Schema documentation for PBCoreXSD_Ver_2.0.draft3.xsd

1 november 2010

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

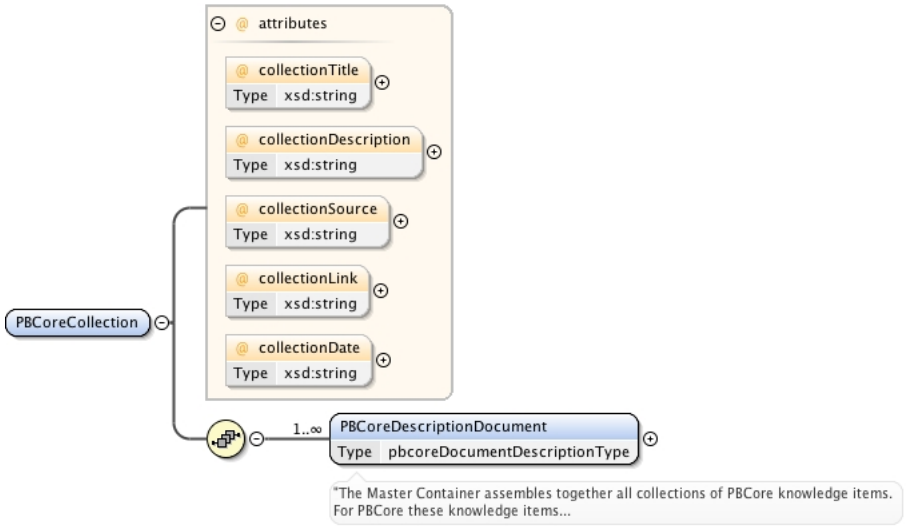
Schemas

Main schema PBCoreXSD_Ver_2.0.draft3.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 PBCoreCollection

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

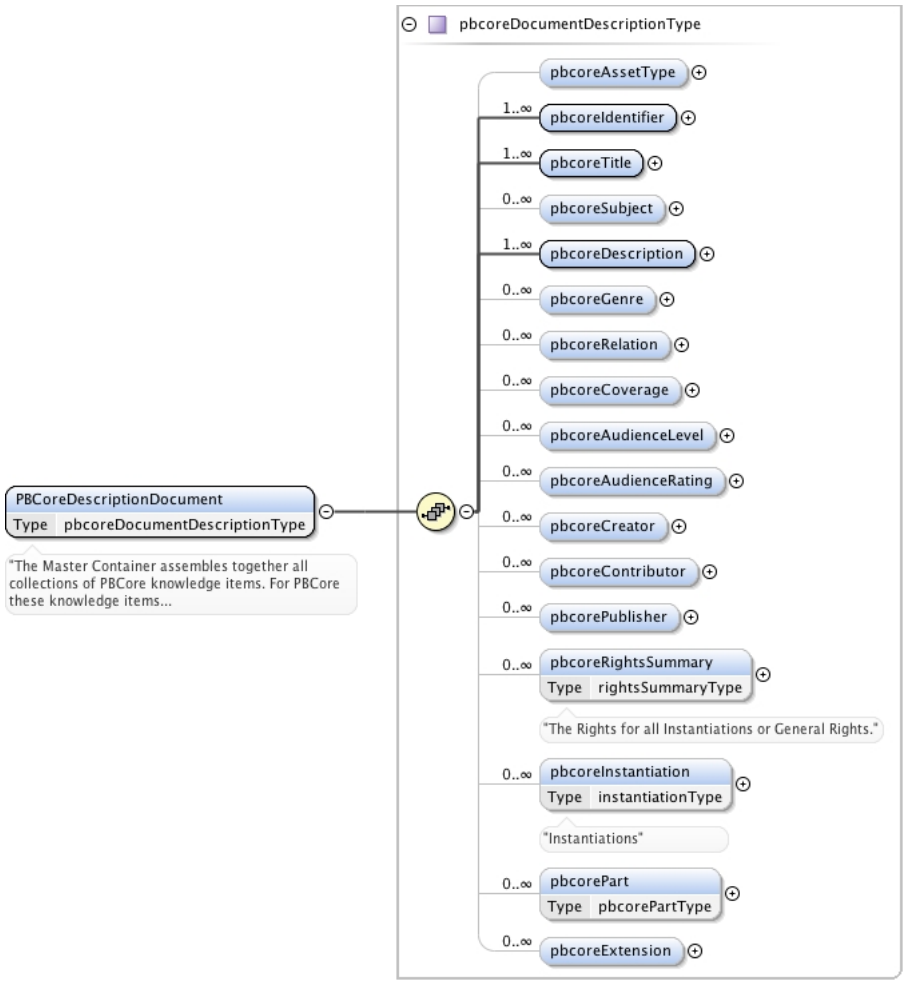
QName	Type	Fixed	Default	Use
collectionDescription	xsd:string			optional
collectionLink	xsd:string			optional
collectionSource	xsd:string			optional
collectionTitle	xsd:string			optional

Source

```
<xsd:element name="PBCoreCollection">
  <xsd:complexType>
    <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>
</xsd:element>
```

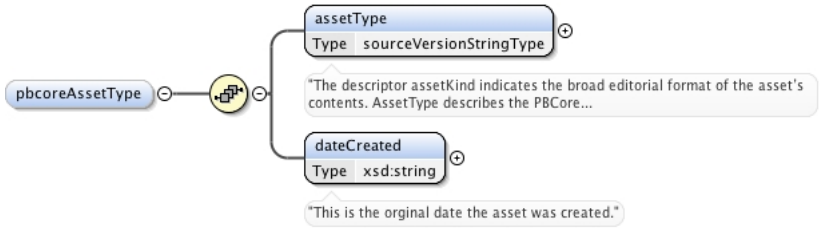
Element PBCoreCollection / PBCoreDescriptionDocument

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.'"

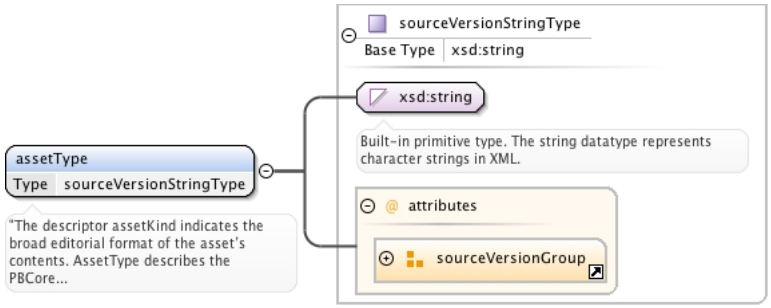
Diagram	
Type	pbcoreDocumentDescriptionType
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	pbcoreAssetType{0,1} , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating*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

Element pbcoreDocumentDescriptionType / pbcoreAssetType

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: 1
Model	assetType , dateCreated
Children	assetType, dateCreated
Instance	<pbcoreAssetType> <assetType annotation="" source="" version="">{1,1}</assetType> <dateCreated>{1,1}</dateCreated> </pbcoreAssetType>
Source	<xsd:element maxOccurs="1" 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="1" minOccurs="1" name="dateCreated" type="xsd:string"> <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

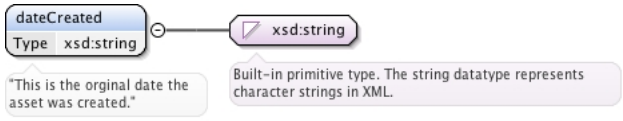
Attributes

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 / dateCreated

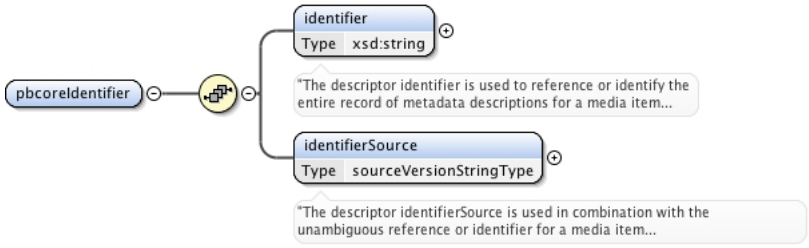
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"This is the orginal date the asset was created."
Diagram	
Type	xsd:string

Properties	content:	simple
	minOccurs:	1
	maxOccurs:	1

Source

```
<xsd:element maxOccurs="1" minOccurs="1" name="dateCreated" type="xsd:string">
  <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

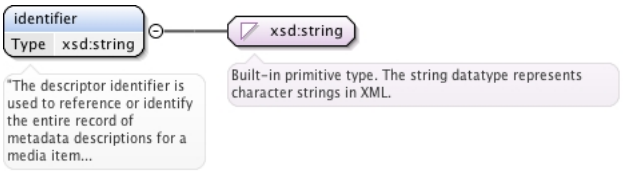
Instance

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

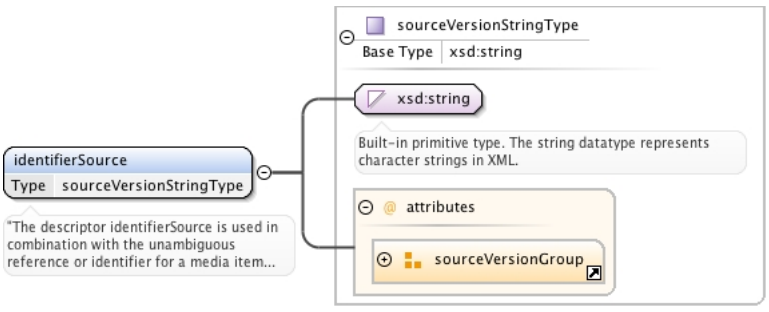
Source

```
<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

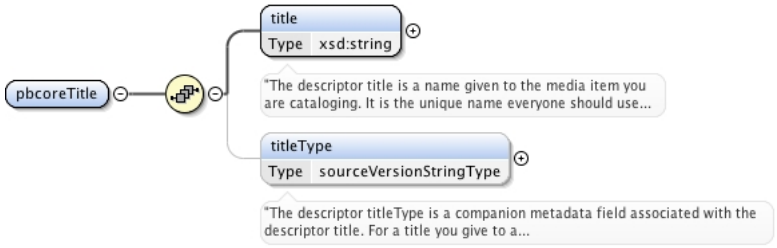
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor identifierSource is used in combination with the unambiguous reference or identifier for a media item found in the descriptor identifier. Thus PBCore provides not only a locator number, but also an agency or institution 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

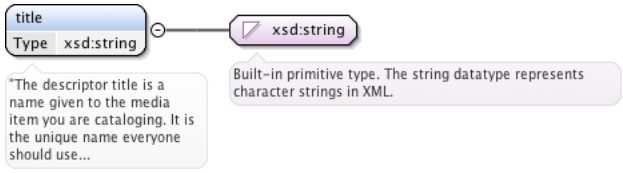
```
<pbcoreTitle>
  <title>{1,1}</title>
  <titleType annotation="" source="" version="">{0,1}</titleType>
</pbcoreTitle>
```

Source

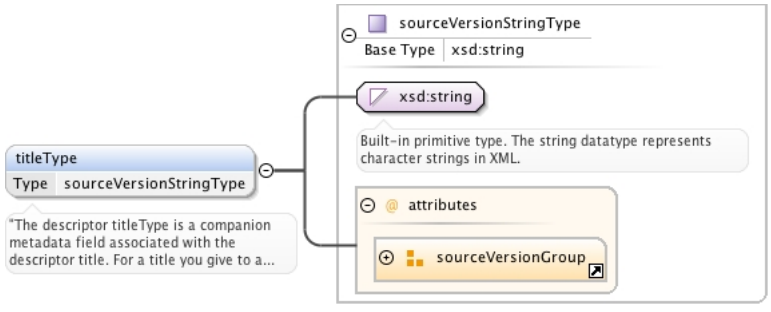
```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreTitle">
  <xsd:complexType>
    <xsd:sequence>
      <xsd:element maxOccurs="1" minOccurs="1" name="title" type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor title is a name given to
                            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

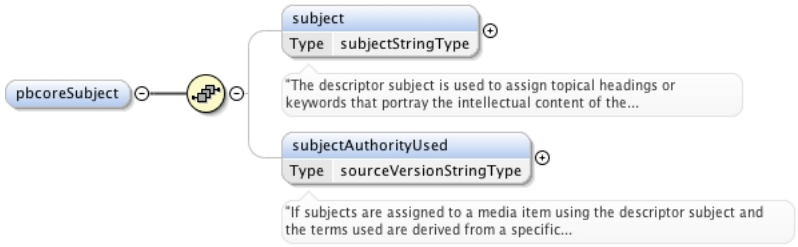
Attributes

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

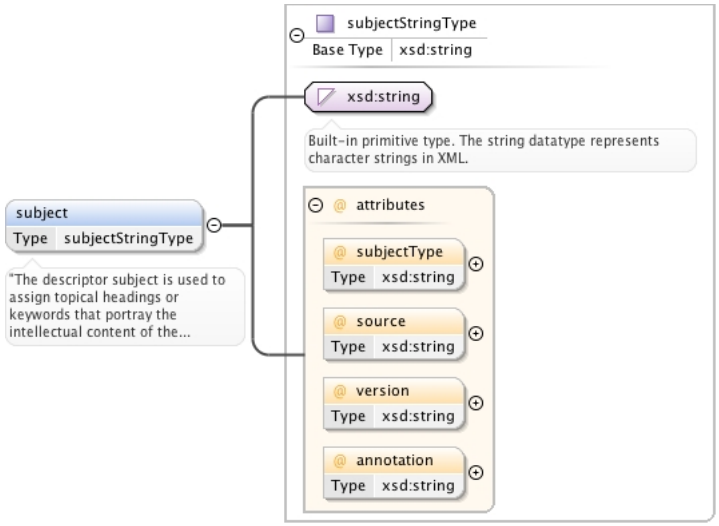
```
<pbcoreSubject>
  <subject annotation="" source="" subjectType="" version="">{0,1}</subject>
  <subjectAuthorityUsed annotation="" source="" version="">{0,1}</subjectAuthorityUsed>
</pbcoreSubject>
```

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

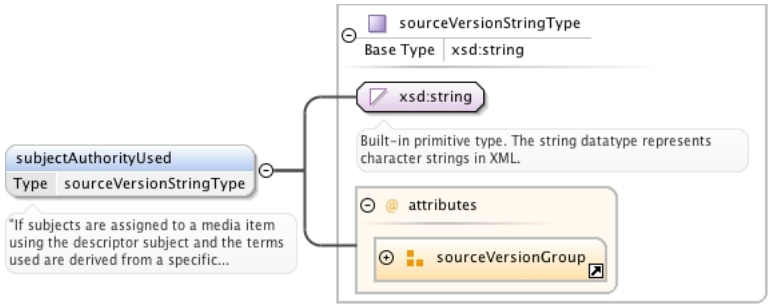
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
subjectType	xsd:string			optional
version	xsd:string			optional

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

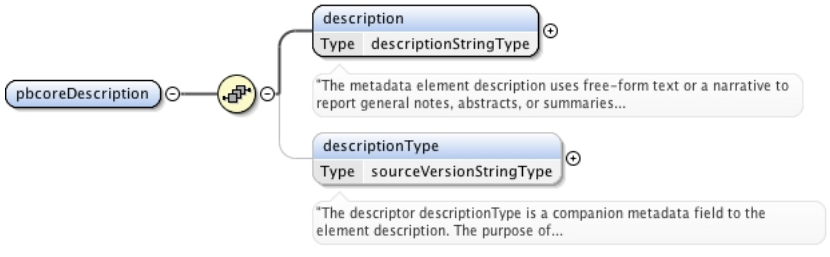
Attributes

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

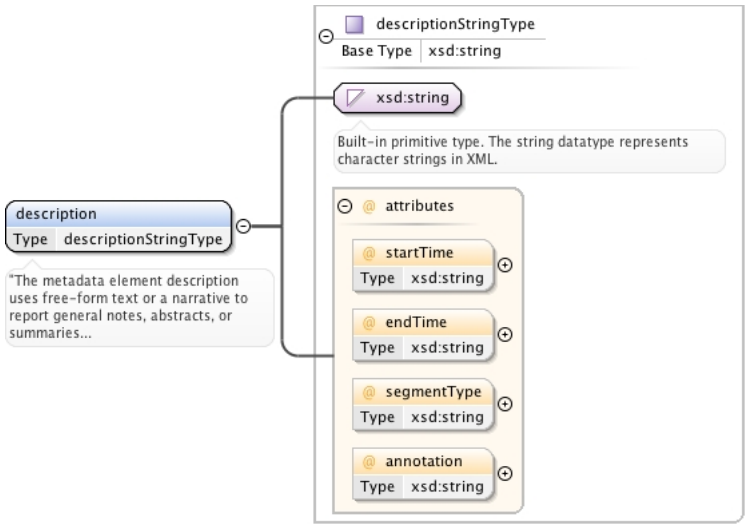
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	description , descriptionType{0,1}
Children	description, descriptionType

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

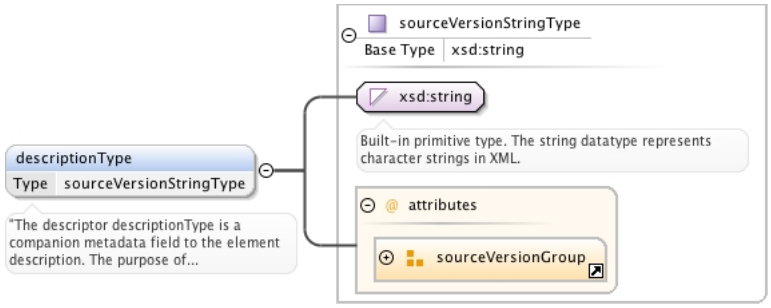
	minOccurs:	1
	maxOccurs:	1

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

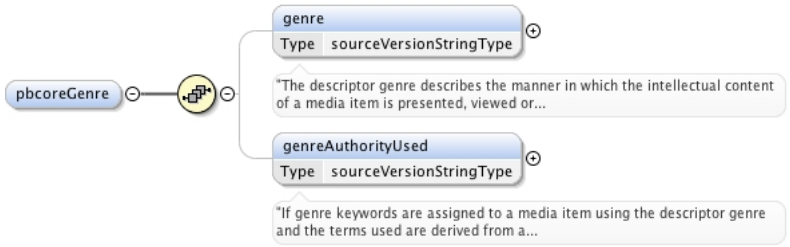
Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

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
```

