



# Code List Representation (Genericode) Version 1.0

## Committee Specification 01

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<http://docs.oasis-open.org/codelist/ns/rule/1.0/> (rule annotations in genericcode Schema)

**Abstract:**

This document describes the OASIS Code List Representation model and W3C XML Schema, known collectively as “*genericcode*”<sup>1</sup>.

**Status:**

This document was last revised or approved by the Code List Representation TC on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at <http://www.oasis-open.org/committees/codelist/>.

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The non-normative errata page for this specification is located at <http://www.oasis-open.org/committees/codelist/>.

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<sup>1</sup>Genericcode can be written starting either with an upper-case or lower-case “g”. It depends whether genericcode is at the start of the sentence or not.

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# 1 Introduction

Code lists, or enumerated values, have been with us since long before computers. They should be well understood and easily dealt with by now. Unfortunately, they are not. As is often the case, if you take a fundamentally simple concept, you find that everyone professes to understand it with complete clarity. When you look more closely, you find that everybody has their own unique view of what the problem is and how it should be solved.

If code lists were really so simple and obvious, there would already be a single, well-known and accepted way of handling them in XML. There is no such agreed solution, though. The problem is that while code lists are a well understood concept, people don't actually agree exactly on what code lists are, and how they should be used.

The OASIS Code List Representation format, "*genericode*", is a single model and XML format (with a W3C XML Schema) that can encode a broad range of code list information. The XML format is designed to support interchange or distribution of machine-readable code list information between systems. Note that *genericode* is **not** designed as a run-time format for accessing code list information, and is not optimized for such usage. Rather, it is designed as an interchange format that can be transformed into formats suitable for run-time usage, or loaded into systems that perform run-time processing using code list information.

This version 1.0 of *genericode* implements the "Version 1.0 Requirements" from the OASIS Code List Representation Requirements document, version 1.0.1 (<http://docs.oasis-open.org/codelist/genericode-1.0/doc/oasis-code-list-representation-requirements-1.0.1.pdf>). The requirements document also lists requirements for future versions of *genericode*, which will not be discussed further in this version of this document.

## 1.1 Terminology

The keywords "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this specification are to be interpreted as described in IETF RFC 2119.

## 1.2 Normative References

- [RFC 2119] S. Bradner. *Key words for use in RFCs to Indicate Requirement Levels*. IETF RFC 2119, March 1997. <http://www.ietf.org/rfc/rfc2119.txt>.
- [WXSTYPES] Paul V. Biron and Ashok Malhotra (Eds), *XML Schema Part 2: Datatypes Second Edition*. 28 October 2004. <http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/>

## 1.3 Non-normative References

- [XML2004] Anthony B. Coates. *Why are simple code lists so complex?* XML 2004 Conference. <http://www.idealliance.org/proceedings/xml04/abstracts/paper86.html>

---

## 2 What is a Code List?

*This section is non-normative.*

What is a code list, then? Most people would agree that the following is a code list:

```
{ 'SUN', 'MON', 'TUE', 'WED', 'THU', 'FRI', 'SAT' }
```

*Example 1: Days of the week: English, uppercase*

This is a perfectly reasonable set of alphabetic codes for representing days of the week. However, so is:

```
{ 'Sun', 'Mon', 'Tue', 'Wed', 'Thu', 'Fri', 'Sat' }
```

*Example 2: Days of the week: English, mixed case*

These two code lists are similar, but certainly not identical. That said, they can both be used to represent the days of the week. Of course, you could also use:

```
{ 'Dim', 'Lun', 'Mar', 'Mer', 'Jeu', 'Ven', 'Sam' }
```

*Example 3: Days of the week: French, mixed case*

which is created from abbreviations for the days of the week in French. Then again, you could use:

```
{ 0, 1, 2, 3, 4, 5, 6 }
```

*Example 4: Days of the week: numeric*

which is suitable as a computer representation, e.g. for a database column. On the other hand:

```
{ 'S', 'M', 'T', 'W', 'T', 'F', 'S' }
```

*Example 5: Days of the week: English, single character*

is not suitable as a code list for the days of the week, because the values are not unique.

Now suppose that you are using codes to represent days of the week in an application, and you are displaying the days of the week using 3-letter abbreviations in English or French. In that context, should [Example 2](#) and [Example 3](#) be considered to be code lists, or should they be considered to be display values that would be keyed to either the [Example 1](#) or [Example 4](#) codes? The fact is, they could be either code lists or display values. A value which is a code in one context might only be an associated value for that code in another context. Nothing privileges any of these code lists over the others in terms of ability or suitability to be the code list (except the [Example 5](#) values which are not suitable). There is a choice of code lists that can be used, and the answer to the question "which choice is the best?" depends on the needs of each particular situation.

What the above examples show is that for each *distinct entry* in a code list, there are many possible associated values (we use the term *distinct entry* to express the idea that we are talking a single item that needs to be represented in the code list, rather than about the code value(s) that can be used to identify that item). Some of those associated values are suitable for use in code lists, some are not. This leads to a tabular model, where each row of the table represents a conceptual code, and each column represents an associated value (code list metadata), as follows:

Numeric (key)	English, uppercase (key)	English, mixed case (key)	French, mixed case (key)	English, single character
0	SUN	Sun	Dim	S
1	MON	Mon	Lun	M
2	TUE	Tue	Mar	T
3	WED	Wed	Mer	W
4	THU	Thu	Jeu	T
5	FRI	Fri	Ven	F
6	SAT	Sat	Sam	S

Table 1: Days of the week

Notice that the first 4 of the 5 columns have been labeled as “key” columns. This means that the values in those columns can be used to uniquely identify the rows, and hence they can be used as code list values. The term *key* is used here similarly to a relational database table.

This is the most common case, where a single column can be used as a key. However, consider the following modification:

Numeric (key)	English, uppercase (key)	English, single character #1	English, single character #2
0	SUN	S	U
1	MON	M	O
2	TUE	T	U
3	WED	W	E
4	THU	T	H
5	FRI	F	R
6	SAT	S	A

Table 2: Days of the week, version 2

Here, the first two columns are each a key column. The last two columns are not individually key columns, but together they form a *compound key*, i.e. while the individual columns do not contain unique values, the pair of values is unique within each row. This is again similar to what happens in some relational databases, that a key for the rows need not be constructed from a single column, but instead may be constructed by combining two or more columns.

Finally, there is no reason why a column should only contain simple values like strings or numbers. A column could also contain a complex compound group of data, such as a fragment of XML:

Numeric (key)	English, uppercase (key)	XHTML
0	SUN	<a href="http://days.of.week/SUN"><b>Sunday</b></a>
1	MON	<a href="http://days.of.week/MON"><i>Monday</i></a>
2	TUE	<a href="http://days.of.week/TUE"><b>Tuesday</b></a>
3	WED	<a href="http://days.of.week/WED"><i>Wednesday</i></a>
4	THU	<a href="http://days.of.week/THU"><b>Thursday</b></a>
5	FRI	<a href="http://days.of.week/FRI"><i>Friday</i></a>
6	SAT	<a href="http://days.of.week/SAT"><b>Saturday</b></a>

Table 3: Days of the week, version 3

Notice that the final XHTML column is not marked as a key column. The values are unique, so it certainly could be used as a key column. However, sometimes you may not wish to mark a column as a key column, even if the values are unique. The values in the column may not make particularly suitable keys. They might be too long to process quickly and conveniently, or they might not be able to be used in a particular context, such as for an XML attribute value. Also, it may be that while the values in a particular column are unique now, there is no guarantee or expectation that they will remain unique as the code list grows or changes in the future.

Once you see the tabular nature that underlies the information that can be associated with code lists, it becomes clear why they can be a source of so much debate. Different users need different subsets of the code list information, and people often assume that the information they need is all the information that anyone needs.

That kind of thinking doesn't work well with code lists, because code lists are sufficiently generic a concept that they are used across messages/documents, applications, and databases. The code list details that you need for the XML schemas often will not be exactly the same as the details that you need for your database or your application. If the code list information cannot be shared easily across these different areas, the result is duplication of effort and potential loss of synchronization between different implementations of the same code list.

The XML schema may only require a set of 3-letter codes to represent the code list. The database may require a set of numeric codes, plus display labels (possibly in different languages). The application may need to know which 3-letter code corresponds to which numeric code, so that it can process the XML and update the database. Also, some information related to a code list might not be appropriate for the XML format. For example, if you have a different image file for each code, it isn't ideal to include this image inline in the code list XML, since it vastly increases the size of the XML, and makes it more difficult to read. So in an XML representation, you are more likely to include some reference (e.g. a URL) to the image. For a database, however, it may be feasible to store the image in a BLOB<sup>1</sup> column in a database.

One last piece of experience from databases is that support for undefined values will be required. Sometimes users will have values that need to be associated with some of the codes in a code list, but won't have values to associate with every code. In that case, the concept of a undefined (nil or null) value is needed.

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<sup>1</sup>Binary Large Object.



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## 3 Genericode Model & XML Format

*The text of this section is normative. The illustrations, Schema subsets and examples are not normative.*

This section describes the genericode model and XML format for representing code lists. The “gc” XML prefix refers to the namespace URI

`http://docs.oasis-open.org/codelist/ns/genericode/1.0/`

If you are reading this section for the first time, you may find it helpful to review the examples in the appendices before continuing.

### 3.1 Tabular Structure

Genericode has a tabular structure for code list information. Each row in the table represents a single *distinct entry* in the code list, i.e. each row represents a single uniquely identifiable item in the code list.

Each column in the table represents a metadata value that can be defined for each distinct entry in the code list. Each column is either *required* or *optional*. A *required column* does not allow any row to have an undefined (nil or null) value. An *optional column* allows undefined values.

A genericode *key* is a set of one or more required columns that together uniquely identify each distinct entry in the code list. Optional columns cannot be used for keys. Each code list must have at least one key. Genericode keys are equivalent to what people usually mean when they talk about the “codes” in a code list. However, genericode allows multiple keys for each code list, and there is no single *preferred* key. For code lists that have multiple keys, it is assumed that the choice of which key to use is a *late binding* choice that is specific to the application, technology and/or context in which the code list is used.

### 3.2 Genericode Document Types

There are 3 kinds of genericode documents, all supported by the one W3C XML Schema:

- Column Set documents;
- Code List documents;
- Code List Set documents.

```

<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:gc="http://docs.oasis-open.org/codelist/ns/genericode/1.0/"
  targetNamespace="http://docs.oasis-open.org/codelist/ns/genericode/1.0/"
  ...
  <xsd:element name="CodeList" type="gc:CodeListDocument">
    <xsd:annotation>
      <xsd:documentation>Top-level (root) element for a genericode code
list definition.
A code list definition defines the details of a particular (version of
a) code list.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  ...
  <xsd:element name="CodeListSet" type="gc:CodeListSetDocument">
    <xsd:annotation>
      <xsd:documentation>Top-level element for the definition of a code
list set.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  ...
  <xsd:element name="ColumnSet" type="gc:ColumnSetDocument">
    <xsd:annotation>
      <xsd:documentation>Top-level element for the definition of a column
set.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  ...
</xsd:schema>

```

Extract 1: Genericode Schema - Global Element Declarations

## Column Set Documents

A column set document has the root element `<gc:ColumnSet>`. It contains definitions of genericode columns or keys that can be imported into code list documents or into other column set documents.

## Code List Documents

A code list document has the root element `<gc:CodeList>`. It contains metadata describing the code list as a whole, as well as explicit code list data – codes and associated values.

## Code List Set Documents

A code list set document has the root element `<gc:CodeListSet>`. It contains references to particular versions of code lists, and can also contain version-independent references to code lists. A code list set document can be used to define a particular *configuration* of versions of code lists that are used by a project, application, standard, etc.

## 3.3 Column Sets – Columns and Keys

A column set is a set of definitions of genericode columns and/or keys. A column defines a particular metadata value that can be defined for each distinct entry in a code list. A key defines a set of one or more columns.

It is not necessary to use separate column set documents. A genericcode code list document can contain all of the required column and key definitions. Column set documents are provided as a convenience mechanism for sharing column and/or key definitions between multiple code lists.

