Schema documentation for CAVPPDC.xsd

july 13, 2015

Table of Contents

Namespace: "http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html"

Schema(s)

Main schema `CAVPPDC.xsd`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html	
Properties	attribute form default:	`unqualified`
	element form default:	`qualified`
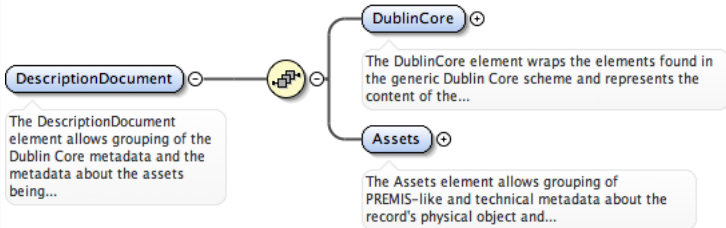
Element(s)

Element `CollectionReference`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Diagram	
Properties	content: complex
Model	DescriptionDocument
Children	DescriptionDocument

Instance	`<CollectionReference collectionSource="" projectSource="" xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">`
	  `<DescriptionDocument>`{1,1}`</DescriptionDocument>`
	`</CollectionReference>`

Attributes	QName	Type	Fixed	Default	Use
	collectionSource	xs:string			required

	QName	Type	Fixed	Default	Use
	projectSource	xs:string			required

Element `CollectionReference / DescriptionDocument`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The DescriptionDocument element allows grouping of the Dublin Core metadata and the metadata about the assets being represented.
Diagram	
Properties	content: complex
Model	DublinCore , Assets
Children	Assets, DublinCore

Instance	`<DescriptionDocument xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">`
	`  <DublinCore>{1,1}</DublinCore>`
	`  <Assets>{1,1}</Assets>`
	`</DescriptionDocument>`

Element `CollectionReference / DescriptionDocument / DublinCore`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The DublinCore element wraps the elements found in the generic Dublin Core scheme and represents the content of the object.

Diagram

DublinCore

The DublinCore element wraps the elements found in the generic Dublin Core scheme and represents the content of the...

1..∞ **title**
Type xs:string

Main or supplied title of the object.

0..∞ **creator**
Type xs:string

Person(s) or organization(s) primarily responsible for creating an object. The creator may be considered an author and...

0..∞ **subject**
Type xs:string

Please use one subject per element. Please use controlled vocabulary if applicable. Vocabularies: Library of Congress...

description
Type xs:string

Description or content summary.

0..∞ **publisher**
Type xs:string

Person(s) or organization(s) primarily responsible for distributing or making an object available to others. Publisher...

0..∞ **contributor**
Type xs:string

Person(s) or organization(s) responsible for contributing to an object. Format: Last Name, First Name. Please use one...

0..∞ **date**
Type extension of 'xs:string'

Date related. Qualified by type attribute. Format: YYYY-MM-DD, YYYY-MM, or YYYY If unknown, enter "Unknown."

type
Type xs:string

The nature or genre of the content of the object. Please use controlled vocabulary: Text; Still Image.

format
Type xs:string

Please use controlled vocabulary: Book; Broadside (notice); Drawing (visual work); Engraving (print); Lithograph;...

0..∞ **identifier**
Type extension of 'xs:string'

An unambiguous reference to the resource within the institution. For example: Call number or barcode. Qualified with...

1..∞ **source**
Type extension of 'xs:string'

Name of owning institution.

0..∞ **language**
Type xs:string

A language of the intellectual content of the object. If English, enter "eng." Please use controlled vocabulary....

relation
Type xs:string

List related Title(s) or Identifier(s) if object shares an intellectual bond with another object or belongs in a series.

1..∞ **coverage**
Type extension of 'xs:string'

Identifies a span of time or space that is expressed by the intellectual content of an object. Please use controlled...

rights
Type xs:string

Information about rights held in and over the object. Three boilerplate statements are supplied — amend the statements...