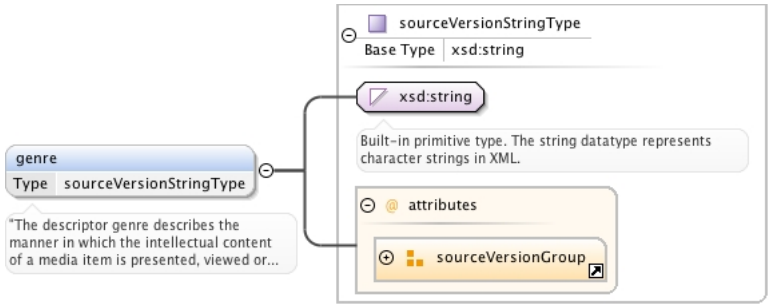
```
                              http://www.pbcore.org/PBCore/picklists/
picklist_descriptionType.html"</xsd:documentation>
  </xsd:annotation>
</xsd:element>
```

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

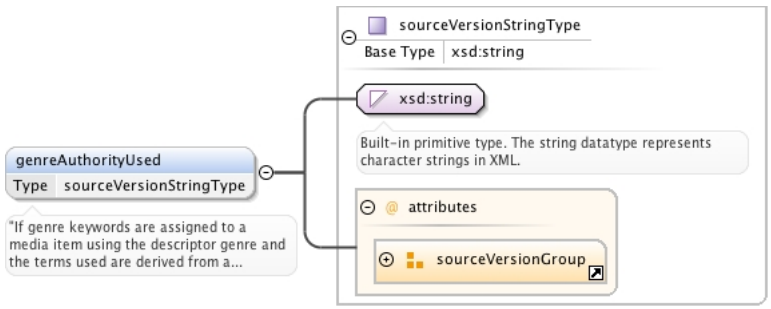
Attributes

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

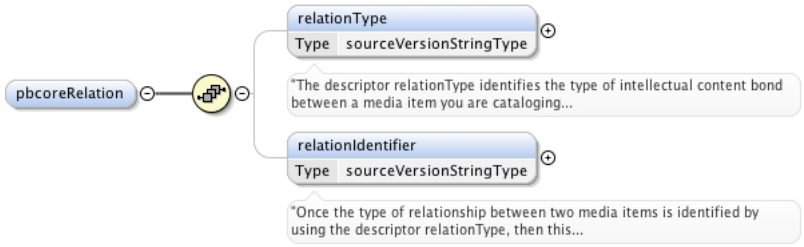
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"If genre keywords are assigned to a media item using the descriptor genre and the terms used are derived from a specific authority or classification scheme, use genreAuthorityUsed to identify whose vocabularies and terms were used. 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

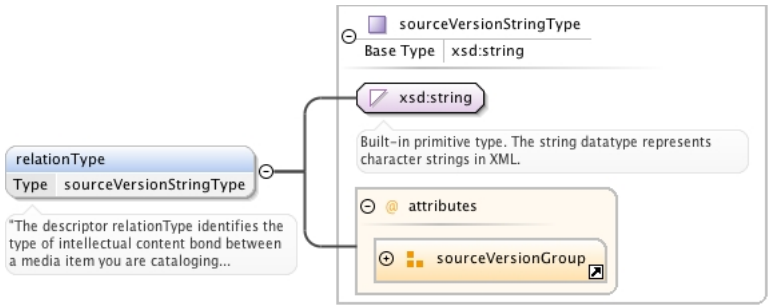
```
<pbcoreRelation>
  <relationType annotation="" source="" version="">{0,1}</relationType>
  <relationIdentifier annotation="" source="" version="">{0,1}</relationIdentifier>
</pbcoreRelation>
```

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

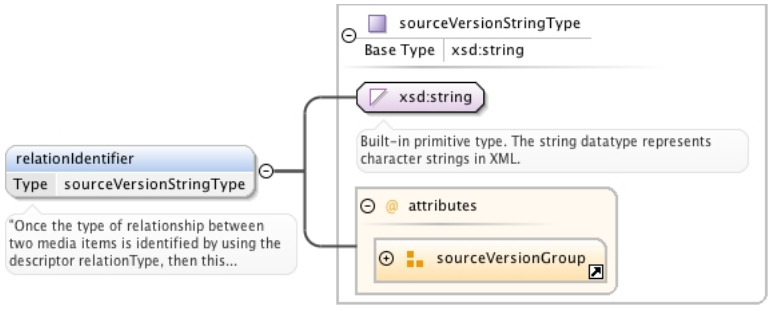
Attributes

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

Source

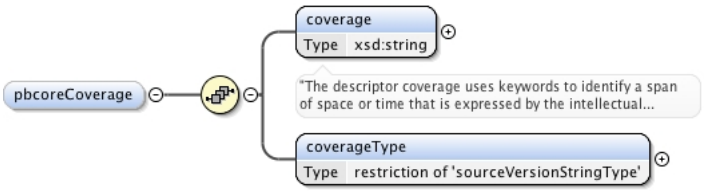
```
<xsd:element maxOccurs="1" minOccurs="0" name="relationType"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor relationType identifies the
                          type of intellectual content bond between a media item you are
 cataloging
                          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	

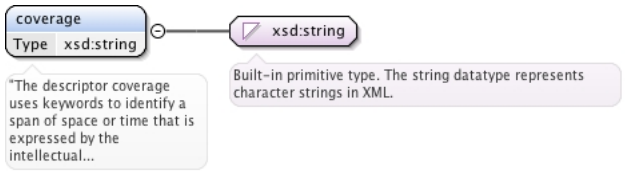
Type	sourceVersionStringType
Properties	content: complex minOccurs: 0 maxOccurs: 1
Attributes	**QName** / **Type** / **Fixed** / **Default** / **Use** **annotation** / xsd:string / / / optional **source** / xsd:string / / / optional **version** / xsd:string / / / optional
Source	<xsd:element maxOccurs="1" 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>
```

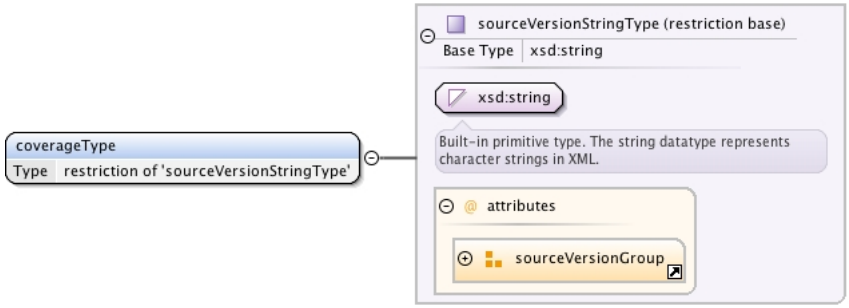
Element pbcoreDocumentDescriptionType / pbcoreCoverage / coverage

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

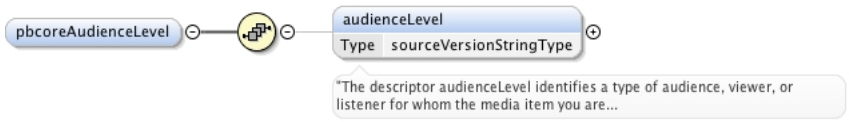
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

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

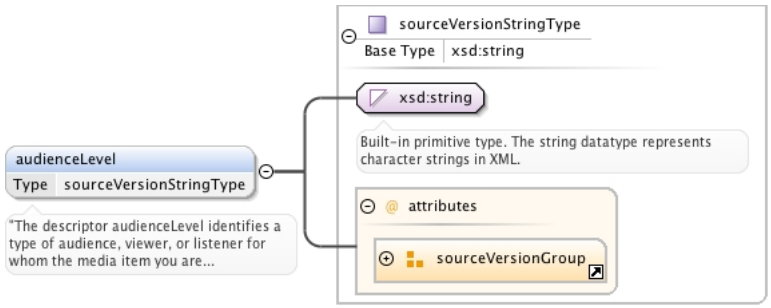
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html

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

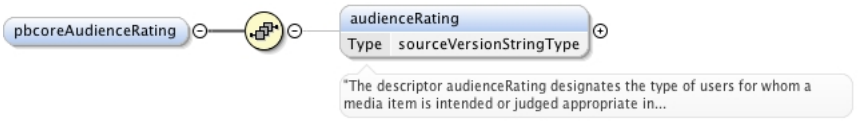
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor audienceLevel identifies a type of audience, viewer, or listener for whom the media item you are cataloging is primarily designed or educationally useful." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_audienceLevel.html"
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>
```

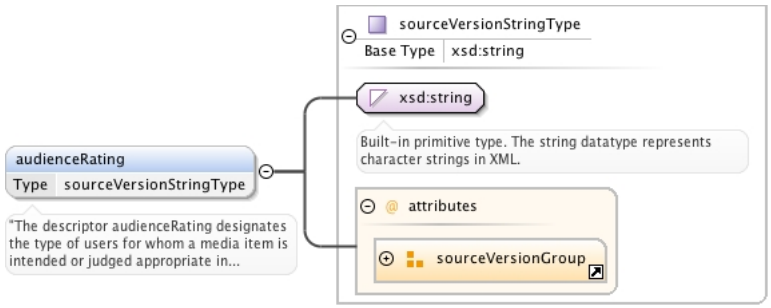
Element pbcoreDocumentDescriptionType / pbcoreAudienceRating

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

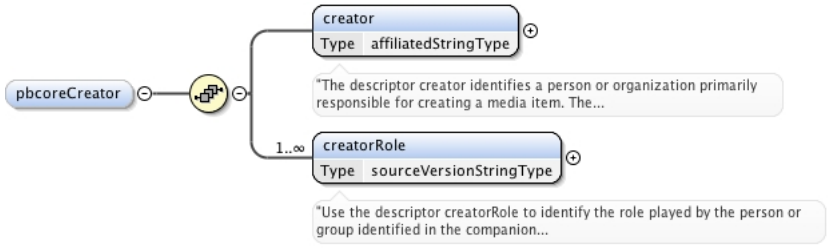
Attributes

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

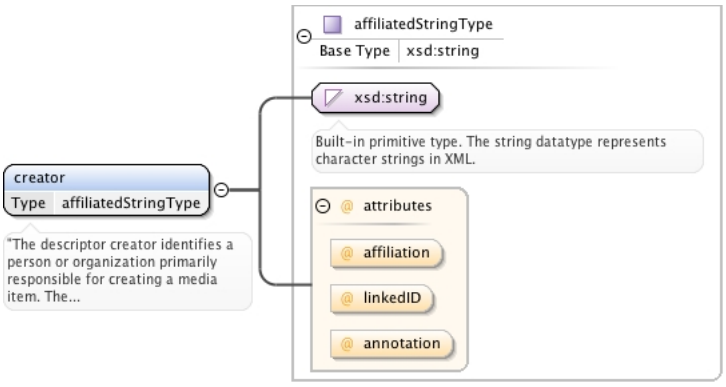
```
<pbcoreCreator>
  <creator affiliation="" annotation="" linkedID="">{1,1}</creator>
  <creatorRole annotation="" source="" version="">{1,unbounded}</creatorRole>
</pbcoreCreator>
```

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

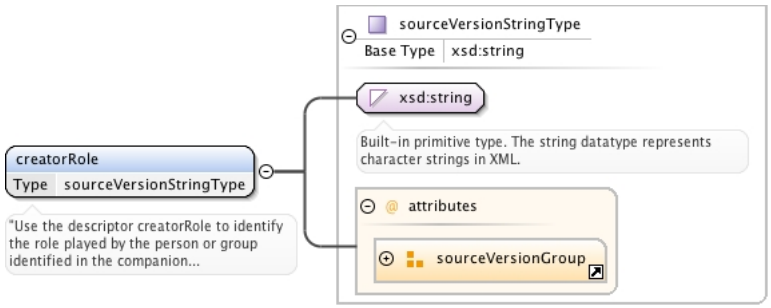
QName	Type	Fixed	Default	Use
affiliation				optional
annotation				optional
linkedID				optional

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

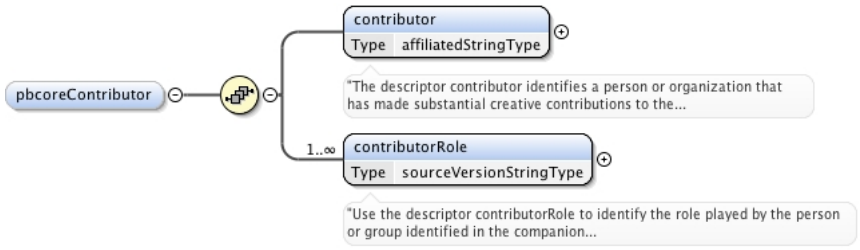
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

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>
```