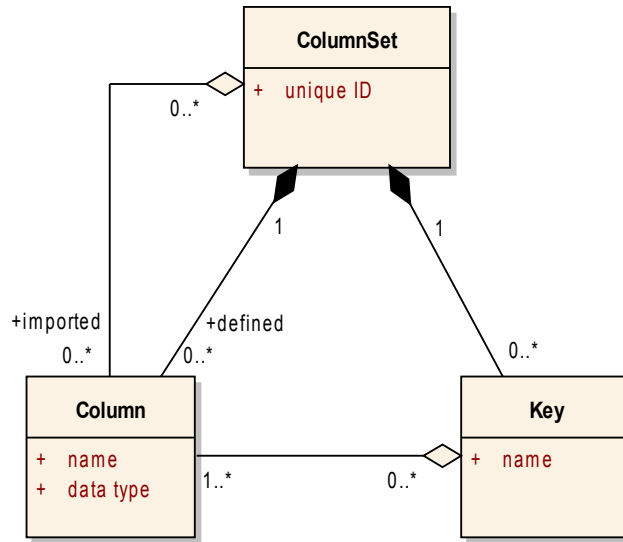


Illustration 1: Columns & Keys

This figure is in UML notation. Each column set must have a unique ID. For a column set defined within a code list document, the code list document's unique identifier is used. A column set can define any number of columns. It can also reference any number of columns from other column sets (in column set documents or code list documents). A column set can also define any number of keys. Each key is defined by one or more of the columns in the column set (either defined or imported). Keys are used to uniquely identify the rows (distinct entries) of code lists. Columns and keys are uniquely named within the column set that defines them, and each can also be uniquely identified using a specific URI if required additionally.

The matching genericcode W3C XML Schema (WXS) representation of column set content is:

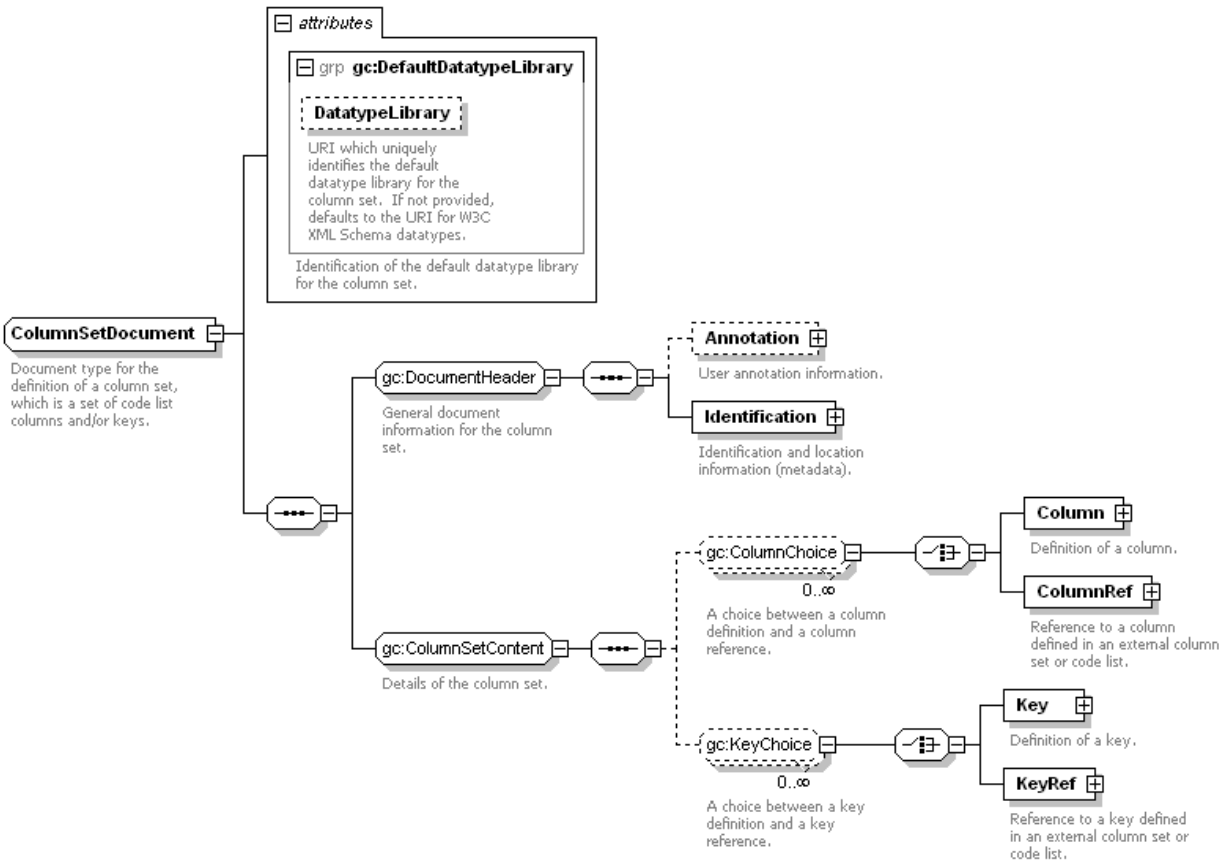


Illustration 2: Structure of a column set document

This figure is in XML Spy® notation. A default datatype library URI can be provided to identify which datatype library should be used for columns which do not explicitly specify a datatype library. If this URI is not provided, the datatype library defaults to the W3C XML Schema (WXS) datatype library.

A column set definition contains optional user annotation information (*Annotation*), and then identification and location information (*Identification*). A column set has a short name, any number of long names and a version.

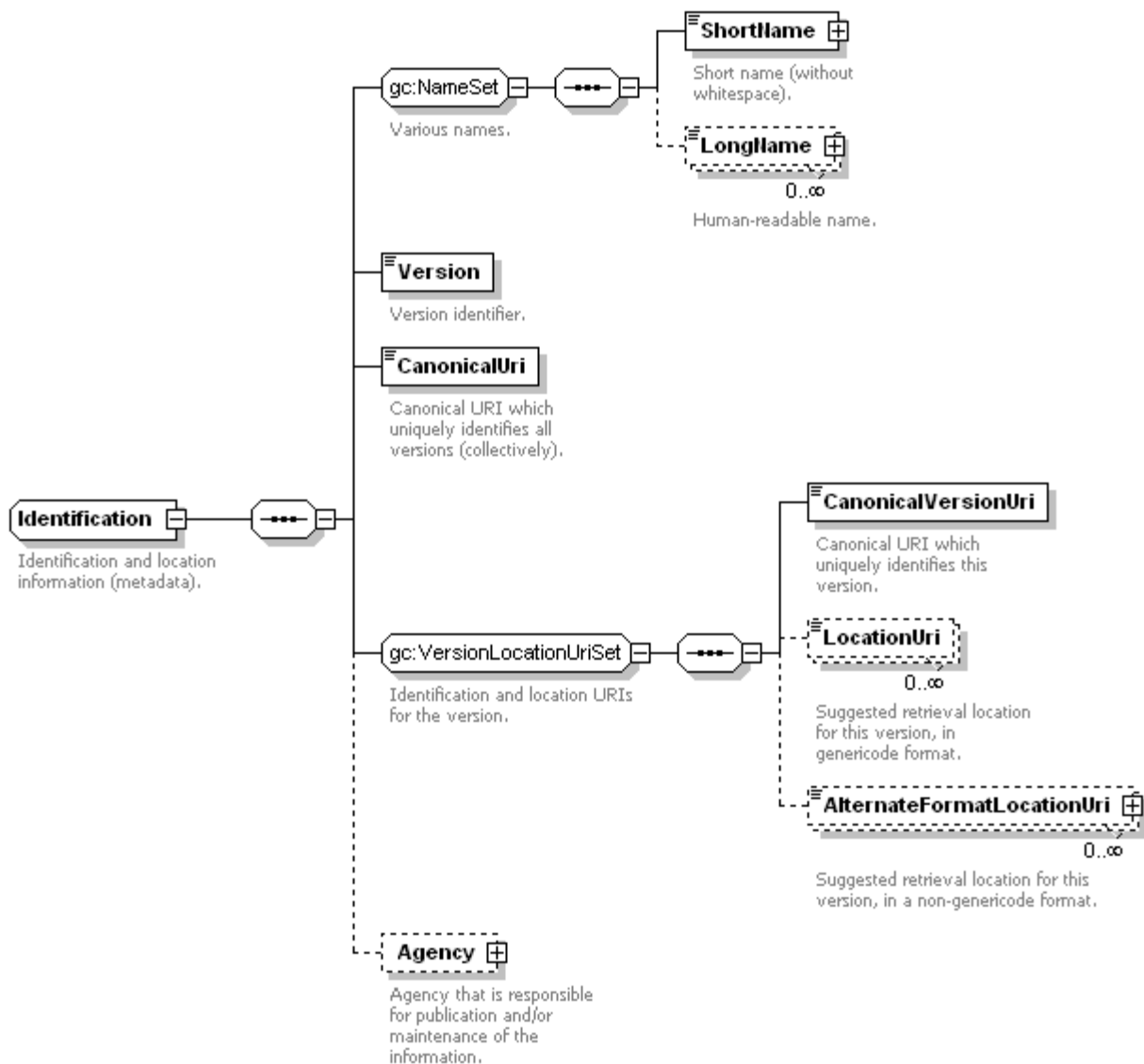


Illustration 3: Structure of identification information

A column set is uniquely identified by a canonical URI. Particular versions of the column set are uniquely identified by a canonical version URI. Location URIs can also be provided to suggest URLs from which an XML genericode column set instance may be retrieved (at the discretion of an application). *Alternative location URIs* can be provided to suggest URLs from which non-genericode representations of the column set can be retrieved. Canonical URIs and canonical version URIs must not be used as *de facto* location URIs for retrieving column set instances (nor anything else). The column set definition can also list the details of the agency which is responsible for publishing and/or maintaining the column set information.