Properties	content: complex	
Model	title+ , creator* , subject* , description{0,1} , publisher* , contributor* , date* , type , format{0,1} , identifier* , source+ , language* , relation{0,1} , coverage+ , rights	
Children	contributor, coverage, creator, date, description, format, identifier, language, publisher, relation, rights, source, subject, title, type	

Instance	`<DublinCore xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">`
	  `<title>`{1,unbounded}`</title>`
	  `<creator>`{0,unbounded}`</creator>`
	  `<subject>`{0,unbounded}`</subject>`
	  `<description>`{0,1}`</description>`
	  `<publisher>`{0,unbounded}`</publisher>`
	  `<contributor>`{0,unbounded}`</contributor>`
	  `<date type="created">`{0,unbounded}`</date>`
	  `<type>`{1,1}`</type>`
	  `<format>`{0,1}`</format>`
	  `<identifier type="">`{0,unbounded}`</identifier>`
	  `<source type="" url="">`{1,unbounded}`</source>`
	  `<language>`{0,unbounded}`</language>`
	  `<relation>`{0,1}`</relation>`
	  `<coverage type="">`{1,unbounded}`</coverage>`
	  `<rights>`{1,1}`</rights>`
	`</DublinCore>`	

Element `CollectionReference / DescriptionDocument / DublinCore / title`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html	
Annotations	California Preservation Service Metadata Guidelines `Main or supplied title of the object.`	
Diagram		
Type	xs:string	
Properties	content: simple	
	maxOccurs: unbounded	

Element `CollectionReference / DescriptionDocument / DublinCore / creator`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html	

Annotations	California Preservation Service Metadata Guidelines
	
	`Person(s) or organization(s) primarily responsible for creating an object. The creator may be`
	 `considered an author and may be one or more people, a business, organization, group, project or`
	 `service.`
	
	`Format: Last Name, First Name.`
	`Please use controlled vocabulary if applicable.`
	`Please use one name per creator element.`
	`This element is a required field.`
	
	`Vocabulary: Library of Congress Name Authority File http://authorities.loc.gov/`	

Diagram		
Type	xs:string	
Properties	content: simple	
	minOccurs: 0	
	maxOccurs: unbounded	

Element `CollectionReference / DescriptionDocument / DublinCore / subject`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines

```
Please use one subject per element.
Please use controlled vocabulary if applicable.

Vocabularies:
Library of Congress Subject Headings: http://id.loc.gov/authorities/subjects.html
Library of Congress Name Authority File: http://id.loc.gov/authorities/names.html
```

Diagram	subject Type xs:string Please use one subject per element. Please use controlled vocabulary if applicable. Vocabularies: Library of Congress... xs:string Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string

Properties		
	content:	simple
	minOccurs:	0
	maxOccurs:	unbounded

Element `CollectionReference / DescriptionDocument / DublinCore / description`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines `Description or content summary.`
Diagram	description Type xs:string Description or content summary. xs:string Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string

Properties		
	content:	simple
	minOccurs:	0

Element `CollectionReference / DescriptionDocument / DublinCore / publisher`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html

Annotations	California Preservation Service Metadata Guidelines
	
	`Person(s) or organization(s) primarily responsible for distributing or making an object available to others. Publisher may be a person, a business, organization, group, project or service.`
	
	`Format: Last Name, First Name.`
	`Please use one name per publisher element.`
	`Please use controlled vocabulary if applicable.`
	`Vocabulary: Library of Congress Name Authority File http://authorities.loc.gov/`

Diagram	publisher Type xs:string Person(s) or organization(s) primarily responsible for distributing or making an object available to others. Publisher... xs:string Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string

Properties		
	content:	simple
	minOccurs:	0
	maxOccurs:	unbounded

Element `CollectionReference / DescriptionDocument / DublinCore / contributor`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html

Annotations	California Preservation Service Metadata Guidelines
	
	`Person(s) or organization(s) responsible for contributing to an object.`
	
	`Format: Last Name, First Name.`
	`Please use one name per contributor element.`

	Please use controlled vocabulary if applicable. Vocabulary: Library of Congress Name Authority File http://authorities.loc.gov/
Diagram	 contributor Type xs:string Person(s) or organization(s) responsible for contributing to an object. Format: Last Name, First Name. Please use one... xs:string Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string

Properties		
	content:	simple
	minOccurs:	0
	maxOccurs:	unbounded

Element `CollectionReference` / `DescriptionDocument` / `DublinCore` / `date`
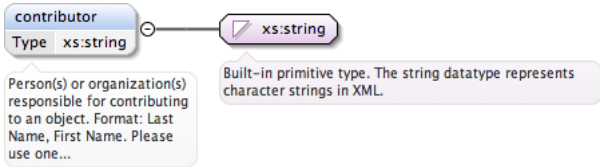
Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Date related. Qualified by type attribute. Format: YYYY-MM-DD, YYYY-MM, or YYYY If unknown, enter "Unknown."
Diagram	 xs:string Built-in primitive type. The string datatype represents character strings in XML. date Type extension of 'xs:string' Date related. Qualified by type attribute. Format: YYYY-MM-DD, YYYY-MM, or YYYY If unknown, enter "Unknown." @ attributes @ type Default created Type of date. For example: "created" or "published"
Type	extension of xs:string

