



Blue Book Appendix

CHLexML

Data Standard for the
Representation of Swiss
Law Texts

Technical XML Reference

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Schema: CHLexML_110.xsd

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About The Swiss Legislation Data Standard

CHLexML is the answer to the growing desire to develop a structural framework for the storage, transmission and representation of Swiss law texts. By "Swiss" we mean that the standard covers Confederation laws as well as the many different styles of laws produced by the cantons. This particular goal has been pursued by involving experts from the Federal Office of Justice, the Federal Chancellery, the Federal Supreme Court of Switzerland, and experts representing the cantons.

The CHLexML standards documentation comprises the following documents, called books:

- *Elektronischer Datenstandard für Erlasstexte*¹ (Blue Book). Introduces the CHLexML data standard by providing hints and illustrations to the practical user. Contains many examples that show how to transform real-world norm texts into CHLexML. This document is available in German, French and Italian.
- *Data Standard for the Representation of Swiss Law Texts (Blue Book Appendix)*. A technical handbook for XML programmers (this document). Available in English only.

The entire standard documentation can be found on the Internet. See <http://www.chlexml.ch>.

About This Document

CHLexML is a data standard for the representation of Swiss law texts. This document is a technical appendix to the CHLexML Blue Book (German title: *Elektronischer Standard für Erlasstexte*). It is considered an integral part of the CHLexML standards documentation by addressing programmers and integration engineers.

This document is solely available in English.

How to Use This Document

This document is basically a collection of data sheets for each of the XML tags that you may find in a CHLexML document. It does not explain the concepts behind the schema, nor how to apply the standard in practice. It is strongly recommended to read the Blue Book (German title: *Elektronischer Standard für Erlasstexte*) prior to this one. Only then will you be able to find the information in this document comprehensive.

Important Technical Note

The XML schema expresses a number of integrity constraints, some of which use an Xpath notation that can cause schema validation errors with some XML parsers.

Some of the constraints in the published version of the XML schema are commented out. They will have no effect unless you uncomment them. Uncommenting may be useful only if your XML parser validates XML instance documents correctly in the presence of constraint expressions.

The XML schema has been tested against a number of XML parsers. Some worked fine while others failed. It is recommended that you check carefully with your parser prior to uncommenting the constraints.

¹ German title

XML Reference Data Sheets

norm	
Model	
Appearance	
Root Element	
Data Type	Occurrence
-	min = 1 / max = 1
Semantics / Business Rules	
<p>Identity integrity constraints are defined here:</p> <p>Uniqueness of article identifiers and part identifiers Unique attribute: ID Used to identify text (of type partType) by a unique number within the scope of the document.</p> <p>Uniqueness of link identifiers Unique element: linkID Used to identify links (of type linkType) by a unique number within the scope of the document.</p> <p>Uniqueness of comments Unique element: commentReferenced Unique attribute: commentReferencing Assures that for each comment referencing, i.e. a footnote, there is actually a comment (the comment referenced) in norm/normContents.</p>	

norm/editorsNotes	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>-</p>	

norm/editorsNotes/dateCreation	
<p>Data Type</p> <p>xs:date</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Creation date of this CHLexML file.</p>	

norm/editorsNotes/creator	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Name of the editor.</p>	

norm/editorsNotes/freeText	
<p>Data Type</p> <p>xs:string</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>A personal statement of the editor.</p>	

norm/metaData	
Model	
Data Type normMetadataType	Occurrence min = 1 / max = 1
Semantics / Business Rules Data about the norm. Not the text of the norm.	

norm/normContents	
Model	
Data Type -	Occurrence min = 1 / max = 1
Semantics / Business Rules This is where the text of the norm goes. CHLexML allows for the structuring of the norm text. By doing so, titles, paragraphs, and many other constituents of the norm can be specified and assigned to the appropriate hierarchical level.	

norm/normTail	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>A text at the end that does not belong to the norm as such. It consists of signatures (persons having authorized the norm), restrictions (clauses that express some sort of reservation), annotations (text not belonging to the norm but printed anyway), applications (to explain the scope of the norm), and the appendices.</p>	

norm/normTail/signatures	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>The norm's signatures. Signatures are names and titles of people who have authorized the norm. Check out the model: This element can occur many times.</p>	

norm/normTail/signatures/signature	
<p>Data Type</p> <p>textType1</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Semantics / Business Rules</p> <p>A particular signature.</p>	

norm/normTail/restrictions	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Restrictions and reservations applicable to the norm. Check out the model: This element can occur many times.</p>	

norm/normTail/restrictions/restriction	
<p>Data Type</p> <p>textType1</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Semantics / Business Rules</p> <p>A particular restriction.</p>	

norm/normTail/annotations	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>The norm's annotations. Usually text that is not an integral part of the norm but nevertheless printed. Check out the model: This element can occur many times.</p>	

norm/normTail/annotations/annotation	
<p>Data Type</p> <p>textType1</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Semantics / Business Rules</p> <p>A particular annotation.</p>	

norm/normTail/appendices	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Appendices are documents to which the norm refers, either contained in the norm itself or in a separate location. Check out the model: This element can occur many times.</p>	

norm/normTail/appendices/appendix	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Restrictions</p> <p>-</p>	<p>Attributes</p> <p>lang pubLanguageType (optional) → Language of the appendix.</p>
<p>Semantics / Business Rules</p> <p>A particular appendix. The child nodes each represent a different style of appendix, either a separately located document (external reference) or text that goes as an integral part of the norm (internal document).</p>	

norm/normTail/appendices/appendix/appendixReference	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>A reference to an external document.</p>	

norm/normTail/appendices/appendix/appendixReference/ description	
Data Type xs:string	Occurrence min = 1 / max = 1
Semantics / Business Rules A title or description (summary) of the external appendix.	

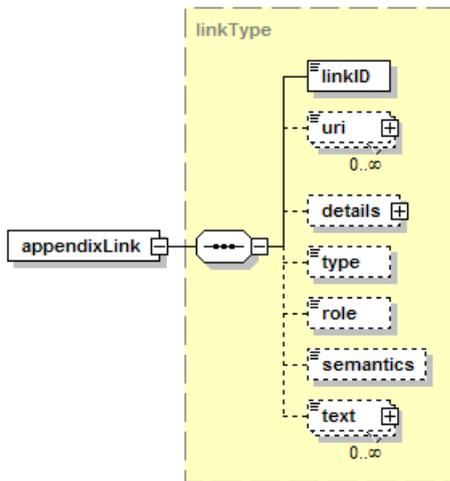
norm/normTail/appendices/appendix/appendixReference/ comment	
Model	
Data Type commentType	Occurrence min = 0 / max = unbounded
Semantics / Business Rules A footnote marker	

norm/normTail/appendices/appendix/appendixReference/ appendixContent	
Model	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules If the referenced appendix belongs to the same norm compendium, appendixNormID points to that document. Otherwise, the referenced appendix specifies a fully external document.	

norm/normTail/appendices/appendix/appendixReference/ appendixContent/appendixNormID	
Data Type xs:token	Occurrence min = 1 / max = 1
Semantics / Business Rules Identifies a document that belongs to the same compendium as the norm.	

norm/normTail/appendices/appendix/appendixReference/appendixContent/appendixLink

Model



Data Type

linkType

Occurrence

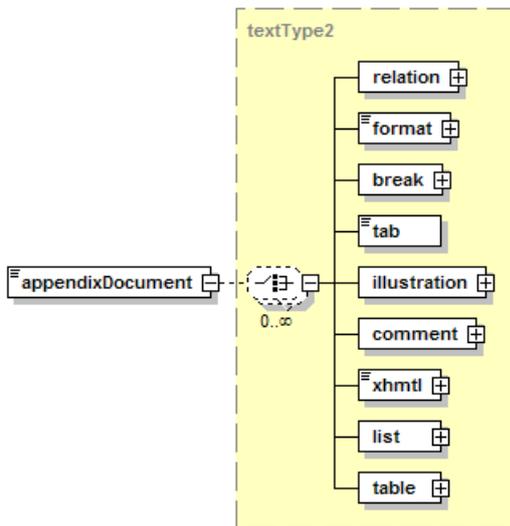
min = 1 / max = 1

Semantics / Business Rules

Identifies an external document.