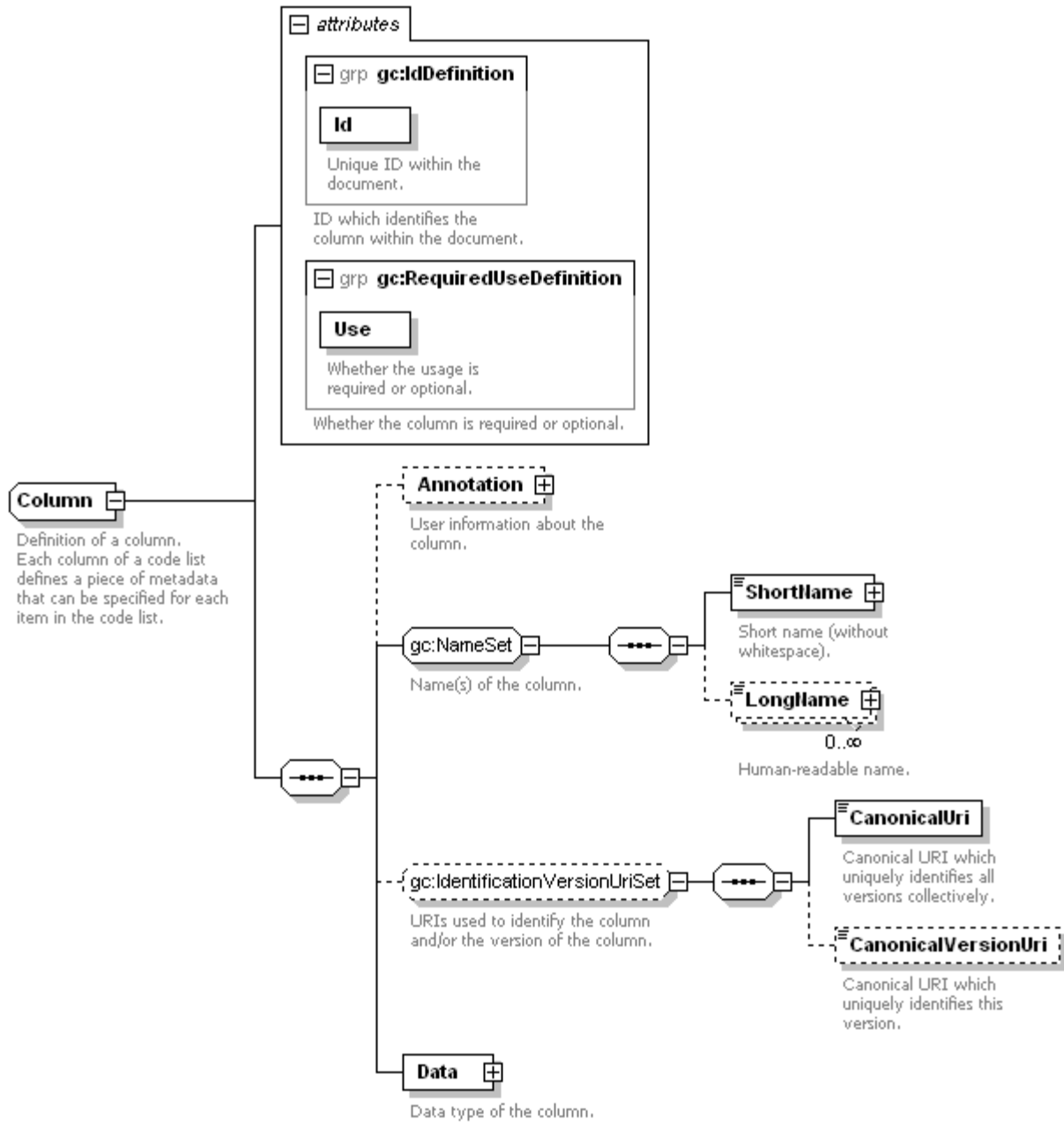


Illustration 4: Structure of a column definition

A column definition (`Column`) contains a unique ID for the column and its use (required or optional). It also contains a short name (token) for the column, any number of long names, and optional extra canonical identification URIs. The datatype information for the column is contained in its `Data` element.

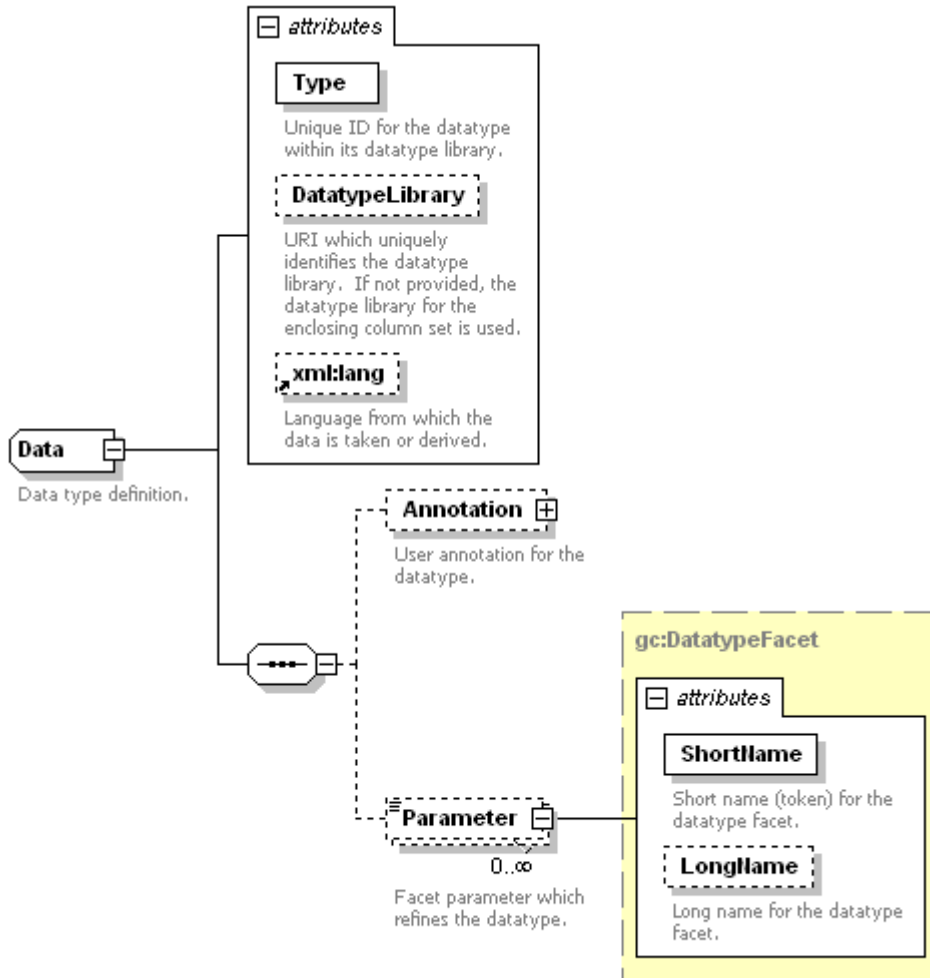


Illustration 5: Structure of a column data type definition

The **Data** structure is based on the `data` element in RELAX NG. The datatype is specified as a **Type** from a **DatatypeLibrary**. If the datatype library is not specified, it is inherited from the **DatatypeLibrary** attribute of the enclosing column set definition. It otherwise defaults to the W3C XML Schema (WXS) datatype library.

If the data is XML (complex valued), the **DatatypeLibrary** is set to the namespace URI for the XML (or to "\*" if any namespace<sup>1</sup> is allowed), and the **Type** is set to the root element name for the XML data (or to "\*" if any root element is allowed).

**Data** definitions can contain **Parameter** elements which define facets that refine the datatype. When using the WXS datatype library, these are just the usual WXS datatype facets.

<sup>1</sup>Any namespace except the genericcode namespace.

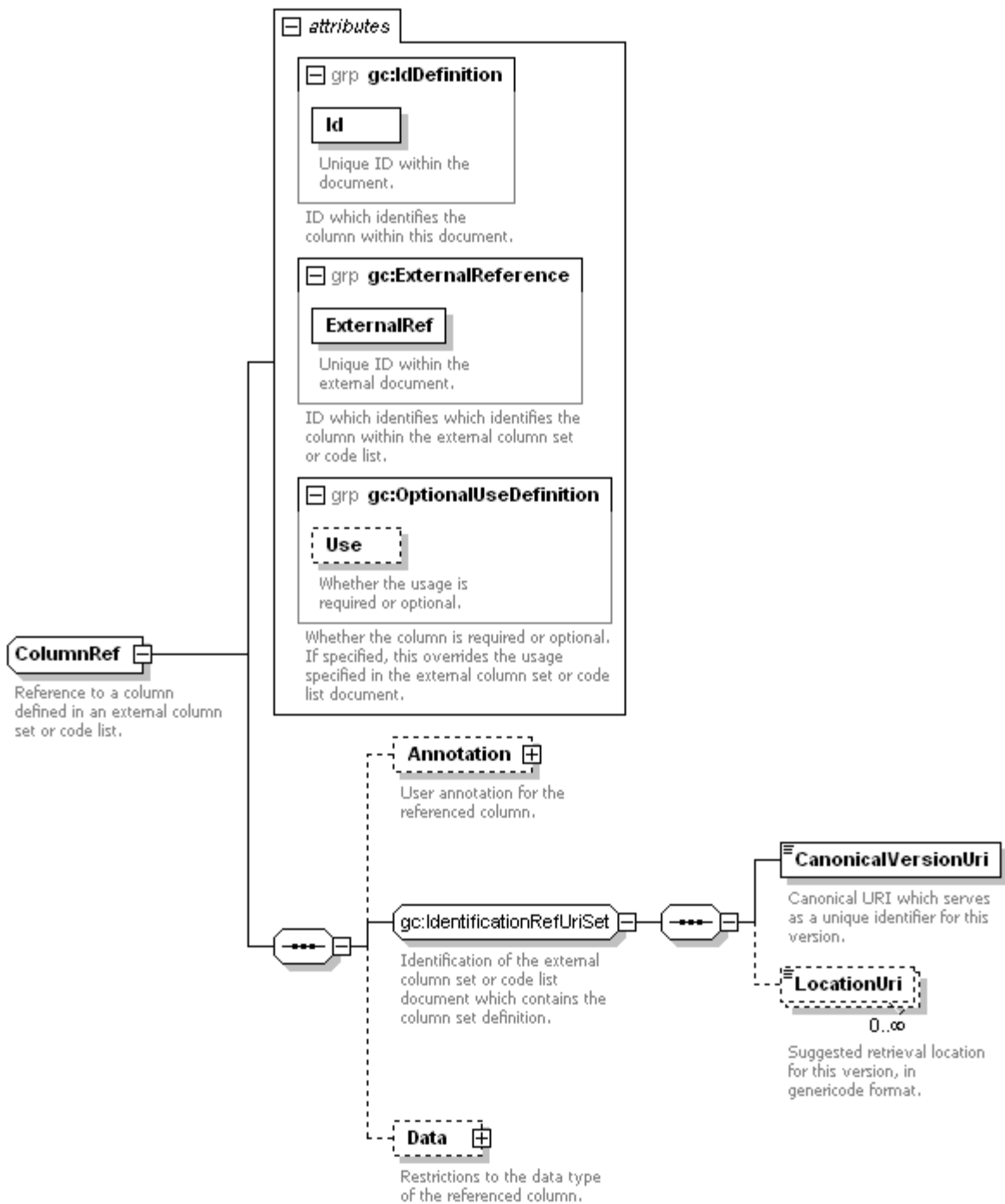


Illustration 6: Structure of a column reference

If a column is defined in an external column set or code list document, it is referenced using a `ColumnRef`. The column reference must have an ID just as a column definition would, but it also has an `ExternalRef` which contains the column's ID in the external document. The external column set or code list is identified by a `CanonicalVersionUri` and/or by any `LocationUri` information that is provided.