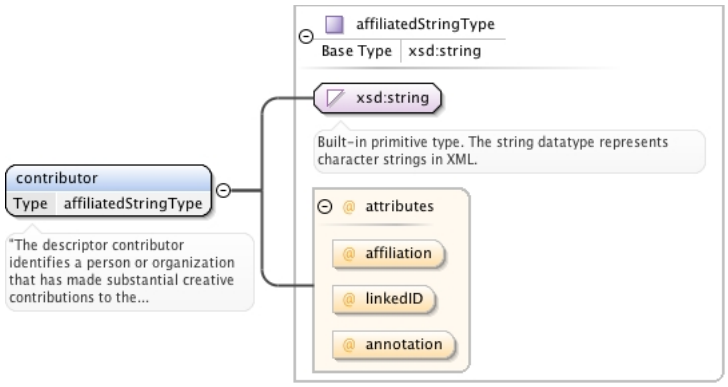
Element pbcoreDocumentDescriptionType / pbcoreContributor

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="" 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="sourceVersionStringType"> <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

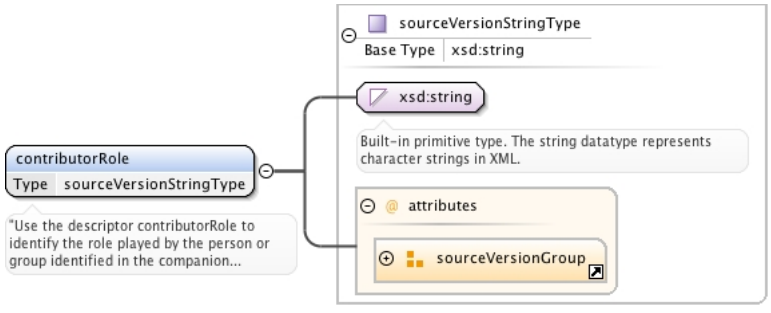
Attributes

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	sourceVersionStringType
Properties	content: complex minOccurs: 1 maxOccurs: unbounded

Attributes

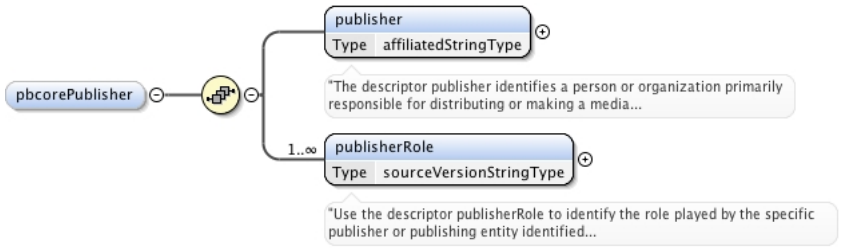
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional

	QName	Type	Fixed	Default	Use
	version	xsd:string			optional

Source

```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="contributorRole"
 type="sourceVersionStringType">
  <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

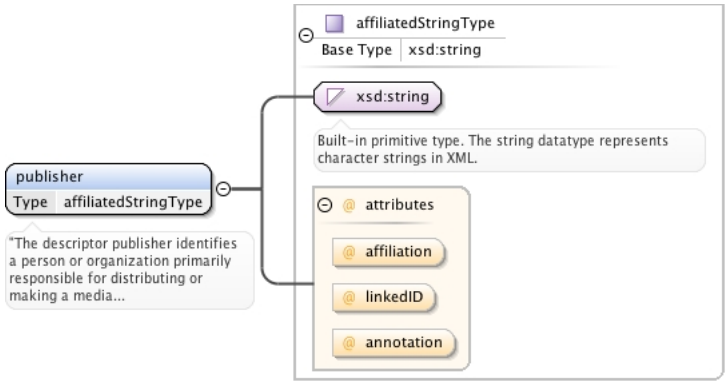
```
<pbcorePublisher>
  <publisher affiliation="" annotation="" linkedID="">{1,1}</publisher>
  <publisherRole annotation="" source="" version="">{1,unbounded}</publisherRole>
</pbcorePublisher>
```

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

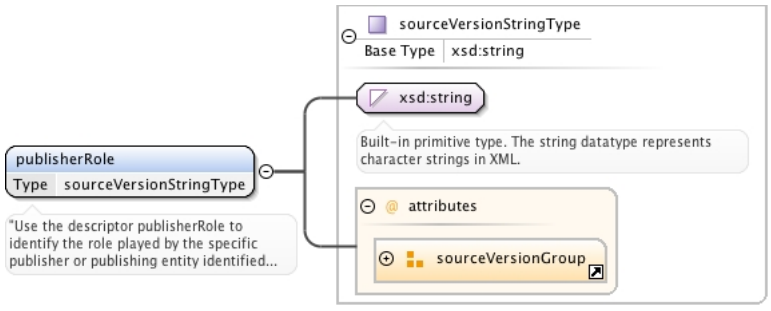
Attributes

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

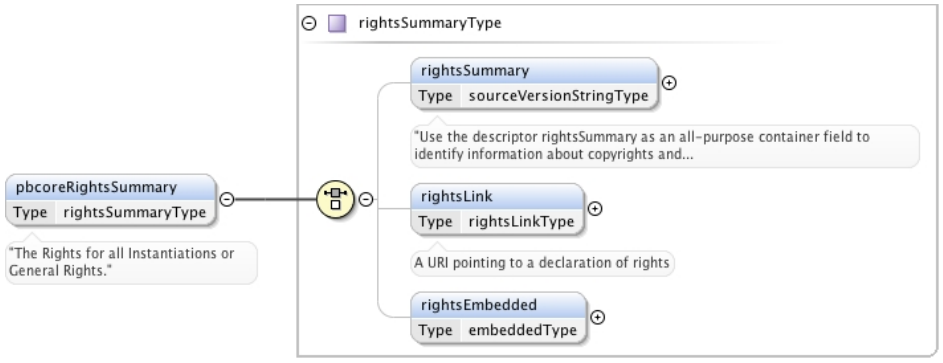
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor publisherRole to identify the role played by the specific publisher or publishing entity identified in the companion descriptor publisher." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_publisherRole.html"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

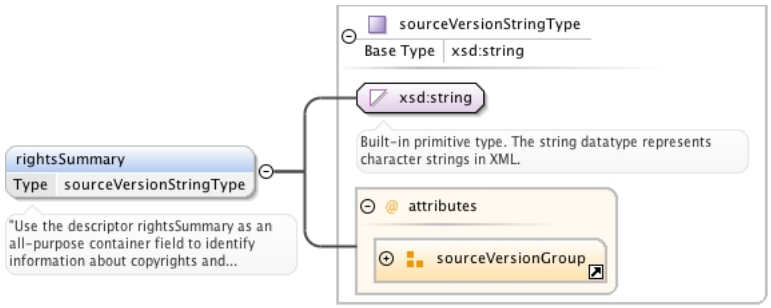
```
<xsd:element maxOccurs="unbounded" minOccurs="1" name="publisherRole"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor publisherRole to
                          identify the role played by the specific publisher or
 publishing entity
                          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

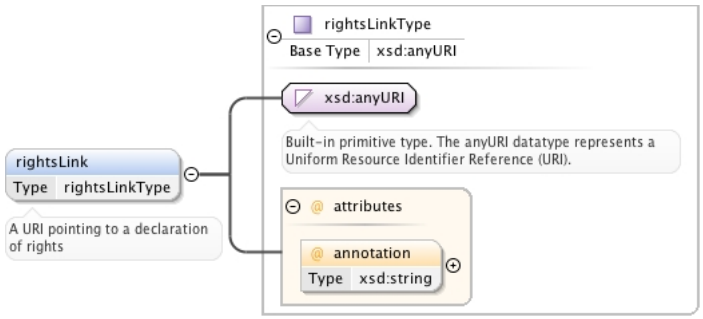
Attributes

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

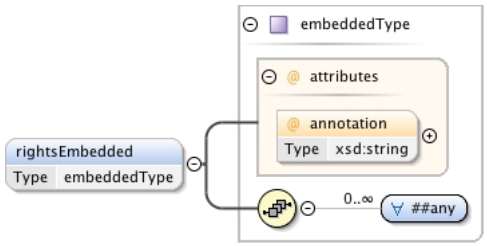
Attributes

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>
```

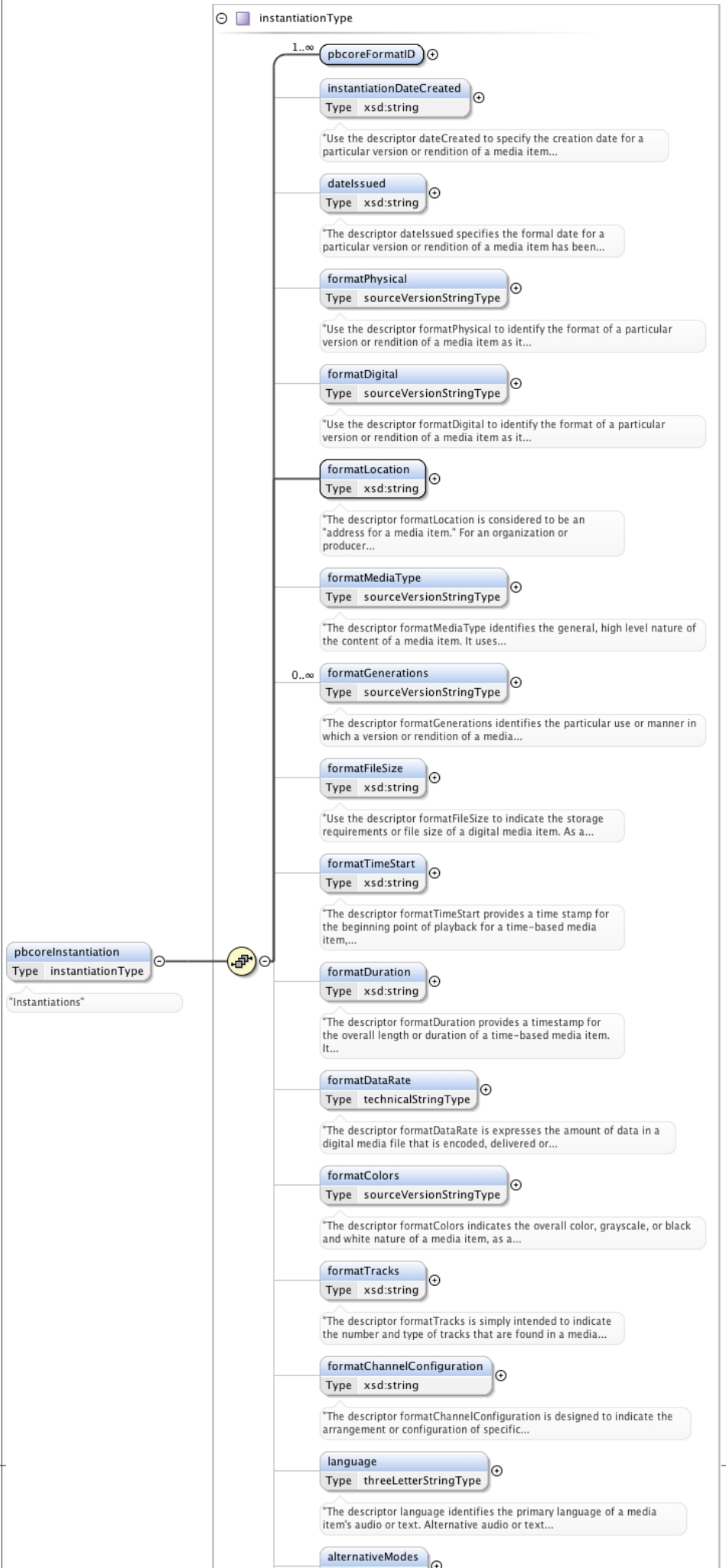
Element `rightsSummaryType / rightsEmbedded`

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** | **Type** | **Fixed** | **Default** | **Use** **annotation** | xsd:string | | | optional
Source	`<xsd:element name="rightsEmbedded" type="embeddedType" maxOccurs="1" minOccurs="0"/>`

Element `pbcoreDocumentDescriptionType / pbcoreInstantiation`

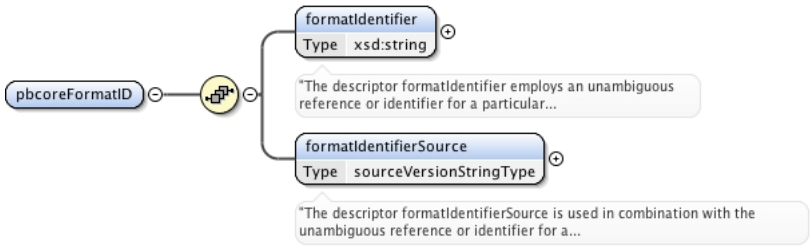
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	`"Instantiations"`

Diagram


instantiationType
1..∞
pbcoreFormatID
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"

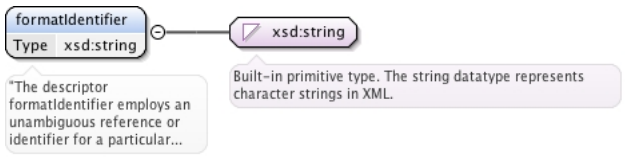
Type	instantiationType
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	pbcoreFormatID+ , instantiationDateCreated{0,1} , dateIssued{0,1} , formatPhysical{0,1} , formatDigital{0,1} , formatLocation , formatMediaType{0,1} , formatGenerations* , formatFileSize{0,1} , formatTimeStart{0,1} , formatDuration{0,1} , formatDataRate{0,1} , formatColors{0,1} , formatTracks{0,1} , formatChannelConfiguration{0,1} , language{0,1} , alternativeModes{0,1} , pbcoreEssenceTrack* , pbcoreDateAvailable* , instantiationRights* , instantiationPart* , pbcoreAnnotation*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationDateCreated, instantiationPart, instantiationRights, language, pbcoreAnnotation, pbcoreDateAvailable, pbcoreEssenceTrack, pbcoreFormatID
Instance	<pbcoreInstantiation> <pbcoreFormatID>{1,unbounded}</pbcoreFormatID> <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> <pbcoreEssenceTrack>{0,unbounded}</pbcoreEssenceTrack> <pbcoreDateAvailable>{0,unbounded}</pbcoreDateAvailable> <instantiationRights>{0,unbounded}</instantiationRights> <instantiationPart annotation="" relationID="" relationType="">{0,unbounded}</ instantiationPart> <pbcoreAnnotation>{0,unbounded}</pbcoreAnnotation> </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 / pbcoreFormatID

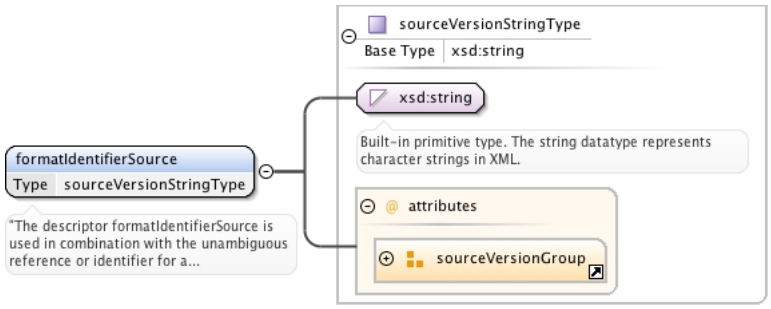
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 1 maxOccurs: unbounded
Model	formatIdentifier , formatIdentifierSource
Children	formatIdentifier, formatIdentifierSource
Instance	<pbcoreFormatID> <formatIdentifier>{1,1}</formatIdentifier> <formatIdentifierSource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

Source	<xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreFormatID"> <xsd:complexType> <xsd:sequence> <xsd:element maxOccurs="1" minOccurs="1" name="formatIdentifier" 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="formatIdentifierSource" 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 / pbcoreFormatID / formatIdentifier

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="formatIdentifier" 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 / pbcoreFormatID / formatIdentifierSource

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

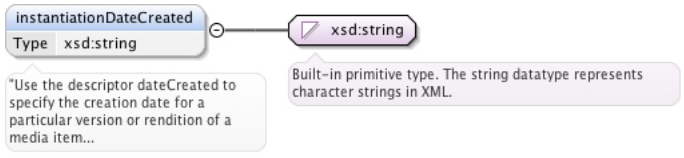
Attributes

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="formatIdentifierSource"
 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

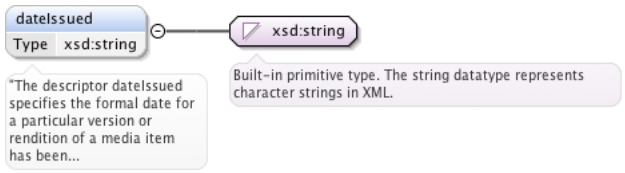
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor dateCreated to specify the creation date for a particular version or rendition of a media item across its life cycle. It is the moment in time that the media item was finalized during its production process and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

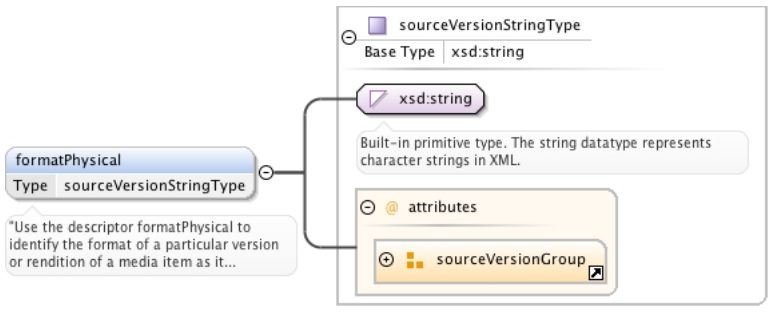
```
<xsd:element maxOccurs="1" minOccurs="0" name="instantiationDateCreated"
 type="xsd:string">
  <xsd:annotation>
```