norm/normTail/appendices/appendix/appendixDocument

Model



Data Type

textType1

Occurrence

min = 1 / max = 1

Semantics / Business Rules

A representation of the appendix text, contained within the norm text.

norm/normTail/applications	
Model	
Data Type	Occurrence
-	min = 0 / max = 1
Semantics / Business Rules	
The domain of application of the norm. Examples are international norms that specify adopting nations. Check out the model: This element can occur many times.	

norm/normTail/applications/application	
Data Type	Occurrence
textType1	min = 1 / max = unbounded
Semantics / Business Rules	
A particular entry about the application of the norm.	

norm/normComments	
Model	
Data Type	Occurrence
-	min = 0 / max = 1
Semantics / Business Rules	
This is where all the comments reside.	

norm/normComments/normComment	
Model	
Data Type	Occurrence
-	min = 1 / max = unbounded
Semantics / Business Rules	
A particular comment.	

norm/normComments/normComment/commentReferenced	
Data Type xs:int	Occurrence min = 1 / max = 1
Semantics / Business Rules Unique identifier of the comment within the scope of this document. Used to unambiguously tie a footnote marker (of type commentType) in the norm's text to the actual comment text. An identity constraint assures that for each commentReferenced element there is actually content available for it.	

norm/normComments/normComment/commentNumber	
Data Type xs:token	Occurrence min = 0 / max = 1
Semantics / Business Rules A number visible to the reader of a document. Can be assigned automatically during the generation of a text for printing or viewing or it can be explicit (in which case the number would never change).	

norm/normComments/normComment/commentText	
Model	
<p>The diagram shows a class <code>commentText</code> on the left. A dashed line connects it to a dashed box labeled <code>referenceType2</code>. Inside <code>referenceType2</code>, there are three classes: <code>relation</code>, <code>comment</code>, and <code>break</code>. A dashed circle around the connection point in <code>referenceType2</code> is labeled <code>0..∞</code>, indicating a multiplicity of zero or more.</p>	
Data Type referenceType2	Occurrence min = 1 / max = 1
Semantics / Business Rules The actual text of the comment.	

norm/history	
Model	
<pre> classDiagram class historyType { hNormID hNormNumber hIngress hNormMetadata hStructures hArticles hSignatures hApplication hRestrictions hAppendices hComments previousHistory } class history history "1" -- "*" historyType </pre>	
Data Type historyType	Occurrence min = 0 / max = 1
Semantics / Business Rules	
A record of the relevant changes with respect to the previous version or edition.	

articleMetadataType	
Model	
Appearance	
articleType/articleMetadata	
Attributes	
ID	xs:token (required) → Assures that an instance of articleMetadataType is uniquely identified throughout the document. The identity constraint serves to render ID unique.
Remarks	
Specifies the contents of metadata to an article.	

articleMetadataType/articleForm	
Data Type	Occurrence
xs:token	min = 1 / max = 1
Semantics / Business Rules	
Specifies the visible string or character used to denote a new article. Examples are "Artikel", "Art.", "§".	

articleMetadataType/articleNumber	
Model	
Data Type	Occurrence
referenceType2	min = 0 / max = 1
Semantics / Business Rules	
An article's printed number, like "44" or "65 bis."	

articleMetadataType/articleNumber/number	
Data Type xs:token	Occurrence min = 1 / max = 1
Restrictions -	Attributes quiet xs:boolean (optional) → if it's there, then suppress articleNumber. If it's not there, then show articleNumber
Semantics / Business Rules The actual number of the article.	

articleMetadataType/articleNumber/comment	
Model	
<pre> classDiagram class commentType { commentReferencing number origin } class comment { commentType } commentType "0..∞" -- "1" comment </pre>	
Data Type commentType	Occurrence min = 0 / max = unbounded
Semantics / Business Rules Article numbers can contain a footnote marker.	

articleMetadataType/articleHeaders	
Model	
<pre> classDiagram class articleHeaders { articleHeader } articleHeaders "1" -- "1..∞" articleHeader </pre>	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules The heading or title of the article.	

articleMetadataType/articleHeaders/articleHeader	
<p>Model</p>	
<p>Data Type textType1</p>	<p>Occurrence min = 1 / max = unbounded</p>
<p>Semantics / Business Rules The article's title in a specific language.</p>	

articleMetadataType/relation	
<p>Model</p>	
<p>Data Type relationType</p>	<p>Occurrence min = 0 / max = 1</p>
<p>Semantics / Business Rules A reference to another norm (or parts thereof).</p>	

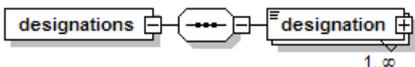
articleType	
Model	
<pre> graph LR articleType[articleType] --- container((...)) container --- articleMetadata[articleMetadata] container --- articleBody[articleBody] </pre>	
Appearance	
structureType/structure/normTexts/article	
Attributes	
-	
Remarks	
Specifies the structure of an article. An article is comprised of metadata (data about the article), and the article's text.	

articleType/articleMetadata	
Model	
<pre> graph LR articleMetadata[articleMetadata] --- container((...)) container --- attributes[attributes] container --- articleForm[articleForm] articleForm --- articleNumber[articleNumber] articleForm --- articleHeaders[articleHeaders] articleForm --- relation[relation] </pre>	
Data Type	Occurrence
articleMetadataType	min = 1 / max = 1
Restrictions	Attributes
-	ID xs:token (required) → see definition on page 20.
Semantics / Business Rules	
Information about the article.	

articleType/articleBody	
Model	
Data Type	Occurrence
-	min = 1 / max = 1
Semantics / Business Rules	
The article's content.	

articleType/articleBody/articleText	
Model	
Data Type	Occurrence
-	min = 1 / max = unbounded
Restrictions	Attributes
-	lang pubLanguageType (optional) → See definition on page 63.
Semantics / Business Rules	
The article's text.	

authorityType
<p>Model</p>  <pre> classDiagram class authorityType { +designations } </pre>
<p>Appearance</p> <p>authorType/canton authorType/ch authorType/supranational</p>
<p>Attributes</p> <p>-</p>
<p>Remarks</p> <p>authorityType is used to specify an authority.</p>

authorityType/designations	
<p>Model</p>  <pre> classDiagram class designations { +designation } </pre>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Names of a public authority.</p>	

authorityType/designations/designation	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Restrictions</p> <p>-</p>	<p>Attributes</p> <p>lang pubLanguageType (optional) → Language of the authority's name.</p>
<p>Semantics / Business Rules</p> <p>The name of an authority, e.g. "Eidg. Wettbewerbskommission". More than one name may be assigned, possibly in different languages.</p>	

authorType	
Model	
Appearance	
normMetadataType/authors/author	
Attributes	
-	
Remarks	
The author of the norm. (Not to be confused with the editor).	

authorType/designations	
Model	
Data Type	Occurrence
authorityType	min = 1 / max = 1
Semantics / Business Rules	
An international body, like "UN" or "EU".	

authorType/ch	
Model	
Data Type	Occurrence
authorityType	min = 1 / max = 1
Semantics / Business Rules	
A federal body.	

authorType/canton	
<p>Model</p>	
<p>Data Type authorityType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Restrictions -</p>	<p>Attributes short cantonType (required)</p>
<p>Semantics / Business Rules The author is a cantonal body.</p>	

authorType/commune	
<p>Model</p>	
<p>Data Type -</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules A commune or municipality.</p>	

authorType/commune/short	
<p>Data Type cantonType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Canton of the municipality.</p>	

authorType/commune/bfs	
Data Type xs:token	Occurrence min = 1 / max = 1
Semantics / Business Rules The municipality's unique number as issued by the Swiss Federal Statistical Office.	

authorType/commune/text1	
Data Type xs:token	Occurrence min = 1 / max = 1
Semantics / Business Rules Free text. The name of the municipality in conformance to the Swiss Federal Statistical Office's notation.	

authorType/commune/text2	
Data Type xs:token	Occurrence min = 0 / max = 1
Semantics / Business Rules Free text – name of the municipality in another official language, if applicable.	

authorType/other	
Data Type xs:token	Occurrence min = 1 / max = 1
Semantics / Business Rules RESERVED FOR LATER USE.	