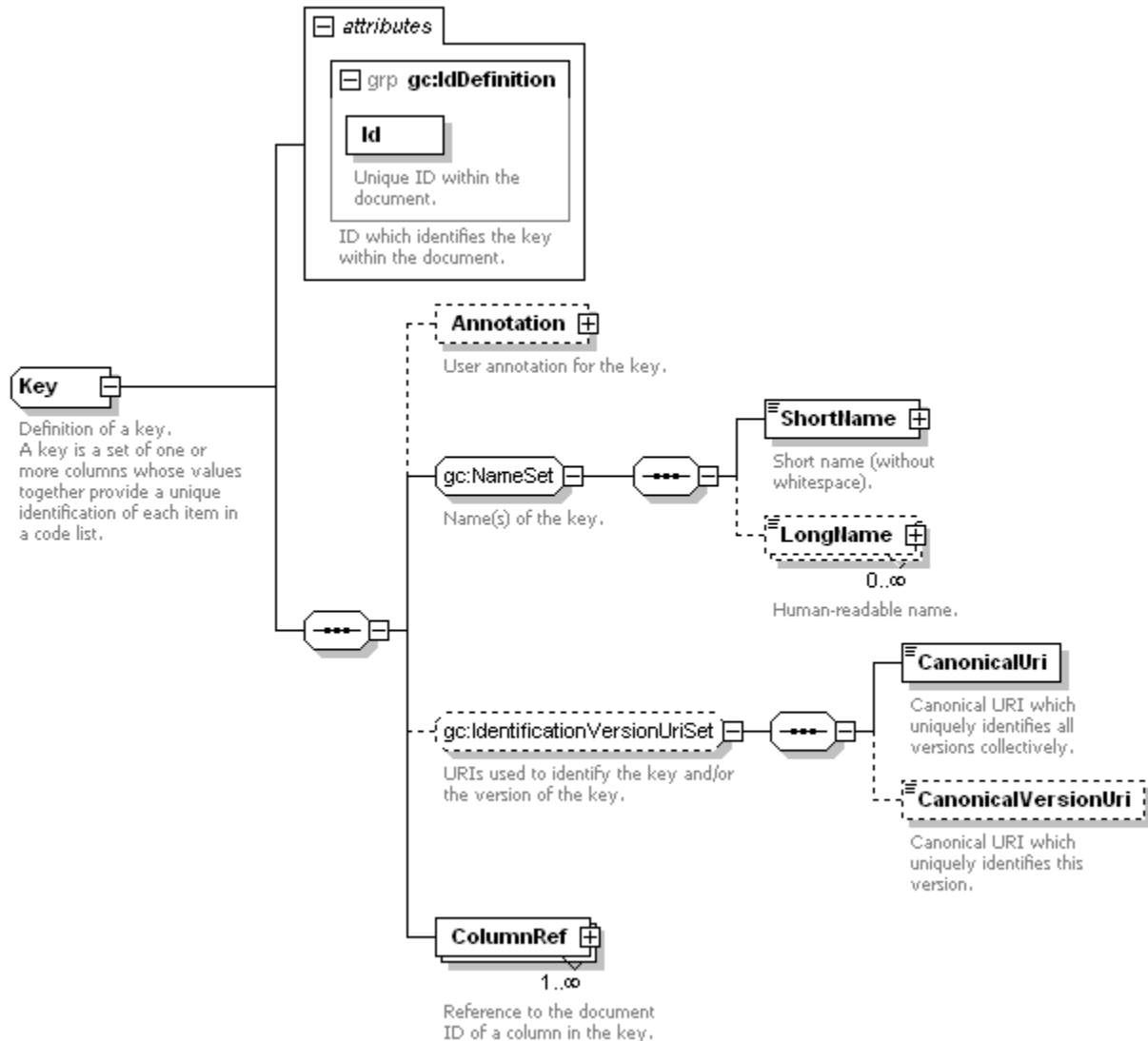


Illustration 7: Structure of a key definition

A key definition (*Key*) contains an ID for the key. It also contains a short name (token) for the key, any number of long names, and optional extra canonical identification URIs. The columns which **together** form the key are referenced using one or more *ColumnRef* elements. The *Ref* attribute of each contains the ID of either a *Column* or *ColumnRef* in the column set. Only required (not optional) columns may be used within a key (note that this rule is not able to be enforced using the genericcode WXS Schema alone).

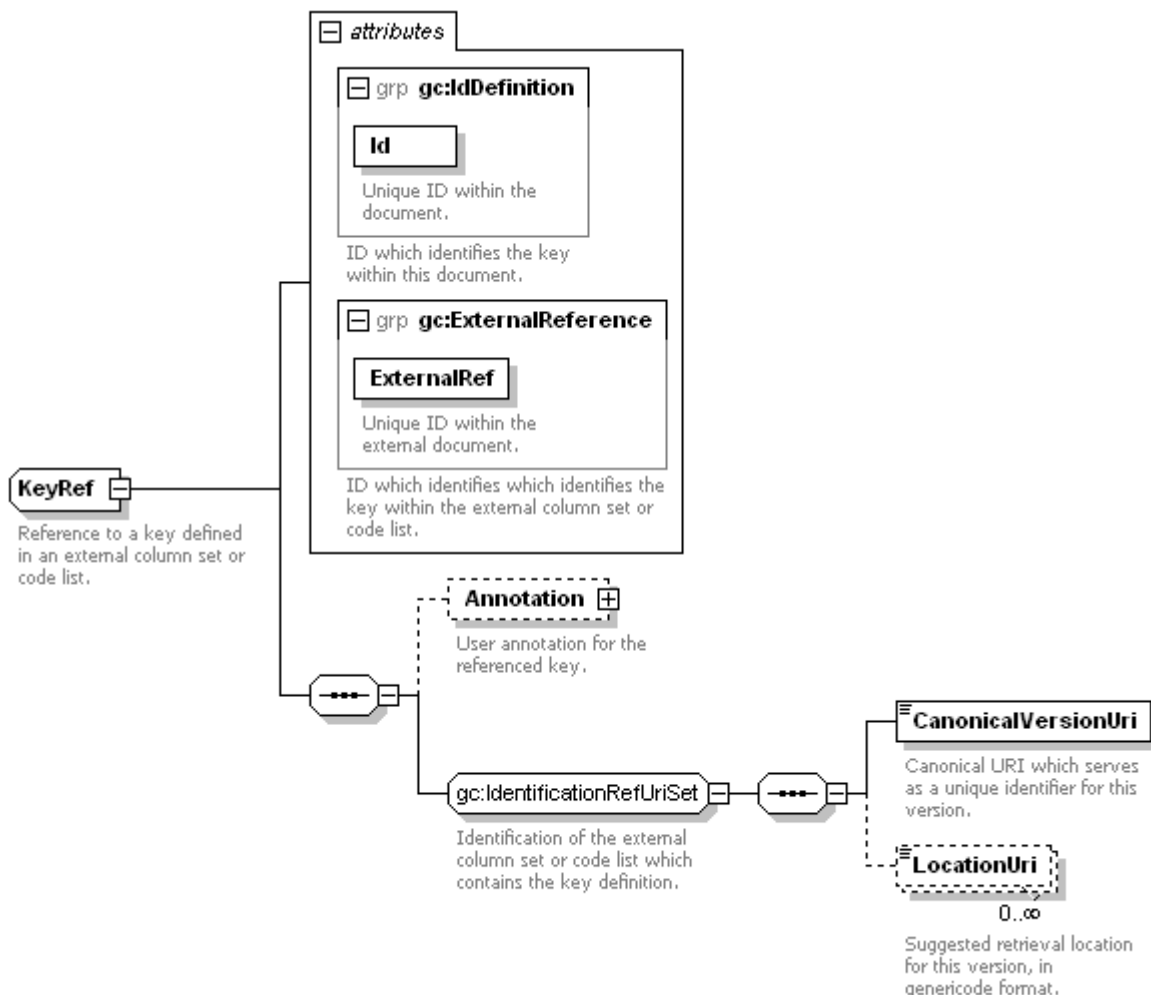


Illustration 8: Structure of a key reference

If a key is defined in an external column set or code list document, it can be referred to using a `KeyRef`. The key reference must have an `Id`, and also has an `ExternalRef` which contains the key's `Id` in the external document. The external column set or code list is identified by a `CanonicalVersionUri` and/or by any `LocationUri` information that is provided.

### 3.4 Code lists

A code list can contain its own embedded column set definition. It can also import columns and keys from any number of external column sets (in column set documents and/or code list documents). In the simplest case, what a code list provides is information (metadata) about the code list and (optionally) a set of rows, where each row defines a *distinct entry* in the code list.

A code list document that contains only information (metadata) about the code list as a whole is known as a *CodeList Metadata* document. If the code list document defines (zero or more) row, it is a *Simple CodeList*. These are the only kinds of code list that are supported in this version of the specification.

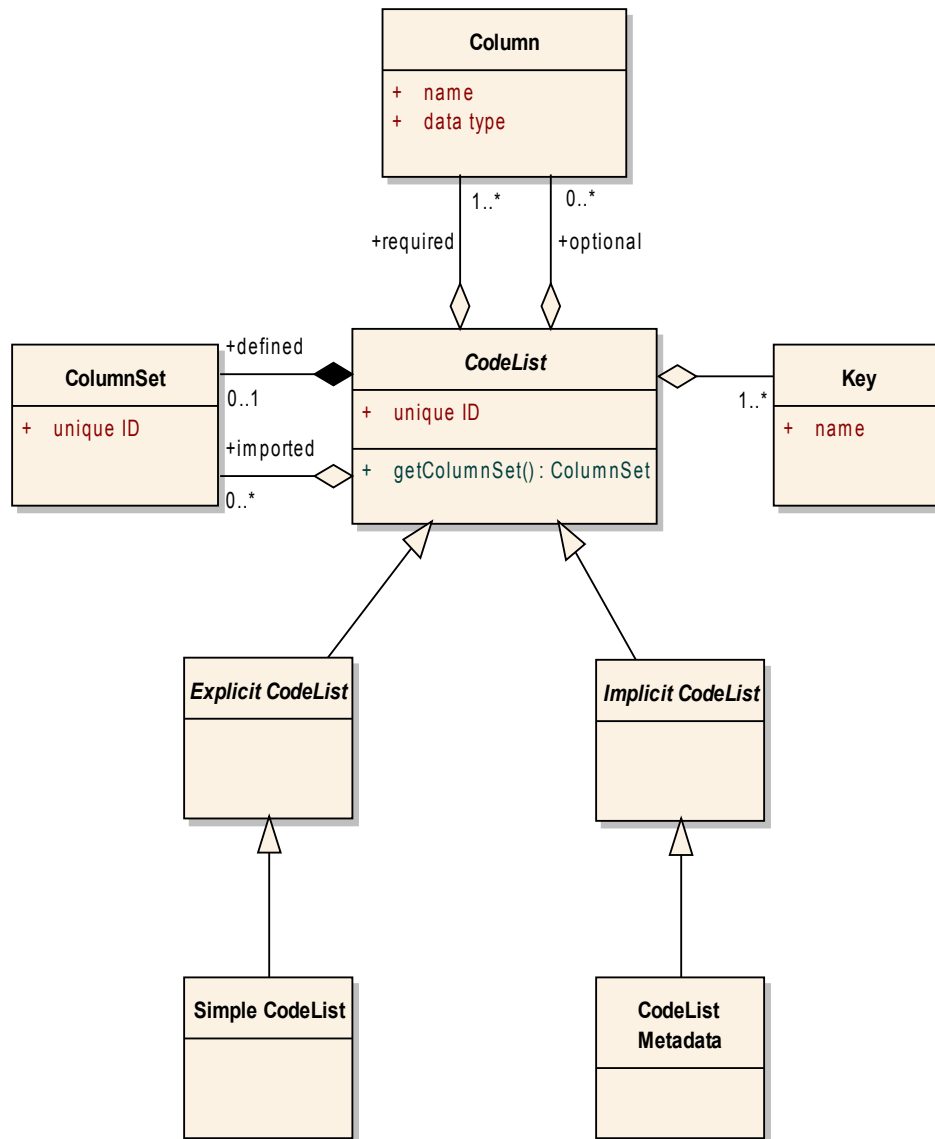


Illustration 9: Code lists

There is an important difference between a *CodeList Metadata* document and *Simple CodeList* that contains zero rows (zero distinct entries). The former does not provide information on how many *distinct entries* are contained in the code list. The latter explicitly indicates that a particular version of the code list contains zero distinct entries, i.e. the particular version of the code list is empty. A *CodeList Metadata* document does not provide any indication about whether a code list is empty or not.

## 7.2.1 Simple CodeLists and CodeList Metadata

A *CodeList Metadata* document is a special case of a *Simple CodeList* document. The differences will be discussed explicitly where appropriate.

A *Simple CodeList* is modeled as follows:

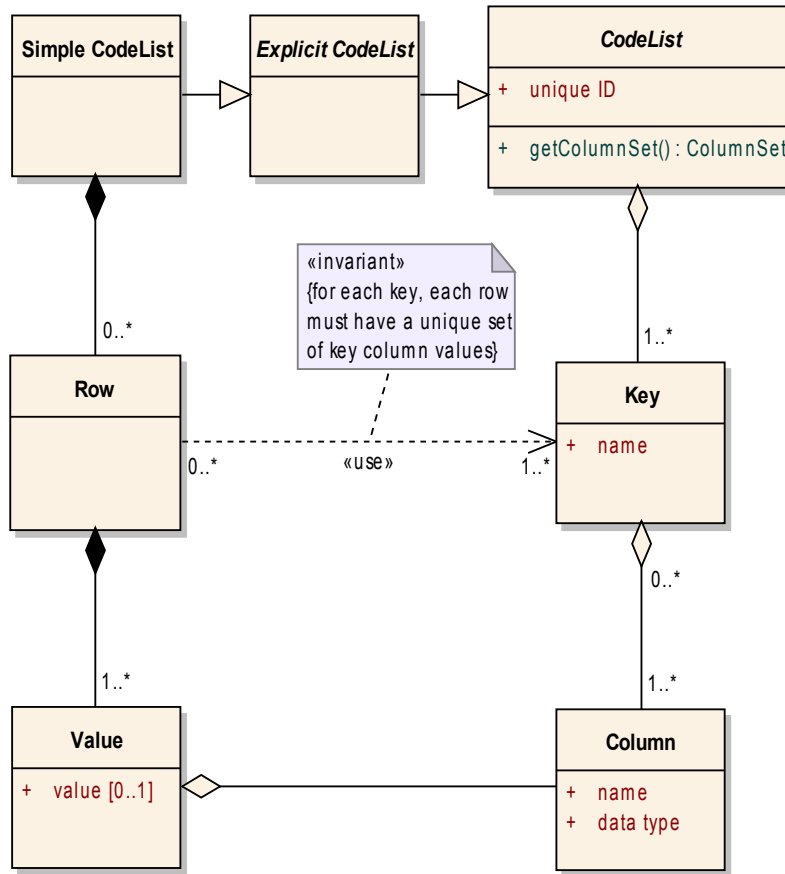


Illustration 10: Simple code lists

A *Simple CodeList* contains zero or more rows (it is necessary to support empty code lists to allow for code lists that are empty now, but will be populated in future versions). Each *Row* defines a single *distinct entry* in the code list.