Properties		
	content:	complex
	minOccurs:	0
	maxOccurs:	unbounded

Attributes	QName	Type	Fixed	Default	Use
	type			created	optional
		California Preservation Service Metadata Guidelines Type of date. For example: "created" or "published"			

Element `CollectionReference` / `DescriptionDocument` / `DublinCore` / `type`
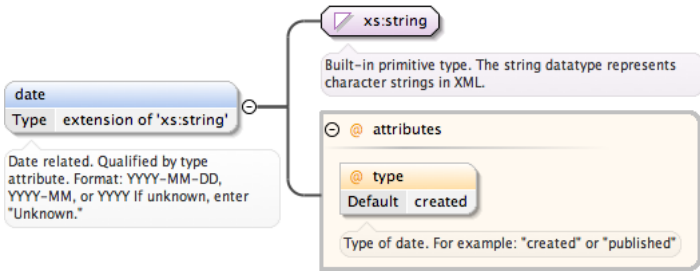
Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The nature or genre of the content of the object. Please use controlled vocabulary: Text; Still Image.
Diagram	 type Type xs:string The nature or genre of the content of the object. Please use controlled vocabulary: Text; Still Image. xs:string Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string

Properties		
	content:	simple
	minOccurs:	1

Element `CollectionReference / DescriptionDocument / DublinCore / format`
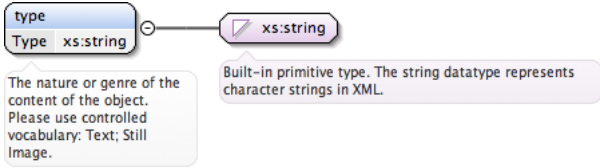
Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Please use controlled vocabulary: Book; Broadside (notice); Drawing (visual work); Engraving (print); Lithograph; Manuscript (document genre); Map (document); Newspaper; Photograph.
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element `CollectionReference / DescriptionDocument / DublinCore / identifier`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines An unambiguous reference to the resource within the institution. For example: Call number or barcode. Qualified with the type attribute.
Diagram	
Type	extension of xs:string
Properties	content: complex minOccurs: 0 maxOccurs: unbounded

Attributes	QName	Type	Fixed	Default	Use
	type				optional
		California Preservation Service Metadata Guidelines The type of the indentifier. For example "call number" or "barcode"			

Element `CollectionReference / DescriptionDocument / DublinCore / source`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Name of owning institution.
Diagram	

Type	extension of xs:string				
Properties	content:	complex			
	maxOccurs:	unbounded			
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	type	xs:string			required
	url	restriction of xs:anyURI			optional

Element `CollectionReference / DescriptionDocument / DublinCore / language`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines A language of the intellectual content of the object. If English, enter "eng." Please use controlled vocabulary. Vocabulary: ISO 639.2 Codes for Names of Languages http://www.loc.gov/standards/iso639-2/php/code_list.php
Diagram	
Type	xs:string
Properties	content: simple
	minOccurs: 0
	maxOccurs: unbounded

Element `CollectionReference / DescriptionDocument / DublinCore / relation`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines List related Title(s) or Identifier(s) if object shares an intellectual bond with another object or belongs in a series.
Diagram	
Type	xs:string
Properties	content: simple
	minOccurs: 0
	maxOccurs: 1

Element `CollectionReference / DescriptionDocument / DublinCore / coverage`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Identifies a span of time or space that is expressed by the intellectual content of an object. Please use controlled vocabulary, if applicable. Vocabulary: Library of Congress Subject Headings: http://authorities.loc.gov/ Library of Congress Extended Date/Time Format https://www.loc.gov/standards/datetime/pre-submission.html#datetime

Diagram	
Type	extension of xs:string
Properties	content: complex
	minOccurs: 1
	maxOccurs: unbounded