```
    <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

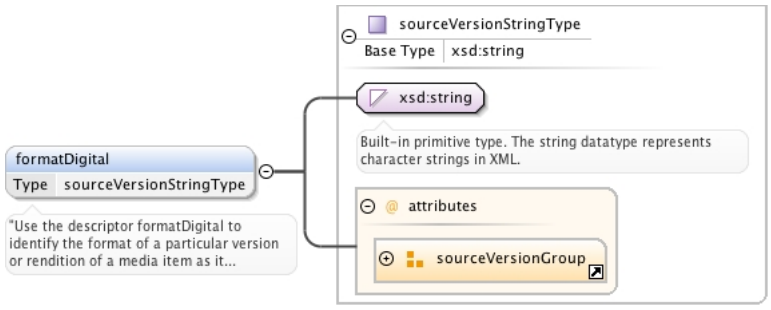
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor formatPhysical to identify the format of a particular version or rendition of a media item as it exists in an actual physical form that occupies physical space (e.g., a tape on a shelf), rather than as a digital 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

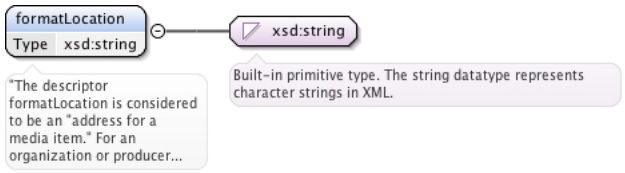
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

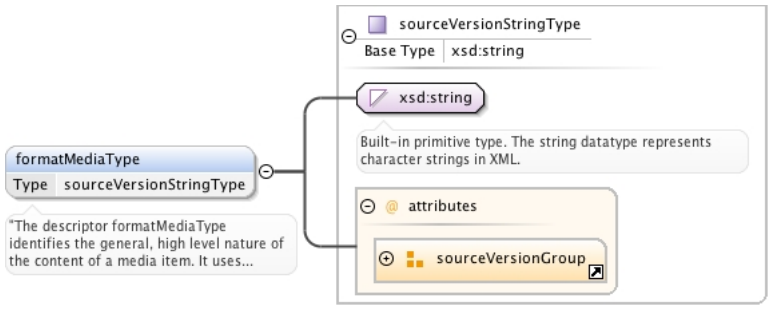
```
<xsd:element maxOccurs="1" minOccurs="0" name="formatDigital"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"Use the descriptor formatDigital to identify the
                  format of a particular version or rendition of a media item as it exists
 in its
                  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

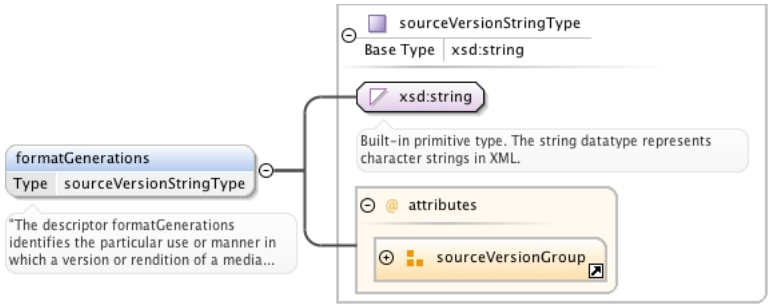
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional

	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

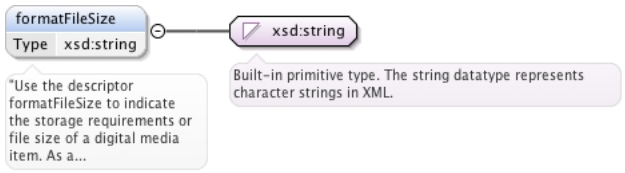
Attributes	QName	Type	Fixed	Default	Use
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

Source

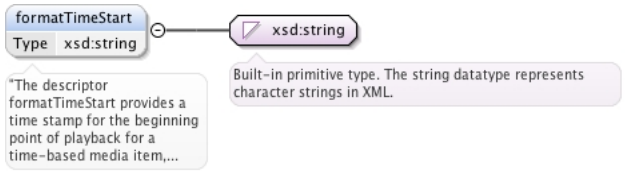
```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="formatGenerations"
 type="sourceVersionStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor formatGenerations identifies the
                  particular use or manner in which a version or rendition of a media 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

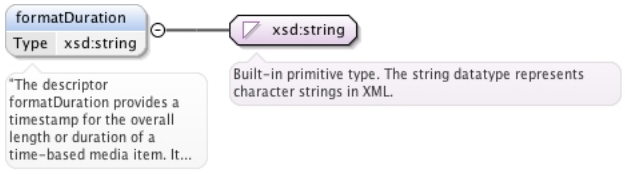
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"Use the descriptor formatFileSize to indicate the storage requirements or file size of a digital media item. As a standard, express the file size in bytes."

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

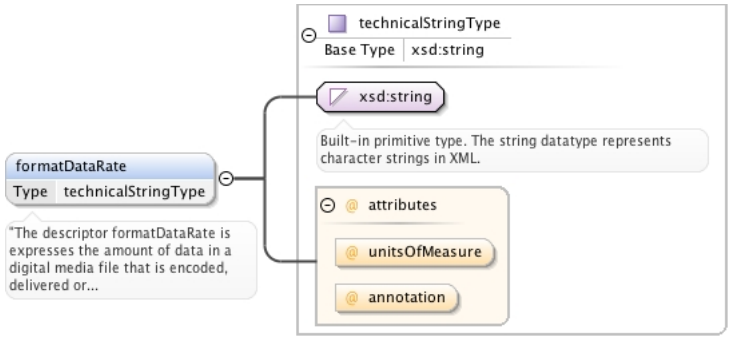
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatTimeStart provides a time stamp for the beginning point of playback for a time-based media item, such as digital video or audio. Use in combination with formatDuration to identify a sequence or segment of a 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

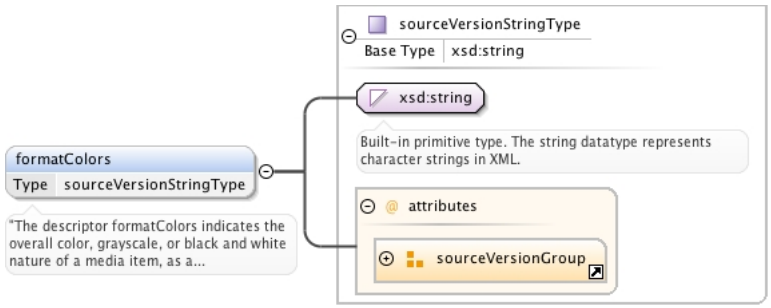
QName	Type	Fixed	Default	Use
annotation				optional
unitsOfMeasure				optional

Source

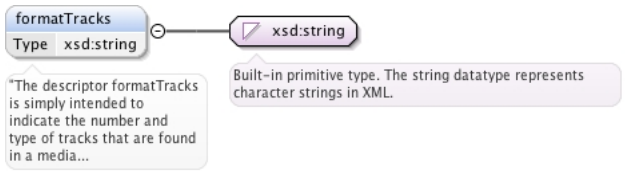
```
<xsd:element maxOccurs="1" minOccurs="0" name="formatDataRate" type="technicalStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor formatDataRate is expresses the
                    amount of data in a digital media file that is encoded, delivered or
 distributed,
                    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

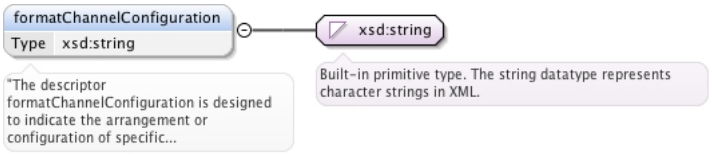
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor formatColors indicates the overall color, grayscale, or black and white nature of a media item, as a single occurrence or combination of occurrences in or throughout the media item." "Picklist at http://www.pbcore.org/PBCore/picklists/picklist_formatColors.html"

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>

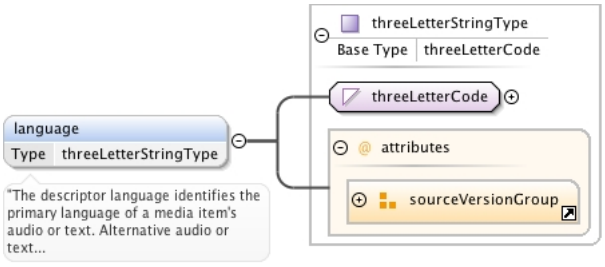
Element instantiationType / formatTracks

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

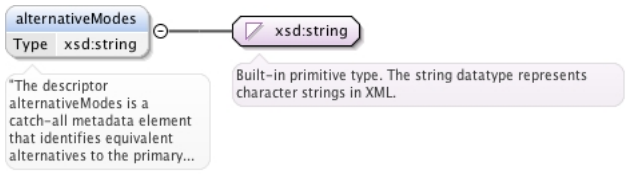
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

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>
```

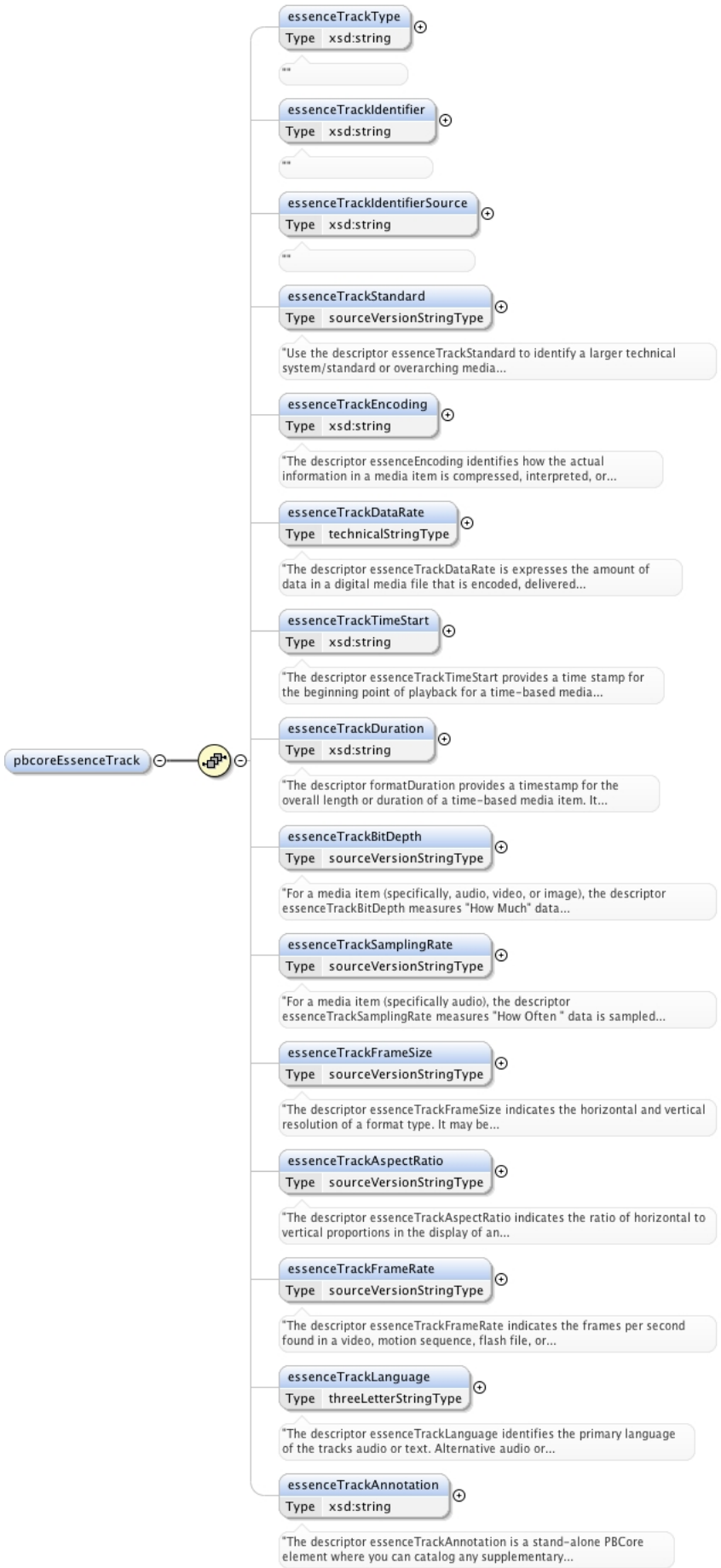
Element instantiationType / alternativeModes