A *Row* contains one or more *Values*, where each of those values corresponds to a distinct column in the code list. At least one value is required, because a code list has to have at least one key, and each key requires at least one column. As a consequence, a *Row* must have at least one *Value*. Additionally, a *Row* must contain a defined *Value* for each of the *required columns* in the code list, i.e. for those columns for which a *Value* must be defined (non-null) for each *Row* (distinct entry) in the code list.

Each *Value* is associated with a single distinct column of the code list. For each *Key* in the code list, the values associated with the columns for that key must form a unique set, i.e. no two rows are allowed to have the same set of values for the same key columns. Note that this uniqueness requirement cannot be enforced using the genericcode WXS Schema for code list documents, which is structured as follows:

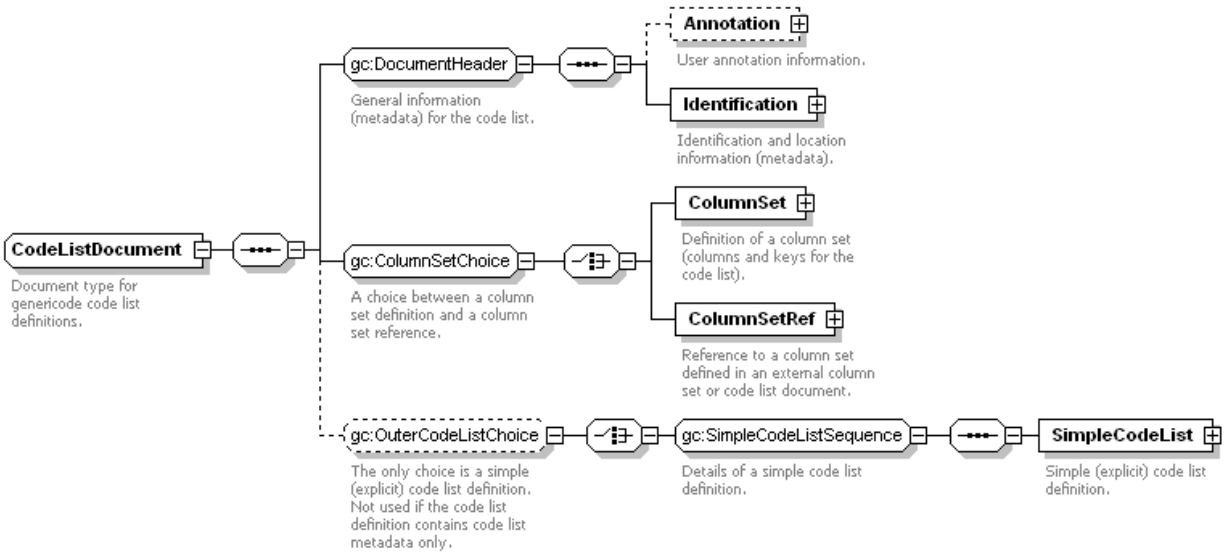


Illustration 11: Structure of a code list document

Many of these elements and types have appeared already in section 3.3, so the explanations will not be repeated here. A code list document can either define its own embedded `ColumnSet`, or refer to an externally defined column set using a `ColumnSetRef`.

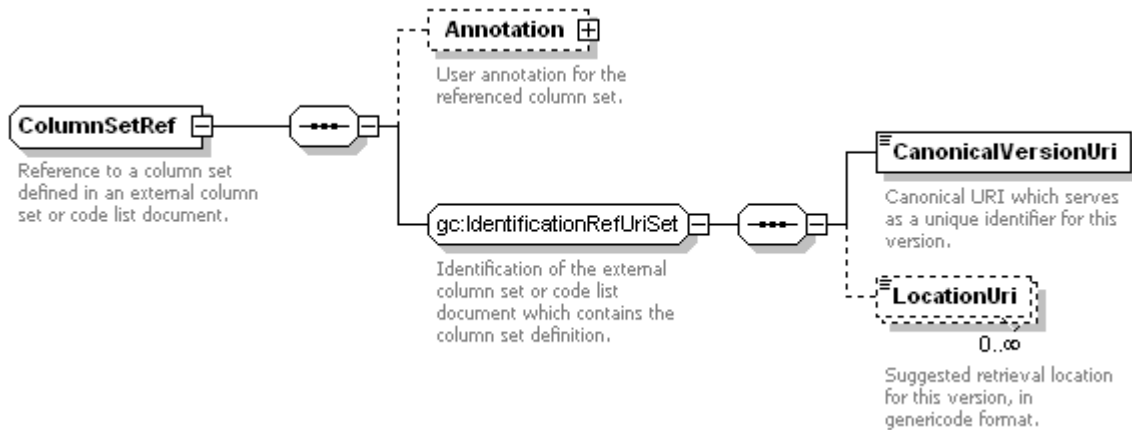


Illustration 12: Structure of a column set reference

A `ColumnSetRef` contains the canonical version URI which uniquely identifies a referenced column set or code list document which contains the column set. It can also contain suggested URLs from which to retrieve the column set or code list. Canonical version URIs must not be used as *de facto* location URIs for retrieving column set instances (nor anything else).

A code list document that contains a `SimpleCodeList` element is a *Simple CodeList*. If the code list document does **not** contain a `SimpleCodeList` element, then it is a *CodeList Metadata* document.

The genericode WXS Schema representation of a `SimpleCodeList` is

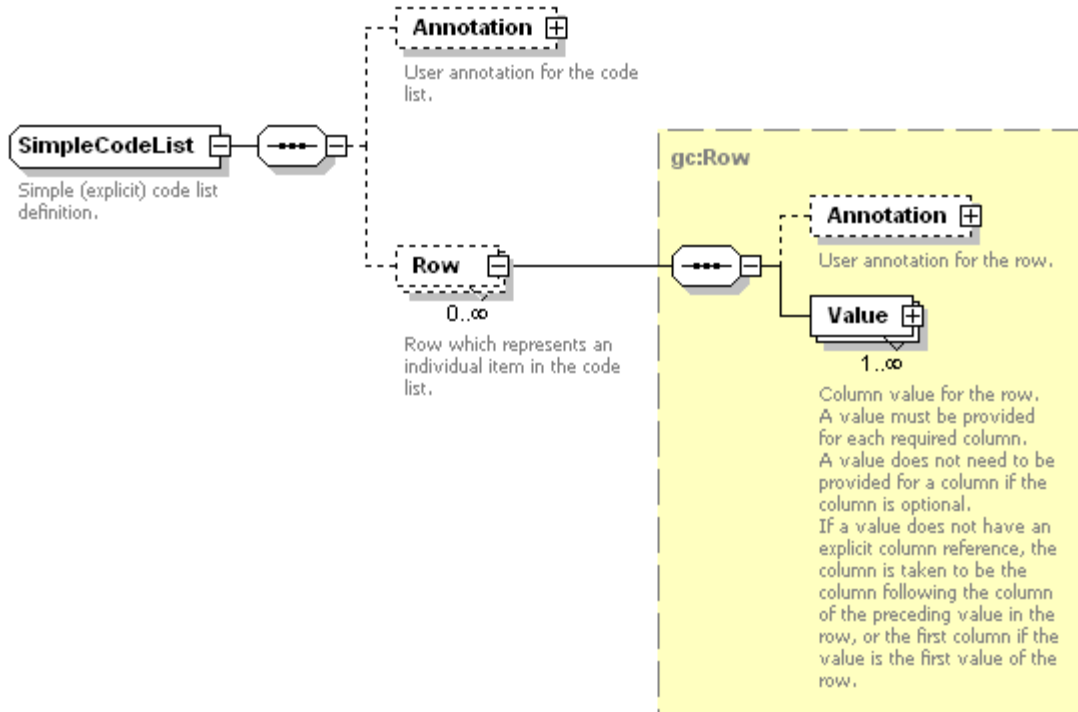


Illustration 13: Structure of a simple code list.

A `SimpleCodeList` contains zero or more `Row` elements. Each `Row` contains one or more `Value` elements.

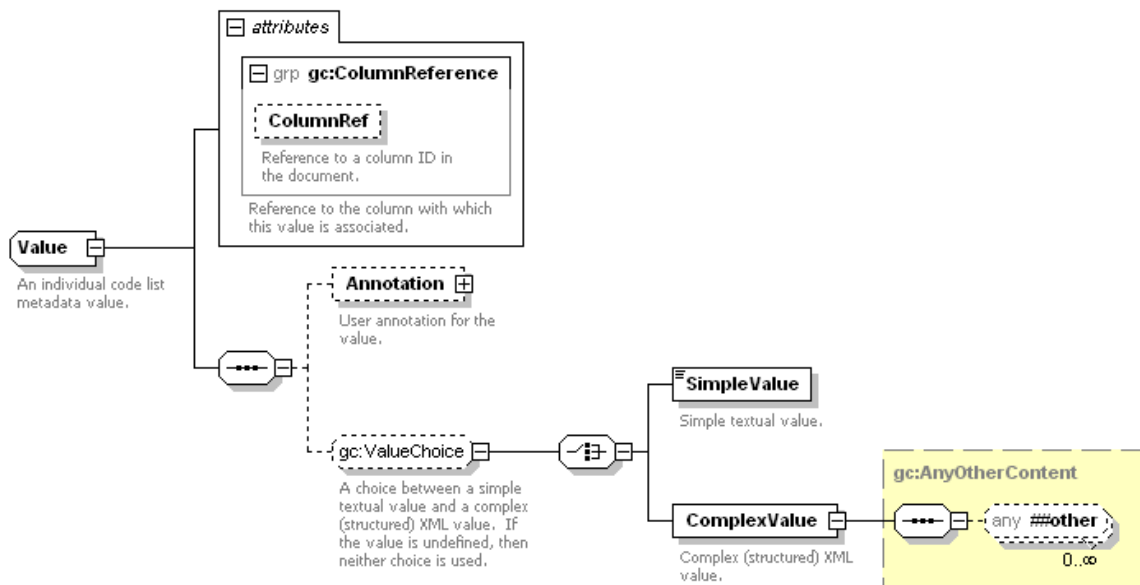


Illustration 14: Structure of a value

The `Value` container element is needed to allow optional user annotations of individual values in the code list. It has a `ColumnRef` attribute which contains the unique document ID of the associated column. A `Value` element can contain either a `SimpleValue` containing a textual value, or a

ComplexValue containing a balanced (well-formed) XML fragment from a namespace **other** than the genericcode namespace.

If a Value element does not contain either a SimpleValue element or a ComplexValue element, then the value is undefined. Only *optional columns* are allowed to have undefined values. Also, if a Row element does not contain a Value element corresponding to a particular column, then the row's value for that column is undefined.

Note that the ColumnRef attribute of a Value is optional. If it is not provided, it is assumed that the column is the one which follows the column associated with the previous value in the row. If the first Value in a Row does not have a ColumnRef, it is assumed to be associated with the first column in the column set. It is an error if a row contains more than one value for the same column, or if it does not contain a value for a required column.

The genericcode WXS Schema is not able to validate that the contents of a Value match the datatype of the associated column. Other validation mechanisms should be used to perform datatype validation.

