used are derived from a specific authority or metadata scheme, use extensionAuthorityUsed to identify whose metadata extensions are being used."
Diagram	
Type	xsd:anyURI
Properties	content: simple minOccurs: 1 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="1" name="extensionAuthorityUsed" type="xsd:anyURI"> <xsd:annotation> <xsd:documentation xml:lang="en">"If metadata extensions to PBCore are assigned to a media item with the descriptor extension, and the terms used are derived from a specific authority or metadata scheme, use extensionAuthorityUsed to identify whose metadata extensions are being used."</xsd:documentation> </xsd:annotation> </xsd:element>

Element pbcoreDocumentDescriptionType / pbcoreExtension / extensionEmbedded

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	

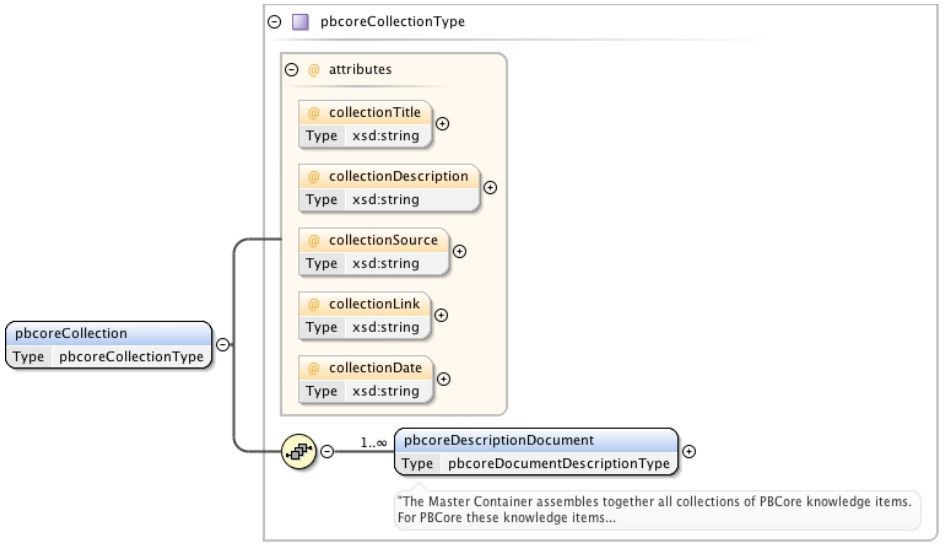
Type	embeddedType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Model	ANY element from ANY namespace

Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional

Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="extensionEmbedded" type="embeddedType">
</xsd:element>
```

Element pbcoreCollection

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	pbcoreCollectionType
Properties	content: complex
Model	pbcoreDescriptionDocument+
Children	pbcoreDescriptionDocument

Instance

```
<pbcoreCollection collectionDate="" collectionDescription="" collectionLink="" collectionSource="" colle
  <pbcoreDescriptionDocument>{1,unbounded}</pbcoreDescriptionDocument>
</pbcoreCollection>
```

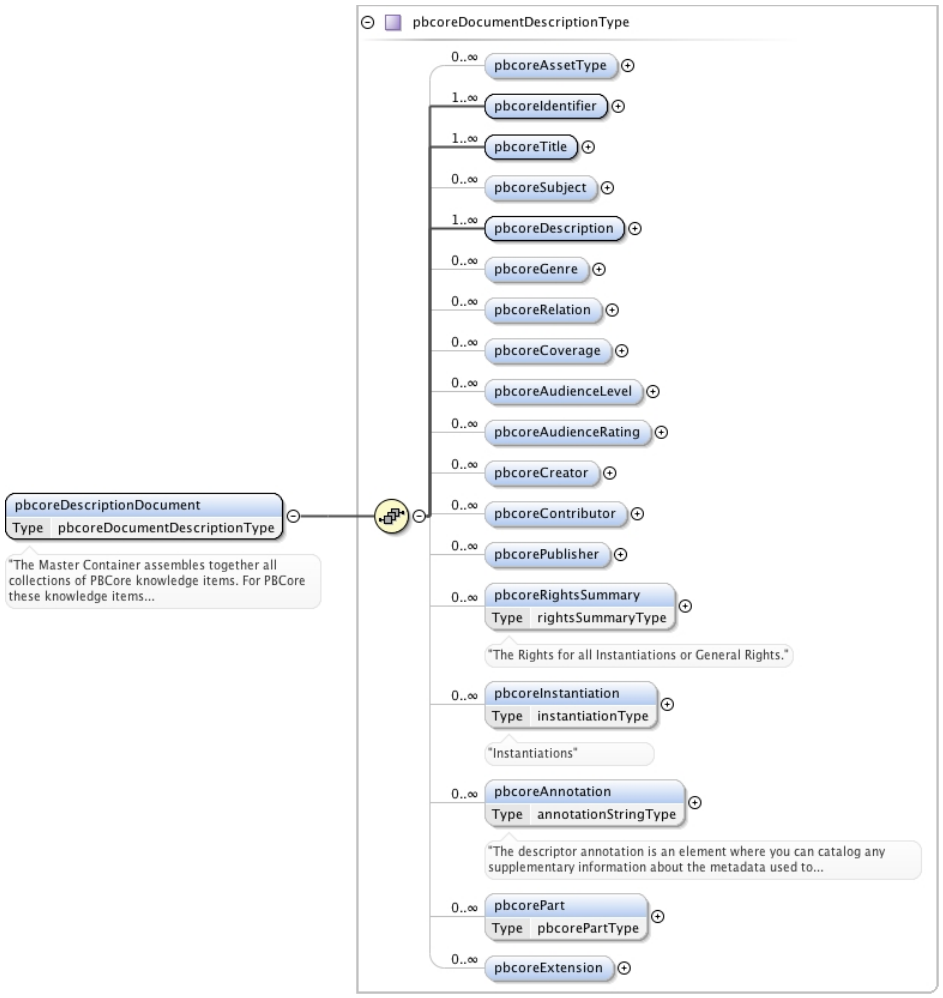
Attributes	QName	Type	Fixed	Default	Use
	collectionDate	xsd:string			optional
	collectionDescription	xsd:string			optional
	collectionLink	xsd:string			optional
	collectionSource	xsd:string			optional
	collectionTitle	xsd:string			optional

Source

```
<xsd:element name="pbcoreCollection" type="pbcoreCollectionType"/>
```

Element pbcoreCollectionType / pbcoreDescriptionDocument

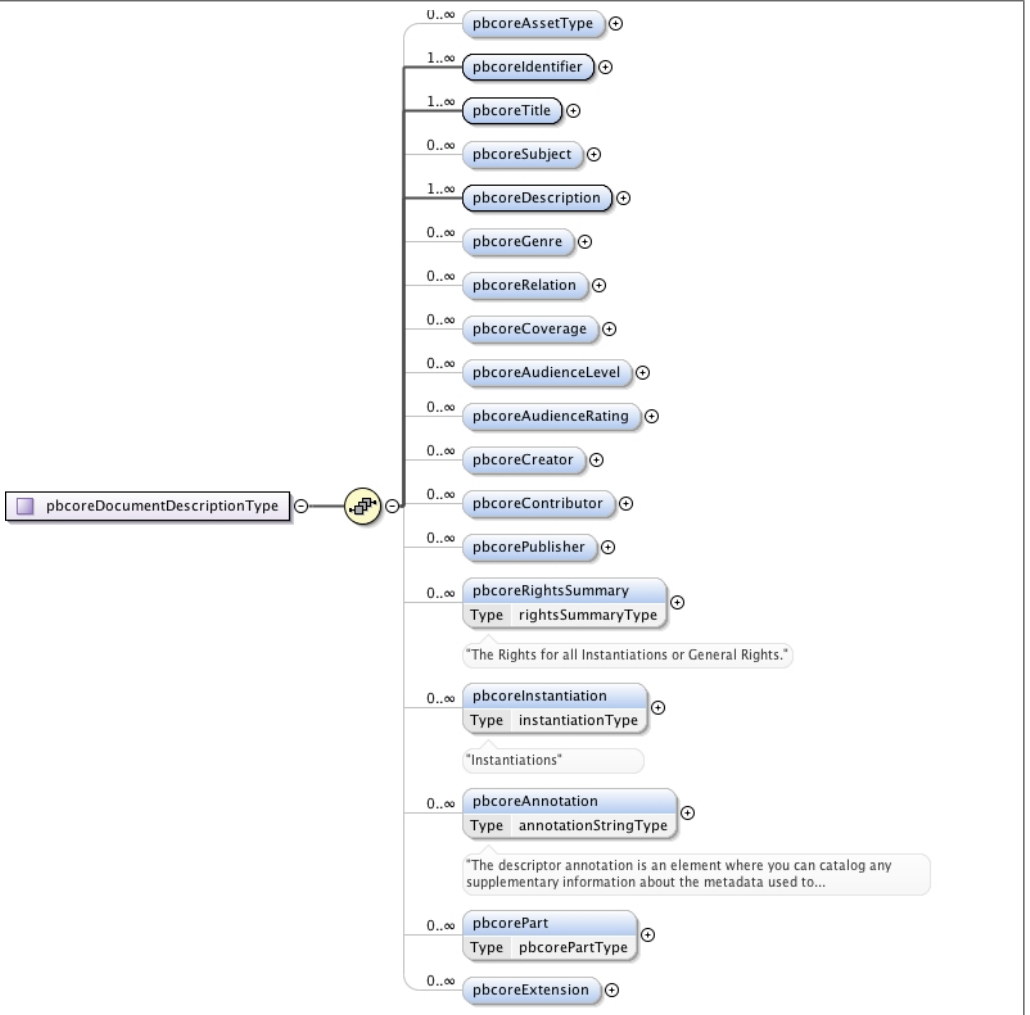
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The Master Container assembles together all collections of PBCore knowledge items. For PBCore these knowledge items are metadata descriptions of media. The MasterContainer is expressed as a document that hierarchically structures all the knowledge items and metadata terms and values related to a single data record associated with a media item. In our XML Schema Definition, the MasterContainer is referred to as the 'PBCoreDescriptionDocument.'"

Diagram	
Type	pbcoreDocumentDescriptionType
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	pbcoreAssetType* , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcoreAnnotation* , pbcorePart* , pbcoreExtension*
Children	pbcoreAnnotation, pbcoreAssetType, pbcoreAudienceLevel, pbcoreAudienceRating, pbcoreContributor, pbcoreCoverage, pbcoreCreator, pbcoreDescription, pbcoreExtension, pbcoreGenre, pbcoreIdentifier, pbcoreInstantiation, pbcorePart, pbcorePublisher, pbcoreRelation, pbcoreRightsSummary, pbcoreSubject, pbcoreTitle
Instance	<pbcoreDescriptionDocument> <pbcoreAssetType>{0,unbounded}</pbcoreAssetType> <pbcoreIdentifier>{1,unbounded}</pbcoreIdentifier> <pbcoreTitle>{1,unbounded}</pbcoreTitle> <pbcoreSubject>{0,unbounded}</pbcoreSubject> <pbcoreDescription>{1,unbounded}</pbcoreDescription> <pbcoreGenre>{0,unbounded}</pbcoreGenre> <pbcoreRelation>{0,unbounded}</pbcoreRelation> <pbcoreCoverage>{0,unbounded}</pbcoreCoverage> <pbcoreAudienceLevel>{0,unbounded}</pbcoreAudienceLevel> <pbcoreAudienceRating>{0,unbounded}</pbcoreAudienceRating> <pbcoreCreator>{0,unbounded}</pbcoreCreator> <pbcoreContributor>{0,unbounded}</pbcoreContributor> <pbcorePublisher>{0,unbounded}</pbcorePublisher> <pbcoreRightsSummary>{0,unbounded}</pbcoreRightsSummary> <pbcoreInstantiation>{0,unbounded}</pbcoreInstantiation> <pbcoreAnnotation annotationType="">{0,unbounded}</pbcoreAnnotation> <pbcorePart annotation="" relationID="" relationType="">{0,unbounded}</pbcorePart> <pbcoreExtension>{0,unbounded}</pbcoreExtension> </pbcoreDescriptionDocument>

Source	<xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreDescriptionDocument" type="pbcoreDocumentDescriptionType"> <xsd:annotation> <xsd:documentation xml:lang="en">"The Master Container assembles together all collections of PBCore knowledge items. For PBCore these knowledge items are metadata descriptions of media. The MasterContainer is expressed as a document that hierarchically structures all the knowledge items and metadata terms and values related to a single data record associated with a media item. In our XML Schema Definition, the MasterContainer is referred to as the 'PBCoreDescriptionDocument.'"</xsd:documentation> </xsd:annotation> </xsd:element>

Complex Types

Complex Type pbcoreDocumentDescriptionType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Elements: pbcoreCollectionType/pbcoreDescriptionDocument, pbcoreDocumentDescription Complex Type: pbcorePartType
Model	pbcoreAssetType* , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcoreAnnotation* , pbcorePart* , pbcoreExtension*
Children	pbcoreAnnotation, pbcoreAssetType, pbcoreAudienceLevel, pbcoreAudienceRating, pbcoreContributor, pbcoreCoverage, pbcoreCreator, pbcoreDescription, pbcoreExtension, pbcoreGenre, pbcoreIdentifier, pbcoreInstantiation, pbcorePart, pbcorePublisher, pbcoreRelation, pbcoreRightsSummary, pbcoreSubject, pbcoreTitle

Source