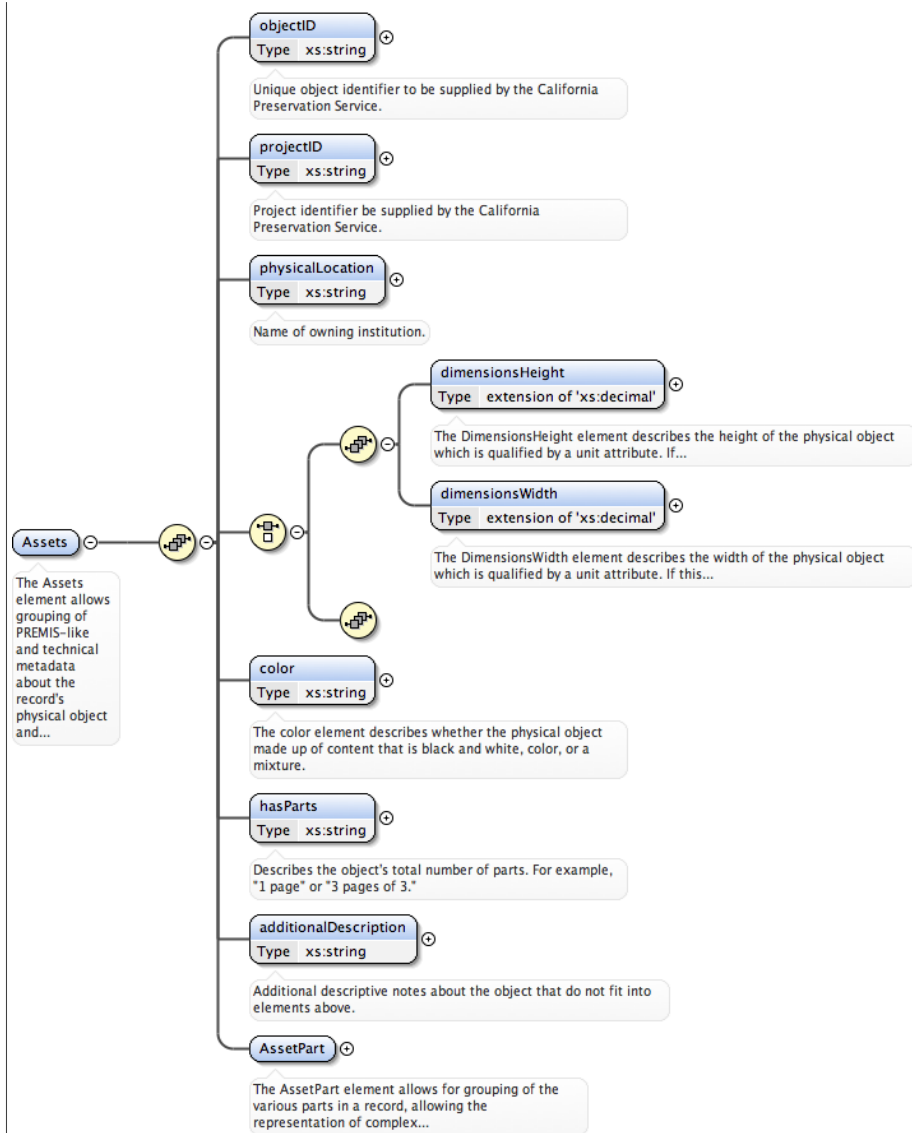| Attributes	QName	Type	Fixed	Default	Use
	type	xs:string			optional
		The type of coverage. Please use either temporal or spacial.			

Element CollectionReference / DescriptionDocument / DublinCore / rights

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	Information about rights held in and over the object.
	Three boilerplate statements are supplied — amend the statements as needed:
	1) Public domain. No restrictions on use.
	2) Copyrighted. Rights are owned by [Library/Archive or Copyright Holder]. Copyright Holder has given Institution permission to provide access to the digitized work online. Transmission or reproduction of materials protected by copyright beyond that allowed by fair use requires the written permission of the copyright owner. In addition, the reproduction of some materials may be restricted by terms of gift or purchase agreements, donor restrictions, privacy and publicity rights, licensing and trademarks. Works not in the public domain cannot be commercially exploited without permission of the copyright owner. Responsibility for any use rests exclusively with the user.
	3) Copyright status unknown. This work may be protected by the U.S. Copyright Law (Title 17, U.S.C.). In addition, its reproduction may be restricted by terms of gift or purchase agreements, donor restrictions, privacy and publicity rights, licensing and trademarks. This work is accessible for purposes of education and research. Transmission or reproduction of works protected by copyright beyond that allowed by fair use requires the written permission of the copyright owners. Works not in the public domain cannot be commercially exploited without permission of the copyright owner. Responsibility for any use rests exclusively with the user. [Library/Archive] attempted to find rights owners without success but is eager to hear from them so that we may obtain permission, if needed. Upon request to [email at Library/Archive], digitized works can be removed from public view if there are rights issues that need to be resolved.
	For more information, see project permission guidelines.
Diagram	
Type	xs:string
Properties	content: simple

Element CollectionReference / DescriptionDocument / Assets

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	The Assets element allows grouping of PREMIS-like and technical metadata about the record's physical object and object's digital surrogates.