### 3.5 Code list sets

A CodeList Set lists a configuration of code lists and/or codelist versions. CodeList Sets can be used to provide lists of the code lists or code list versions that are associated with a particular version of an application or specification. The genericcode WXS Schema structure for CodeList Set documents is:

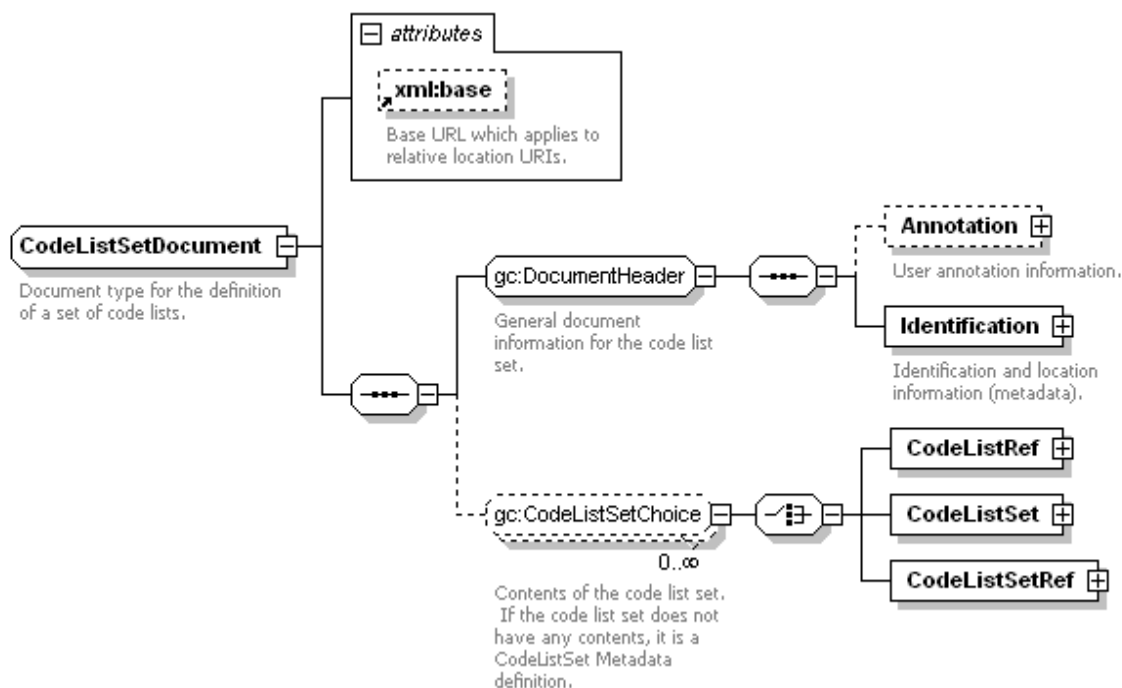


Illustration 15: Structure of a code list set document

Many of these elements and types have appeared already in section 3.3, so the explanations will not be repeated here. A code list set document contains a series of zero or more CodeListRef, CodeListSet, or CodeListSetRef elements.

A CodeListRef is a reference to a code list or to a version of a code list. If the CanonicalVersionUri is defined, then the LocationUri elements (if any) contain retrieval URIs for genericcode CodeList documents. If the CanonicalVersionUri is **not** defined, then the

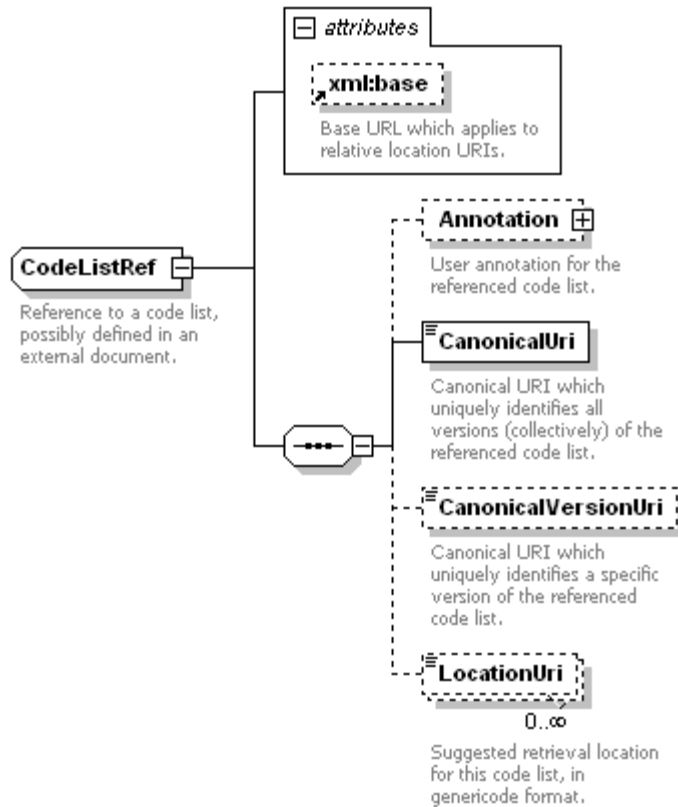


Illustration 16: Structure of a code list reference.

`LocationUri` elements (if any) contain retrieval URIs for genericcode *CodeList Metadata* documents. Note that canonical URIs and canonical version URIs must not be used as *de facto* location URIs for retrieving code list instances (nor anything else).

A `CodeListSet` element is used to define an embedded code list set within a larger code list set document. It allows a single *CodeList Set* document to carry information on multiple code list sets. Each embedded `CodeListSet` element has the same structure as a `CodeListSet` document.

A `CodeListSetRef` is a reference to a code list set or to a version of a code list set. If the `CanonicalVersionUri` is defined, then the `LocationUri` elements (if any) contain retrieval URIs for genericcode *CodeList Set* documents. If the `CanonicalVersionUri` is **not** defined, then the `LocationUri` elements (if any) contain retrieval URIs for genericcode *CodeList Set Metadata* documents. Just as for code list references, canonical URIs and canonical version URIs must not be used as *de facto* location URIs for retrieving code list instances (nor anything else).



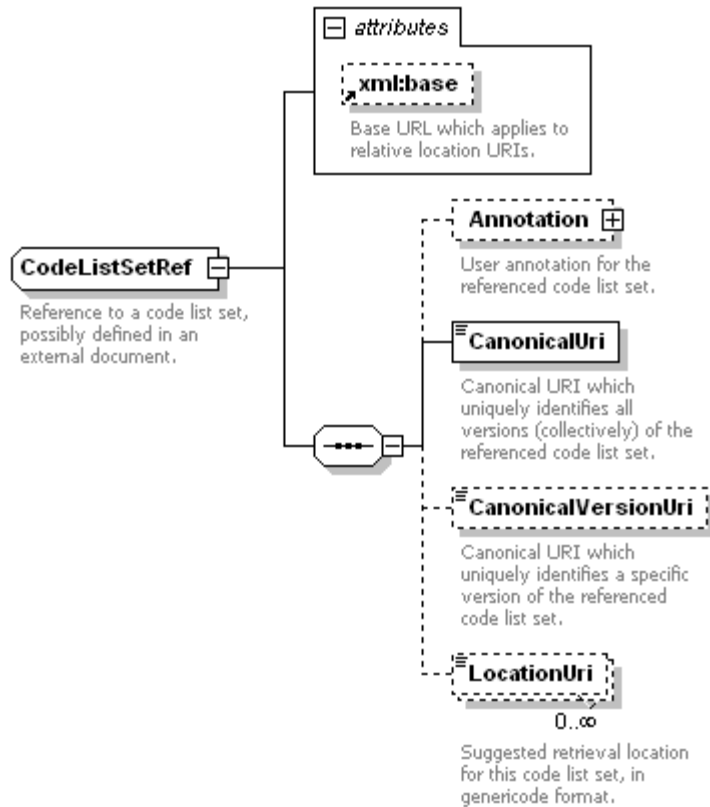


Illustration 17: Structure of a code list set reference.

A *CodeList Set* does not contain definitions of code lists, it only refers to the code list and code list versions which are a part of the particular version of the *CodeList Set*. It should also be noted that a code list set may contain a reference to a code list or code list set without specifying a particular version of the code list or code list set, and it may contain a reference to a code list or code list version or code list set or code list set version without specifying a location for retrieving a genericcode definition of that code list (metadata) or code list version or code list set (metadata) or code list set version. This is to support situations where

- the code list definition or code list set definition is known to the users, and no location needs to be published. This may be because users have an application which maps the canonical URI or canonical version URI to a local definition;
- the code list or code list set is sufficiently well-known (e.g. ISO 3-letter country codes) that users only need to have it uniquely identified, and do not need to have it enumerated or defined for them.

### 3.6 Namespaces

The genericcode Schema makes use of two namespace URIs. The “gc” XML prefix refers to the namespace URI

<http://docs.oasis-open.org/codelist/ns/genericcode/1.0/>

which is the main genericcode namespace URI. The “rule” XML prefix refers to the namespace URI

<http://docs.oasis-open.org/codelist/ns/rule/1.0/>

which is used in the identification of auxiliary rules in the Schema. These are rules that cannot be enforced using the XML Schema itself; they appear in the Schema in `<rule:text>` elements within `<xsd:documentation>` elements.

---

## 4 Genericcode XML Schema Reference

Schema version: 1.0

Target namespace: <http://docs.oasis-open.org/codelist/ns/genericcode/1.0/>

### 4.1 Notation

Multiplicity	Minimum Occurrence	Maximum Occurrence
1	1	1
?	0	1
+	1	unbounded
*	0	unbounded
{m,n}	m	n
{m,}	m	unbounded

ANY – any element in any namespace.

ANY[##other] – any element in any namespace other than the target namespace of the genericcode XML Schema.

(A , B , C , ...) – sequence of items (A, B, C, etc.).

(A | B | C | ...) – choice between items (A, B, C, etc.).

### 4.2 Table of Schema Definitions

#### Global Elements

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- CodeListSet (page 33)
- ColumnSet (page 40)

#### Global Complex Types

- Agency (page 29)
- Annotation (page 29)
- AnyOtherContent (page 30)
- AnyOtherLanguageContent (page 30)
- CodeListDocument (page 30)
- CodeListRef (page 32)

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- [ShortName](#) (page 57)
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## **Global Simple Types**

- [UseType](#) (page 58)

## **Global Model Groups**

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- [ColumnSetContent](#) (page 42)
- [DocumentHeader](#) (page 48)

- IdentificationRefUriSet (page 50)
- IdentificationVersionUriSet (page 50)
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## Global Attribute Groups

- ColumnReference (page 40)
- DefaultDatatypeLibrary (page 47)
- ExternalReference (page 48)
- IdDefinition (page 48)
- Language (page 55)
- OptionalUseDefinition (page 55)
- RequiredUseDefinition (page 56)
- ValueIdentification (page 60)

## 4.3 Global Schema Definitions in Alphabetic Order

### Agency (Complex Type)

Details of an agency which produces code lists or related artifacts.

**Content Model:** (ShortName? , LongName\* , Identifier\*)

**Mixed Content:** No

**Elements:**

Element	Type	Description
ShortName	ShortName (page 57)	Short name (without whitespace) for the agency.
LongName	LongName (page 55)	Human-readable name for the agency.
Identifier	GeneralIdentifier (page 48)	Identifier for the agency.

### Annotation (Complex Type)

User annotation information.

**Content Model:** (Description\* , ApplInfo?)

**Mixed Content:** No

**Elements:**

Element	Type	Description
Description	AnyOtherLanguageContent (page 30)	Human-readable information.
ApplInfo	AnyOtherContent (page 30)	Machine-readable information.

## AnyOtherContent (Complex Type)

Container for any XML content which is in a different namespace to the Schema's target namespace.

**Content Model:** (ANY[##other]\*)

**Mixed Content:** No

## AnyOtherLanguageContent (Complex Type)

Container for any human-readable XML content which is in a different namespace to the Schema's target namespace.

**Extension of:** AnyOtherContent (page 30)

**Content Model:** (ANY[##other]\*)

**Mixed Content:** No

**Attributes:**

Attribute	Usage	Type	Description
xml:lang	optional		Language for the human-readable XML content.