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 / pbcoreEssenceTrack

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

Diagram


pbcoreEssenceTrack
essenceTrackType
Type xsd:string
""
essenceTrackIdentifier
Type xsd:string
""
essenceTrackIdentifierSource
Type xsd:string
""
essenceTrackStandard
Type sourceVersionStringType
"Use the descriptor essenceTrackStandard to identify a larger technical system/standard or overarching media...
essenceTrackEncoding
Type xsd:string
"The descriptor essenceEncoding identifies how the actual information in a media item is compressed, interpreted, or...
essenceTrackDataRate
Type technicalStringType
"The descriptor essenceTrackDataRate is expresses the amount of data in a digital media file that is encoded, delivered...
essenceTrackTimeStart
Type xsd:string
"The descriptor essenceTrackTimeStart provides a time stamp for the beginning point of playback for a time-based media...
essenceTrackDuration
Type xsd:string
"The descriptor formatDuration provides a timestamp for the overall length or duration of a time-based media item. It...
essenceTrackBitDepth
Type sourceVersionStringType
"For a media item (specifically, audio, video, or image), the descriptor essenceTrackBitDepth measures "How Much" data...
essenceTrackSamplingRate
Type sourceVersionStringType
"For a media item (specifically audio), the descriptor essenceTrackSamplingRate measures "How Often " data is sampled...
essenceTrackFrameSize
Type sourceVersionStringType
"The descriptor essenceTrackFrameSize indicates the horizontal and vertical resolution of a format type. It may be...
essenceTrackAspectRatio
Type sourceVersionStringType
"The descriptor essenceTrackAspectRatio indicates the ratio of horizontal to vertical proportions in the display of an...
essenceTrackFrameRate
Type sourceVersionStringType
"The descriptor essenceTrackFrameRate indicates the frames per second found in a video, motion sequence, flash file, or...
essenceTrackLanguage
Type threeLetterStringType
"The descriptor essenceTrackLanguage identifies the primary language of the tracks audio or text. Alternative audio or...
essenceTrackAnnotation
Type xsd:string
"The descriptor essenceTrackAnnotation is a stand-alone PBCore element where you can catalog any supplementary...

Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	essenceTrackType{0,1} , essenceTrackIdentifier{0,1} , essenceTrackIdentifierSource{0,1} , 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{0,1}
Children	essenceTrackAnnotation, essenceTrackAspectRatio, essenceTrackBitDepth, essenceTrackDataRate, essenceTrackDuration, essenceTrackEncoding, essenceTrackFrameRate, essenceTrackFrameSize, essenceTrackIdentifier, essenceTrackIdentifierSource, essenceTrackLanguage, essenceTrackSamplingRate, essenceTrackStandard, essenceTrackTimeStart, essenceTrackType

Instance

```
<pbcoreEssenceTrack>
  <essenceTrackType>{0,1}</essenceTrackType>
  <essenceTrackIdentifier>{0,1}</essenceTrackIdentifier>
  <essenceTrackIdentifierSource>{0,1}</essenceTrackIdentifierSource>
  <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>{0,1}</essenceTrackAnnotation>
</pbcoreEssenceTrack>
```

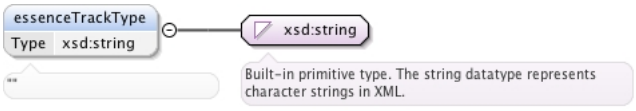
Source

```
<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreEssenceTrack">
  <xsd:complexType>
    <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>
      <!-- the pbcore essence track identifier -->
      <xsd:element maxOccurs="1" minOccurs="0" 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="0" name="essenceTrackIdentifierSource"
 type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">""</xsd:documentation>
        </xsd:annotation>
      </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>
```

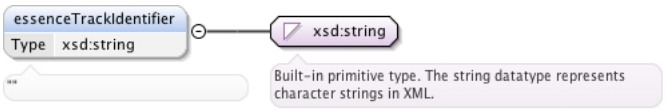
```
        </xsd:annotation>
      </xsd:element>
      <!-- the pbcore essence track frame size -->
      <xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackFrameSize"
type="sourceVersionStringType">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor essenceTrackFrameSize
                            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="1" minOccurs="0" name="essenceTrackAnnotation"
type="xsd:string">
        <xsd:annotation>
          <xsd:documentation xml:lang="en">"The descriptor essenceTrackAnnotation is a
                            stand-alone PBCore 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>
</xsd:element>
```

Element `instantiationType / pbcoreEssenceTrack / essenceTrackType`

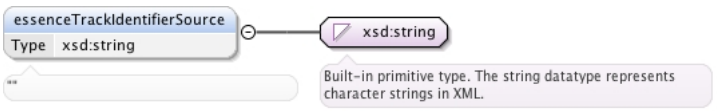
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	""
Diagram	
Type	xsd:string
Properties	content: simple

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

Element instantiationType / pbcoreEssenceTrack / essenceTrackIdentifier

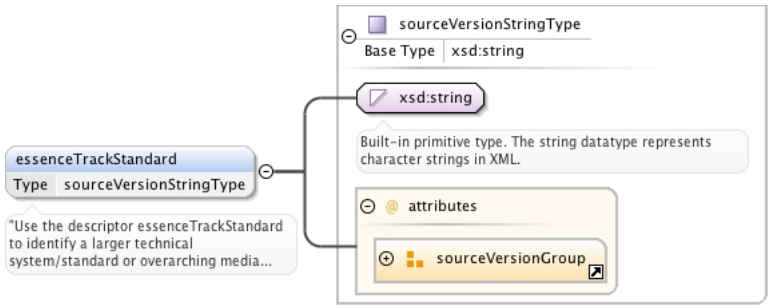
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	""
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackIdentifier" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">""</xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / pbcoreEssenceTrack / essenceTrackIdentifierSource

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	""
Diagram	
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackIdentifierSource" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">""</xsd:documentation> </xsd:annotation> </xsd:element>

Element instantiationType / pbcoreEssenceTrack / 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

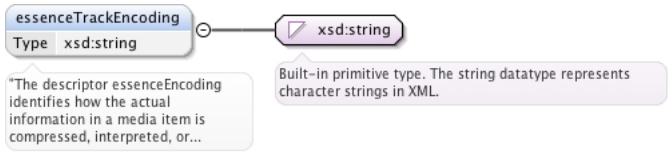
Attributes

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 instantiationType / pbcoreEssenceTrack / essenceTrackEncoding

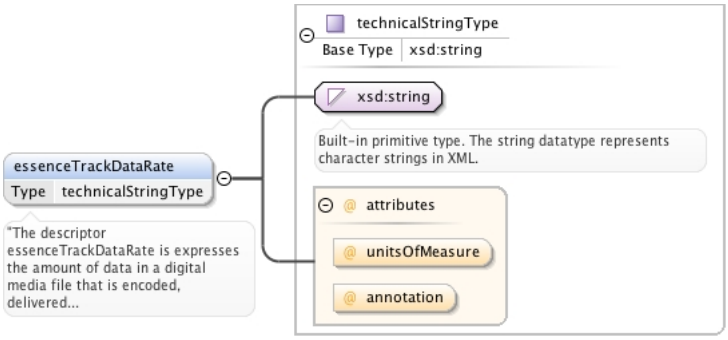
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceEncoding identifies how the actual information in a media item is compressed, interpreted, or formulated using a particular scheme. Identifying the encoding used is beneficial for a number of reasons, including 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 instantiationType / pbcoreEssenceTrack / 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

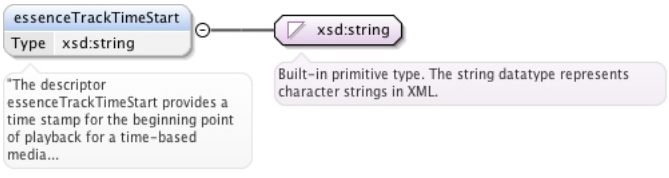
Attributes

QName	Type	Fixed	Default	Use
annotation				optional
unitsOfMeasure				optional

Source

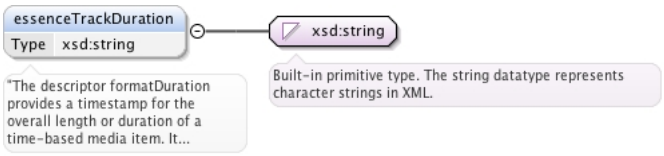
```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackDataRate"
 type="technicalStringType">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceTrackDataRate is
                                expresses the amount of data in a digital media file that is
 encoded,
                                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 instantiationType / pbcoreEssenceTrack / essenceTrackTimeStart

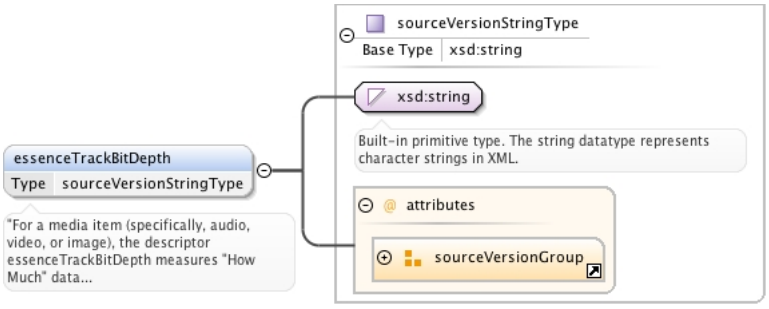
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackTimeStart provides a time stamp for the beginning point of playback for a time-based media item, such as digital video or audio. Use in combination with essenceTrackDuration to identify a sequence or segment 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 instantiationType / pbcoreEssenceTrack / 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 instantiationType / pbcoreEssenceTrack / 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

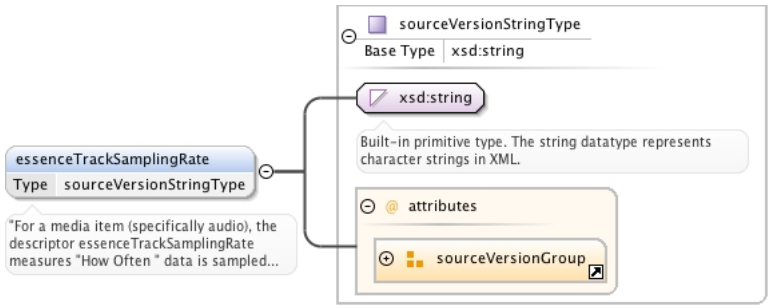
Attributes

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 instantiationType / pbcoreEssenceTrack / 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

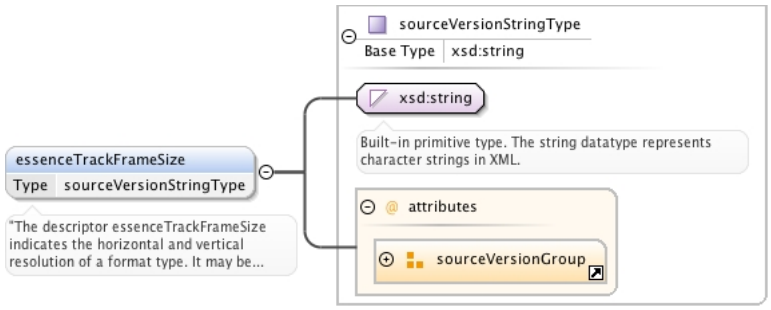
Attributes

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 instantiationType / pbcoreEssenceTrack / 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

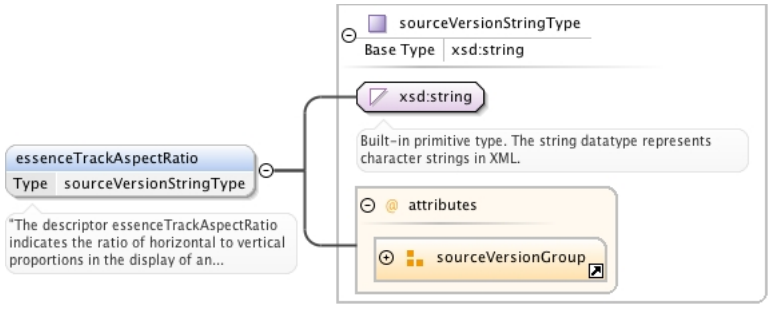
Attributes

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 instantiationType / pbcoreEssenceTrack / essenceTrackAspectRatio

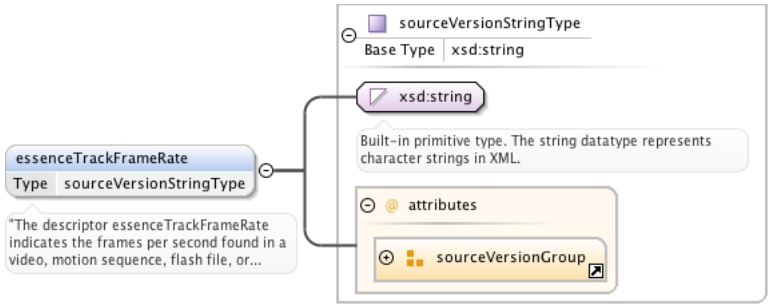
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackAspectRatio indicates the ratio of horizontal to vertical proportions in the display of an static image or moving image."
Diagram	
Type	sourceVersionStringType
Properties	content: complex

	minOccurs:	0			
	maxOccurs:	1			
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	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 instantiationType / pbcoreEssenceTrack / 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

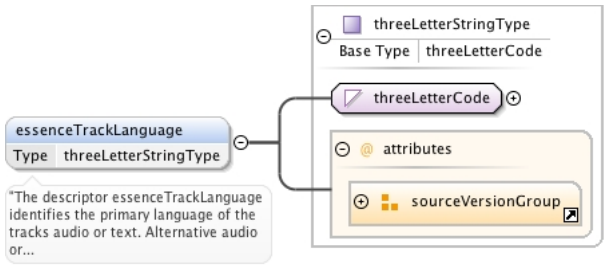
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	1			
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	annotation	xsd:string			optional
	source	xsd:string			optional
	version	xsd:string			optional

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 instantiationType / pbcoreEssenceTrack / 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

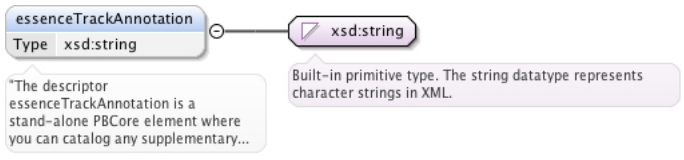
Attributes

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>
```