```
<xsd:complexType name="pbcoreDocumentDescriptionType">
  <xsd:sequence>
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAssetType">
      <xsd:complexType>
        <xsd:sequence>
          <!-- the pbcore asset type - this element may occur only once -->
          <xsd:element maxOccurs="1" minOccurs="1" name="assetType"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor assetKind indicates the
                        broad editorial format of the asset’s contents. AssetType
 describes the
                        PBCore record as a whole and at its highest level. Though a
 record may
                        contain many instantiations of different formats and
 generations, for
                        example, assetType may be used to indicate that they all
 represent a
                        “program” or a “clip.” In FRBR language, assetType would be
 used to
                        describe an asset at the “work” level. (Whereas
 “formatMediaType” would
                        describe the “item” level.) This element is largely based on
 the EBUCore
                        element ObjectType:
                        http://www.ebu.ch/metadata/cs/ebu_ObjectTypeCodeCS.xml"</
xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="unbounded" minOccurs="0" name="date"
 type="dateStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"This is the orginal date the asset was
                        created."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore identifier - this element may occur as many times as
                      desired, however if it does occur, then a indentifier tag must
 appear
                      internally (once).  optionally, a identifierSource tag may appear --
>
    <xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreIdentifier">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="1" name="identifier" type="xsd:string">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor identifier is used to
                        reference or identify the entire record of metadata
 descriptions for a
                        media item and exists at the top level for a PBCore description
 and its
                        associated description document (XML). Best practice is to
 identify the
                        media item (whether analog or digital) by means of an
 unambiguous 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."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="1" name="identifierSource"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor identifierSource is used in
                        combination with the unambiguous reference or identifier for a
 media item
                        found in the descriptor identifier. Thus PBCore provides not
 only a
                        locator number, but also an agency or institution who assigned
 it. Both
                        exist at the top level for a PBCore description and its
 associated
                        description document (XML)."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
```

```
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore title - this element may occur as many times as
                       desired, however if it does occur, then a title tag must appear
                       internally (once).  optionally, a titleType tag may appear -->
    <xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreTitle">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="1" name="title" type="xsd:string">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor title is a name given to
                            the media item you are cataloging. It is the unique name
 everyone should
                            use to refer to or search for a particular media item. There
 are
                            obviously many types of titles a media item may have, such as a
 series
                            title, episode title, segment title, or project title. Use the
 descriptor
                            titleType to indicate the type of title you are assigning to
 the media
                            item."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="0" name="titleType"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor titleType is a companion
                            metadata field associated with the descriptor title. For a
 title you give
                            to a media item, you may wish to inform end users what type of
 title it
                            is (see the picklist of recommended vocabulary
                            terms)."</xsd:documentation>
              <xsd:documentation xml:lang="en">"Picklist at
                            http://www.pbcore.org/PBCore/picklists/
picklist_titleType.html"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore subject - this element may occur as many times as
                       desired, however if it does occur, then a subject tag must
                       appear (once).  optionally, a subjectAuthorityUsed tag may
                       appear -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreSubject">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="subject"
 type="subjectStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor subject is used to assign
                            topical headings or keywords that portray the intellectual
 content of the
                            media item you are cataloging. Typically, a subject is
 expressed by a
                            limited number of keywords, key phrases, or even specific
 classification
                            codes. Controlled vocabularies, authorities, or formal
 classification
                            schemes may be employed when assigning descriptive subject
 terms (rather
                            than using random or ad hoc terminology)."</xsd:documentation>
              <xsd:documentation xml:lang="en">"Use reference at
                            http://www.pbcore.org/PBCore/subject.html"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="0" name="subjectAuthorityUsed"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"If subjects are assigned to a media item
                            using the descriptor subject and the terms used are derived
 from a
                            specific authority or classification scheme, use
 subjectAuthorityUsed to
                            identify whose vocabularies and terms were used."</
xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
```

```
    <!-- the pbcore description - this element may occur as many times
                      as desired, however if it does occur, then a description tag is
                      required.  optionally, the description type may appear - but
                      it has a limited vocabulary -->
    <xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreDescription">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="1" name="description"
 type="descriptionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The metadata element description uses
                      free-form text or a narrative to report general notes,
 abstracts, or
                      summaries about the intellectual content of a media item you
 are
                      cataloguing. 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, rundowns, edit decision lists, indexes, or
 tables of
                      content."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="0" name="descriptionType"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor descriptionType is a
                      companion metadata field to the element description. The
 purpose of
                      descriptionType is to identify the nature of the actual
 description and
                      flag the form of presentation for the information."</
xsd:documentation>
              <xsd:documentation xml:lang="en">"Picklist at
                      http://www.pbcore.org/PBCore/picklists/
picklist_descriptionType.html"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore genre - this element may occur as many times as
                      desired, however if it does occur, then the genre tag inside is
                      required.  that genre tag has a controlled vocabulary. -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreGenre">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="genre"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor genre describes the manner
                      in which the intellectual content of a media item is presented,
 viewed or
                      heard by a user. It indicates the structure of the
 presentation, as well
                      as the topical nature of the content in a generalized
                      form."</xsd:documentation>
              <xsd:documentation xml:lang="en">"Picklist at
                      http://www.pbcore.org/PBCore/picklists/picklist_genre.html"</
xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="0" name="genreAuthorityUsed"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"If genre keywords are assigned to a media
                      item using the descriptor genre and the terms used are derived
 from a
                      specific authority or classification scheme, use
 genreAuthorityUsed to
                      identify whose vocabularies and terms were used. PBcore
 supplies its own
                      picklist of terms, but others may be employed as long as the
 authority
                      for a picklist is identified."</xsd:documentation>
              <xsd:documentation xml:lang="en">When genreAuthorityUsed is not used, the
                      default is understoond to be PBCore Genre List.</
xsd:documentation>
            </xsd:annotation>
          </xsd:element>
```

```
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore relation - this element may occur as many times as
                       desired.  if it does occur, the relationIdentifier must appear,
                       also the relationType must also appear -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreRelation">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="relationType"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor relationType identifies the
                           type of intellectual content bond between a media item you are
 cataloging
                           and some other related media item."</xsd:documentation>
              <xsd:documentation xml:lang="en">"Picklist at
                           http://www.pbcore.org/PBCore/picklists/
picklist_relationType.html"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="0" name="relationIdentifier"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"Once the type of relationship between two
                           media items is identified by using the descriptor relationType,
 then this
                           companion descriptor relationIdentifier is used to provide a
 name,
                           locator, accession, identification number or ID where the
 related item
                           can be obtained or found. The cross reference uses a unique
                           identifier."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore coverage - this element may occur as many times as
                       desired, and within it a Spatial or a Temporal coverageType -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreCoverage">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="1" name="coverage" type="xsd:string">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor coverage uses keywords to
                           identify a span of space or time that is expressed by the
 intellectual
                           content of a media item. Coverage in intellectual content may
 be
                           expressed spatially by geographic location. Actual place names
 may be
                           used. Numeric coordinates and geo-spatial data are also
 allowable, if
                           useful or supplied. Coverage in intellectual content may also
 be
                           expressed temporally by a date, period, era, or time-based
 event. The
                           PBCore metadata element coverage houses the actual spatial or
 temporal
                           keywords. The companion descriptor coverageType is used to
 identify the
                           type of keywords that are being used."</xsd:documentation>
              <xsd:documentation xml:lang="en">"Use reference at
                           http://www.pbcore.org/PBCore/coverage.html"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="1" name="coverageType">
            <xsd:complexType>
              <xsd:annotation>
                <xsd:documentation xml:lang="en">"Whereas the PBCore metadata element
                             coverage uses keywords and descriptors to identify a span of
 space or
                             time that is expressed by the intellectual content of a
 media item,
                             coverageType is used to identify the actual type of keywords
 that are
                             being used. Coverage in intellectual content may be
 expressed
                             spatially by geographic location. Coverage in intellectual
 content may
                             also be expressed temporally by a date, period, era, or
 time-based
```

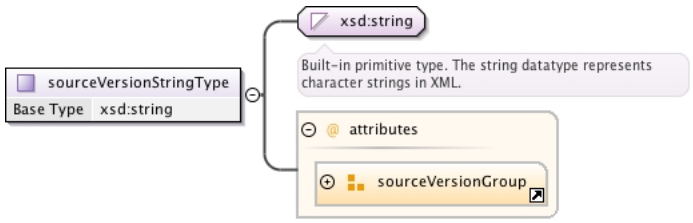
```
                              event. coverageType provides a picklist of coverage types,
 namely
                              *spatial* or *temporal*."</xsd:documentation>
              </xsd:annotation>
              <xsd:simpleContent>
                <!-- COME BACK TO THIS -->
                <xsd:restriction base="sourceVersionStringType">
                  <xsd:enumeration value="Spatial"/>
                  <xsd:enumeration value="Temporal"/>
                </xsd:restriction>
              </xsd:simpleContent>
            </xsd:complexType>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore audienceLevel - this may occur as many times as desired
                      within the document -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAudienceLevel">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="audienceLevel"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor audienceLevel identifies a
                              type of audience, viewer, or listener for whom the media item
 you are
                              cataloging is primarily designed or educationally
                              useful."</xsd:documentation>
              <xsd:documentation xml:lang="en">"Picklist at
                              http://www.pbcore.org/PBCore/picklists/
picklist_audienceLevel.html"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore audienceRating - this may occur as many times as desired
                      within the document -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAudienceRating">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="0" name="audienceRating"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor audienceRating designates
                              the type of users for whom a media item is intended or judged
 appropriate
                              in terms of its intellectual content. Standard ratings have
 been crafted
                              by the broadcast television and film industries and are used as
 flags for
                              audience or age-appropriate materials."</xsd:documentation>
              <xsd:documentation xml:lang="en">"Picklist at
                              http://www.pbcore.org/PBCore/picklists/
picklist_audienceRating.html"</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- the pbcore creator - again, may appear as many times as
                      necessary, and the creator tag is necessary inside.  the
                      creatorRole tag is optional. -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreCreator">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="1" name="creator"
 type="affiliatedStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor creator identifies a person
                              or organization primarily responsible for creating a media
 item. The
                              creator may be considered an author and could be one or more
 people, a
                              business, organization, group, project or service."</
xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="unbounded" minOccurs="1" name="creatorRole"
 type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"Use the descriptor creatorRole to identify
```