## CodeList (Element)

Top-level (root) element for a genericcode code list definition.

A code list definition defines the details of a particular (version of a) code list.

**Complex Type:** CodeListDocument (page 30)

## CodeListDocument (Complex Type)

Document type for genericcode code list definitions.

**Rules:**

**Rule R1 [document] :**

A code list must have at least one key, unless it is a metadata-only definition without a 'SimpleCodeList' element.

**Content Model:** ((Annotation? , Identification) , (ColumnSet | ColumnSetRef) , ((SimpleCodeList)?))

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation (from DocumentHeader on page 48)	Annotation (page 29)	User annotation information. <b>DocumentHeader:</b> General information (metadata) for the code list.
Identification (from DocumentHeader on page 48)	Identification (page 49)	Identification and location information (metadata). <b>DocumentHeader:</b> General information (metadata) for the code list.
ColumnSet (from ColumnSetChoice on page 41)	ColumnSet (page 40)	Definition of a column set (columns and keys for the code list). <b>ColumnSetChoice:</b> A choice between a column set definition and a column set reference.
ColumnSetRef (from ColumnSetChoice on page 41)	ColumnSetRef (page 44)	Reference to a column set defined in an external column set or code list document. <b>ColumnSetChoice:</b> A choice between a column set definition and a column set reference.
SimpleCodeList (from SimpleCodeListSequence on page 58)	SimpleCodeList (page 57)	Simple (explicit) code list definition. <b>SimpleCodeListSequence:</b> Details of a simple code list definition. <b>OuterCodeListChoice:</b> The only choice is a simple (explicit) code list definition. Not used if the code list definition contains code list metadata only.

**Attributes:**

Attribute	Usage	Type	Description
xml:base	optional		Base URL which applies to relative location URIs. <b>Rules:</b> xml:base does not apply to canonical URIs.

## CodeListRef (Complex Type)

Reference to a code list, possibly defined in an external document.

### Rules:

**Rule R3 [application] :**

The code list reference must be valid.

An application may use the CanonicalVersionUri to select a local copy of the code list.

If there is no CanonicalVersionUri, the CanonicalUri may be used to select a local copy of the code list.

Otherwise the LocationUri value(s) may be tried in order, until a valid code list document is retrieved.

An application must signal an error to the user if it is not able to retrieve a code list document to match the code list reference.

**Content Model:** (Annotation? , CanonicalUri , CanonicalVersionUri? , LocationUri\*)

**Mixed Content:** No

### Elements:

Element	Type	Description
Annotation	Annotation (page 29)	User annotation for the referenced code list.
CanonicalUri	xsd:anyURI	Canonical URI which uniquely identifies all versions (collectively) of the referenced code list. <b>Rules:</b> Must be an absolute URI, must not be relative. Must not be used as a de facto location URI.
CanonicalVersionUri	xsd:anyURI	Canonical URI which uniquely identifies a specific version of the referenced code list. <b>Rules:</b> Must be an absolute URI, must not be relative. Must not be used as a de facto location URI.



Element	Type	Description
LocationUri	xsd:anyURI	<p>Suggested retrieval location for this code list, in genericcode format.</p> <p><b>Rules:</b></p> <p>If the CanonicalVersionUri has been defined, the LocationUri must reference a genericcode CodeList document.</p> <p>If the CanonicalVersionUri is undefined, the LocationUri must reference a genericcode CodeList Metadata document.</p> <p>An application must signal an error to the user if a LocationUri does not reference the appropriate type of genericcode document.</p> <p>An application must signal an error to the user if a document retrieved using a LocationUri is not in genericcode format.</p>

**Attributes:**

Attribute	Usage	Type	Description
xml:base	optional		<p>Base URL which applies to relative location URIs.</p> <p><b>Rules:</b></p> <p>xml:base does not apply to canonical URIs.</p>

## CodeListSet (Element)

Top-level element for the definition of a code list set.

**Complex Type:** CodeListSetDocument (page 34)

## CodeListSetChoice (Model Group)

A choice between a code list reference, an inline code list set, or a code list set reference.

**Content Model:** (CodeListRef | CodeListSet | CodeListSetRef)

**Elements:**

Element	Type	Description
CodeListRef	CodeListRef (page 32)	
CodeListSet	CodeListSetDocument (page 34)	
CodeListSetRef	CodeListSetRef (page 34)	

## CodeListSetDocument (Complex Type)

Document type for the definition of a set of code lists.

**Content Model:** ((Annotation? , Identification) , (CodeListRef | CodeListSet | CodeListSetRef)\*)

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation (from DocumentHeader on page 48)	Annotation (page 29)	User annotation information. <b>DocumentHeader:</b> General document information for the code list set.
Identification (from DocumentHeader on page 48)	Identification (page 49)	Identification and location information (metadata). <b>DocumentHeader:</b> General document information for the code list set.
CodeListRef (from CodeListSetChoice on page 33)	CodeListRef (page 32)	<b>CodeListSetChoice:</b> Contents of the code list set. If the code list set does not have any contents, it is a CodeListSet Metadata definition.
CodeListSet (from CodeListSetChoice on page 33)	CodeListSetDocument (page 34)	<b>CodeListSetChoice:</b> Contents of the code list set. If the code list set does not have any contents, it is a CodeListSet Metadata definition.
CodeListSetRef (from CodeListSetChoice on page 33)	CodeListSetRef (page 34)	<b>CodeListSetChoice:</b> Contents of the code list set. If the code list set does not have any contents, it is a CodeListSet Metadata definition.

**Attributes:**

Attribute	Usage	Type	Description
xml:base	optional		Base URL which applies to relative location URIs. <b>Rules:</b> xml:base does not apply to canonical URIs.

## CodeListSetRef (Complex Type)

Reference to a code list set, possibly defined in an external document.

**Rules:****Rule R47 [application] :**

The code list set reference must be valid.

An application may use the CanonicalVersionUri to select a local copy of the code list set.

If there is no CanonicalVersionUri, the CanonicalUri may be used to select a local copy of the code list set.

Otherwise the LocationUri value(s) may be tried in order, until a valid code list set document is retrieved.

An application must signal an error to the user if it is not able to retrieve a code list set document to match the code list set reference.

**Content Model:** (Annotation? , CanonicalUri , CanonicalVersionUri? , LocationUri\*)

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation	Annotation (page 29)	User annotation for the referenced code list set.
CanonicalUri	xsd:anyURI	<p>Canonical URI which uniquely identifies all versions (collectively) of the referenced code list set.</p> <p><b>Rules:</b></p> <p>Must be an absolute URI, must not be relative.</p> <p>Must not be used as a de facto location URI.</p>
CanonicalVersionUri	xsd:anyURI	<p>Canonical URI which uniquely identifies a specific version of the referenced code list set.</p> <p><b>Rules:</b></p> <p>Must be an absolute URI, must not be relative.</p> <p>Must not be used as a de facto location URI.</p>

Element	Type	Description
LocationUri	xsd:anyURI	<p>Suggested retrieval location for this code list set, in genericcode format.</p> <p><b>Rules:</b></p> <p>If the CanonicalVersionUri has been defined, the LocationUri must reference a genericcode CodeListSet document.</p> <p>If the CanonicalVersionUri is undefined, the LocationUri must reference a genericcode CodeListSet Metadata document.</p> <p>An application must signal an error to the user if a LocationUri does not reference the appropriate type of genericcode document.</p> <p>An application must signal an error to the user if a document retrieved using a LocationUri is not in genericcode format.</p>

**Attributes:**

Attribute	Usage	Type	Description
xml:base	optional		<p>Base URL which applies to relative location URIs.</p> <p><b>Rules:</b></p> <p>xml:base does not apply to canonical URIs.</p>

## Column (Complex Type)

Definition of a column.

Each column of a code list defines a piece of metadata that can be specified for each item in the code list.

**Content Model:** (Annotation? , (ShortName , LongName\*) , (CanonicalUri , CanonicalVersionUri)?)? , Data)

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation	Annotation (page 29)	User information about the column.
ShortName (from NameSet on page 55)	ShortName (page 57)	<p>Short name (without whitespace).</p> <p><b>NameSet:</b></p> <p>Name(s) of the column.</p>

Element	Type	Description
LongName (from NameSet on page 55)	LongName (page 55)	Human-readable name. <b>NameSet:</b> Name(s) of the column.
CanonicalUri (from IdentificationVersionUriSet on page 50)	xsd:anyURI	Canonical URI which uniquely identifies all versions collectively. <b>Rules:</b> Must be an absolute URI, must not be relative. Must not be used as a de facto location URI. <b>IdentificationVersionUriSet:</b> URIs used to identify the column and/or the version of the column.
CanonicalVersionUri (from IdentificationVersionUriSet on page 50)	xsd:anyURI	Canonical URI which uniquely identifies this version. <b>Rules:</b> Must be an absolute URI, must not be relative. Must not be used as a de facto location URI. <b>IdentificationVersionUriSet:</b> URIs used to identify the column and/or the version of the column.
Data	Data (page 45)	Data type of the column.

#### Attributes:

Attribute	Usage	Type	Description
Id (from IdDefinition on page 48)	required	xsd:ID	Unique ID within the document. <b>IdDefinition:</b> ID which identifies the column within the document.
Use (from RequiredUseDefinition on page 56)	required	UseType (page 58)	Whether the usage is required or optional. <b>RequiredUseDefinition:</b> Whether the column is required or optional.

## ColumnChoice (Model Group)

A choice between a column definition and a column reference.

**Content Model:** (Column | ColumnRef)

**Elements:**

Element	Type	Description
Column	Column (page 36)	Definition of a column.
ColumnRef	ColumnRef (page 38)	Reference to a column defined in an external column set or code list.

## ColumnRef (Complex Type)

Reference to a column defined in an external column set or code list.

**Rules:**

**Rule R12 [application] :**

The column reference must be valid.

An application may use the CanonicalVersionUri to select a local copy of the code list or column set which contains the column definition.

Otherwise the LocationUri value(s) may be tried in order, until a valid code list or column set document (containing the necessary column definition) is retrieved.

An application must signal an error to the user if it is not able to retrieve a code list or column set document which contains the necessary column definition.

**Content Model:** (Annotation? , (CanonicalVersionUri , LocationUri\*) , Data?)

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation	Annotation (page 29)	User annotation for the referenced column.
CanonicalVersionUri (from IdentificationRefUriSet on page 50)	xsd:anyURI	Canonical URI which serves as a unique identifier for this version. <b>Rules:</b> Must be an absolute URI, must not be relative. Must not be used as a de facto location URI. <b>IdentificationRefUriSet:</b> Identification of the external column set or code list document which contains the column set definition.

Element	Type	Description
LocationUri (from IdentificationRefUriSet on page 50)	xsd:anyURI	Suggested retrieval location for this version, in genericcode format.  <b>Rules:</b> An application must signal an error to the user if a document retrieved using a LocationUri is not in genericcode format.  <b>IdentificationRefUriSet:</b> Identification of the external column set or code list document which contains the column set definition.
Data	DataRestrictions (page 46)	Restrictions to the data type of the referenced column.

**Attributes:**

Attribute	Usage	Type	Description
Id (from IdDefinition on page 48)	required	xsd:ID	Unique ID within the document.  <b>IdDefinition:</b> ID which identifies the column within this document.
ExternalRef (from ExternalReference on page 48)	required	xsd:NCName	Unique ID within the external document.  <b>Rules:</b> The external reference must not be prefixed with a '#' symbol.  <b>ExternalReference:</b> ID which identifies which identifies the column within the external column set or code list.
Use (from OptionalUseDefinition on page 55)	optional	UseType (page 58)	Whether the usage is required or optional.  <b>OptionalUseDefinition:</b> Whether the column is required or optional.  <b>Rules:</b>
If specified, this overrides the usage specified in the external column set or code list document.			

Attribute	Usage	Type	Description
xml:base	optional		Base URL which applies to relative location URIs.  <b>Rules:</b> xml:base does not apply to canonical URIs.

## ColumnReference (Attribute Group)

Attribute set for referring to a column definition.