commentType
<p>Model</p> <pre> classDiagram class commentType class commentReferencing class number class origin commentType < -- commentReferencing commentType < -- number commentType < -- origin </pre>
<p>Appearance</p> <p>norm/normTail/appendices/appendix/appendixReference/comment articleMetadataType/articleNumber/comment normMetadataType/normNumber/comment referenceType1/comment structureType/structure/structureContents/structureContent/structureText/comment textType2/comment</p>
<p>Attributes</p> <p>-</p>
<p>Remarks</p> <p>commentType is used to introduce a "footnote marker" in the norm's text.</p>

commentType/commentReferencing	
<p>Data Type</p> <p>xs:int</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Refers to a comment located in the norm/normComments section. It is the comment having this identifier in its commentReferenced element. An identity constraint assures that for each commentReferencing element there is actually content available for it.</p>	

commentType/number	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>A character or string to specify the comment number (footnote number) as it appears on screen or on paper.</p>	

commentType/origin	
Data Type xs:token	Occurrence min = 0 / max = 1
Restrictions Enumeration A Enumeration P Enumeration O	Attributes -
Semantics / Business Rules The originator of the comment, either the author or the publisher. A: author P: publisher O: other, unspecified	

historyType	
Model	
Appearance	<p>norm/history</p> <p>historyType/previousHistory</p>
Attributes	-
Remarks	<p>historyType specifies where in the document changes have occurred from one edition to another or from one version to another. historyType is a self-referencing structure, it contains an element of its own type, previousHistory. If you dig down into all previousHistory elements recursively, you actually unfold the document's history of changes by rewinding all previous editions and versions one by one. You can thus find out what changes were applied to the norm at a specific point in time.</p> <p>A new edition (German: "Fassung") of a norm is the result of a <i>major change</i>, e.g. the cancellation of an article or the introduction of a new chapter. This is normally initiated by the author of the norm.</p> <p>A new version of a norm is the result of a <i>minor change</i>, like fixing a typo. Can be initiated by the author or the publisher.</p>

historyType/hNormID	
Data Type normIDType	Occurrence min = 1 / max = 1
Restrictions Pattern: \d{5}\.\d{4}	Attributes -
Semantics / Business Rules Identifies the edition and version of the norm from which the changes in <code>norm/history</code> are being reported. Most probably the version just before the current one.	

historyType/hNormNumber	
Data Type -	Occurrence min = 0 / max = 1
Restrictions	Attributes <code>oldnumber</code> xs.token (required) → previous number of this norm
Semantics / Business Rules Indicates that <code>normMetadata/normNumber</code> was changed (either the number itself or a comment to the number). This is NOT the norms unique identifier but the number which is used in the compendium. It may change from time to time. This is considered a minor change.	

historyType/hIngress	
Data Type -	Occurrence min = 0 / max = 1
Restrictions	Attributes <code>historyChange</code> xs:token (required) → {insert, modify, delete}
Semantics / Business Rules The ingress in <code>norm/normMetadata/ingress</code> was changed.	

historyType/hNormMetadata	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Changes in the metadata.</p>	

historyType/hNormMetadata/hHeaders	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p>
<p>Semantics / Business Rules</p> <p>At least one of the headers in <code>norm/normMetadata/headers</code> was changed.</p>	

historyType/hNormMetadata/hAbbreviations	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p>
<p>Semantics / Business Rules</p> <p>At least one of the abbreviations in <code>norm/normMetadata/abbreviations</code> was changed.</p>	

historyType/hNormMetadata/hShortTitles	
Data Type -	Occurrence min = 0 / max = 1
Restrictions	Attributes historyChange xs:token (required) → {insert, modify, delete}
Semantics / Business Rules At least one of norm/normMetadata/shortTitles/title was changed.	

historyType/hNormMetadata/hType	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules The document's type classification in norm/normMetadata/type was changed.	

historyType/hNormMetadata/hAuthors	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules A change occurred in norm/normMetadata/authors.	

historyType/hNormMetadata/hInitialAdoption	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules There was a change in norm/normMetadata/adoption/initialAdoption.	

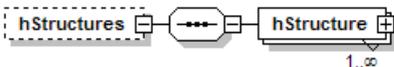
historyType/hNormMetadata/hCurrentAdoption	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules There was a change in norm/normMetadata/adoption/currentAdoption.	

historyType/hNormMetadata/hDateInitialForce	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules There was a change in norm/normMetadata/dates/dateInitialForce.	

historyType/hNormMetadata/hDateForce	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules There was a change in norm/normMetadata/dates/dateForce.	

historyType/hNormMetadata/hDateAbrogation	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules There was a change in norm/normMetadata/dates/dateAbrogation.	

historyType/hNormMetadata/hDateAssured	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules There was a change in norm/normMetadata/dates/dateAssured.	

historyType/hStructures	
Model  <pre> classDiagram class hStructures class hStructure hStructures "1" -- "1..∞" hStructure </pre>	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules Indicates the presence of changes of titles or even the entire structure.	

historyType/hStructures/hStructure	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p> <p>historyImpact xs:token (required) → {minor, major}</p> <p>historyID xs:int (required) → identifier of the element that was changed</p>
<p>Semantics / Business Rules</p> <p>Used to specify a change in the structure or in a title or many thereof. There is no indication of the structural level involved. However, the structural element in which the change occurred is identified by the <code>historyID</code> attribute.</p>	

historyType/hArticles	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Indicates the presence of changes in an article or parts thereof.</p>	

historyType/hArticles/hArticle	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p> <p>historyImpact xs:token (required) → {minor, major}</p> <p>historyID xs:int (required) → identifier of the element that was changed</p>
<p>Semantics / Business Rules</p> <p>Used to specify a change in the structure or in a title or many thereof. There is no indication of the structural level involved. However, the article in which the change occurred is identified by the <code>historyID</code> attribute.</p>	

historyType/hSignatures	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Some of the signatures have been changed (<code>norm/normTail/signatures</code> was changed).</p>	

historyType/hApplication	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p>
<p>Semantics / Business Rules</p> <p>There is a change in the domain of application, either nations or cantons. <code>norm/normTail/application</code> was changed.</p>	

historyType/hRestrictions	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p> <p>historyImpact xs:token (required) → {minor, major}</p>
<p>Semantics / Business Rules</p> <p>At least one of the norm's restrictions have changed. norm/normTail/restrictions was changed.</p>	

historyType/hAppendices	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>There is a change with the appendices (removal, addition, replacement, correction, update). norm/normTail/appendices was changed.</p>	

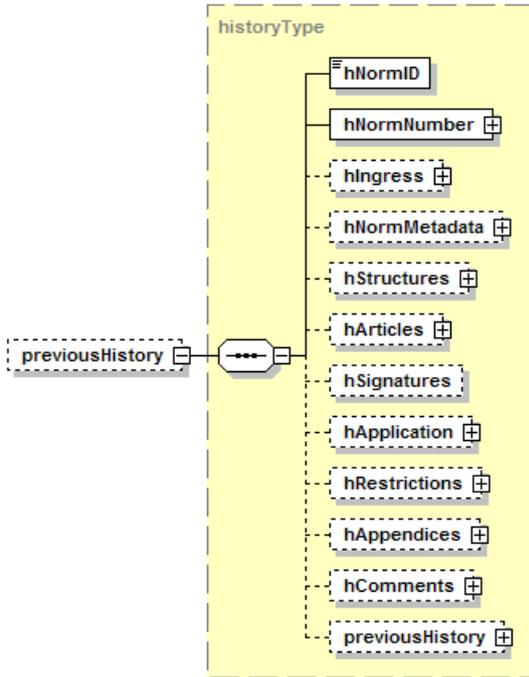
historyType/hAppendices/hAppendix	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p> <p>historyImpact xs:token (required) → {minor, major}</p> <p>normID normIDType (optional) → pattern: \d{5}\.\d{4}</p>
<p>Semantics / Business Rules</p> <p>Used to specify a change in a specific appendix. The appendix itself is identified using normID. One of the norm/normTail/appendices/appendix was changed.</p>	

historyType/hComments	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>At least one of the comments was changed or added. norm/normComments was changed.</p>	

historyType/hComments/hComment	
<p>Model</p> <pre> classDiagram class hComment { "1..∞" } class attributes { historyChange historyImpact hCommentReferenced } hComment -- attributes </pre>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Restrictions</p>	<p>Attributes</p> <p>historyChange xs:token (required) → {insert, modify, delete}</p> <p>historyImpact xs:token (required) → {minor, major}</p> <p>hCommentReferenced xs:int (required) → pattern: \d{5}\.\d{4}</p>
<p>Semantics / Business Rules</p> <p>Specify the comment that was changed (one out of norm/normComments/normComment was changed).</p>	

historyType/previousHistory

Model



Data Type

-

Occurrence

min = 1 / max = unbounded

Semantics / Business Rules

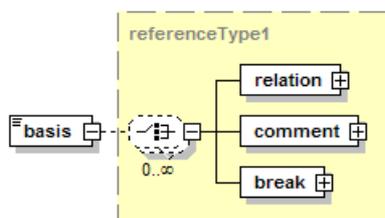
You can drill down the previousHistory section and find out about the changes that occurred to the norm at a specific point in time.