```
                        the role played by the person or group identified in the
 companion
                        descriptor creator. Unlike print resources, there is usually no
 single
                        role, like an author, who has primary responsibility for the
 creation of
                        media items such as audio, video, film assets, and their
 digital
                        renditions. For these media, creators can fill many different
 roles, such
                        as the instructor for a video course, the interviewee from a
 video
                        history program, or the director of a program or film (if they
 are
                        identified as the primary creator for a media item)."</
xsd:documentation>
            <xsd:documentation xml:lang="en">"Picklist at
                        http://www.pbcore.org/PBCore/picklists/
picklist_creatorRole.html"</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <!-- the pbcore contributor - this element may appear as many times
                  as necessary, but when it does appear, the contributor tag must
                  appear inside it.  the contributor role is optional. -->
  <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreContributor">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="1" name="contributor"
 type="affiliatedStringType">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">"The descriptor contributor identifies a
                        person or organization that has made substantial creative
 contributions
                        to the intellectual content within a media item. This
 contribution is
                        considered to be secondary to the primary author(s) (person or
                        organization) identified in the descriptor creator."</
xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element maxOccurs="unbounded" minOccurs="1" name="contributorRole"
 type="contributorStringType">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">"Use the descriptor contributorRole to
                        identify the role played by the person or group identified in
 the
                        companion descriptor contributor."</xsd:documentation>
            <xsd:documentation xml:lang="en">"Picklist at
                        http://www.pbcore.org/PBCore/picklists/
picklist_contributorRole.html"</xsd:documentation>
          </xsd:annotation>
        </xsd:element>
      </xsd:sequence>
    </xsd:complexType>
  </xsd:element>
  <!-- the pbcore publisher - this follows the same guidelines as the
                  contributor and the creator.  this may exist as many times as
                  we wish, but inside it there must be a publisher tag.  a
                  publisherRole tag is optional. -->
  <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcorePublisher">
    <xsd:complexType>
      <xsd:sequence>
        <xsd:element maxOccurs="1" minOccurs="1" name="publisher"
 type="affiliatedStringType">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">"The descriptor publisher identifies a
                        person or organization primarily responsible for distributing
 or making a
                        media item available to others. The publisher may be a person,
 a
                        business, organization, group, project or service."</
xsd:documentation>
          </xsd:annotation>
        </xsd:element>
        <xsd:element maxOccurs="unbounded" minOccurs="1" name="publisherRole"
 type="sourceVersionStringType">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">"Use the descriptor publisherRole to
                        identify the role played by the specific publisher or
 publishing entity
```

```
                        identified in the companion descriptor publisher."</
xsd:documentation>
             <xsd:documentation xml:lang="en">"Picklist at
                        http://www.pbcore.org/PBCore/picklists/
picklist_publisherRole.html"</xsd:documentation>
           </xsd:annotation>
         </xsd:element>
       </xsd:sequence>
     </xsd:complexType>
   </xsd:element>
   <!-- the pbcore rights - this may appear as many times as we want,
                   but everytime it does appear, the rightsSummary tag must appear
                   inside of it -->
   <xsd:element name="pbcoreRightsSummary" type="rightsSummaryType" maxOccurs="unbounded"
 minOccurs="0">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"The Rights for all Instantiations or General
                 Rights."</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- the pbcore instantiation - this contains all the details on how
                   the asset is actualized -->
   <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreInstantiation"
 type="instantiationType">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"Instantiations"</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- PBCore Annotation -->
   <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAnnotation"
 type="annotationStringType">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"The descriptor annotation is an element where
 you
                 can catalog any supplementary information about the metadata used to
 describe the
                 PBCore record. annotation clarifies element values, terms, descriptors,
 and
                 vocabularies that may not be otherwise sufficiently
                 understood."</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- PBCore Part -->
   <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcorePart"
 type="pbcorePartType">
     <xsd:annotation>
       <xsd:documentation/>
     </xsd:annotation>
   </xsd:element>
   <!-- PBCore Extension -->
   <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreExtension">
     <xsd:annotation>
       <xsd:documentation/>
     </xsd:annotation>
     <xsd:complexType>
       <xsd:choice>
         <xsd:element maxOccurs="unbounded" minOccurs="0" name="extensionWrap">
           <xsd:complexType>
             <xsd:sequence>
               <xsd:element maxOccurs="1" minOccurs="1" name="extensionElement"
 type="xsd:string">
                 <xsd:annotation>
                   <xsd:documentation xml:lang="en">"The descriptor extension provides
                                 metadata descriptions crafted into metadata
 dictionaries and
                                 schemas outside of the PBCore Metadata Dictionary
 Project. These
                                 extensions fulfill the metadata requirements for
 communities
                                 identifying and describing their own types of media
 with
                                 specialized, custom terminologies."</
xsd:documentation>
                 </xsd:annotation>
               </xsd:element>
               <xsd:element maxOccurs="1" minOccurs="1" name="extensionValue"
 type="xsd:string">
                 <xsd:annotation>
                   <xsd:documentation xml:lang="en">"The descriptor
                                 extension"</xsd:documentation>
                 </xsd:annotation>
               </xsd:element>
```

```
                <xsd:element maxOccurs="1" minOccurs="1" name="extensionAuthorityUsed"
type="xsd:anyURI">
                  <xsd:annotation>
                    <xsd:documentation xml:lang="en">"If metadata extensions to PBCore
                                  are assigned to a media item with the descriptor
extension, and
                                  the terms used are derived from a specific authority
or metadata
                                  scheme, use extensionAuthorityUsed to identify whose
metadata
                                  extensions are being used."</xsd:documentation>
                  </xsd:annotation>
                </xsd:element>
              </xsd:sequence>
              <xsd:attribute name="annotation" type="xsd:string"/>
            </xsd:complexType>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="0" name="extensionEmbedded"
type="embeddedType">
          </xsd:element>
        </xsd:choice>
      </xsd:complexType>
    </xsd:element>
    <!-- For Readability - documentDescription sequence end -->
  </xsd:sequence>
  <!-- For Readability - documentDescription complexType end -->
</xsd:complexType>
```

Complex Type `sourceVersionStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:string
Used by	Elements: essenceTrackType/essenceTrackAspectRatio, essenceTrackType/essenceTrackBitDepth, essenceTrackType/essenceTrackFrameRate, essenceTrackType/essenceTrackFrameSize, essenceTrackType/essenceTrackSamplingRate, essenceTrackType/essenceTrackStandard, instantiationType/formatColors, instantiationType/formatDigital, instantiationType/formatGenerations, instantiationType/formatMediaType, instantiationType/formatPhysical, instantiationType/instantiationID/instantiationIdentifierSource, pbcoreDocumentDescriptionType/pbcoreAssetType/assetType, pbcoreDocumentDescriptionType/pbcoreAudienceLevel/audienceLevel, pbcoreDocumentDescriptionType/pbcoreAudienceRating/audienceRating, pbcoreDocumentDescriptionType/pbcoreCoverage/coverageType, pbcoreDocumentDescriptionType/pbcoreCreator/creatorRole, pbcoreDocumentDescriptionType/pbcoreDescription/descriptionType, pbcoreDocumentDescriptionType/pbcoreGenre/genre, pbcoreDocumentDescriptionType/pbcoreGenre/genreAuthorityUsed, pbcoreDocumentDescriptionType/pbcoreIdentifier/identifierSource, pbcoreDocumentDescriptionType/pbcorePublisher/publisherRole, pbcoreDocumentDescriptionType/pbcoreRelation/relationIdentifier, pbcoreDocumentDescriptionType/pbcoreRelation/relationType, pbcoreDocumentDescriptionType/pbcoreSubject/subjectAuthorityUsed, pbcoreDocumentDescriptionType/pbcoreTitle/titleType, rightsSummaryType/rightsSummary

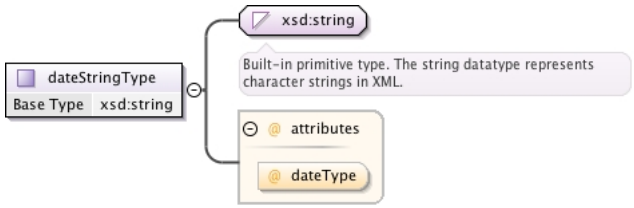
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:complexType name="sourceVersionStringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attributeGroup ref="sourceVersionGroup"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `dateStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:string
Used by	Element pbcoreDocumentDescriptionType/pbcoreAssetType/date

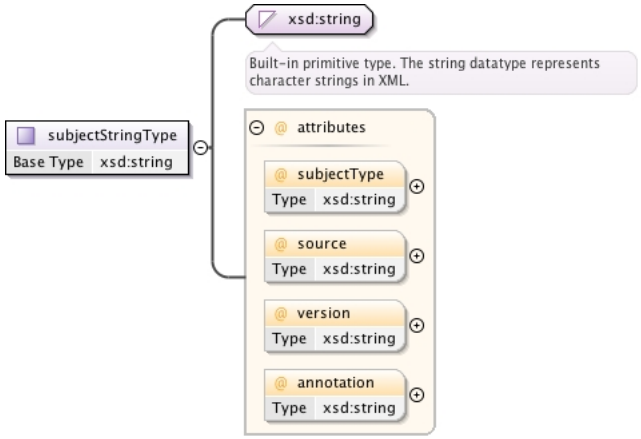
Attributes

QName	Type	Fixed	Default	Use
dateType				optional

Source

```
<xsd:complexType name="dateStringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="dateType"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `subjectStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:string
Used by	Element pbcoreDocumentDescriptionType/pbcoreSubject/subject

Attributes

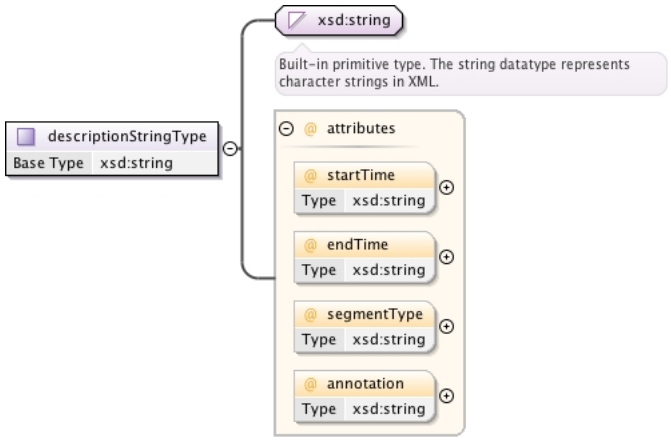
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
subjectType	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:complexType name="subjectStringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="subjectType" type="xsd:string"/>
      <xsd:attribute name="source" type="xsd:string"/>
      <xsd:attribute name="version" type="xsd:string"/>
      <xsd:attribute name="annotation" type="xsd:string"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `descriptionStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram	
Type	extension of xsd:string
Used by	Element pbcoreDocumentDescriptionType/pbcoreDescription/description

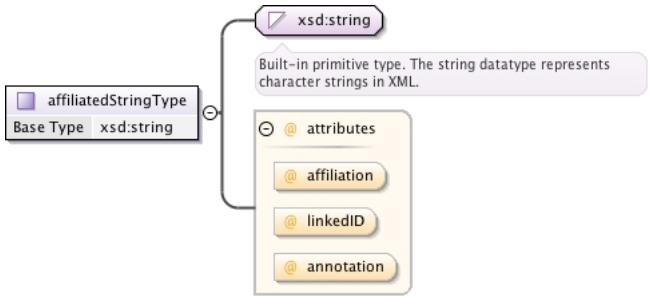
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
endTime	xsd:string			optional
segmentType	xsd:string			optional
startTime	xsd:string			optional