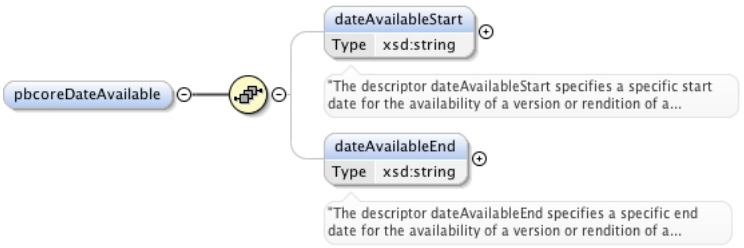
Element instantiationType / pbcoreEssenceTrack / essenceTrackAnnotation

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor essenceTrackAnnotation is a stand-alone PBCore 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	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1

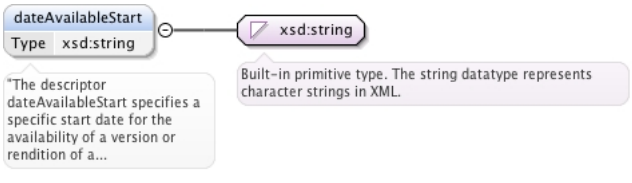
Source

```
<xsd:element maxOccurs="1" minOccurs="0" name="essenceTrackAnnotation" type="xsd:string">
  <xsd:annotation>
    <xsd:documentation xml:lang="en">"The descriptor essenceTrackAnnotation is a
                           stand-alone PBCore 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 / pbcoreDateAvailable

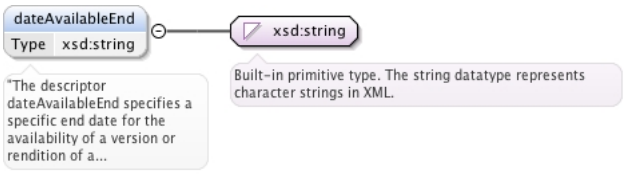
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Properties	content: complex minOccurs: 0 maxOccurs: unbounded
Model	dateAvailableStart{0,1} , dateAvailableEnd{0,1}
Children	dateAvailableEnd, dateAvailableStart
Instance	<pbcoreDateAvailable> <dateAvailableStart>{0,1}</dateAvailableStart> <dateAvailableEnd>{0,1}</dateAvailableEnd> </pbcoreDateAvailable>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreDateAvailable"> <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>

Element instantiationType / pbcoreDateAvailable / 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	

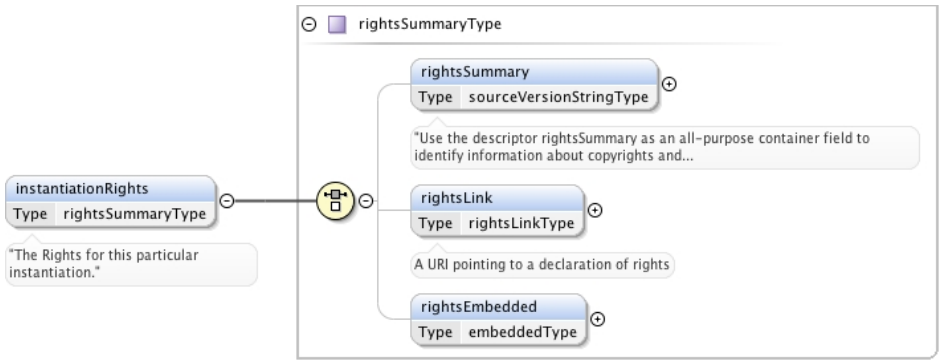
Type	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="dateAvailableStart" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor dateAvailableStart specifies a specific start date for the availability of 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 / pbcoreDateAvailable / 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

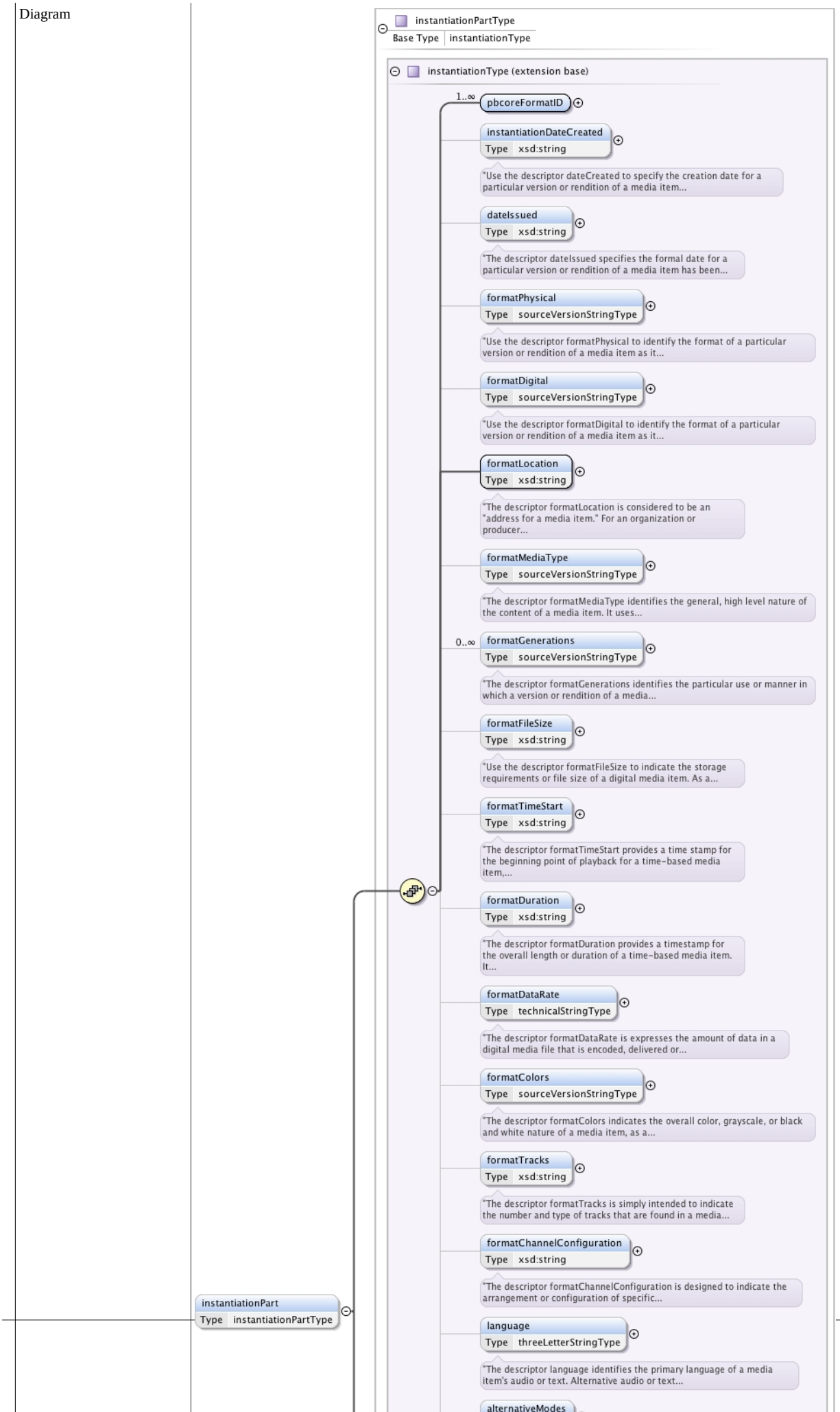
Instance	`<instantiationRights>`
	`  <rightsSummary annotation="" source="" version="">{0,1}</rightsSummary>`
	`  <rightsLink annotation="">{0,1}</rightsLink>`
	`  <rightsEmbedded annotation="">{0,1}</rightsEmbedded>`
	`</instantiationRights>`

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 / instantiationPart`

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

Diagram


instantiationPartType
Base Type instantiationType
instantiationType (extension base)
1..∞
pbcoreFormatID
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	pbcoreFormatID+ , 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} , pbcoreEssenceTrack* , pbcoreDateAvailable* , instantiationRights* , instantiationPart* , pbcoreAnnotation*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationDateCreated, instantiationPart, instantiationRights, language, pbcoreAnnotation, pbcoreDateAvailable, pbcoreEssenceTrack, pbcoreFormatID

Instance

```
<instantiationPart annotation="" relationID="" relationType="">
  <pbcoreFormatID>{1,unbounded}</pbcoreFormatID>
  <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>
  <pbcoreEssenceTrack>{0,unbounded}</pbcoreEssenceTrack>
  <pbcoreDateAvailable>{0,unbounded}</pbcoreDateAvailable>
  <instantiationRights>{0,unbounded}</instantiationRights>
  <instantiationPart annotation="" relationID="" relationType="">{0,unbounded}</
instantiationPart>
  <pbcoreAnnotation>{0,unbounded}</pbcoreAnnotation>
</instantiationPart>
```

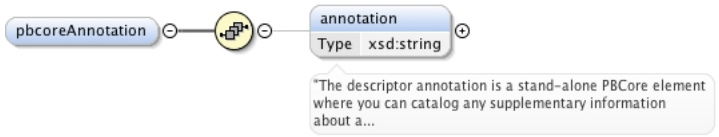
Attributes

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

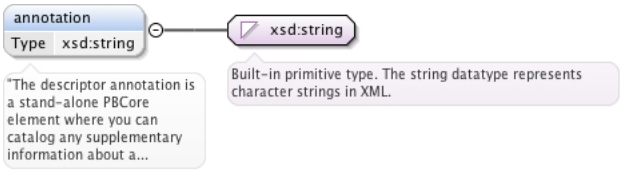
```
<xsd:element name="instantiationPart" type="instantiationPartType" maxOccurs="unbounded"
 minOccurs="0"/>
```

Element instantiationType / pbcoreAnnotation

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

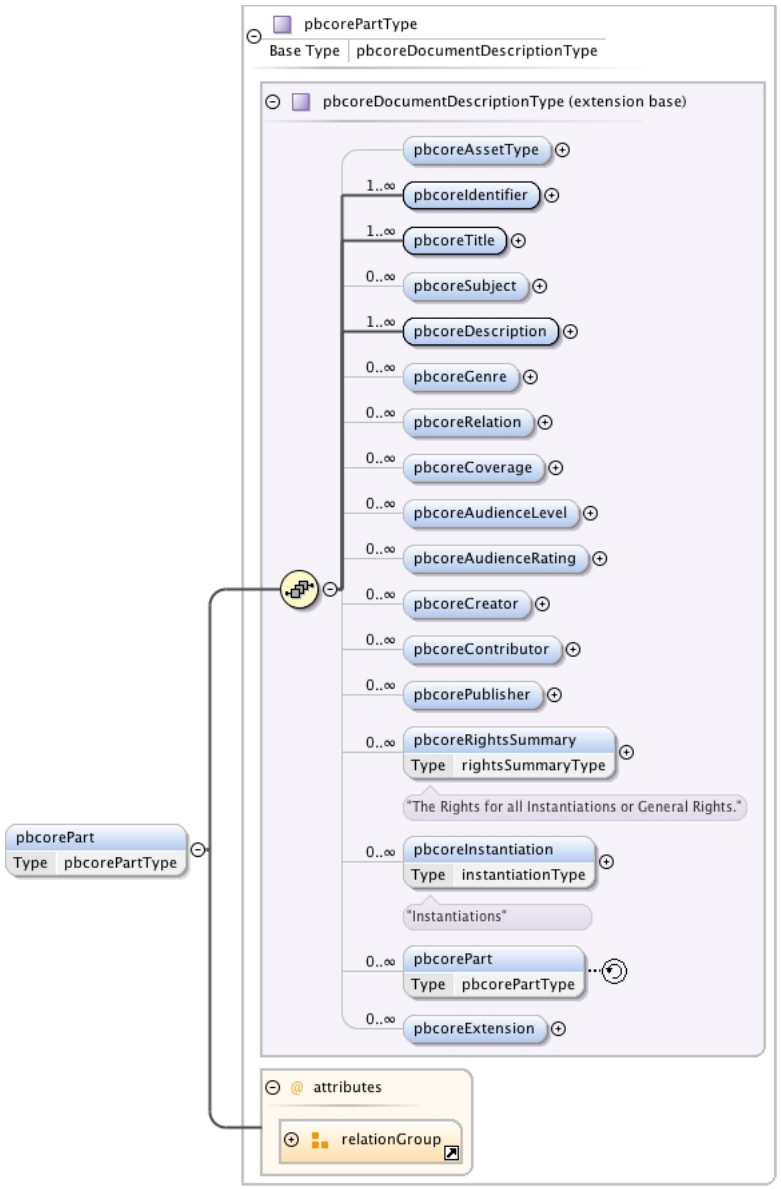
Instance	<pbcoreAnnotation> <annotation>{0,1}</annotation> </pbcoreAnnotation>
Source	<xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAnnotation"> <xsd:complexType> <xsd:sequence> <xsd:element maxOccurs="1" minOccurs="0" name="annotation" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor annotation is a stand-alone PBCore element where you can catalog any supplementary information about a 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> </xsd:sequence> </xsd:complexType> </xsd:element>

Element instantiationType / pbcoreAnnotation / annotation

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor annotation is a stand-alone PBCore element where you can catalog any supplementary information about a 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	xsd:string
Properties	content: simple minOccurs: 0 maxOccurs: 1
Source	<xsd:element maxOccurs="1" minOccurs="0" name="annotation" type="xsd:string"> <xsd:annotation> <xsd:documentation xml:lang="en">"The descriptor annotation is a stand-alone PBCore element where you can catalog any supplementary information about a 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 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{0,1} , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcorePart* , pbcoreExtension*
Children	pbcoreAssetType, pbcoreAudienceLevel, pbcoreAudienceRating, pbcoreContributor, pbcoreCoverage, pbcoreCreator, pbcoreDescription, pbcoreExtension, pbcoreGenre, pbcoreIdentifier, pbcoreInstantiation, pbcorePart, pbcorePublisher, pbcoreRelation, pbcoreRightsSummary, pbcoreSubject, pbcoreTitle
Instance	<pbcorePart annotation="" relationID="" relationType=""> <pbcoreAssetType>{0,1}</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>
  <pbcorePart annotation="" relationID="" relationType="">{0,unbounded}</pbcorePart>
  <pbcoreExtension>{0,unbounded}</pbcoreExtension>
</pbcorePart>
```