- norm/history: Information about the changes to the norm that have lead to the current version or edition
- norm/history/previousHistory: Information about the changes to the norm that have lead to the previous version or edition
- norm/history/previousHistory/previousHistory: Information about the changes to the norm that have lead to the version or edition just before the previous one
- and so on

ingressType
Model
Appearance
normMetadataType/ingress
Attributes
-
Remarks
ingressType specifies the contents of the ingress of a norm.

ingressType/ingressText	
Model	
Data Type	Occurrence
-	min = 1 / max = unbounded
Restrictions	Attributes
	lang pubLanguageType (optional)
Semantics / Business Rules	
The ingress text in a specific language.	

ingressType/ingressText/authorityDescription	
Data Type	Occurrence
xs:token	min = 1 / max = 1
Semantics / Business Rules	
Simple text specifying the authority in the ingress. Example: "Le conseil fédéral suisse ". Check out the model: This element can occur many times.	

ingressType/ingressText/basis**Model****Data Type**

referenceType1

Occurrence

min = 1 / max = 1

Semantics / Business Rules

Simple text specifying the legal basis in the ingress. Example: " vu l'art. 36 de la constitution fédérale".
 Check out the model: This element can occur many times.

ingressType/ingressText/formal**Data Type**

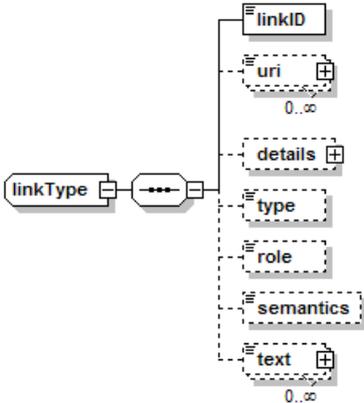
xs:token

Occurrence

min = 1 / max = 1

Semantics / Business Rules

Simple text specifying the authority's intention. Example: "beschliesst", "verordnet", etc.
 Check out the model: This element can occur many times.

linkType	
Model	
	
Appearance	
norm/normTail/appendices/appendix/appendixReference/appendixContent/appendixLink pictureDetailType/link publicationType/link relationType/link	
Attributes	
-	
Remarks	
The terminology of a link is somewhat different in CHLexML from the pure URL-centric view. Links in CHLexML are used to point to external documents. A link can be used for the bi-directional referencing of norms.	

linkType/linkID	
Data Type	Occurrence
xs:int	min = 1 / max = 1
Semantics / Business Rules	
A document-wide unique identification of the link. The identity constraint imposed on the linkID element identifies links by a unique number within the scope of the document.	

linkType/uri	
Data Type	Occurrence
xs:anyURI	min = 0 / max = unbounded
Restrictions	Attributes
	lang pubLanguageType (optional)
Semantics / Business Rules	
Used to store an internet address. Use the lang attribute to separate URIs of different languages from each other.	

linkType/details	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Details that might allow to reconstruct the link by means of the information in the child nodes.</p>	

linkType/details/journal	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Indicate the publication or compendium in which the linked entity is located.</p>	

linkType/details/yearOrNumber	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Either a specific year or the number of a publication, whichever is applicable.</p>	

linkType/details/page	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>The page number used for the publication specified by journal and yearOrNumber.</p>	

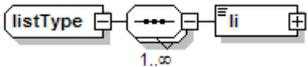
linkType/type	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Information about the type of relation that the document has to the one specified in the link. The linked document could be the legal basis, a glossary, a publication or any other "type".</p>	

linkType/role	
Data Type xs:token	Occurrence min = 0 / max = 1
Semantics / Business Rules RESERVED FOR LATER USAGE.	

linkType/semantics	
Data Type xs:token	Occurrence min = 0 / max = 1
Semantics / Business Rules RESERVED FOR LATER USAGE.	

linkType/text	
Data Type xs:token	Occurrence min = 0 / max = unbounded
Restrictions	Attributes lang pubLanguageType (optional)
Semantics / Business Rules Text that appears just before the link is used or activated. A tooltip.	

listType
<p>Model</p> 
<p>Appearance</p> <p>textType2/list</p>
<p>Attributes</p> <p>-</p>
<p>Remarks</p> <p>listType is used to represent bulleted and non-bulleted lists. As each list item, li, is a textType2, nested lists can easily be built.</p>

linkType/li	
<p>Model</p> 	
<p>Data Type</p> <p>xs:int</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>A list item.</p>	

normMetadataType	
Model	
Appearance	
norm/normMetadata	
Attributes	
-	
Remarks	
normMetadataType specifies information which is related to the document and normally not visible in the document's printout except for the "ingress" section and some of the dates.	

normMetadataType/status	
Model	
Data Type	Occurrence
-	min = 1 / max = 1
Semantics / Business Rules	
Is the norm in the systematic collection of laws?	

normMetadataType/status/active	
Data Type -	Occurrence min = 1 / max = 1
Restrictions	Attributes chLexMLref chLexMLrefType (required)
Semantics / Business Rules The norm belongs to the systematic collection of laws (or will belong there shortly).	

normMetadataType/status/inactive	
Data Type -	Occurrence min = 1 / max = 1
Semantics / Business Rules At the time of edition, the norm does not belong to the systematic collection of laws.	

normMetadataType/normNumber	
Model	
<pre> classDiagram class normNumber class collection class normID class number class comment normNumber --> container((...)) container --> collection container --> normID container --> number container -.-> comment </pre>	
Data Type -	Occurrence min = 1 / max = 1
Semantics / Business Rules Norm identification record.	

normMetadataType/normNumber/collection	
Data Type xs:token	Occurrence min = 1 / max = 1
Semantics / Business Rules A compendium (collection of laws) with a regional scope, possibly defined by the territory of a canton or municipality. Examples of compendiums are: CH, SG, NE. Each compendium has got its own identifier.	

normMetadataType/normNumber/normID	
Data Type normIDType	Occurrence min = 1 / max = 1
Restrictions Pattern: \d{5}\.\d{4}	Attributes -
Semantics / Business Rules The norm's unique identifier <u>of a specific edition</u> within the scope of the systematic compendium (of the Swiss Federation or a canton).	

normMetadataType/normNumber/number	
Data Type xs:token	Occurrence min = 1 / max = 1
Semantics / Business Rules The norm's visible number. It may be unique at some point in time and become obsolete or ambiguous at another point in time. Should not be considered a technical unique identifier. Not necessarily a unique number. For example, appendices and other documents must not have the same number as the principal norm.	

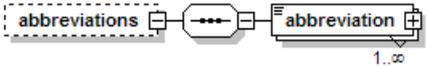
normMetadataType/normNumber/comment	
Model	
<pre> classDiagram class commentType { commentReferencing number origin } class comment commentType .. comment </pre>	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules A footnote marker located near the norm number.	

normMetadataType/headers	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Heading information that usually is located at the beginning of the norm's title, e.g. "Appendix 15", "Translation", "Original Text".</p>	

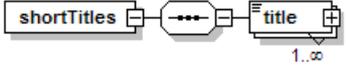
normMetadataType/headers/header	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Restrictions</p>	<p>Attributes</p> <p>lang pubLanguageType (optional)</p>
<p>Semantics / Business Rules</p> <p>A header in this context is either the indication of an appendix or a prologue. It can read differently in different languages.</p>	

normMetadataType/headers/header/appendixText	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>sort xs:int (optional)</p>
<p>Semantics / Business Rules</p> <p>Text that appears before or above the actual appendix title. The sort attribute is used to specify the order in which the list of appendices is printed.</p>	

normMetadataType/headers/header/headerText	
Data Type xs:token	Occurrence min = 0 / max = 1
Semantics / Business Rules A "prologue" to the norm's title, like "Translation" or "Original Text".	