Diagram	
Properties	content: `complex`
Model	objectID , projectID , physicalLocation , ((dimensionsHeight , dimensionsWidth) | ()) , color , hasParts , additionalDescription , AssetPart
Children	AssetPart, additionalDescription, color, dimensionsHeight, dimensionsWidth, hasParts, objectID, physicalLocation, projectID

Instance	`<Assets xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">`
	`  <objectID>{1,1}</objectID>`
	`  <projectID>{1,1}</projectID>`
	`  <physicalLocation>{1,1}</physicalLocation>`
	`  <dimensionsHeight unit="">{1,1}</dimensionsHeight>`
	`  <dimensionsWidth unit="">{1,1}</dimensionsWidth>`
	`  <color>{1,1}</color>`
	`  <hasParts>{1,1}</hasParts>`
	`  <additionalDescription>{1,1}</additionalDescription>`
	`  <AssetPart>{1,1}</AssetPart>`
	`</Assets>`

Element `CollectionReference / DescriptionDocument / Assets / objectID`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines `Unique object identifier to be supplied by the California Preservation Service.`

Diagram	
	objectID / Type xs:string / Unique object identifier to be supplied by the California Preservation Service. / xs:string / Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple

Element CollectionReference / DescriptionDocument / Assets / projectID

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	Project identifier be supplied by the California Preservation Service.
Diagram	projectID / Type xs:string / Project identifier be supplied by the California Preservation Service. / xs:string / Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple

Element CollectionReference / DescriptionDocument / Assets / physicalLocation

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	Name of owning institution.
Diagram	physicalLocation / Type xs:string / Name of owning institution. / xs:string / Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple

Element CollectionReference / DescriptionDocument / Assets / dimensionsHeight

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	The DimensionsHeight element describes the height of the physical object which is qualified by a unit attribute.
	If this is known, please include both height and width information.
Diagram	dimensionsHeight / Type extension of 'xs:decimal' / The DimensionsHeight element describes the height of the physical object which is qualified by a unit attribute. If... / xs:decimal / Built-in primitive type. The decimal datatype represents arbitrary precision decimal numbers. / @ attributes / @ unit / Type xs:string / Represent the unit used to measure the physical item. Should be a physical unit and words spelled out instead of using...
Type	extension of xs:decimal
Properties	content: complex
	minOccurs: 1

Attributes	QName	Type	Fixed	Default	Use
	unit	xs:string			required
		California Preservation Service Metadata Guidelines Represent the unit used to measure the physical item. Should be a physical unit and words spelled out instead of using abbreviations. For example: inches and centimeters.			

Element `CollectionReference / DescriptionDocument / Assets / dimensionsWidth`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The DimensionsWidth element describes the width of the physical object which is qualified by a unit attribute. If this is known, please include both height and width information.
Diagram	
Type	extension of xs:decimal
Properties	content: complex minOccurs: 1

Attributes	QName	Type	Fixed	Default	Use
	unit	xs:string			required
		California Preservation Service Metadata Guidelines Represent the unit used to measure the physical item. Should be a physical unit and words spelled out instead of using abbreviations. For example: inches and centimeters.			

Element `CollectionReference / DescriptionDocument / Assets / color`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The color element describes whether the physical object made up of content that is black and white, color, or a mixture.
Diagram	
Type	xs:string
Properties	content: simple

Element `CollectionReference / DescriptionDocument / Assets / hasParts`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Describes the object's total number of parts. For example, "1 page" or "3 pages of 3."

Diagram	

Type	xs:string
Properties	content: simple

Element `CollectionReference / DescriptionDocument / Assets / additionalDescription`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Additional descriptive notes about the object that do not fit into elements above.
Diagram	
Type	xs:string
Properties	content: simple

Element `CollectionReference / DescriptionDocument / Assets / AssetPart`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The AssetPart element allows for grouping of the various parts in a record, allowing the representation of complex object.
Diagram	
Properties	content: complex maxOccurs: 1
Model	Instantiations+
Children	Instantiations

Instance	`<AssetPart xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">`
	  `<Instantiations relationship="">{1,unbounded}</Instantiations>`
	`</AssetPart>`

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The Instantiations element allows for the grouping of all the instantiations for a given asset.
Diagram	