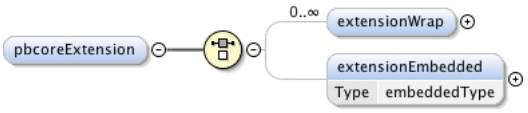
Attributes

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

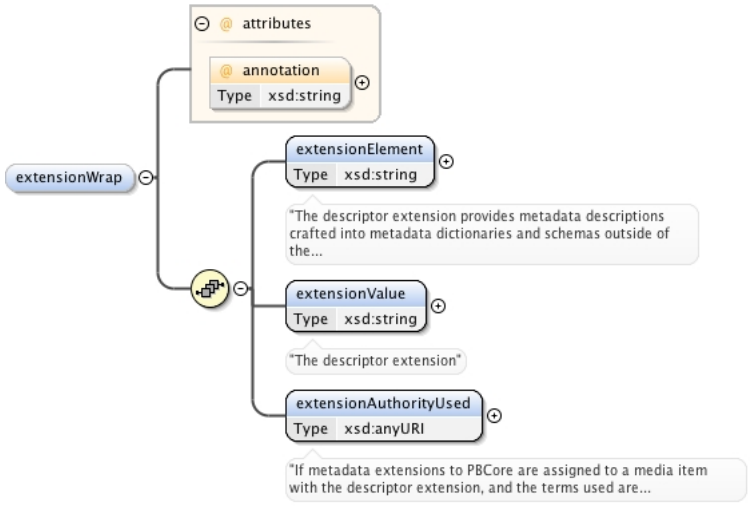
```
<pbcoreExtension>
  <extensionWrap annotation="">{0,unbounded}</extensionWrap>
  <extensionEmbedded annotation="">{0,1}</extensionEmbedded>
</pbcoreExtension>
```

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

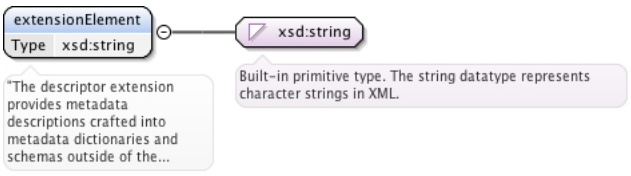
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional

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
```

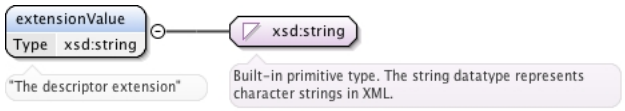
```
                                        extensions fulfill the metadata requirements for
 communities
                                        identifying and describing their own types of media
 with
                                        specialized, custom terminologies."</
xsd:documentation>
        </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

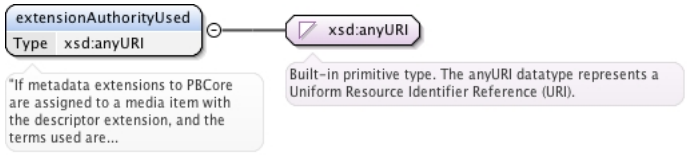
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor extension provides metadata descriptions crafted into metadata dictionaries and schemas outside of the PBCore Metadata Dictionary Project. These extensions fulfill the metadata requirements for communities identifying 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

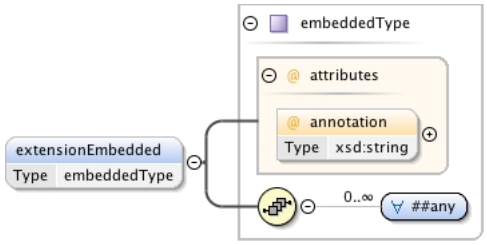
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Annotations	"The descriptor

	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>

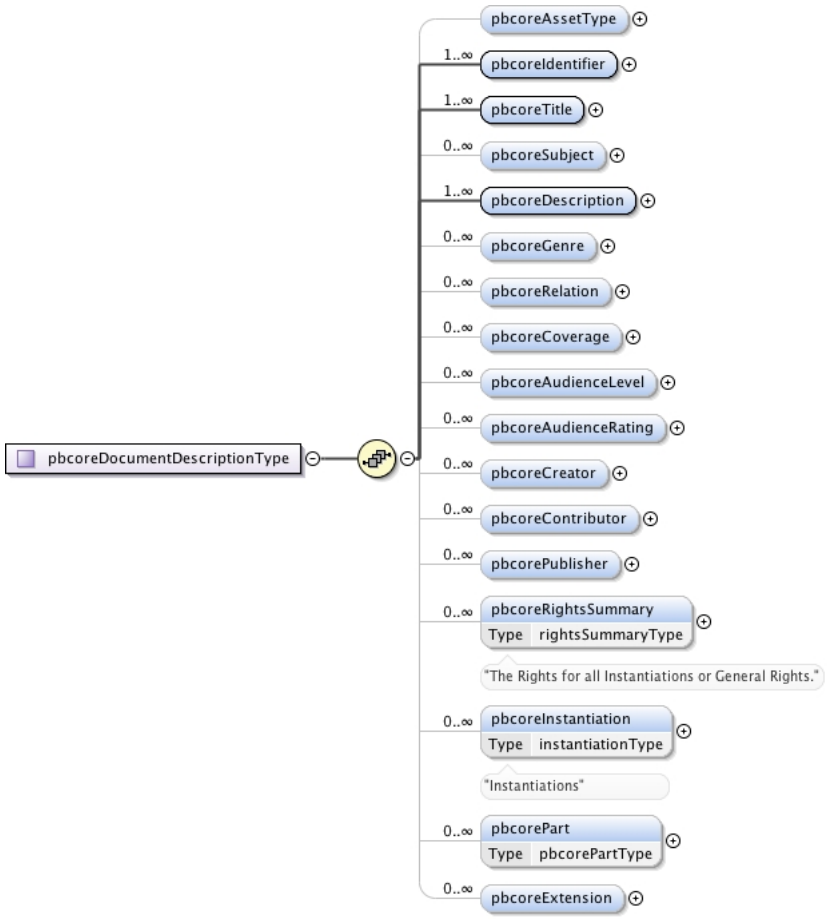
Element pbcoreDocumentDescriptionType / pbcoreExtension / extensionEmbedded

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>				

Complex Types

Complex Type `pbcoreDocumentDescriptionType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Element: PBCoreCollection/PBCoreDescriptionDocument Complex Type: pbcorePartType
Model	pbcoreAssetType{0,1} , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcorePart* , pbcoreExtension*
Children	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="1" 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="1" minOccurs="1" name="dateCreated" type="xsd:string">
            <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
```

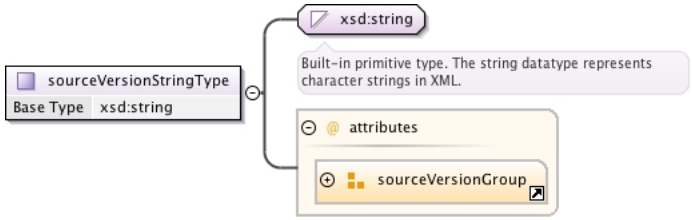
```
                        type of intellectual content bond between a media item you are
cataloging
                        and some other related media item."</xsd:documentation>
            <xsd:documentation xml:lang="en">"Picklist at
                        http://www.pbcore.org/PBCore/picklists/
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="sourceVersionStringType">
            <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>
   <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcorePart"
 type="pbcorePartType">
     <xsd:annotation>
       <xsd:documentation/>
     </xsd:annotation>
   </xsd:element>
   <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: instantiationType/formatColors, instantiationType/formatDigital, instantiationType/formatGenerations, instantiationType/formatMediaType, instantiationType/formatPhysical, instantiationType/pbcoreEssenceTrack/essenceTrackAspectRatio, instantiationType/pbcoreEssenceTrack/essenceTrackBitDepth, instantiationType/pbcoreEssenceTrack/essenceTrackFrameRate, instantiationType/pbcoreEssenceTrack/essenceTrackFrameSize, instantiationType/pbcoreEssenceTrack/essenceTrackSamplingRate, instantiationType/pbcoreEssenceTrack/essenceTrackStandard, instantiationType/pbcoreFormatID/formatIdentifierSource, pbcoreDocumentDescriptionType/pbcoreAssetType/assetType, pbcoreDocumentDescriptionType/pbcoreAudienceLevel/audienceLevel, pbcoreDocumentDescriptionType/pbcoreAudienceRating/audienceRating, pbcoreDocumentDescriptionType/pbcoreContributor/contributorRole, 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

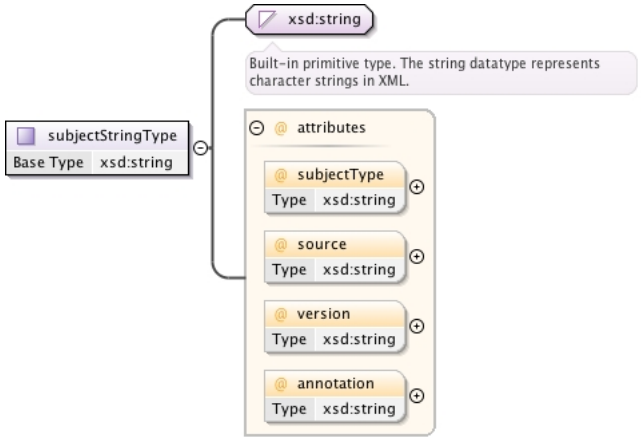
Attributes

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 `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

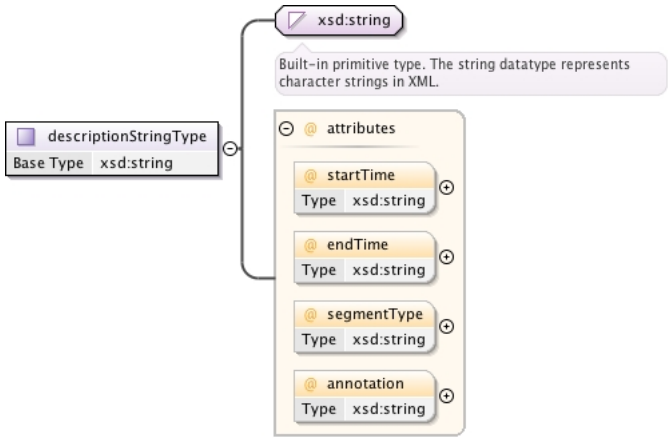
Source

```
<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

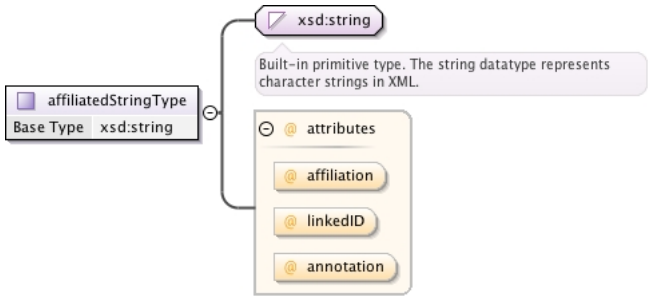
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
endTime	xsd:string			optional
segmentType	xsd:string			optional
startTime	xsd:string			optional

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

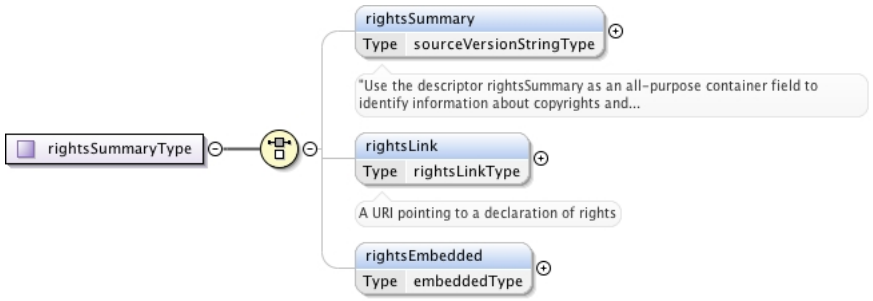
Attributes

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 `rightsSummaryType`

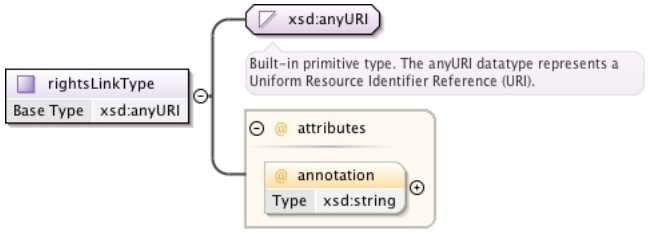
Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Elements instantiationType/instantiationRights, pbcoreDocumentDescriptionType/pbcoreRightsSummary
Model	rightsSummary{0,1} | rightsLink{0,1} | rightsEmbedded{0,1}
Children	rightsEmbedded, rightsLink, rightsSummary

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

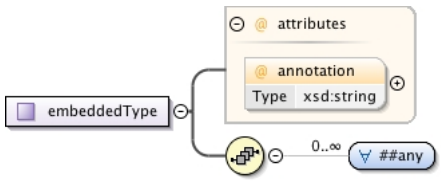
Attributes

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

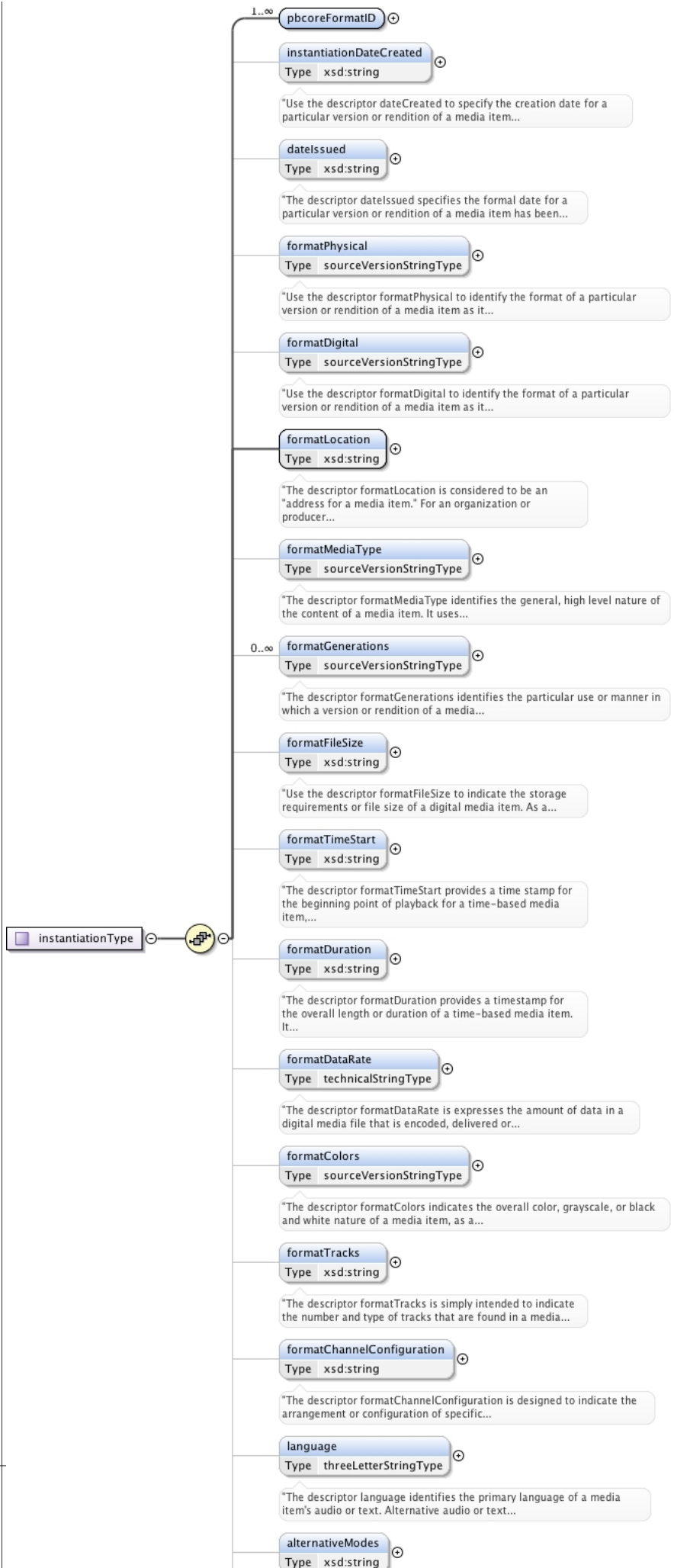
Source