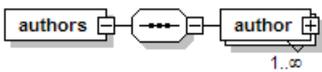
normMetadataType/abbreviations	
Model 	
Data Type -	Occurrence min = 0 / max = 1
Semantics / Business Rules The norm's abbreviations or acronyms, like "OR", "ZGB" and so on.	

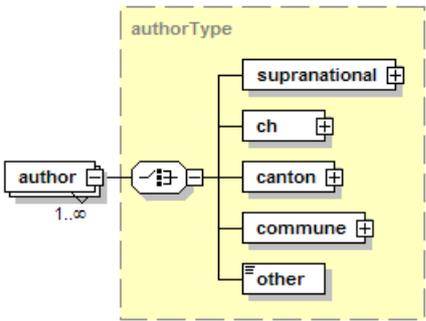
normMetadataType/abbreviations/abbreviation	
Data Type xs:int	Occurrence min = 1 / max = unbounded
Restrictions	Attributes lang pubLanguageType (optional)
Semantics / Business Rules A particular abbreviation, e.g. "OR" or "ZGB".	

normMetadataType/shortTitles	
Model 	
Data Type -	Occurrence min = 1 / max = 1
Semantics / Business Rules A shorter form of the norm's title. You must provide at least one short title. If there is no useful short title you should insert the documents full title (repeat the norm title).	

normMetadataType/shortTitles/title	
Data Type xs:token	Occurrence min = 1 / max = unbounded
Restrictions	Attributes lang pubLanguageType (optional)
Semantics / Business Rules One of the possibly many short titles in a specific language.	

normMetadataType/type	
Data Type xs:token	Occurrence min = 1 / max = 1
Semantics / Business Rules Specifies the type (or class) of a norm. Examples are "constitutional", "report", "annex", "correspondence", "communiqué", and so on.	

normMetadataType/authors	
Model 	
Data Type -	Occurrence min = 1 / max = 1
Semantics / Business Rules The possibly many authors of the norm.	

normMetadataType/authors/author	
Model 	
Data Type -	Occurrence min = 1 / max = unbounded
Semantics / Business Rules A particular author.	

normMetadataType/adoption	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Contains the details about the norm's dates of adoption</p>	

normMetadataType/adoption/initialAdoption	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Information about the initial adoption of the norm.</p>	

normMetadataType/adoption/initialAdoption/yearInitialAdopted	
<p>Data Type</p> <p>xs:gYear</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>isEstimated xs:boolean (optional)</p>
<p>Semantics / Business Rules</p> <p>The year in which the norm was adopted. isEstimated indicates that the year may not have been known exactly.</p>	

normMetadataType/adoption/initialAdoption/dateInitialAdopted	
<p>Data Type</p> <p>xs:date</p>	<p>Occurrence</p> <p>min = 0 / max = unbounded</p>
<p>Semantics / Business Rules</p> <p>The day on which the norm was adopted. There may be more than one date of adoption in cases where many parties adopt the norm one by one, but not on the same day. This situation often arises with international contracts, for instance.</p>	

normMetadataType/adoption/initialAdoption/firstPublication	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>lang pubLanguageType (optional)</p>
<p>Semantics / Business Rules</p> <p>First publication in the official gazette ("Amtsblatt"). In federal norms, this date is printed as the first footnote on page one without a footnote number.</p>	

normMetadataType/adoption/currentAdoption	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = unbounded</p>
<p>Semantics / Business Rules</p> <p>Date of adoption of this edition. It may contain changes that have been retro-actively brought into effect.</p>	

normMetadataType/adoption/currentAdoption/dateCurrentAdopted	
<p>Data Type</p> <p>xs:date</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>The date of adoption of this edition.</p>	

normMetadataType/adoption/currentAdoption/adoptionPublication	
<p>Model</p>	
<p>Data Type publicationType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes lang pubLanguageType (optional)</p>
<p>Semantics / Business Rules Where the adoption date was published.</p>	

normMetadataType/dates									
<p>Model</p>									
<p>Data Type -</p>	<p>Occurrence min = 1 / max = 1</p>								
<p>Semantics / Business Rules</p> <p>A list of important dates pertaining to the norm. There are two kinds of events, each having a different effect on the norm.</p> <p><u>Major changes</u> are changes to the content or to another part of high importance. A major change always results in a new edition of the norm. When a new edition is released, dateLastChange is updated and dateVersion is set to dateLastChange.</p> <p><u>Minor changes</u> are editorial in nature (typos, for instance) and do not affect the validity of the norm at all. They result in a change of the version within an edition. When a new version is released, dateVersion is updated and dateLastChange left unchanged.</p> <p>Hence, editions and versions a hierarchical representations of major and minor change events that were applied to the norm at certain points in time. An example edition/version history of a norm might look like this:</p> <table border="0"> <tr> <td>1.1.2008</td> <td>Edition 1 / Version 01</td> </tr> <tr> <td>1.7.2008</td> <td>Edition 1 / Version 02</td> </tr> <tr> <td>1.10.2008</td> <td>Edition 1 / Version 03</td> </tr> <tr> <td>1.1.2010</td> <td>Edition 2 / Version 01</td> </tr> </table>		1.1.2008	Edition 1 / Version 01	1.7.2008	Edition 1 / Version 02	1.10.2008	Edition 1 / Version 03	1.1.2010	Edition 2 / Version 01
1.1.2008	Edition 1 / Version 01								
1.7.2008	Edition 1 / Version 02								
1.10.2008	Edition 1 / Version 03								
1.1.2010	Edition 2 / Version 01								

normMetadataType/dates/dateInitialForce	
Data Type xs:dateTime	Occurrence min = 0 / max = 1
Restrictions	Attributes isEstimated xs:boolean (optional)
Semantics / Business Rules The point in time when the norm was brought into effect for the first time. In rare cases the norm is effective to a particular group at some point in time and to another group at another point in time. An example of this is the federal personnel law (Bundespersonalgesetz). The CHLexML standard does not cover this situation. It allows for only one dateInitialForce element.	

normMetadataType/dates/dateForce	
Data Type xs:dateTime	Occurrence min = 0 / max = 1
Restrictions	Attributes isEstimated xs:boolean (optional)
Semantics / Business Rules Point in time when this particular edition of the norm was brought into effect. You must provide this date if the norm belongs to the systematic compendium (normMetadata/status/active). This date is probably the same as dateInitialForce (see above) with the very first edition that's published using CHLexML. In rare cases the norm is effective to a particular group at some point in time and to another group at another point in time. An example of this is the federal personnel law (Bundespersonalgesetz). The CHLexML standard does not cover this situation. It allows for only one dateForce element.	

normMetadataType/dates/dateVersion	
Data Type xs:date	Occurrence min = 0 / max = 1
Semantics / Business Rules Date of the last version change.	

normMetadataType/dates/abrogation	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Information about the norm's abrogation.</p> <p>In rare cases the norm's abrogation affects different groups of individuals to different points in time, making the abrogation a stepwise process. CHLexML cannot handle this kind of abrogation procedure.</p>	

normMetadataType/dates/abrogation/dateAbrogation	
<p>Data Type</p> <p>xs:date</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>This edition of the norm was in effect until this date.</p> <p>In rare cases the norm's abrogation affects different groups of individuals to different points in time, making the abrogation a stepwise process. CHLexML cannot handle this kind of abrogation procedure.</p>	

normMetadataType/dates/abrogation/abrogationPublication	
<p>Model</p>	
<p>Data Type</p> <p>publicationType</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>lang pubLanguageType (optional)</p>
<p>Semantics / Business Rules</p> <p>Publication of the abrogation of the norm as such.</p>	

normMetadataType/dates/assured	
<p>Model</p>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>There are situations when you don't know on what day the norm will actually be brought into effect, i.e. although dateForce is mentioned in the norm, you are not sure when this norm is applicable. dateAssured is the point in time when the date of effectiveness, dateForce, was known beyond doubt.</p> <p>Note the difference between dateAssured and dateForce: dateForce is specified in the norm itself whereas dateAssured is knowledge about when exactly all of this was certain.</p>	

normMetadataType/dates/assured/pending	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>dateAssured is not known yet.</p>	

normMetadataType/dates/assured/dateAssured	
<p>Data Type</p> <p>xs:date</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>The date when it was for sure that dateForce is correctly known.</p>	

normMetadataType/ingress	
<p>Model</p>	
<p>Data Type</p> <p>ingressType</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>The ingress.</p>	

normMetadataType/dependencies	
Model	
Data Type	Occurrence
-	min = 0 / max = 1
Semantics / Business Rules	
Relations and dependencies to other norms.	