Source

```
<xsd:complexType name="descriptionStringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="startTime" type="xsd:string"/>
      <xsd:attribute name="endTime" type="xsd:string"/>
      <xsd:attribute name="segmentType" type="xsd:string"/>
      <xsd:attribute name="annotation" type="xsd:string"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `affiliatedStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:string
Used by	Elements pbcoreDocumentDescriptionType/pbcoreContributor/contributor, pbcoreDocumentDescriptionType/pbcoreCreator/creator, pbcoreDocumentDescriptionType/pbcorePublisher/publisher

Attributes

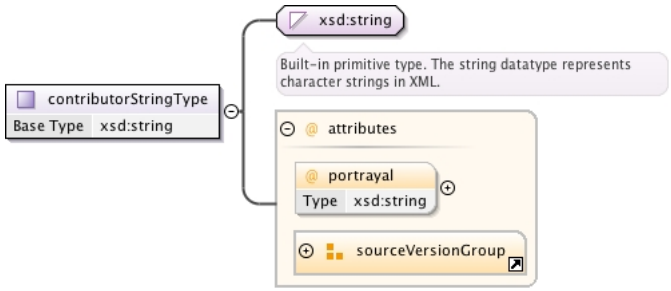
QName	Type	Fixed	Default	Use
affiliation				optional
annotation				optional
linkedID				optional

Source

```
<xsd:complexType name="affiliatedStringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="affiliation"/>
      <xsd:attribute name="linkedID"/>
      <xsd:attribute name="annotation"/>
    </xsd:extension>
```

```
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `contributorStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:string
Used by	Element pbcoreDocumentDescriptionType/pbcoreContributor/contributorRole

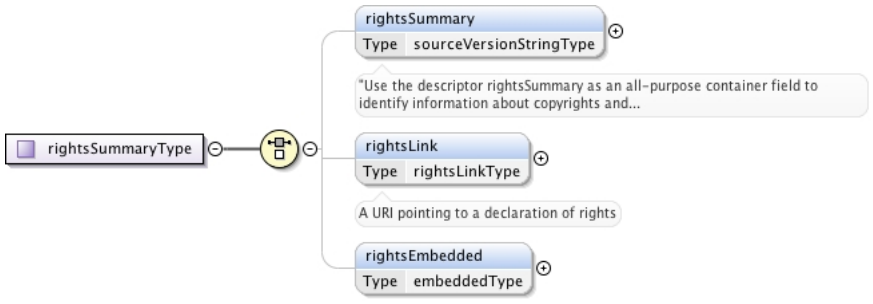
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
portrayal	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<xsd:complexType name="contributorStringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="portrayal" type="xsd:string"/>
      <xsd:attributeGroup ref="sourceVersionGroup"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `rightsSummaryType`

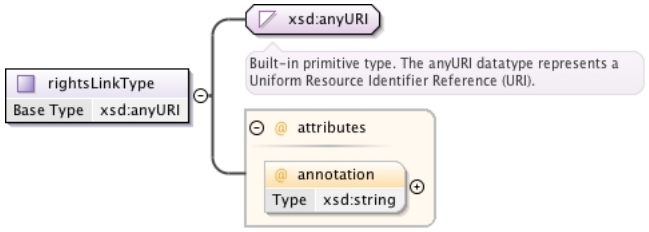
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Elements instantiationType/instantiationRights, pbcoreDocumentDescriptionType/pbcoreRightsSummary
Model	rightsSummary{0,1} | rightsLink{0,1} | rightsEmbedded{0,1}
Children	rightsEmbedded, rightsLink, rightsSummary

Source

```
<xsd:complexType name="rightsSummaryType">
  <xsd:choice>
    <xsd:element maxOccurs="1" minOccurs="0" name="rightsSummary"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"Use the descriptor rightsSummary as an all-
purpose
                container field to identify information about copyrights and property
 rights held
                in and over a media item, whether they are open access or restricted in
 some way.
                If dates, times and availability periods are associated with a right,
 include
```

```
                    them. End user permissions, constraints and obligations may also be
 identified, as
                    needed."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element maxOccurs="1" minOccurs="0" name="rightsLink" type="rightsLinkType">
      <xsd:annotation>
        <xsd:documentation>A URI pointing to a declaration of rights</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <xsd:element name="rightsEmbedded" type="embeddedType" maxOccurs="1" minOccurs="0"/>
  </xsd:choice>
</xsd:complexType>
```

Complex Type `rightsLinkType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:anyURI
Used by	Element rightsSummaryType/rightsLink

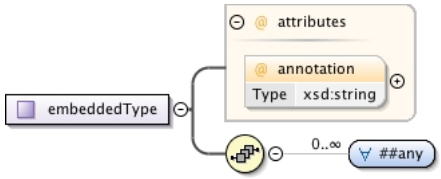
Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional

Source

```
<xsd:complexType name="rightsLinkType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:anyURI">
      <xsd:attribute name="annotation" type="xsd:string"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `embeddedType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Elements pbcoreDocumentDescriptionType/pbcoreExtension/extensionEmbedded, rightsSummaryType/rightsEmbedded
Model	ANY element from ANY namespace

Attributes

QName	Type	Fixed	Default	Use
annotation	xsd:string			optional

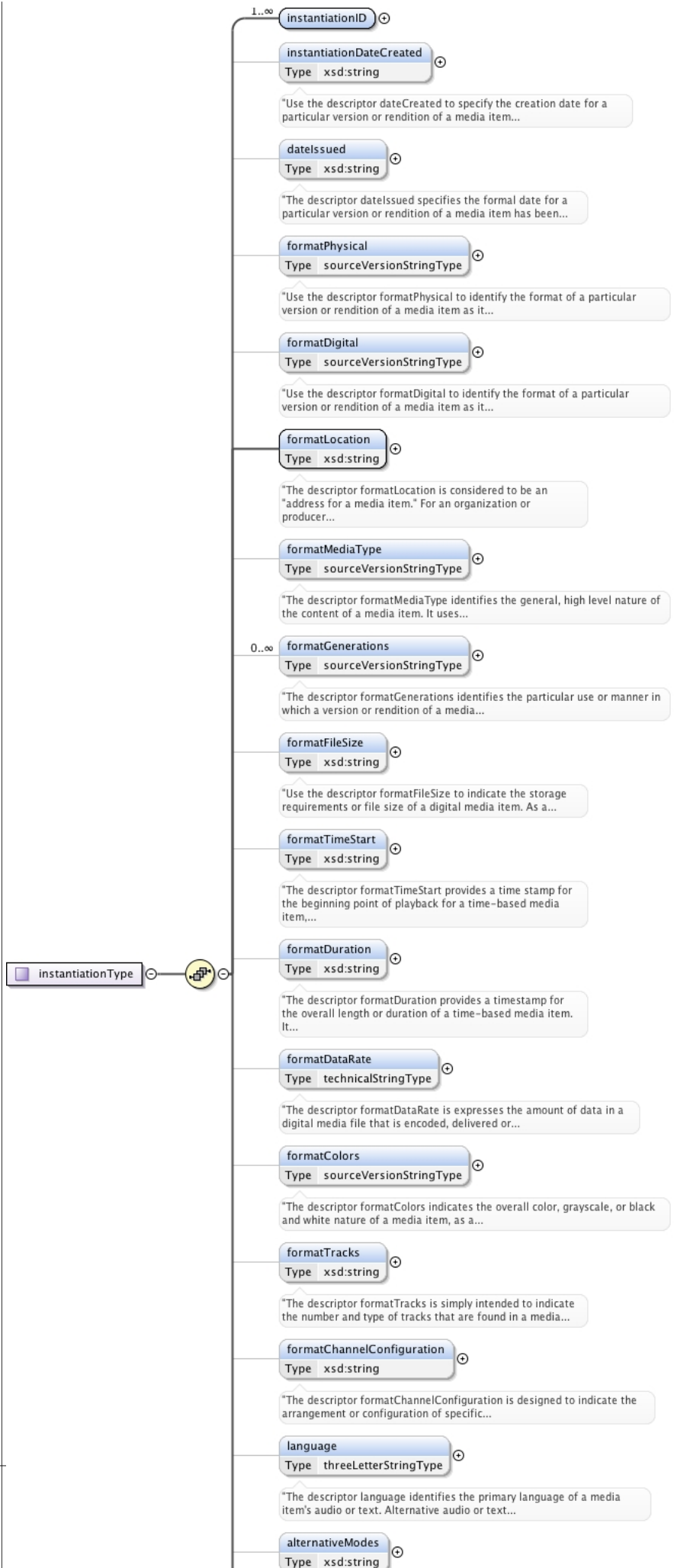
Source