Properties	content:	complex
	maxOccurs:	unbounded

Model	Instantiation+
Children	Instantiation

Instance	`<Instantiations relationship="" xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">`
	  `<Instantiation generation="">{1,unbounded}</Instantiation>`
	`</Instantiations>`

Attributes	QName	Type	Fixed	Default	Use
	relationship				required

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Diagram	

Properties	content:	complex
	maxOccurs:	unbounded

Model	fileName , fileSize , checksum , derivedFrom , Technical
Children	Technical, checksum, derivedFrom, fileName, fileSize

Instance	`<Instantiation generation="" xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">`
	  `<fileName>{1,1}</fileName>`
	  `<fileSize unit="">{1,1}</fileSize>`
	  `<checksum type="">{1,1}</checksum>`
	  `<derivedFrom>{1,1}</derivedFrom>`
	  `<Technical>{1,1}</Technical>`
	`</Instantiation>`

Attributes	QName	Type	Fixed	Default	Use
	generation	xs:string			required

		California Preservation Service Metadata Guidelines
		
		`Represents the generation and use classification of the file.`
		`The most common values used will be Preservation and Access.`			

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / fileName`
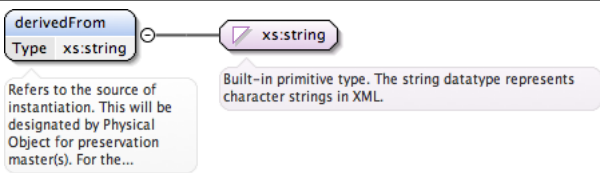
Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	Name of the digital file with the file extension.
Diagram	
Type	extension of xs:string
Properties	content: complex

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / fileSize`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	The size of the digital file as a decimal or a whole number only. Qualified by a file size unit attribute.
Diagram	
Type	extension of xs:decimal
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use
	unit				optional
		California Preservation Service Metadata Guidelines			
		Unit should contain the full name and not an abbreviation. For example: megabytes instead of MB.			

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / checksum`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines
	Contains the hash value of a checksum verification algorithm. Qualified by a type attribute.
Diagram	
Type	extension of xs:string
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use
	type				optional
		Represents the type of checksum algorthim used. For example: MD5			

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / derivedFrom`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Refers to the source of instantiation. This will be designated by Physical Object for preservation master(s). For the access file(s), this will specify the file name it was derived from.
Diagram	
Type	xs:string
Properties	content: simple

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html

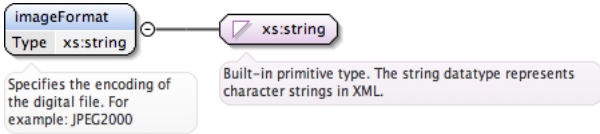| Diagram	
Properties	content: complex
Model	fileFormat , imageFormat , resolutionWidth , resolutionHeight , colorSpace , chromaSubsampling{0,1} , colorDepth , compressionMode , additionalTechnicalNotes{0,1}
Children	additionalTechnicalNotes, chromaSubsampling, colorDepth, colorSpace, compressionMode, fileFormat, imageFormat, resolutionHeight, resolutionWidth

Instance	```xml
	<Technical xmlns="http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html">
	  <fileFormat>{1,1}</fileFormat>
	  <imageFormat>{1,1}</imageFormat>
	  <resolutionWidth unit="">{1,1}</resolutionWidth>
	  <resolutionHeight unit="">{1,1}</resolutionHeight>
	  <colorSpace>{1,1}</colorSpace>
	  <chromaSubsampling>{0,1}</chromaSubsampling>
	  <colorDepth unit="">{1,1}</colorDepth>
	  <compressionMode>{1,1}</compressionMode>
	  <additionalTechnicalNotes>{0,1}</additionalTechnicalNotes>
	</Technical>
	``

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / fileFormat`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Specifies the MIME type of the file.
Diagram	