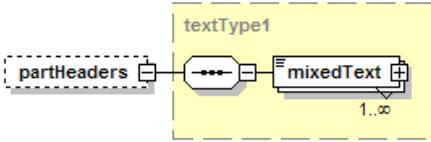
normMetadataType/dependencies/dependency	
Data Type	Occurrence
xs:token	min = 1 / max = unbounded
Restrictions	Attributes
	kind xs:token (required) {isAnnex, hasAnnex, follower, antecessor, dependsOn, masters}
Semantics / Business Rules	
isAnnex: The specified dependency is an annex to this norm. hasAnnex: This norm is an annex to the specified dependency. follower: The specified dependency is a follower document to this norm. antecessor: The specified dependency is a predecessor to this norm. dependsOn: The specified dependency in some way depends on this norm. masters: The specified dependency is dependent on this norm.	

normMetadataType/blackBox	
Model	
Data Type	Occurrence
xs:anyType	min = 0 / max = 1
Semantics / Business Rules	
A container for any sort of information.	

partMetadataType	
<p>Model</p>	
<p>Appearance</p> <p>partType/partMetadata</p>	
<p>Attributes</p> <p>ID xs:token (required)</p> <p>Assures that an instance of partMetadataType is uniquely identified throughout the document. The identity constraint serves to render ID unique all.</p>	
<p>Remarks</p> <p>partMetadataType contains the metadata applicable to a paragraph or alinea in an article.</p>	

partMetadataType/partNumber	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>quiet xs:boolean (optional)</p>
<p>Semantics / Business Rules</p> <p>Paragraphs (so called "alinea") in an article are usually numbered. Using the quiet attribute, the printing of the number is suppressed.</p>	

partMetadataType/typeOfPart	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Restrictions</p> <p>Enumeration A Enumeration C Enumeration N Enumeration L Enumeration O</p>	<p>Attributes</p>
<p>Semantics / Business Rules</p> <p>As a convention, use "A" for paragraphs (alinea), "C" for characters, "N" for numbers, "L" for listings, and "O" for other types.</p>	

partMetadataType/partHeaders	
<p>Model</p> 	
<p>Data Type</p> <p>textType1</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>Paragraphs (alinea) in an article normally do not have a heading of their own. However, in rare cases, they can have one, like in an international contract, for instance.</p>	

partType	
<p>Model</p>	
<p>Appearance</p> <p>articleType/articleBody/articleText partType/subparts/articleText</p>	
<p>Attributes</p> <p>lang pubLanguageType (optional)</p>	
<p>Remarks</p> <p>partType specifies the content and structure of a paragraph (or alinea) in an article.</p>	

partType/partMetadata	
<p>Model</p>	
<p>Data Type</p> <p>partMetadataType</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes</p> <p>ID xs:token (required)</p>
<p>Semantics / Business Rules</p> <p>The metadata applicable to a paragraph (alinea) in an article. The ID attribute assures that an instance of partMetadataType is uniquely identified throughout the document.</p>	

partType/partTexts	
Model	
Data Type	Occurrence
-	min = 1 / max = 1
Semantics / Business Rules	
The actual content, represented by possibly many "parts" (the partText elements).	

partType/partTexts/partText	
Model	
Data Type	Occurrence
textType1	min = 1 / max = unbounded
Semantics / Business Rules	
In general, a part text is a mix of freely structured text with text in tables.	

partType/transitory	
Model	
Data Type	Occurrence
referenceType1	min = 0 / max = 1
Semantics / Business Rules	
Specifies a temporary arrangement, if any.	

partType/subparts	
Model	
Data Type	Occurrence
-	min = 0 / max = 1
Semantics / Business Rules	
Alineas can be divided into yet smaller pieces of text, so called sub parts.	

partType/subparts/articleText	
Model	
Data Type	Occurrence
partType	min = 1 / max = unbounded
Restrictions	Attributes
	lang pubLanguageType (optional)
Semantics / Business Rules	
<p>Each sub-part of an alinea is a fully qualified partType. This is a recursive application of the partType type.</p> <p>In very rare cases, the structure of an alinea differs from one language to another (see OR 1033, for example). It is recommended to use comments (footnotes) instead of another layer of (lower-level) alineas in such a situation, as CHLexML cannot handle diverging structures induced by a language in any other way.</p>	

pictureDetailType	
Model	
<pre> graph LR A[pictureDetailType] --- B{ } B --- C[picture] B --- D[link] </pre>	
Appearance	
pictureType/pictureHigh pictureType/pictureLow	
Attributes	
-	
Remarks	
pictureDetailType specifies the technical elements of a picture used for illustration in a norm text.	

pictureDetailType/picture	
Data Type	Occurrence
xs:base64Binary	min = 1 / max = 1
Restrictions	Attributes
	fmt pictureNotationType (required)
Semantics / Business Rules	
Bytes of memory that represent a picture.	

partType/subparts/articleText	
Model	
<pre> graph LR A[link] --- B{ } B --- C[linkType] C --- D[linkID] C --- E[uri] C --- F[details] C --- G[type] C --- H[role] C --- I[semantics] C --- J[text] </pre>	
Data Type	Occurrence
linkType	min = 1 / max = 1
Semantics / Business Rules	
A link where to find the picture.	

pictureType	
Model	
Appearance	
textType2/illustration	
Attributes	
-	
Remarks	
pictureType specifies an illustration to be used in a norm text.	

pictureType/pictureLow	
Model	
Data Type	Occurrence
pictureDetailType	min = 0 / max = 1
Semantics / Business Rules	
A low resolution picture for web usage.	

pictureType/pictureHigh	
Model	
Data Type	Occurrence
pictureDetailType	min = 0 / max = 1
Semantics / Business Rules	
A high resolution picture for printing.	

pictureType/description	
Data Type xs:string	Occurrence min = 0 / max = 1
Semantics / Business Rules Content of a tooltip of the picture.	

publicationType
<p>Model</p> <pre> classDiagram class publicationType { lang } class container { link } class journalText { } publicationType "1" *-- "1" container container "1" *-- "1" journalText </pre>
<p>Appearance</p> <p>normMetadataType/dates/dateAbrogation/abrogationPublication normMetadataType/adoption/currentAdoption/adoptionPublication normMetadataType/adoption/initialAdoption/firstPublication</p>
<p>Attributes</p> <p>lang pubLanguageType (optional)</p>
<p>Remarks</p> <p>publicationType specifies where a text has been published.</p>

publicationType/journalText	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>The journal or gazette where this text (or norm) was published. Example publication location: "AS 2001 665"</p>	

publicationType/link	
Model	
<pre> classDiagram class link class linkType { linkID uri 0..∞ details type role semantics text 0..∞ } link "1" -- "1" linkType </pre>	
Data Type linkType	Occurrence min = 0 / max = 1
Semantics / Business Rules A link to a location where this text (or norm) was published.	

referenceType1	
Model	
Appearance	
ingressType/ingressText/basis partType/transitory referenceType2	
Attributes	
-	
Details	
mixed = true	
Remarks	
Specifies a reference to another text, e.g. a citation. Check out the details: this is mixed text (mixed is true).	

referenceType1/relation	
Model	
Data Type	Occurrence
relationType	min = 1 / max = 1
Semantics / Business Rules	
Specifies a reference to another norm, article or just a part thereof.	

referenceType1/comment	
<p>Model</p>	
<p>Data Type commentType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Comment pertaining to an element in the text.</p>	

referenceType1/break	
<p>Data Type xs:token</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes type xs:token (required) {pagebreak, columnbreak, line}</p>
<p>Semantics / Business Rules A break in the text with attribute type specifying the kind of break.</p>	

referenceType2
<p>Model</p> <pre> classDiagram class referenceType2 class referenceType1["referenceType1 (extension)"] class relation class comment class break referenceType2 -- > referenceType1 referenceType1 -- relation referenceType1 -- comment referenceType1 -- break referenceType2 "0..∞" -- "*" </pre>
<p>Appearance</p> <p>norm/normComments/normComment/commentText</p>
<p>Attributes</p> <p>-</p>
<p>Remarks</p> <p>Extends the usage of referenceType1.</p>

relationType	
Model	
Appearance	
articleMetadataType/relation referenceType1/relation structureType/structure/structureContents/structureContent/structureText/relation textType2/relation	
Attributes	
-	
Remarks	
Allows to declare the relation of something with an externally referenced entity (a document).	