```
<xsd:complexType name="embeddedType">
  <xsd:sequence>
    <xsd:any namespace="##any" processContents="lax" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
  <xsd:attribute name="annotation" type="xsd:string"/>
</xsd:complexType>
```

Complex Type `instantiationType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram


instantiationType
1..∞
instantiationID
instantiationDateCreated
Type xsd:string
"Use the descriptor dateCreated to specify the creation date for a particular version or rendition of a media item...
dateIssued
Type xsd:string
"The descriptor dateIssued specifies the formal date for a particular version or rendition of a media item has been...
formatPhysical
Type sourceVersionStringType
"Use the descriptor formatPhysical to identify the format of a particular version or rendition of a media item as it...
formatDigital
Type sourceVersionStringType
"Use the descriptor formatDigital to identify the format of a particular version or rendition of a media item as it...
formatLocation
Type xsd:string
"The descriptor formatLocation is considered to be an "address for a media item." For an organization or producer...
formatMediaType
Type sourceVersionStringType
"The descriptor formatMediaType identifies the general, high level nature of the content of a media item. It uses...
0..∞
formatGenerations
Type sourceVersionStringType
"The descriptor formatGenerations identifies the particular use or manner in which a version or rendition of a media...
formatFileSize
Type xsd:string
"Use the descriptor formatFileSize to indicate the storage requirements or file size of a digital media item. As a...
formatTimeStart
Type xsd:string
"The descriptor formatTimeStart provides a time stamp for the beginning point of playback for a time-based media item,...
formatDuration
Type xsd:string
"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It...
formatDataRate
Type technicalStringType
"The descriptor formatDataRate is expresses the amount of data in a digital media file that is encoded, delivered or...
formatColors
Type sourceVersionStringType
"The descriptor formatColors indicates the overall color, grayscale, or black and white nature of a media item, as a...
formatTracks
Type xsd:string
"The descriptor formatTracks is simply intended to indicate the number and type of tracks that are found in a media...
formatChannelConfiguration
Type xsd:string
"The descriptor formatChannelConfiguration is designed to indicate the arrangement or configuration of specific...
language
Type threeLetterStringType
"The descriptor language identifies the primary language of a media item's audio or text. Alternative audio or text...
alternativeModes
Type xsd:string

Used by	Element pbcoreDocumentDescriptionType/pbcoreInstantiation Complex Type instantiationPartType
Model	instantiationID+ , instantiationDateCreated{0,1} , dateIssued{0,1} , formatPhysical{0,1} , formatDigital{0,1} , formatLocation , formatMediaType{0,1} , formatGenerations* , formatFileSize{0,1} , formatTimeStart{0,1} , formatDuration{0,1} , formatDataRate{0,1} , formatColors{0,1} , formatTracks{0,1} , formatChannelConfiguration{0,1} , language{0,1} , alternativeModes{0,1} , instantiationEssenceTrack+ , instantiationDateAvailable* , instantiationRights* , instantiationAnnotation* , instantiationPart*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationAnnotation, instantiationDateAvailable, instantiationDateCreated, instantiationEssenceTrack, instantiationID, instantiationPart, instantiationRights, language
Source
```
<xsd:complexType name="instantiationType">
  <xsd:sequence>
    <!-- the pbcore format identifier -->
    <xsd:element maxOccurs="unbounded" minOccurs="1" name="instantiationID">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="1" name="instantiationIdentifier"
type="xsd:string">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor formatIdentifier employs an
                        unambiguous reference or identifier for a particular
                        rendition/instantiation of a media item. Best practice is to
identify the
                        media item (whether analog 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."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
          <xsd:element maxOccurs="1" minOccurs="1" name="instantiationIdentifierSource"
type="sourceVersionStringType">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor formatIdentifierSource is
                        used in combination with the unambiguous reference or
identifier for a
                        rendition/instantiation of a media item as found in the
descriptor
                        formatIdentifier. Thus PBCore provides not only a locator
number, but
                        also indicates an agency or institution who assigned
                        it."</xsd:documentation>
            </xsd:annotation>
          </xsd:element>
        </xsd:sequence>
      </xsd:complexType>
    </xsd:element>
    <!-- pbcore date created -->
    <xsd:element maxOccurs="1" minOccurs="0" name="instantiationDateCreated"
type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"Use the descriptor dateCreated to specify the
                  creation date for a particular version or rendition of a media item
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."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- pbcore date issued -->
    <xsd:element maxOccurs="1" minOccurs="0" name="dateIssued" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor dateIssued specifies the formal
date
                  for a particular version or rendition of a media item has been made
ready or
                  officially released for distribution, publication or consumption. A
specific time
                  may also be associated with the date."</xsd:documentation>
      </xsd:annotation>
```
 |

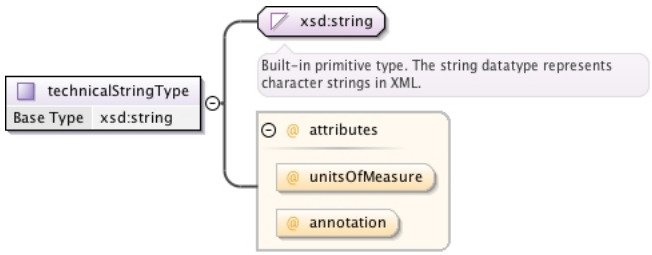
```
    </xsd:element>
    <!-- the pbcore formatPhysical -->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatPhysical"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"Use the descriptor formatPhysical to identify
 the
                  format of a particular version or rendition of a media item as it exists
 in an
                  actual physical form that occupies physical space (e.g., a tape on a
 shelf),
                  rather than as a digital file residing on a server or hard
                  drive."</xsd:documentation>
        <xsd:documentation xml:lang="en">"Picklist at
                  http://www.pbcore.org/PBCore/picklists/picklist_formatPhysical.html"</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore formatDigital-->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatDigital"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"Use the descriptor formatDigital to identify the
                  format of a particular version or rendition of a media item as it exists
 in its
                  digital form, i.e., as a digital file on a server or hard drive. Digital
 media
                  formats may be expressed with formal Internet MIME types."</
xsd:documentation>
        <xsd:documentation xml:lang="en">"MIME types change often see references at
                  http://www.pbcore.org/PBCore/formatDigital.html"</xsd:documentation>
        <xsd:documentation xml:lang="en">"Picklist may not be up to date at
                  http://www.pbcore.org/PBCore/picklists/picklist_formatDigital.html"</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore formatLocation-->
    <xsd:element maxOccurs="1" minOccurs="1" name="formatLocation" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatLocation is considered to
 be
                  an "address for a media item." For an organization or producer acting as
 caretaker
                  of a media resource, formatLocation may contain information about a
 specific shelf
                  location for an asset, including an organization's name, departmental
 name, shelf
                  ID and contact information. The formatLocation for a data file or web
 page may
                  include domain, path, filename or html page."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore formatmediatype -->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatMediaType"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatMediaType identifies the
                  general, high level nature of the content of a media item. It uses
 categories that
                  show how content is presented to an observer, e.g., as a sound or text
 or moving
                  image."</xsd:documentation>
        <xsd:documentation xml:lang="en">"Picklist at
                  http://www.pbcore.org/PBCore/picklists/picklist_formatMediaType.html"</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore formatgenerations -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="formatGenerations"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatGenerations identifies the
                  particular use or manner in which a version or rendition of a media item
 is used,
                  e.g., Audio/Narration or Moving image/Backup master."</
xsd:documentation>
        <xsd:documentation xml:lang="en">"Picklist at
                  http://www.pbcore.org/PBCore/picklists/
picklist_formatGenerations.html"</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!--  the pbcore formatfilesize -->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatFileSize" type="xsd:string">
```

```
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"Use the descriptor formatFileSize to indicate
 the
                  storage requirements or file size of a digital media item. As a
 standard, express
                  the file size in bytes."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!--  the pbcore formattimestart-->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatTimeStart" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatTimeStart provides a time
                  stamp for the beginning point of playback for a time-based media item,
 such as
                  digital video or audio. Use in combination with formatDuration to
 identify a
                  sequence or segment of a media item that has a fixed start time and end
                  time."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!--  the pbcore formatduration-->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatDuration" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatDuration provides a
 timestamp
                  for the overall length or duration of a time-based media item. It
 represents the
                  playback time."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!--  the pbcore formatdatarate-->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatDataRate"
 type="technicalStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatDataRate is expresses the
                  amount of data in a digital media file that is encoded, delivered or
 distributed,
                  for every second of time. Although optimal data rates are often
 dependent on the
                  codec used to compress and encode a digital file, generally speaking, a
 larger
                  data rate translates into a better quality playback experience, for
 example 56
                  kilobits/second vs. 1 megabit/second."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore formatcolors -->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatColors"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatColors indicates the
 overall
                  color, grayscale, or black and white nature of a media item, as a single
                  occurrence or combination of occurrences in or throughout the media
                  item."</xsd:documentation>
        <xsd:documentation xml:lang="en">"Picklist at
                  http://www.pbcore.org/PBCore/picklists/picklist_formatColors.html"</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!--  the pbcore formattracks-->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatTracks" type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatTracks is simply intended
 to
                  indicate the number and type of tracks that are found in a media item,
 whether it
                  is analog or digital. For example, 1 video track, 2 audio tracks, 1 text
 track, 1
                  sprite track, etc. Other configuration information specific to these
 identified
                  tracks should be described using formatChannelConfiguration."</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!--  the pbcore formatchannelconfiguration-->
    <xsd:element maxOccurs="1" minOccurs="0" name="formatChannelConfiguration"
 type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatChannelConfiguration is
                  designed to indicate the arrangement or configuration of specific
 channels or
```

```
                layers of information within a media item's tracks. Examples are 2-track
mono, 8
                track stereo, or video track with alpha channel."</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- the pbcore language -->
   <xsd:element name="language" type="threeLetterStringType" maxOccurs="1" minOccurs="0">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"The descriptor language identifies the primary
                language of a media item's audio or text. Alternative audio or text
tracks and
                their associated languages should be identified using the descriptor
                alternativeModes."</xsd:documentation>
       <xsd:documentation xml:lang="en">"Use reference at
                http://www.pbcore.org/PBCore/language.html"</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- the pbcore alternative modes -->
   <xsd:element maxOccurs="1" minOccurs="0" name="alternativeModes" type="xsd:string">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"The descriptor alternativeModes is a catch-all
                metadata element that identifies equivalent alternatives to the primary
visual,
                sound or textual information that exists in a media item. These are
modes that
                offer alternative ways to see, hear, and read the content of a media
item.
                Examples include DVI (Descriptive Video Information), SAP (Supplementary
Audio
                Program), ClosedCaptions, OpenCaptions, Subtitles, Language Dubs, and
Transcripts.
                For each instance of available alternativeModes, the mode and its
associated
                language should be identified together, if applicable. Examples include
'SAP in
                English,' 'SAP in Spanish,' 'Subtitle in French,' 'OpenCaption in
                Arabic.'"</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- the pbcore essence tracks -->
   <xsd:element maxOccurs="unbounded" minOccurs="1" name="instantiationEssenceTrack"
type="essenceTrackType">
   </xsd:element>
   <!-- the pbcore dateAvailable -->
   <xsd:element maxOccurs="unbounded" minOccurs="0" name="instantiationDateAvailable">
     <xsd:complexType>
       <xsd:sequence>
         <xsd:element maxOccurs="1" minOccurs="0" name="dateAvailableStart"
type="xsd:string">
           <xsd:annotation>
             <xsd:documentation xml:lang="en">"The descriptor dateAvailableStart
                        specifies a specific start date for the availability of a
version or
                        rendition of a media item. It may refer to start dates for the
                        availability of a program that is broadcast locally,
regionally,
                        nationally or internationally, or for web-based distribution. A
specific
                        time may also be associated with the date."</xsd:documentation>
           </xsd:annotation>
         </xsd:element>
         <xsd:element maxOccurs="1" minOccurs="0" name="dateAvailableEnd"
type="xsd:string">
           <xsd:annotation>
             <xsd:documentation xml:lang="en">"The descriptor dateAvailableEnd specifies
                        a specific end date for the availability of a version or
rendition of a
                        media item. It may refer to end dates for the availability of a
program
                        that is broadcast locally, regionally, nationally or
internationally, or
                        for web-based distribution. A specific time may also be
associated with
                        the date."</xsd:documentation>
           </xsd:annotation>
         </xsd:element>
       </xsd:sequence>
     </xsd:complexType>
   </xsd:element>
   <!-- Instantiation Rights -->
   <xsd:element name="instantiationRights" type="rightsSummaryType" maxOccurs="unbounded"
minOccurs="0">
     <xsd:annotation>
```

```
        <xsd:documentation xml:lang="en">"The Rights for this particular instantiation."</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- Instantiation Annotation -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="instantiationAnnotation"
 type="annotationStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor annotation is element where you
 can
                  catalog any supplementary information about an instantiation of the
 media item or
                  the metadata used to describe it. annotation clarifies element values,
 terms,
                  descriptors, and vocabularies that may not be otherwise sufficiently
                  understood."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- Instaniation Part -->
    <xsd:element name="instantiationPart" type="instantiationPartType"
 maxOccurs="unbounded" minOccurs="0">
    </xsd:element>
    <!-- For Readability - Instantiation sequence end -->
  </xsd:sequence>
  <!-- For Readability - Instantiation complexType end -->
</xsd:complexType>
```

Complex Type `technicalStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:string
Used by	Elements essenceTrackType/essenceTrackDataRate, instantiationType/formatDataRate

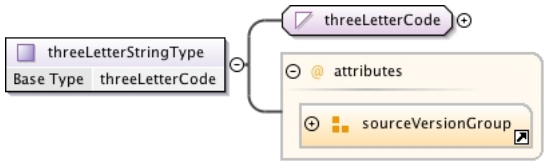
Attributes

QName	Type	Fixed	Default	Use
annotation				optional
unitsOfMeasure				optional

Source