Type	xs:string
Properties	content: simple

Element CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / imageFormat
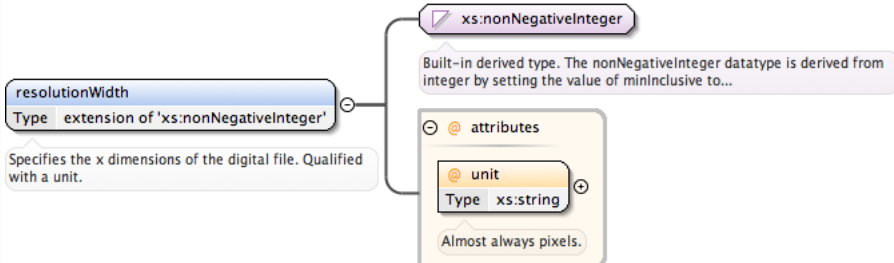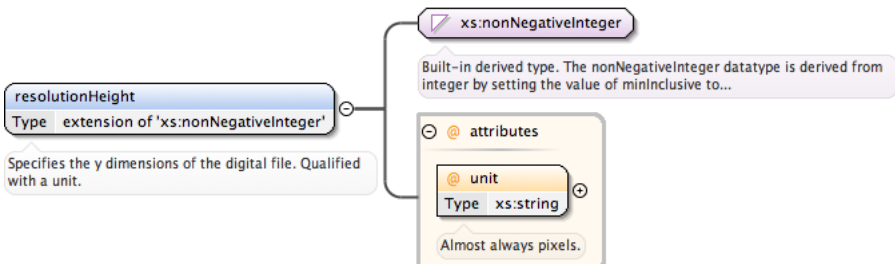
Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Specifies the encoding of the digital file. For example: JPEG2000
Diagram	 imageFormat Type xs:string — xs:string Specifies the encoding of the digital file. For example: JPEG2000 Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Properties	content: simple

Element CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / resolutionWidth

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Specifies the x dimensions of the digital file. Qualified with a unit.
Diagram	 xs:nonNegativeInteger Built-in derived type. The nonNegativeInteger datatype is derived from integer by setting the value of minInclusive to... resolutionWidth Type extension of 'xs:nonNegativeInteger' Specifies the x dimensions of the digital file. Qualified with a unit. @ attributes @ unit Type xs:string Almost always pixels.
Type	extension of xs:nonNegativeInteger
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use
	unit	xs:string			required
		California Preservation Service Metadata Guidelines Almost always pixels.			

Element CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / resolutionHeight
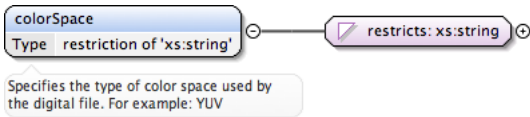
Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Specifies the y dimensions of the digital file. Qualified with a unit.
Diagram	 xs:nonNegativeInteger Built-in derived type. The nonNegativeInteger datatype is derived from integer by setting the value of minInclusive to... resolutionHeight Type extension of 'xs:nonNegativeInteger' Specifies the y dimensions of the digital file. Qualified with a unit. @ attributes @ unit Type xs:string Almost always pixels.

Type	extension of xs:nonNegativeInteger				
Properties	content: complex				
Attributes	**QName**	**Type**	**Fixed**	**Default**	**Use**
	unit	xs:string			required
		California Preservation Service Metadata Guidelines			
		Almost always pixels.			

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / colorSpace`
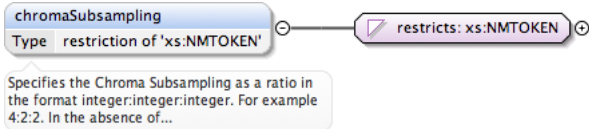
Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Specifies the type of color space used by the digital file. For example: YUV
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / chromaSubsampling`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines Specifies the Chroma Subsampling as a ratio in the format integer:integer:integer. For example 4:2:2. In the absence of subsampling, the value of this element is 4:4:4.
Diagram	
Type	restriction of xs:NMTOKEN
Properties	content: simple minOccurs: 0
Facets	pattern (\c+) & (\d+:\d+:\d+)

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / colorDepth`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines The bit depth per channel. Qualified with a unit.

Diagram	
Type	extension of xs:nonNegativeInteger
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use
	unit	xs:string			required
		California Preservation Service Metadata Guidelines `Almost always bits.`			

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / compressionMode`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html

Annotations	California Preservation Service Metadata Guidelines
	
	`Designates the type of compression.`
	
	`Please use only Lossless, Lossy, Uncompressed, or Unknown.`

Diagram	
Type	restriction of xs:string
Properties	content: simple

Facets	enumeration	`Lossless`
	enumeration	`Lossy`
	enumeration	`Uncompressed`
	enumeration	`Unknown`

Element `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / additionalTechnicalNotes`

Namespace	http://calpreservation.org/projects/audiovisual-preservation/cavppdcscheme.html
Annotations	California Preservation Service Metadata Guidelines `Additional techincal notes about the file that do not fit into elements above.`
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Namespace: ""

Attribute(s)

Attribute `CollectionReference / DescriptionDocument / DublinCore / date / @type`