relationType/source	
Data Type	Occurrence
xs:token	min = 1 / max = 1
Semantics / Business Rules	
The source being referenced.	

relationType/source	
Model	
Data Type	Occurrence
linkType	min = 0 / max = 1
Semantics / Business Rules	
A link to the referenced source, if applicable.	

structureType
<p>Model</p> <pre> graph LR ST[structureType] --- S1[...] S1 --- S2[...] S2 --- S3[...] S3 --- S4[...] S4 --- S5[...] S5 --- S6[...] S6 --- S7[...] S7 --- S8[...] S8 --- S9[...] S9 --- S10[...] S10 --- S11[...] S11 --- S12[...] S12 --- S13[...] S13 --- S14[...] S14 --- S15[...] S15 --- S16[...] S16 --- S17[...] S17 --- S18[...] S18 --- S19[...] S19 --- S20[...] S20 --- S21[...] S21 --- S22[...] S22 --- S23[...] S23 --- S24[...] S24 --- S25[...] S25 --- S26[...] S26 --- S27[...] S27 --- S28[...] S28 --- S29[...] S29 --- S30[...] S30 --- S31[...] S31 --- S32[...] S32 --- S33[...] S33 --- S34[...] S34 --- S35[...] S35 --- S36[...] S36 --- S37[...] S37 --- S38[...] S38 --- S39[...] S39 --- S40[...] S40 --- S41[...] S41 --- S42[...] S42 --- S43[...] S43 --- S44[...] S44 --- S45[...] S45 --- S46[...] S46 --- S47[...] S47 --- S48[...] S48 --- S49[...] S49 --- S50[...] S50 --- S51[...] S51 --- S52[...] S52 --- S53[...] S53 --- S54[...] S54 --- S55[...] S55 --- S56[...] S56 --- S57[...] S57 --- S58[...] S58 --- S59[...] S59 --- S60[...] S60 --- S61[...] S61 --- S62[...] S62 --- S63[...] S63 --- S64[...] S64 --- S65[...] S65 --- S66[...] S66 --- S67[...] S67 --- S68[...] S68 --- S69[...] S69 --- S70[...] S70 --- S71[...] S71 --- S72[...] S72 --- S73[...] S73 --- S74[...] S74 --- S75[...] S75 --- S76[...] S76 --- S77[...] S77 --- S78[...] S78 --- S79[...] S79 --- S80[...] S80 --- S81[...] S81 --- S82[...] S82 --- S83[...] S83 --- S84[...] S84 --- S85[...] S85 --- S86[...] S86 --- S87[...] S87 --- S88[...] S88 --- S89[...] S89 --- S90[...] S90 --- S91[...] S91 --- S92[...] S92 --- S93[...] S93 --- S94[...] S94 --- S95[...] S95 --- S96[...] S96 --- S97[...] S97 --- S98[...] S98 --- S99[...] S99 --- S100[...] </pre>
<p>Appearance</p> <p>norm/normContents structureType/subStructure/normContents</p>
<p>Attributes</p> <p>-</p>
<p>Remarks</p> <p>structureType represents the basic concept to subdivide a norm into smaller structural pieces. structureTypes are nested as often as necessary to reflect the textual structure of a norm.</p>

structureType/structure	
<p>Model</p> <pre> graph LR S[structure] --- S1[...] S1 --- S2[...] S2 --- S3[...] S3 --- S4[...] S4 --- S5[...] S5 --- S6[...] S6 --- S7[...] S7 --- S8[...] S8 --- S9[...] S9 --- S10[...] S10 --- S11[...] S11 --- S12[...] S12 --- S13[...] S13 --- S14[...] S14 --- S15[...] S15 --- S16[...] S16 --- S17[...] S17 --- S18[...] S18 --- S19[...] S19 --- S20[...] S20 --- S21[...] S21 --- S22[...] S22 --- S23[...] S23 --- S24[...] S24 --- S25[...] S25 --- S26[...] S26 --- S27[...] S27 --- S28[...] S28 --- S29[...] S29 --- S30[...] S30 --- S31[...] S31 --- S32[...] S32 --- S33[...] S33 --- S34[...] S34 --- S35[...] S35 --- S36[...] S36 --- S37[...] S37 --- S38[...] S38 --- S39[...] S39 --- S40[...] S40 --- S41[...] S41 --- S42[...] S42 --- S43[...] S43 --- S44[...] S44 --- S45[...] S45 --- S46[...] S46 --- S47[...] S47 --- S48[...] S48 --- S49[...] S49 --- S50[...] S50 --- S51[...] S51 --- S52[...] S52 --- S53[...] S53 --- S54[...] S54 --- S55[...] S55 --- S56[...] S56 --- S57[...] S57 --- S58[...] S58 --- S59[...] S59 --- S60[...] S60 --- S61[...] S61 --- S62[...] S62 --- S63[...] S63 --- S64[...] S64 --- S65[...] S65 --- S66[...] S66 --- S67[...] S67 --- S68[...] S68 --- S69[...] S69 --- S70[...] S70 --- S71[...] S71 --- S72[...] S72 --- S73[...] S73 --- S74[...] S74 --- S75[...] S75 --- S76[...] S76 --- S77[...] S77 --- S78[...] S78 --- S79[...] S79 --- S80[...] S80 --- S81[...] S81 --- S82[...] S82 --- S83[...] S83 --- S84[...] S84 --- S85[...] S85 --- S86[...] S86 --- S87[...] S87 --- S88[...] S88 --- S89[...] S89 --- S90[...] S90 --- S91[...] S91 --- S92[...] S92 --- S93[...] S93 --- S94[...] S94 --- S95[...] S95 --- S96[...] S96 --- S97[...] S97 --- S98[...] S98 --- S99[...] S99 --- S100[...] </pre>	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Semantics / Business Rules</p> <p>This is the basic structural element to specify the hierarchical levelling of texts in a norm.</p>	

structureType/structure/structureKind	
<p>Data Type</p> <p>xs:token</p>	<p>Occurrence</p> <p>min = 1 / max = 1</p>
<p>Restrictions</p> <p>Enumeration N Enumeration R Enumeration M Enumeration A</p>	<p>Attributes</p>
<p>Semantics / Business Rules</p> <p>There are four kinds of titles: N = Normal R = marginal title ("Randtitel") M = Major title of the norm ("Haupttitel") A = finalisation title ("Schlusstitel")</p>	

structureType/structure/structureLevel	
Data Type xs:byte	Occurrence min = 1 / max = 1
Restrictions minInclusive = 0 (greater than or equal to zero)	Attributes
Semantics / Business Rules The level of nesting of the structure. Theoretically, this information can be computed from the number of nested substructures in the element's path.	

structureType/structure/structureContents	
Model	
<p>The diagram shows a box labeled 'structureContents' connected to a larger box labeled 'attributes' which contains 'ID'. Below 'structureContents' is a list of 'structureContent' elements, indicated by a '1..∞' cardinality.</p>	
Data Type -	Occurrence min = 1 / max = 1
Restrictions	Attributes ID xs:int (required)
Semantics / Business Rules The text of the heading of the structure, if any. Attribute ID assures that each structureContents element is uniquely identified throughout the document.	

structureType/structure/structureContents/structureContent	
Model	
<p>The diagram shows a box labeled 'structureContent' connected to a larger box labeled 'attributes' which contains 'lang', 'translation', and 'structureOrder'. Below 'structureContent' is a box labeled 'structureText', indicated by a '1..∞' cardinality.</p>	
Data Type -	Occurrence min = 1 / max = unbounded
Restrictions	Attributes lang pubLanguageType (required) translation boolean (optional)
Semantics / Business Rules A particular heading (of a structure). It contains an optional ordering and the actual text.	

structureType/structure/structureContents/structureContent/structureOrder	
Data Type xs:token	Occurrence min = 0 / max = 1
Semantics / Business Rules Specifies printable text as a nomenclature of a specific structural level. Examples: "Abschnitt 1", "Erstes Kapitel".	

structureType/structure/structureContents/structureContent/structureText	
Model	
Data Type -	Occurrence min = 1 / max = 1
Semantics / Business Rules structureText is the actual heading of the structural level. It can contain text formatting information. Check this out: structureText is mixed (mixed is true).	

structureType/structure/structureContents/structureContent/structureText/relation	
Model	
Data Type -	Occurrence min = 1 / max = 1
Semantics / Business Rules Specifies a reference to another norm, article or just a part thereof.	