```
<xsd:complexType name="technicalStringType">
  <xsd:simpleContent>
    <xsd:extension base="xsd:string">
      <xsd:attribute name="unitsOfMeasure"/>
      <xsd:attribute name="annotation"/>
    </xsd:extension>
  </xsd:simpleContent>
</xsd:complexType>
```

Complex Type `threeLetterStringType`

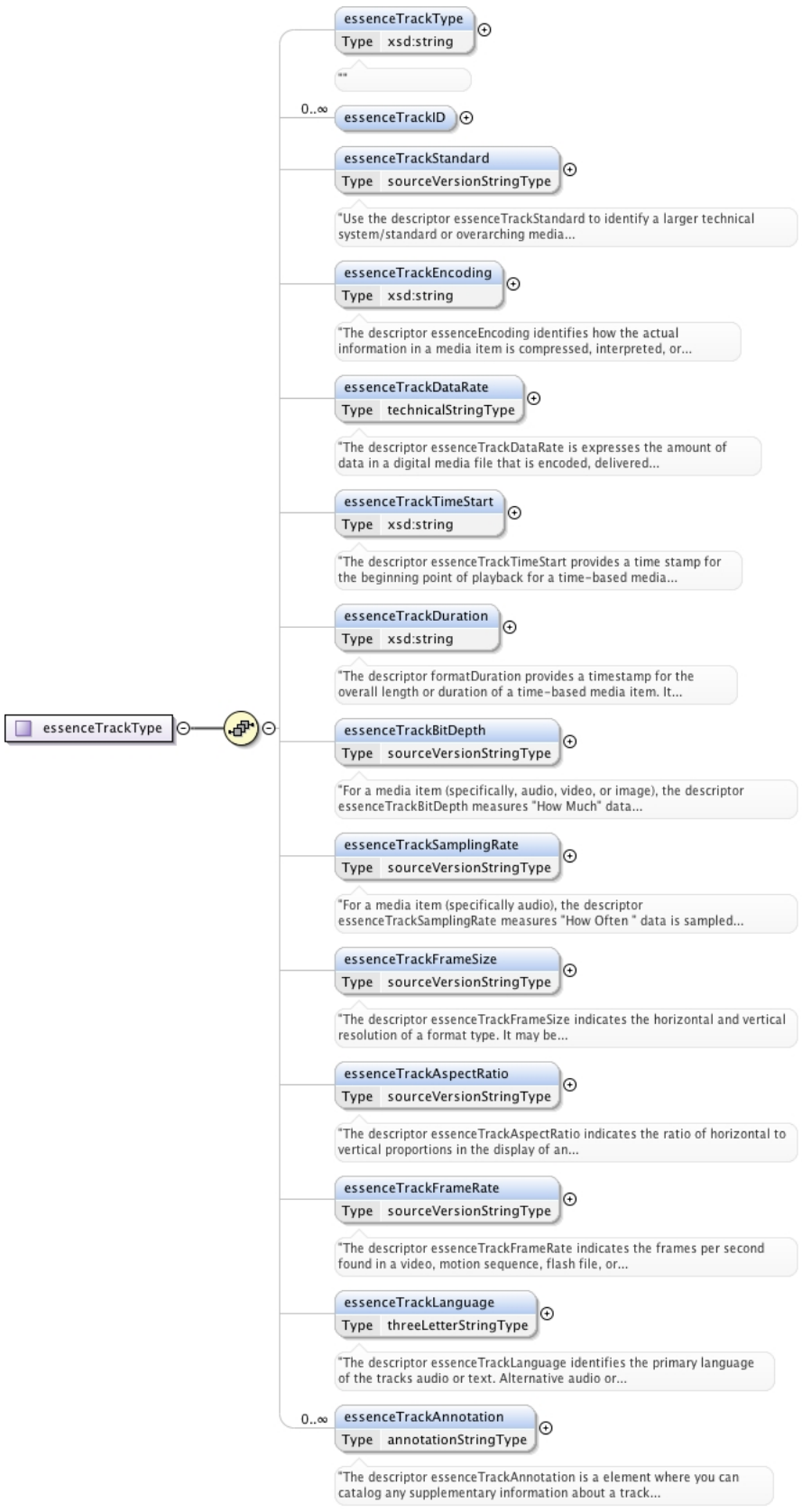
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of threeLetterCode

Type hierarchy	• xsd:string
	  • threeLetterCode
	  • threeLetterStringType

Used by	Elements	essenceTrackType/essenceTrackLanguage, instantiationType/language			
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional
Source	<xsd:complexType name="threeLetterStringType"> <xsd:simpleContent> <xsd:extension base="threeLetterCode"> <xsd:attributeGroup ref="sourceVersionGroup"/> </xsd:extension> </xsd:simpleContent> </xsd:complexType>				

Complex Type essenceTrackType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram	
Used by	Element instantiationType/instantiationEssenceTrack
Model	essenceTrackType{0,1} , essenceTrackID* , essenceTrackStandard{0,1} , essenceTrackEncoding{0,1} , essenceTrackDataRate{0,1} , essenceTrackTimeStart{0,1} , essenceTrackDuration{0,1} , essenceTrackBitDepth{0,1} , essenceTrackSamplingRate{0,1} , essenceTrackFrameSize{0,1} ,

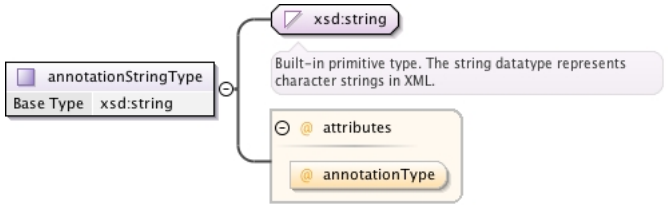
	essenceTrackAspectRatio{0,1} , essenceTrackFrameRate{0,1} , essenceTrackLanguage{0,1} , essenceTrackAnnotation*
Children	essenceTrackAnnotation, essenceTrackAspectRatio, essenceTrackBitDepth, essenceTrackDataRate, essenceTrackDuration, essenceTrackEncoding, essenceTrackFrameRate, essenceTrackFrameSize, essenceTrackID, essenceTrackLanguage, essenceTrackSamplingRate, essenceTrackStandard, essenceTrackTimeStart, essenceTrackType

Source	<xsd:complexType name="essenceTrackType">
	  <xsd:sequence>
	  <!-- the pbcore essence tracks -->
	  <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackType" type="xsd:string">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">""</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  <!-- Essence Track IDs -->
	  <xsd:element maxOccurs="unbounded" minOccurs="0" name="essenceTrackID">
	  <xsd:complexType>
	  <xsd:sequence>
	  <!-- the pbcore essence track identifier -->
	  <xsd:element maxOccurs="1" minOccurs="1" name="essenceTrackIdentifier"
	type="xsd:string">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">""</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  <!-- the pbcore essence track identifier source -->
	  <xsd:element maxOccurs="1" minOccurs="1" name="essenceTrackIdentifierSource"
	type="xsd:string">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">""</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  </xsd:sequence>
	  </xsd:complexType>
	  </xsd:element>
	  <!-- the pbcore format standard -->
	  <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackStandard"
	type="sourceVersionStringType">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"Use the descriptor essenceTrackStandard to
	identify
	  a larger technical system/standard or overarching media architecture
	under which
	  various media formats exist, e.g., NTSC is a system/standard under which
	many
	  video formats exist."</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  <!-- the pbcore essence track encoding -->
	  <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackEncoding"
	type="xsd:string">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"The descriptor essenceEncoding identifies how
	the
	  actual information in a media item is compressed, interpreted, or
	formulated using
	  a particular scheme. Identifying the encoding used is beneficial for a
	number of
	  reasons, including as a way to achieve reversible compression; for the
	  construction of document indices to facilitate searching and access; or
	for
	  efficient distribution of the information across data networks with
	differing
	  bandwidths or pipeline capacities."</xsd:documentation>
	  </xsd:annotation>
	  </xsd:element>
	  <!-- the pbcore essence track data rate-->
	  <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackDataRate"
	type="technicalStringType">
	  <xsd:annotation>
	  <xsd:documentation xml:lang="en">"The descriptor essenceTrackDataRate is expresses
	  the amount of data in a digital media file that is encoded, delivered or
	  distributed, for every second of time. Although optimal data rates are
	often
	  dependent on the codec used to compress and encode a digital file,
	generally
	  speaking, a larger data rate translates into a better quality playback
	experience,
	  for example 56 kilobits/second vs. 1 megabit/second."</
	xsd:documentation>
	  </xsd:annotation>

```
    </xsd:element>
    <!--  the pbcore essence time start-->
    <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackTimeStart"
 type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor essenceTrackTimeStart provides a
                time stamp for the beginning point of playback for a time-based media
 item, such
                as digital video or audio. Use in combination with essenceTrackDuration
 to
                identify a sequence or segment of a media item that has a fixed start
 time and end
                time."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!--  the pbcore essence track duration-->
    <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackDuration"
 type="xsd:string">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor formatDuration provides a
 timestamp
                for the overall length or duration of a time-based media item. It
 represents the
                playback time."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore essence track bit depth -->
    <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackBitDepth"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"For a media item (specifically, audio, video, or
                image), the descriptor essenceTrackBitDepth measures "How Much" data is
 sampled
                when information is digitized, encoded, or converted. Bit depth is
 measured in
                bits and is an indicator of the perceived viewing or playback quality of
 a media
                item (the higher the bit depth, the greater the fidelity)."</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore essence track sampling rate -->
    <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackSamplingRate"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"For a media item (specifically audio), the
                descriptor essenceTrackSamplingRate measures "How Often " data is
 sampled when
                information is digitized. For a digital audio signal, the sampling rate
 is
                measured in kiloHertz and is an indicator of the perceived playback
 quality of the
                media item (the higher the sampling rate, the greater the
                fidelity)."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore essence track frame size -->
    <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackFrameSize"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor essenceTrackFrameSize indicates
 the
                horizontal and vertical resolution of a format type. It may be expressed
 in
                pixels, pixels per inch, or in the case of ATSC digital TV, a
 combination of
                pixels measured horizontally vs. the number of pixels of image/
resolution data
                stacked vertically (interlaced and progressive scan)."</
xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore essence aspect ratio -->
    <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackAspectRatio"
 type="sourceVersionStringType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The descriptor essenceTrackAspectRatio indicates
                the ratio of horizontal to vertical proportions in the display of an
 static image
                or moving image."</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
    <!-- the pbcore essense frame rate -->
```