### Attributes:

Attribute	Usage	Type	Description
ColumnRef	optional	xsd:IDREF	Reference to a column ID in the document.

## ColumnSet (Element)

Top-level element for the definition of a column set.

**Complex Type:** ColumnSetDocument (page 42)

## ColumnSet (Complex Type)

Definition of a column set (columns and keys for a code list).

**Content Model:** ((Column | ColumnRef)\* , (Key | KeyRef)\*)

**Mixed Content:** No

### Elements:

Element	Type	Description
Column (from ColumnChoice on page 37)	Column (page 36)	Definition of a column.  <b>ColumnChoice:</b> A choice between a column definition and a column reference.  <b>ColumnSetContent:</b> Column set definitions.



Element	Type	Description
ColumnRef (from ColumnChoice on page 37)	ColumnRef (page 38)	Reference to a column defined in an external column set or code list.  <b>ColumnChoice:</b> A choice between a column definition and a column reference.  <b>ColumnSetContent:</b> Column set definitions.
Key (from KeyChoice on page 52)	Key (page 51)	Definition of a key.  <b>KeyChoice:</b> A choice between a key definition and a key reference.  <b>ColumnSetContent:</b> Column set definitions.
KeyRef (from KeyChoice on page 52)	KeyRef (page 53)	Reference to a key defined in an external column set or code list.  <b>KeyChoice:</b> A choice between a key definition and a key reference.  <b>ColumnSetContent:</b> Column set definitions.

**Attributes:**

Attribute	Usage	Type	Description
DatatypeLibrary (from DefaultDatatypeLibrary on page 47)	optional	xsd:anyURI	URI which uniquely identifies the default datatype library for the column set. If not provided, defaults to the URI for W3C XML Schema datatypes.  <b>DefaultDatatypeLibrary:</b> Identification of the default datatype library for the column set.
xml:base	optional		Base URL which applies to relative location URIs.  <b>Rules:</b> xml:base does not apply to canonical URIs.

## ColumnSetChoice (Model Group)

A choice between a column set definition and a column set reference.

**Content Model:** (ColumnSet | ColumnSetRef)

**Elements:**

Element	Type	Description
ColumnSet	ColumnSet (page 40)	Definition of a column set (columns and keys for the code list).
ColumnSetRef	ColumnSetRef (page 44)	Reference to a column set defined in an external column set or code list document.

## ColumnSetContent (Model Group)

Specific details of a column set.

**Content Model:** ((Column | ColumnRef)\* , (Key | KeyRef)\*)

**Elements:**

Element	Type	Description
Column (from ColumnChoice on page 37)	Column (page 36)	Definition of a column.  <b>ColumnChoice:</b> A choice between a column definition and a column reference.
ColumnRef (from ColumnChoice on page 37)	ColumnRef (page 38)	Reference to a column defined in an external column set or code list.  <b>ColumnChoice:</b> A choice between a column definition and a column reference.
Key (from KeyChoice on page 52)	Key (page 51)	Definition of a key.  <b>KeyChoice:</b> A choice between a key definition and a key reference.
KeyRef (from KeyChoice on page 52)	KeyRef (page 53)	Reference to a key defined in an external column set or code list.  <b>KeyChoice:</b> A choice between a key definition and a key reference.

## ColumnSetDocument (Complex Type)

Document type for the definition of a column set, which is a set of code list columns and/or keys.

**Content Model:** ((Annotation? , Identification) , ((Column | ColumnRef)\* , (Key | KeyRef)\*))

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation (from DocumentHeader on page 48)	Annotation (page 29)	<p>User annotation information.</p> <p><b>DocumentHeader:</b></p> <p>General document information for the column set.</p>
Identification (from DocumentHeader on page 48)	Identification (page 49)	<p>Identification and location information (metadata).</p> <p><b>DocumentHeader:</b></p> <p>General document information for the column set.</p>
Column (from ColumnChoice on page 37)	Column (page 36)	<p>Definition of a column.</p> <p><b>ColumnChoice:</b></p> <p>A choice between a column definition and a column reference.</p> <p><b>ColumnSetContent:</b></p> <p>Details of the column set.</p>
ColumnRef (from ColumnChoice on page 37)	ColumnRef (page 38)	<p>Reference to a column defined in an external column set or code list.</p> <p><b>ColumnChoice:</b></p> <p>A choice between a column definition and a column reference.</p> <p><b>ColumnSetContent:</b></p> <p>Details of the column set.</p>
Key (from KeyChoice on page 52)	Key (page 51)	<p>Definition of a key.</p> <p><b>KeyChoice:</b></p> <p>A choice between a key definition and a key reference.</p> <p><b>ColumnSetContent:</b></p> <p>Details of the column set.</p>
KeyRef (from KeyChoice on page 52)	KeyRef (page 53)	<p>Reference to a key defined in an external column set or code list.</p> <p><b>KeyChoice:</b></p> <p>A choice between a key definition and a key reference.</p> <p><b>ColumnSetContent:</b></p> <p>Details of the column set.</p>

**Attributes:**

Attribute	Usage	Type	Description
DatatypeLibrary (from DefaultDatatypeLibrary on page 47)	optional	xsd:anyURI	URI which uniquely identifies the default datatype library for the column set. If not provided, defaults to the URI for W3C XML Schema datatypes.  <b>DefaultDatatypeLibrary:</b> Identification of the default datatype library for the column set.
xml:base	optional		Base URL which applies to relative location URIs.  <b>Rules:</b> xml:base does not apply to canonical URIs.

**ColumnSetRef (Complex Type)**

Reference to a column set defined in an external column set or code list document.

**Rules:****Rule R17 [application] :**

The column set reference must be valid.

An application may use the CanonicalVersionUri to select a local copy of the column set or code list.

Otherwise the LocationUri value(s) may be tried in order, until a valid column set or code list document is retrieved.

An application must signal an error to the user if it is not able to retrieve a column set or code list document to match the column set reference.

**Content Model:** (Annotation? , (CanonicalVersionUri , LocationUri\*))

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation	Annotation (page 29)	User annotation for the referenced column set.

Element	Type	Description
CanonicalVersionUri (from IdentificationRefUriSet on page 50)	xsd:anyURI	<p>Canonical URI which serves as a unique identifier for this version.</p> <p><b>Rules:</b></p> <p>Must be an absolute URI, must not be relative.</p> <p>Must not be used as a de facto location URI.</p> <p><b>IdentificationRefUriSet:</b></p> <p>Identification of the external column set or code list document which contains the column set definition.</p>
LocationUri (from IdentificationRefUriSet on page 50)	xsd:anyURI	<p>Suggested retrieval location for this version, in genericcode format.</p> <p><b>Rules:</b></p> <p>An application must signal an error to the user if a document retrieved using a LocationUri is not in genericcode format.</p> <p><b>IdentificationRefUriSet:</b></p> <p>Identification of the external column set or code list document which contains the column set definition.</p>

**Attributes:**

Attribute	Usage	Type	Description
xml:base	optional		<p>Base URL which applies to relative location URIs.</p> <p><b>Rules:</b></p> <p>xml:base does not apply to canonical URIs.</p>

## Data (Complex Type)

Data type definition.

**Content Model:** (Annotation? , Parameter\*)

**Mixed Content:** No

**Elements:**

Element	Type	Description
Annotation	Annotation (page 29)	User annotation for the datatype.
Parameter	DatatypeFacet (page 47)	Facet parameter which refines the datatype.

**Attributes:**

Attribute	Usage	Type	Description
Type	required	xsd:token	<p>Unique ID for the datatype within its datatype library.</p> <p><b>Rules:</b></p> <p>The datatype ID must not include a namespace prefix.</p> <p>For the W3C XML Schema datatypes, possible datatype IDs are 'string', 'token', 'boolean', 'decimal', etc.</p> <p>If the data is complex (i.e. XML), this value is set to the root element name for the XML value, or '*' if the root element name is not restricted.</p>
DatatypeLibrary	optional	xsd:anyURI	<p>URI which uniquely identifies the datatype library.</p> <p><b>Rules:</b></p> <p>If this URI not explicitly provided, the datatype library for the enclosing column set is used.</p> <p>If the data is complex (i.e. XML), this value is set to the namespace URI for the XML, or '*' if the namespace URI is not restricted.</p>
Lang (from Language on page 55)	optional	xsd:language	<p>Language code which accepts the same values as 'xml:lang'.</p> <p>Unlike 'xml:lang', the scope of the language definition is not restricted to the XML content within the element where the 'lang' attribute appears.</p> <p><b>Language:</b></p> <p>Language from which the data is taken or derived.</p>

**DataRestrictions (Complex Type)**

Restrictions to a data type.

**Rules:**

**Rule R23 [document] :**

The 'gc:lang' attribute may be specified only if no language is already set for the data type that is being restricted.

**Content Model:** (Parameter\*)

**Mixed Content:** No

**Elements:**

Element	Type	Description
Parameter	DatatypeFacet (page 47)	Facet parameter which refines the datatype.

**Attributes:**

Attribute	Usage	Type	Description
Lang (from Language on page 55)	optional	xsd:language	Language code which accepts the same values as 'xml:lang'.  Unlike 'xml:lang', the scope of the language definition is not restricted to the XML content within the element where the 'lang' attribute appears.  <b>Language:</b> Language from which the data is taken or derived.

### DatatypeFacet (Complex Type)

Facet information for refining a datatype.

**Extension of:** xsd:string

**Attributes:**

Attribute	Usage	Type	Description
ShortName	required	xsd:token	Short name (token) for the datatype facet.
LongName	optional	xsd:normalizedString	Long name for the datatype facet.

### DefaultDatatypeLibrary (Attribute Group)

Identification of the default datatype library for a column set.

**Attributes:**

Attribute	Usage	Type	Description
DatatypeLibrary	optional	xsd:anyURI	URI which uniquely identifies the default datatype library for the column set. If not provided, defaults to the URI for W3C XML Schema datatypes.

**DocumentHeader (Model Group)**

General document information (metadata).

**Content Model:** (Annotation? , Identification)

**Elements:**

Element	Type	Description
Annotation	Annotation (page 29)	User annotation information.
Identification	Identification (page 49)	Identification and location information (metadata).

**ExternalReference (Attribute Group)**

Attribute set used to identify a definition within an external document.

**Attributes:**

Attribute	Usage	Type	Description
ExternalRef	required	xsd:NCName	Unique ID within the external document.  <b>Rules:</b> The external reference must not be prefixed with a '#' symbol.

**GeneralIdentifier (Complex Type)**

An identifier value. Typically not a long or short name.

**Extension of:** xsd:normalizedString

**IdDefinition (Attribute Group)**

Attribute set used to identify a definition within the document.

**Attributes:**

Attribute	Usage	Type	Description
Id	required	xsd:ID	Unique ID within the document.



## Identification (Complex Type)

Identification and location information (metadata).

**Content Model:** ((ShortName , LongName\*), Version , CanonicalUri , (CanonicalVersionUri , LocationUri\* , AlternateFormatLocationUri\*) , Agency?)

**Mixed Content:** No

**Elements:**

Element	Type	Description
ShortName (from NameSet on page 55)	ShortName (page 57)	Short name (without whitespace). <b>NameSet:</b> Various names.
LongName (from NameSet on page 55)	LongName (page 55)	Human-readable name. <b>NameSet:</b> Various names.
Version	xsd:token	Version identifier.
CanonicalUri	xsd:anyURI	Canonical URI which uniquely identifies all versions (collectively). <b>Rules:</b> Must be an absolute URI, must not be relative. Must not be used as a de facto location URI.
CanonicalVersionUri (from VersionLocationUriSet on page 60)	xsd:anyURI	Canonical URI which uniquely identifies this version. <b>Rules:</b> Must be an absolute URI, must not be relative. Must not be used as a de facto location URI. <b>VersionLocationUriSet:</b> Identification and location URIs for the version.
LocationUri (from VersionLocationUriSet on page 60)	xsd:anyURI	Suggested retrieval location for this version, in genericcode format. <b>Rules:</b> An application must signal an error to the user if a document retrieved using a LocationUri is not in genericcode format. <b>VersionLocationUriSet:</b> Identification and location URIs for the version.















































