Namespace	No namespace
Annotations	California Preservation Service Metadata Guidelines Type of date. For example: "created" or "published"
Properties	default: created
Used by	Element CollectionReference/DescriptionDocument/DublinCore/date

Attribute `CollectionReference / DescriptionDocument / DublinCore / identifier / @type`

Namespace	No namespace
Annotations	California Preservation Service Metadata Guidelines The type of the indentifier. For example "call number" or "barcode"
Used by	Element CollectionReference/DescriptionDocument/DublinCore/identifier

Attribute `CollectionReference / DescriptionDocument / DublinCore / source / @url`

Namespace	No namespace
Type	restriction of xs:anyURI
Properties	content: simple
Facets	pattern https?://.+
Used by	Element CollectionReference/DescriptionDocument/DublinCore/source

Attribute `CollectionReference / DescriptionDocument / DublinCore / source / @type`

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element CollectionReference/DescriptionDocument/DublinCore/source

Attribute `CollectionReference / DescriptionDocument / DublinCore / coverage / @type`

Namespace	No namespace
Annotations	The type of coverage. Please use either temporal or spacial.
Type	xs:string
Properties	content: simple
Used by	Element CollectionReference/DescriptionDocument/DublinCore/coverage

Attribute `CollectionReference / DescriptionDocument / Assets / dimensionsHeight / @unit`

Namespace	No namespace
Annotations	California Preservation Service Metadata Guidelines Represent the unit used to measure the physical item. Should be a physical unit and words spelled out instead of using abbreviations. For example: inches and centimeters.

Type	xs:string	
Properties	use:	required
Used by	Element	CollectionReference/DescriptionDocument/Assets/dimensionsHeight

Attribute `CollectionReference / DescriptionDocument / Assets / dimensionsWidth / @unit`

Namespace	No namespace	
Annotations	California Preservation Service Metadata Guidelines Represent the unit used to measure the physical item. Should be a physical unit and words spelled out instead of using abbreviations. For example: inches and centimeters.	
Type	xs:string	
Properties	use:	required
Used by	Element	CollectionReference/DescriptionDocument/Assets/dimensionsWidth

Attribute `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / fileSize / @unit`

Namespace	No namespace	
Annotations	California Preservation Service Metadata Guidelines Unit should contain the full name and not an abbreviation. For example: megabytes instead of MB.	
Used by	Element	CollectionReference/DescriptionDocument/Assets/AssetPart/Instantiations/Instantiation/fileSize

Attribute `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / checksum / @type`

Namespace	No namespace	
Annotations	Represents the type of checksum algorthim used. For example: MD5	
Used by	Element	CollectionReference/DescriptionDocument/Assets/AssetPart/Instantiations/Instantiation/checksum

Attribute `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / resolutionWidth / @unit`

Namespace	No namespace	
Annotations	California Preservation Service Metadata Guidelines Almost always pixels.	
Type	xs:string	
Properties	use:	required
Used by	Element	CollectionReference/DescriptionDocument/Assets/AssetPart/Instantiations/Instantiation/Technical/resolutionWidth

Attribute `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / resolutionHeight / @unit`

Namespace	No namespace	
Annotations	California Preservation Service Metadata Guidelines Almost always pixels.	
Type	xs:string	
Properties	use:	required
Used by	Element	CollectionReference/DescriptionDocument/Assets/AssetPart/Instantiations/Instantiation/Technical/resolutionHeight

Attribute `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / Technical / colorDepth / @unit`

Namespace	No namespace
Annotations	California Preservation Service Metadata Guidelines `Almost always bits.`
Type	xs:string
Properties	use: required
Used by	Element CollectionReference/DescriptionDocument/Assets/AssetPart/Instantiations/Instantiation/Technical/colorDepth

Attribute `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / Instantiation / @generation`

Namespace	No namespace

Annotations	California Preservation Service Metadata Guidelines
	
	`Represents the generation and use classification of the file.`
	`The most common values used will be Preservation and Access.`

Type	xs:string
Properties	use: required
Used by	Element CollectionReference/DescriptionDocument/Assets/AssetPart/Instantiations/Instantiation

Attribute `CollectionReference / DescriptionDocument / Assets / AssetPart / Instantiations / @relationship`

Namespace	No namespace
Properties	use: required
Used by	Element CollectionReference/DescriptionDocument/Assets/AssetPart/Instantiations

Attribute `CollectionReference / @collectionSource`

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element CollectionReference

Attribute `CollectionReference / @projectSource`

Namespace	No namespace
Type	xs:string
Properties	use: required
Used by	Element CollectionReference