```
   <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackFrameRate"
type="sourceVersionStringType">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"The descriptor essenceTrackFrameRate indicates
the
                  frames per second found in a video, motion sequence, flash file, or
animation's
                  playback or display."</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- the pbcore essence track language -->
   <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackLanguage"
type="threeLetterStringType">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"The descriptor essenceTrackLanguage identifies
the
                  primary language of the tracks audio or text. Alternative audio or text
tracks and
                  their associated languages should be identified using the descriptor
                  alternativeModes."</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
   <!-- the pbcore essence track annotation -->
   <xsd:element maxOccurs="unbounded" minOccurs="0" name="essenceTrackAnnotation"
type="annotationStringType">
     <xsd:annotation>
       <xsd:documentation xml:lang="en">"The descriptor essenceTrackAnnotation is a
element
                  where you can catalog any supplementary information about a track or the
metadata
                  used to describe it. annotation clarifies element values, terms,
descriptors, and
                  vocabularies that may not be otherwise sufficiently
                  understood."</xsd:documentation>
     </xsd:annotation>
   </xsd:element>
 </xsd:sequence>
</xsd:complexType>
```

Complex Type `annotationStringType`

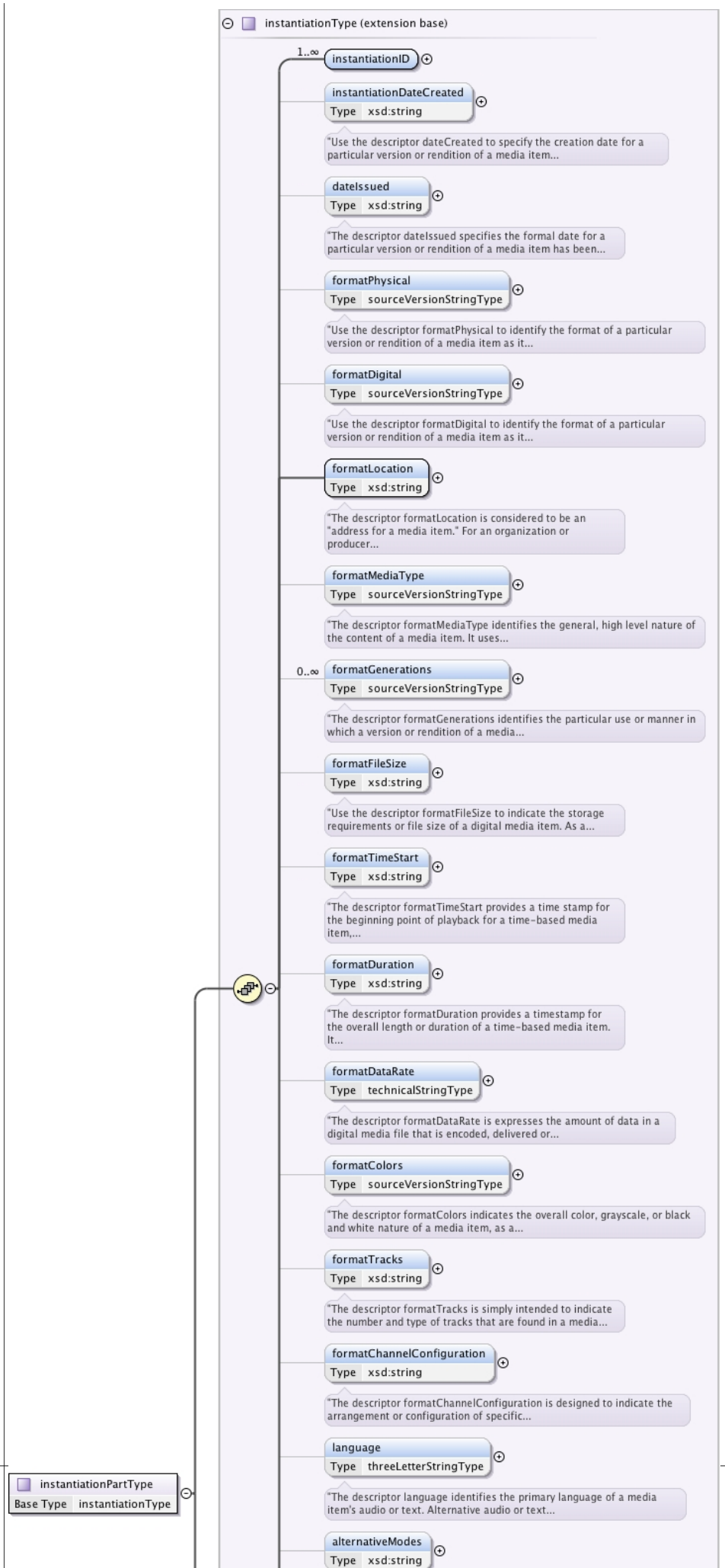
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Type	extension of xsd:string
Used by	Elements essenceTrackType/essenceTrackAnnotation, instantiationType/instantiationAnnotation, pbcoreDocumentDescriptionType/pbcoreAnnotation
Attributes	**QName** | **Type** | **Fixed** | **Default** | **Use** **annotationType** | | | | optional

Source	`<xsd:complexType name="annotationStringType">`
	`  <xsd:simpleContent>`
	`  <xsd:extension base="xsd:string">`
	`  <xsd:attribute name="annotationType"/>`
	`  </xsd:extension>`
	`  </xsd:simpleContent>`
	`</xsd:complexType>`

Complex Type `instantiationPartType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram


instantiationType (extension base)
1..∞
instantiationID
instantiationDateCreated
Type xsd:string
"Use the descriptor dateCreated to specify the creation date for a particular version or rendition of a media item...
dateIssued
Type xsd:string
"The descriptor dateIssued specifies the formal date for a particular version or rendition of a media item has been...
formatPhysical
Type sourceVersionStringType
"Use the descriptor formatPhysical to identify the format of a particular version or rendition of a media item as it...
formatDigital
Type sourceVersionStringType
"Use the descriptor formatDigital to identify the format of a particular version or rendition of a media item as it...
formatLocation
Type xsd:string
"The descriptor formatLocation is considered to be an "address for a media item." For an organization or producer...
formatMediaType
Type sourceVersionStringType
"The descriptor formatMediaType identifies the general, high level nature of the content of a media item. It uses...
0..∞
formatGenerations
Type sourceVersionStringType
"The descriptor formatGenerations identifies the particular use or manner in which a version or rendition of a media...
formatFileSize
Type xsd:string
"Use the descriptor formatFileSize to indicate the storage requirements or file size of a digital media item. As a...
formatTimeStart
Type xsd:string
"The descriptor formatTimeStart provides a time stamp for the beginning point of playback for a time-based media item,...
formatDuration
Type xsd:string
"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It...
formatDataRate
Type technicalStringType
"The descriptor formatDataRate is expresses the amount of data in a digital media file that is encoded, delivered or...
formatColors
Type sourceVersionStringType
"The descriptor formatColors indicates the overall color, grayscale, or black and white nature of a media item, as a...
formatTracks
Type xsd:string
"The descriptor formatTracks is simply intended to indicate the number and type of tracks that are found in a media...
formatChannelConfiguration
Type xsd:string
"The descriptor formatChannelConfiguration is designed to indicate the arrangement or configuration of specific...
language
Type threeLetterStringType
"The descriptor language identifies the primary language of a media item's audio or text. Alternative audio or text...
alternativeModes
Type xsd:string
instantiationPartType
Base Type instantiationType

Type	extension of instantiationType
Type hierarchy	• instantiationType • instantiationPartType
Used by	Element instantiationType/instantiationPart
Model	instantiationID+ , instantiationDateCreated{0,1} , dateIssued{0,1} , formatPhysical{0,1} , formatDigital{0,1} , formatLocation , formatMediaType{0,1} , formatGenerations* , formatFileSize{0,1} , formatTimeStart{0,1} , formatDuration{0,1} , formatDataRate{0,1} , formatColors{0,1} , formatTracks{0,1} , formatChannelConfiguration{0,1} , language{0,1} , alternativeModes{0,1} , instantiationEssenceTrack+ , instantiationDateAvailable* , instantiationRights* , instantiationAnnotation* , instantiationPart*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationAnnotation, instantiationDateAvailable, instantiationDateCreated, instantiationEssenceTrack, instantiationID, instantiationPart, instantiationRights, language

Attributes

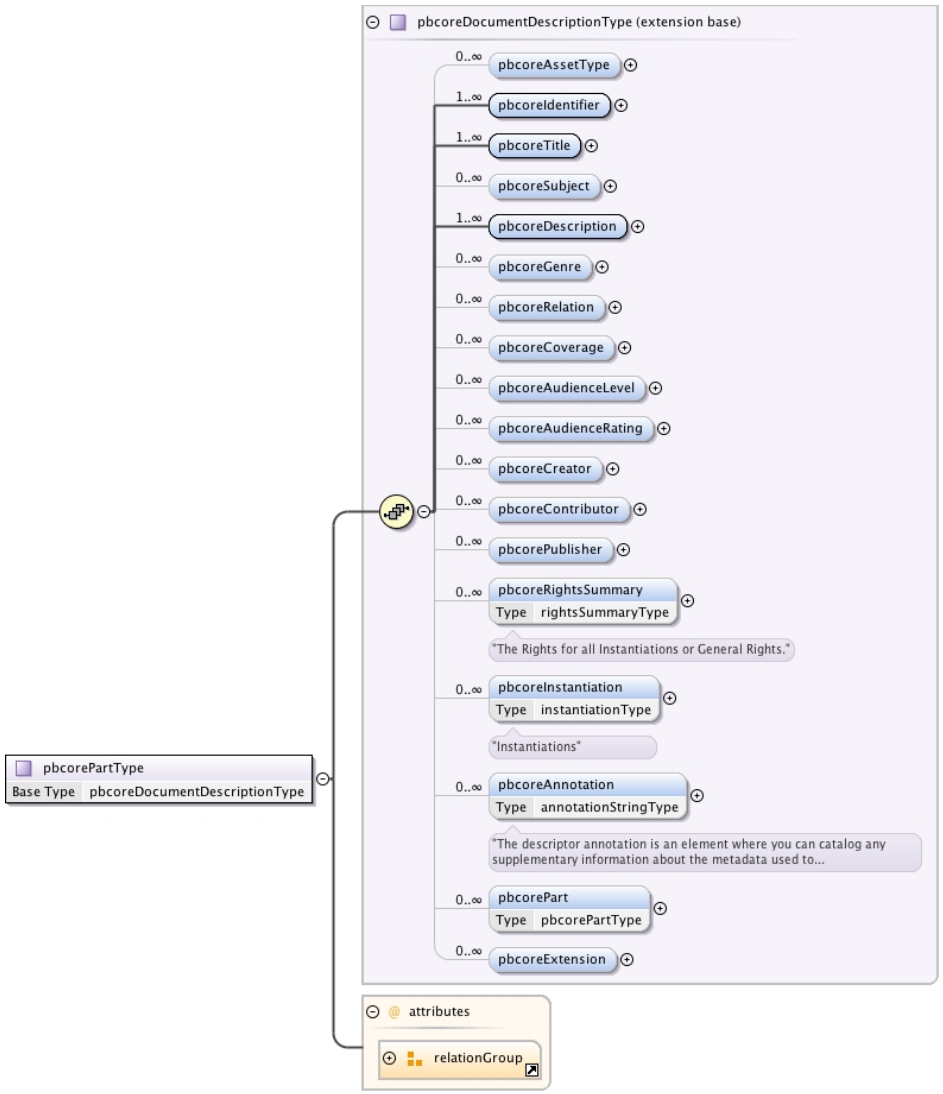
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
relationID	xsd:string			optional
	`This part is then referenced to another part."`			
relationType	xsd:string			optional
	`"This attribute relate this part to another. It could be a episode in a series or a program segment recorded on many tapes."`			

Source

```
<xsd:complexType name="instantiationPartType">
  <xsd:complexContent>
    <xsd:extension base="instantiationType">
      <xsd:attributeGroup ref="relationGroup"/>
    </xsd:extension>
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type pbcorePartType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram	
Type	extension of pbcoreDocumentDescriptionType
Type hierarchy	• pbcoreDocumentDescriptionType • pbcorePartType
Used by	Element pbcoreDocumentDescriptionType/pbcorePart
Model	pbcoreAssetType* , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcoreAnnotation* , pbcorePart* , pbcoreExtension*
Children	pbcoreAnnotation, pbcoreAssetType, pbcoreAudienceLevel, pbcoreAudienceRating, pbcoreContributor, pbcoreCoverage, pbcoreCreator, pbcoreDescription, pbcoreExtension, pbcoreGenre, pbcoreIdentifier, pbcoreInstantiation, pbcorePart, pbcorePublisher, pbcoreRelation, pbcoreRightsSummary, pbcoreSubject, pbcoreTitle

Attributes

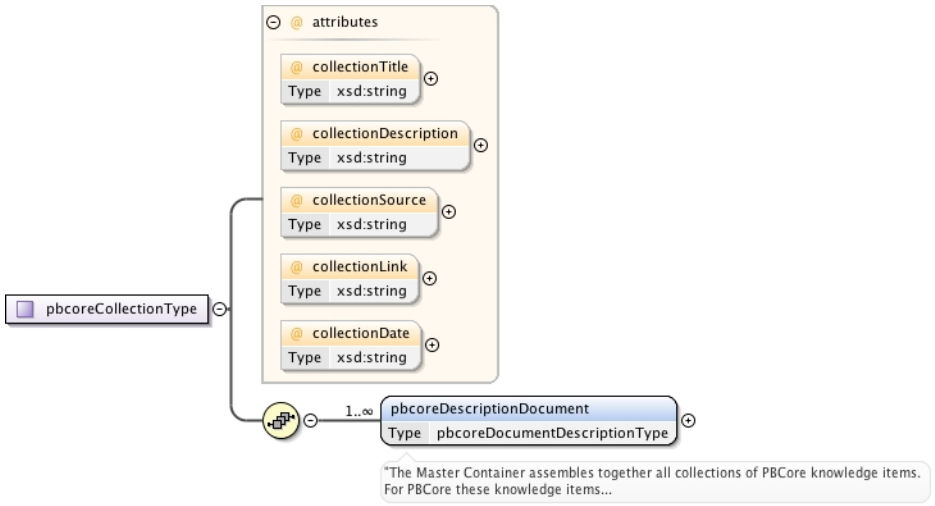
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
relationID	xsd:string			optional
	`This part is then referenced to another part."`			
relationType	xsd:string			optional
	`"This attribute relate this part to another. It could be a episode in a series or a program segment recorded on many tapes."`			