```
<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..∞
pbcoreFormatID
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	pbcoreFormatID+ , 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} , pbcoreEssenceTrack* , pbcoreDateAvailable* , instantiationRights* , instantiationPart* , pbcoreAnnotation*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationDateCreated, instantiationPart, instantiationRights, language, pbcoreAnnotation, pbcoreDateAvailable, pbcoreEssenceTrack, pbcoreFormatID
Source
```
<xsd:complexType name="instantiationType">
  <xsd:sequence>
    <!-- the pbcore format identifier -->
    <xsd:element maxOccurs="unbounded" minOccurs="1" name="pbcoreFormatID">
      <xsd:complexType>
        <xsd:sequence>
          <xsd:element maxOccurs="1" minOccurs="1" name="formatIdentifier"
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="formatIdentifierSource"
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="0" name="pbcoreEssenceTrack">
    <xsd:complexType>
      <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>
        <!-- the pbcore essence track identifier -->
        <xsd:element maxOccurs="1" minOccurs="0" 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="0" name="essenceTrackIdentifierSource"
type="xsd:string">
          <xsd:annotation>
            <xsd:documentation xml:lang="en">""</xsd:documentation>
          </xsd:annotation>
        </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
```

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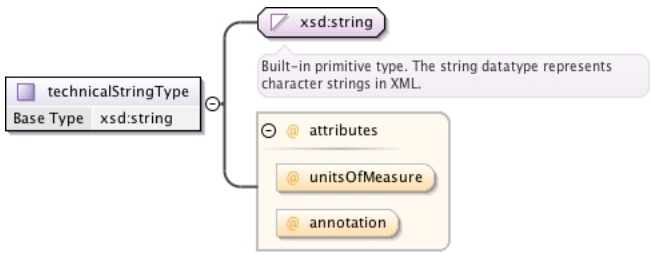
                            how the actual information in a media item is compressed,
 interpreted, or
                            formulated using a particular scheme. Identifying the encoding
 used is
                            beneficial for a number of reasons, including as a way to
 achieve
                            reversible 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="1" minOccurs="0" name="essenceTrackAnnotation"
type="xsd:string">
            <xsd:annotation>
              <xsd:documentation xml:lang="en">"The descriptor essenceTrackAnnotation is a
                        stand-alone PBCore 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>
    </xsd:element>
    <!-- the pbcore dateAvailable -->
    <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreDateAvailable">
      <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
```

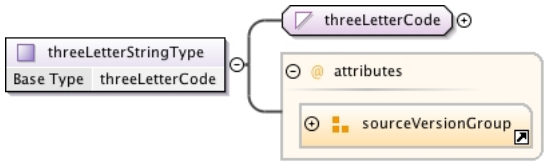
```
                              availability of a program that is broadcast locally,
 regionally,
                              nationally or internationally, or for web-based distribution. A
 specific
                              time may also be associated with the date."</xsd:documentation>
                </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>
        <!-- the pbcore annotation -->
        <xsd:element name="instantiationPart" type="instantiationPartType"
 maxOccurs="unbounded" minOccurs="0"/>
        <xsd:element maxOccurs="unbounded" minOccurs="0" name="pbcoreAnnotation">
          <xsd:complexType>
            <xsd:sequence>
              <xsd:element maxOccurs="1" minOccurs="0" name="annotation" type="xsd:string">
                <xsd:annotation>
                  <xsd:documentation xml:lang="en">"The descriptor annotation is a stand-alone
                              PBCore element where you can catalog any supplementary
 information about
                              a 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>
            </xsd:sequence>
          </xsd:complexType>
        </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 instantiationType/formatDataRate, instantiationType/pbcoreEssenceTrack/essenceTrackDataRate

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>				

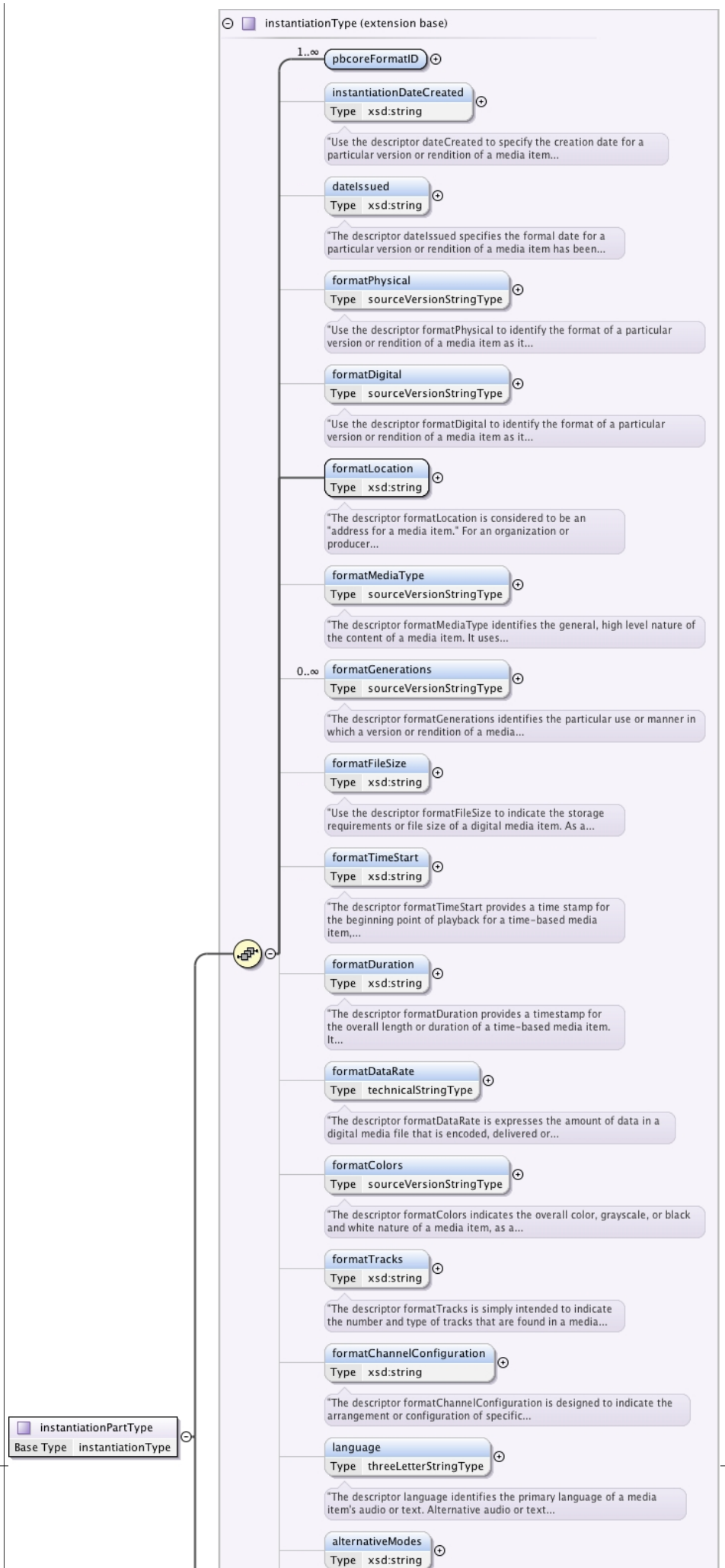
Complex Type `threeLetterStringType`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html				
Diagram					
Type	extension of threeLetterCode				
Type hierarchy	• xsd:string • threeLetterCode • threeLetterStringType				
Used by	Elements	instantiationType/language, instantiationType/pbcoreEssenceTrack/essenceTrackLanguage			
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 `instantiationPartType`

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

Diagram


instantiationType (extension base)
1..∞
pbcoreFormatID
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	pbcoreFormatID+ , 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} , pbcoreEssenceTrack* , pbcoreDateAvailable* , instantiationRights* , instantiationPart* , pbcoreAnnotation*
Children	alternativeModes, dateIssued, formatChannelConfiguration, formatColors, formatDataRate, formatDigital, formatDuration, formatFileSize, formatGenerations, formatLocation, formatMediaType, formatPhysical, formatTimeStart, formatTracks, instantiationDateCreated, instantiationPart, instantiationRights, language, pbcoreAnnotation, pbcoreDateAvailable, pbcoreEssenceTrack, pbcoreFormatID

Attributes

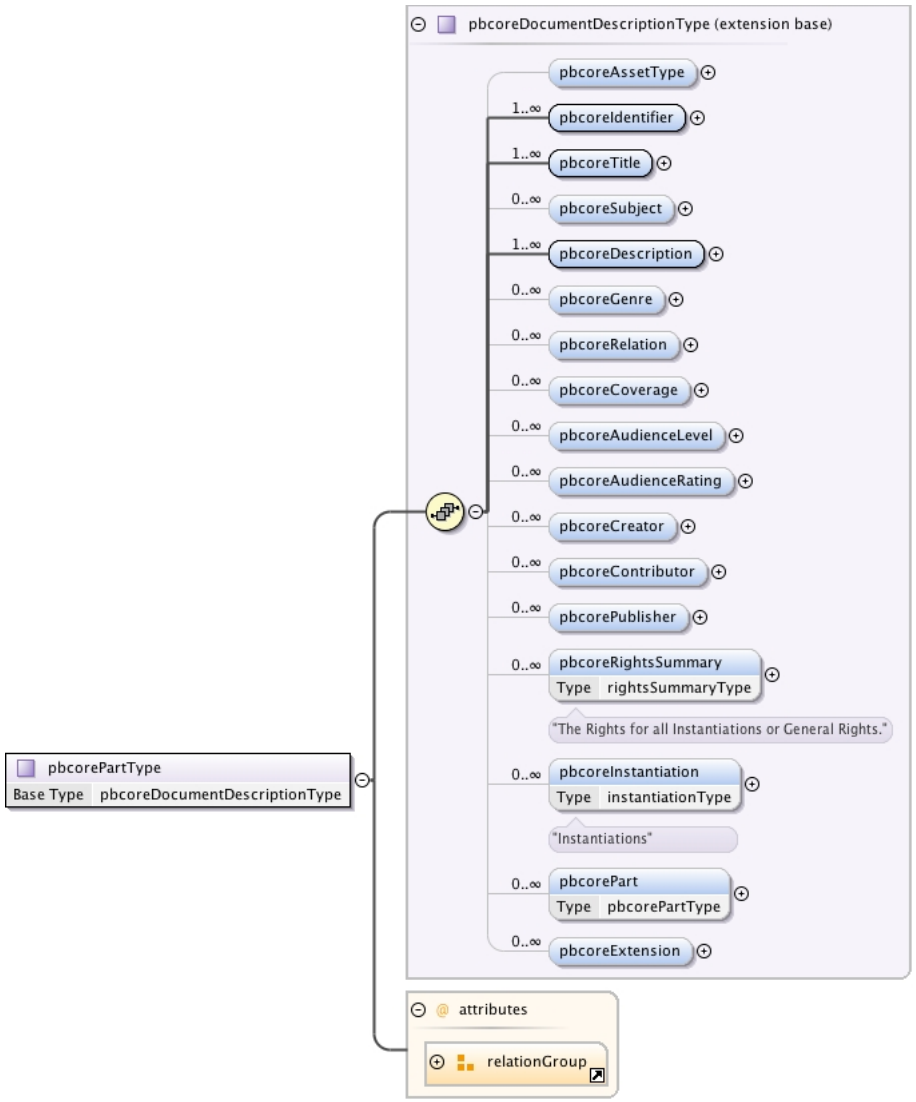
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
relationID	xsd:string			optional
	`This part is then referenced to another part."`			
relationType	xsd:string			optional
	`"This attribute relate this part to another. It could be a episode in a series or a program segment recorded on many 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{0,1} , pbcoreIdentifier+ , pbcoreTitle+ , pbcoreSubject* , pbcoreDescription+ , pbcoreGenre* , pbcoreRelation* , pbcoreCoverage* , pbcoreAudienceLevel* , pbcoreAudienceRating* , pbcoreCreator* , pbcoreContributor* , pbcorePublisher* , pbcoreRightsSummary* , pbcoreInstantiation* , pbcorePart* , pbcoreExtension*
Children	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."`			

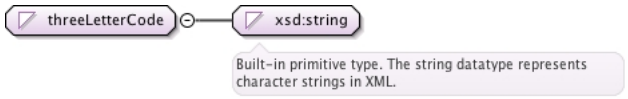
Source

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

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

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	<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>

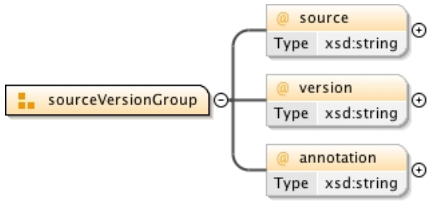
Attributes

Attribute `@schemaVersion`

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

Attribute Groups

Attribute Group `sourceVersionGroup`

Namespace	http://www.pbcore.org/PBCore/PBCoreNamespace.html
Diagram	
Used by	Complex Types sourceVersionStringType, threeLetterStringType

Attributes

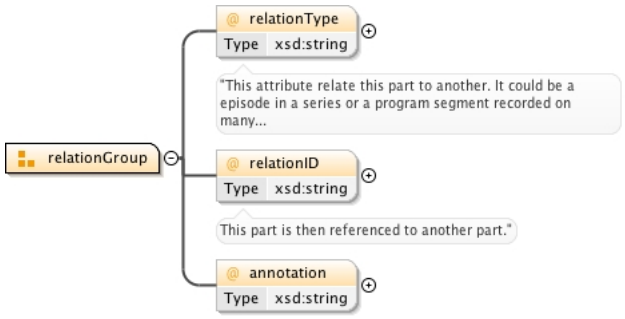
QName	Type	Fixed	Default	Use
annotation	xsd:string			optional
source	xsd:string			optional
version	xsd:string			optional

Source

```
<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>
```

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 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 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 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 PBCoreCollection / @collectionTitle

Namespace	No namespace
Type	xsd:string

Properties	content:	simple
Used by	Element	PBCoreCollection
Source	<xsd:attribute name="collectionTitle" type="xsd:string"/>	

Attribute PBCoreCollection / @collectionDescription

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

Attribute PBCoreCollection / @collectionSource

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

Attribute PBCoreCollection / @collectionLink

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

Attribute PBCoreCollection / @collectionDate

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