Source

```
<xsd:complexType name="pbcorePartType">
  <xsd:complexContent>
    <xsd:extension base="pbcoreDocumentDescriptionType">
      <xsd:attributeGroup ref="relationGroup"/>
    </xsd:extension>
```

```
  </xsd:complexContent>
</xsd:complexType>
```

Complex Type `pbcoreCollectionType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Element pbcoreCollection
Model	pbcoreDescriptionDocument+
Children	pbcoreDescriptionDocument

Attributes

QName	Type	Fixed	Default	Use
collectionDate	xsd:string			optional
collectionDescription	xsd:string			optional
collectionLink	xsd:string			optional
collectionSource	xsd:string			optional
collectionTitle	xsd:string			optional

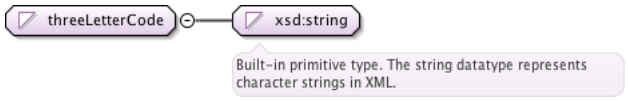
Source

```
<xsd:complexType name="pbcoreCollectionType">
  <xsd:sequence>
    <!-- everything falls under a descriptionDocument otherwise known as an asset -->
    <xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreDescriptionDocument"
 type="pbcoreDocumentDescriptionType">
      <xsd:annotation>
        <xsd:documentation xml:lang="en">"The Master Container assembles together all
                  collections of PBCore knowledge items. For PBCore these knowledge items
 are
                  metadata descriptions of media. The MasterContainer is expressed as a
 document
                  that hierarchically structures all the knowledge items and metadata
 terms and
                  values related to a single data record associated with a media item. In
 our XML
                  Schema Definition, the MasterContainer is referred to as the
                  'PBCoreDescriptionDocument.'"</xsd:documentation>
      </xsd:annotation>
    </xsd:element>
  </xsd:sequence>
  <xsd:attribute name="collectionTitle" type="xsd:string"/>
  <xsd:attribute name="collectionDescription" type="xsd:string"/>
  <xsd:attribute name="collectionSource" type="xsd:string"/>
  <xsd:attribute name="collectionLink" type="xsd:string"/>
  <xsd:attribute name="collectionDate" type="xsd:string"/>
</xsd:complexType>
```

Simple Types

Simple Type `threeLetterCode`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

Diagram	
Type	restriction of xsd:string
Facets	pattern ([a-z]{3}((;[a-z]{3})?)*)?
Used by	Complex Type threeLetterStringType

Source	<pre><xsd:simpleType name="threeLetterCode">
	  <xsd:restriction base="xsd:string">
	  <xsd:pattern value="([a-z]{3}((;[a-z]{3})?)*)?"/>
	  <!-- allows for null -->
	  </xsd:restriction>
	</xsd:simpleType></pre>

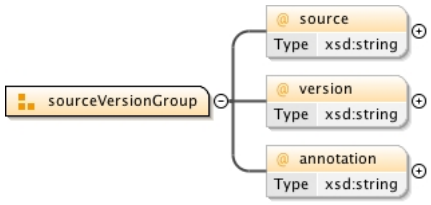
Attributes

Attribute `@schemaVersion`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Type	xsd:string
Properties	content: simple
Source	<pre><xsd:attribute name="schemaVersion" type="xsd:string"/></pre>

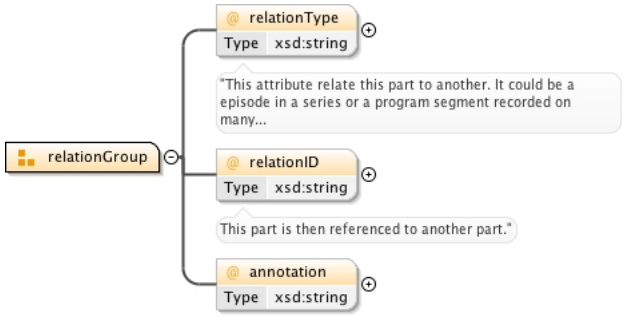
Attribute Groups

Attribute Group `sourceVersionGroup`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Complex Types contributorStringType, sourceVersionStringType, threeLetterStringType
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **annotation** xsd:string optional **source** xsd:string optional **version** xsd:string optional

Source	<pre><xsd:attributeGroup name="sourceVersionGroup">
	  <xsd:attribute name="source" type="xsd:string"/>
	  <xsd:attribute name="version" type="xsd:string"/>
	  <xsd:attribute name="annotation" type="xsd:string"/>
	</xsd:attributeGroup></pre>

Attribute Group `relationGroup`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	

Used by	Complex Types	instantiationPartType, pbcorePartType			
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	relationID	xsd:string			optional
		This part is then referenced to another part."			
	relationType	xsd:string			optional
		"This attribute relate this part to another. It could be a episode in a series or a program segment recorded on many tapes."			

Source

```
<xsd:attributeGroup name="relationGroup">
  <xsd:attribute name="relationType" type="xsd:string">
    <xsd:annotation>
      <xsd:documentation>"This attribute relate this part to another. It could be a
 episode in
              a series or a program segment recorded on many tapes."</xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="relationID" type="xsd:string">
    <xsd:annotation>
      <xsd:documentation>This part is then referenced to another part."</
xsd:documentation>
    </xsd:annotation>
  </xsd:attribute>
  <xsd:attribute name="annotation" type="xsd:string"/>
</xsd:attributeGroup>
```

Namespace: ""

Attributes

Attribute sourceVersionGroup / @source

Namespace	No namespace	
Type	xsd:string	
Properties	content:	simple
Used by	Attribute Group	sourceVersionGroup
Source	<xsd:attribute name="source" type="xsd:string"/>	

Attribute sourceVersionGroup / @version

Namespace	No namespace	
Type	xsd:string	
Properties	content:	simple
Used by	Attribute Group	sourceVersionGroup
Source	<xsd:attribute name="version" type="xsd:string"/>	

Attribute sourceVersionGroup / @annotation

Namespace	No namespace	
Type	xsd:string	
Properties	content:	simple
Used by	Attribute Group	sourceVersionGroup
Source	<xsd:attribute name="annotation" type="xsd:string"/>	

Attribute dateStringType / @dateType

Namespace	No namespace	
Used by	Complex Type	dateStringType
Source	<xsd:attribute name="dateType"/>	

Attribute subjectStringType / @subjectType

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type subjectStringType
Source	`<xsd:attribute name="subjectType" type="xsd:string"/>`

Attribute subjectStringType / @source

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type subjectStringType
Source	`<xsd:attribute name="source" type="xsd:string"/>`

Attribute subjectStringType / @version

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type subjectStringType
Source	`<xsd:attribute name="version" type="xsd:string"/>`

Attribute subjectStringType / @annotation

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type subjectStringType
Source	`<xsd:attribute name="annotation" type="xsd:string"/>`

Attribute descriptionStringType / @startTime

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type descriptionStringType
Source	`<xsd:attribute name="startTime" type="xsd:string"/>`

Attribute descriptionStringType / @endTime

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type descriptionStringType
Source	`<xsd:attribute name="endTime" type="xsd:string"/>`

Attribute descriptionStringType / @segmentType

Namespace	No namespace
Type	xsd:string

Properties	content:	simple
Used by	Complex Type	descriptionStringType
Source	<xsd:attribute name="segmentType" type="xsd:string"/>	

Attribute descriptionStringType / @annotation

Namespace	No namespace	
Type	xsd:string	
Properties	content:	simple
Used by	Complex Type	descriptionStringType
Source	<xsd:attribute name="annotation" type="xsd:string"/>	

Attribute affiliatedStringType / @affiliation

Namespace	No namespace	
Used by	Complex Type	affiliatedStringType
Source	<xsd:attribute name="affiliation"/>	

Attribute affiliatedStringType / @linkedID

Namespace	No namespace	
Used by	Complex Type	affiliatedStringType
Source	<xsd:attribute name="linkedID"/>	

Attribute affiliatedStringType / @annotation

Namespace	No namespace	
Used by	Complex Type	affiliatedStringType
Source	<xsd:attribute name="annotation"/>	

Attribute contributorStringType / @portrayal

Namespace	No namespace	
Type	xsd:string	
Properties	content:	simple
Used by	Complex Type	contributorStringType
Source	<xsd:attribute name="portrayal" type="xsd:string"/>	

Attribute rightsLinkType / @annotation

Namespace	No namespace	
Type	xsd:string	
Properties	content:	simple
Used by	Complex Type	rightsLinkType
Source	<xsd:attribute name="annotation" type="xsd:string"/>	

Attribute embeddedType / @annotation

Namespace	No namespace	
Type	xsd:string	
Properties	content:	simple
Used by	Complex Type	embeddedType
Source	<xsd:attribute name="annotation" type="xsd:string"/>	

Attribute technicalStringType / @unitsOfMeasure

Namespace	No namespace
Used by	Complex Type technicalStringType
Source	`<xsd:attribute name="unitsOfMeasure"/>`

Attribute technicalStringType / @annotation

Namespace	No namespace
Used by	Complex Type technicalStringType
Source	`<xsd:attribute name="annotation"/>`

Attribute annotationStringType / @annotationType

Namespace	No namespace
Used by	Complex Type annotationStringType
Source	`<xsd:attribute name="annotationType"/>`

Attribute relationGroup / @relationType

Namespace	No namespace
Annotations	"This attribute relate this part to another. It could be a episode in a series or a program segment recorded on many tapes."
Type	xsd:string
Properties	content: simple
Used by	Attribute Group relationGroup

Source	`<xsd:attribute name="relationType" type="xsd:string">`
	`  <xsd:annotation>`
	`  <xsd:documentation>"This attribute relate this part to another. It could be a episode in`
	`  a series or a program segment recorded on many tapes."</xsd:documentation>`
	`  </xsd:annotation>`
	`</xsd:attribute>`

Attribute relationGroup / @relationID

Namespace	No namespace
Annotations	This part is then referenced to another part."
Type	xsd:string
Properties	content: simple
Used by	Attribute Group relationGroup

Source	`<xsd:attribute name="relationID" type="xsd:string">`
	`  <xsd:annotation>`
	`  <xsd:documentation>This part is then referenced to another part."</xsd:documentation>`
	`  </xsd:annotation>`
	`</xsd:attribute>`

Attribute relationGroup / @annotation

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Attribute Group relationGroup
Source	`<xsd:attribute name="annotation" type="xsd:string"/>`

Attribute pbcoreDocumentDescriptionType / pbcoreExtension / extensionWrap / @annotation

Namespace	No namespace

Type	xsd:string
Properties	content: simple
Used by	Element pbcoreDocumentDescriptionType/pbcoreExtension/extensionWrap
Source	`<xsd:attribute name="annotation" type="xsd:string"/>`

Attribute pbcoreCollectionType / @collectionTitle

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type pbcoreCollectionType
Source	`<xsd:attribute name="collectionTitle" type="xsd:string"/>`

Attribute pbcoreCollectionType / @collectionDescription

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type pbcoreCollectionType
Source	`<xsd:attribute name="collectionDescription" type="xsd:string"/>`

Attribute pbcoreCollectionType / @collectionSource

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type pbcoreCollectionType
Source	`<xsd:attribute name="collectionSource" type="xsd:string"/>`

Attribute pbcoreCollectionType / @collectionLink

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type pbcoreCollectionType
Source	`<xsd:attribute name="collectionLink" type="xsd:string"/>`

Attribute pbcoreCollectionType / @collectionDate

Namespace	No namespace
Type	xsd:string
Properties	content: simple
Used by	Complex Type pbcoreCollectionType
Source	`<xsd:attribute name="collectionDate" type="xsd:string"/>`