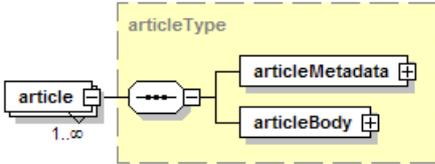
structureType/structure/structureContents/structureContent/structureText/format	
<p>Model</p> <pre> classDiagram class format class formatAttributeGroup { style capitals upper under underline } format --> formatAttributeGroup </pre>	
<p>Data Type xs:string</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes formatAttributeGroup See definition of this attribute group on page 90.</p>
<p>Semantics / Business Rules Specifies a reference to another norm, article or just a part thereof.</p>	

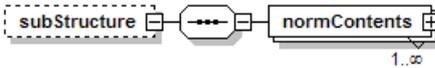
structureType/structure/structureContents/structureContent/structureText/break	
<p>Data Type -</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes type xs:token (required) {pagebreak, columnbreak, line}</p>
<p>Semantics / Business Rules Indicates a break in the text (either pagebreak, columnbreak, or linebreak)</p>	

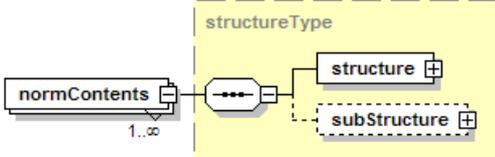
structureType/structure/structureContents/structureContent/structureText/comment	
<p>Model</p>	
<p>Data Type commentType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Specifies a comment in the heading text.</p>	

structureType/structure/structureContents/structureContent/structureText/subTitle	
<p>Data Type xs:token</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Additional text to specify the sub-title of the heading, if any.</p>	

structureType/structure/normTexts	
<p>Model</p>	
<p>Data Type -</p>	<p>Occurrence min = 0 / max = 1</p>
<p>Semantics / Business Rules This is where the actual norm text of a structure goes.</p>	

structureType/structure/normTexts/article	
<p>Model</p> 	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Semantics / Business Rules</p> <p>At a certain structural level in a norm, articles appear. Articles are a structure that is described in a separate type definition (see articleType).</p>	

structureType/subStructure	
<p>Model</p> 	
<p>Data Type</p> <p>-</p>	<p>Occurrence</p> <p>min = 0 / max = 1</p>
<p>Semantics / Business Rules</p> <p>In an norm, the structural levels are nested using the structureType. Each time a new (lower level) structure appears, subStructure is used to hold its data.</p>	

structureType/subStructure/normContents	
<p>Model</p> 	
<p>Data Type</p> <p>structureType</p>	<p>Occurrence</p> <p>min = 1 / max = unbounded</p>
<p>Semantics / Business Rules</p> <p>A new structure, one level below the current one.</p>	

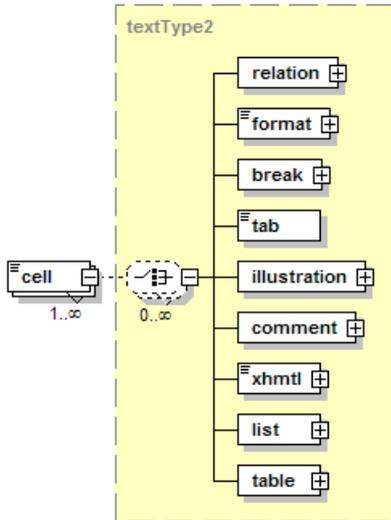
tableType	
Model	
<p>The diagram shows a box labeled 'tableType' connected to a container with three dots, which then branches into two boxes: 'tableContent' and 'description'. The 'description' box is enclosed in a dashed line, indicating it is optional.</p>	
Appearance	
textType2/table	
Attributes	
-	
Remarks	
tableType is used to specify text that appears in tables.	

tableType/tableContent	
Model	
<p>The diagram shows a box labeled 'tableContent' connected to a container with three dots, which then connects to a box labeled 'row'. Below the 'row' box is the occurrence '1..∞'.</p>	
Data Type	Occurrence
-	min = 1 / max = 1
Semantics / Business Rules	
This is where the table's contents go.	

tableType/tableContent/row	
Model	
<p>The diagram shows a box labeled 'row' connected to a container with three dots. This container branches into three elements: 'attributes', 'rowType', and 'cell'. The 'cell' box is connected to another container with three dots, which then connects to another 'cell' box. Occurrences '1..∞' are shown below the 'row' and the final 'cell' boxes.</p>	
Data Type	Occurrence
-	min = 1 / max = unbounded
Restrictions	Attributes
	rowType xs:token (optional) {header, data}
Semantics / Business Rules	
A row can contain any number of cells. The rowType attribute tells whether the row is a header or not.	

tableType/tableContent/row/cell

Model



Data Type

-

Occurrence

min = 1 / max = unbounded

Semantics / Business Rules

The cell contains the actual table text.

tableType/description

Data Type

xs:string

Occurrence

min = 0 / max = 1

Semantics / Business Rules

Use as a tooltip for explanations about the table. This is especially useful for the visually handicapped.

textType1	
Model	
Appearance	
<p>norm/normTail/annotations/annotation norm/normTail/applications/application norm/normTail/restrictions/restriction norm/normTail/signatures/signature articleMetadataType/articleHeaders/articleHeader partMetadataType/partHeaders partType/partTexts/partText</p>	
Attributes	
-	
Remarks	
<p>textType1e is used to write headings and other elements of the norm text. It contains a sequence of mixedText elements (they are, in turn, of type textType2).</p>	

textType1/mixedText	
Model	
Data Type	Occurrence
textType2	min = 1 / max = unbounded
Semantics / Business Rules	
A container of text elements.	

textType2	
Model	
Appearance	
norm/normTail/appendices/appendix/appendixDocument tableType/tableContent/row/cell listType/li textType1/mixedText	
Attributes	
-	
Remarks	
Basic data structure for a textType1 element.	

textType2/relation	
Model	
Data Type	Occurrence
relationType	min = 1 / max = 1
Semantics / Business Rules	
Apply to specify a reference to another norm, article or a part thereof.	

textType2/format	
<p>Model</p> <pre> classDiagram class format class attributes class grp_formatAttributeGroup["grp formatAttributeGroup"] class style class capitals class upper class under class underline format "1" -- "*" attributes attributes "1" -- "*" grp_formatAttributeGroup grp_formatAttributeGroup -- style grp_formatAttributeGroup -- capitals grp_formatAttributeGroup -- upper grp_formatAttributeGroup -- under grp_formatAttributeGroup -- underline </pre>	
<p>Data Type xs:string</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes formatAttributeGroup See definition of this attribute group on page 90.</p>
<p>Semantics / Business Rules Apply to specify the formatting of text.</p>	

textType2/break	
<p>Data Type -</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Restrictions</p>	<p>Attributes type xs:token (required) {pagebreak, columnbreak, line}</p>
<p>Semantics / Business Rules Add a break (either pagebreak, columnbreak, or linebreak) to your text.</p>	

textType2/tab	
<p>Data Type -</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Add a tab character to your text.</p>	

textType2/illustration	
<p>Model</p>	
<p>Data Type pictureType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Add a picture or image to your text.</p>	

textType2/comment	
<p>Model</p>	
<p>Data Type commentType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Add a comment (footnote) to your text.</p>	

textType2/xhtml1	
<p>Model</p>	
<p>Data Type xs:anyType</p>	<p>Occurrence min = 1 / max = 1</p>
<p>Semantics / Business Rules Add any kind of XML object to your text.</p>	

textType2/list	
Model	
Data Type	Occurrence
listType	min = 1 / max = 1
Semantics / Business Rules	
Add a list to your text.	

textType2/table	
Model	
Data Type	Occurrence
tableType	min = 1 / max = 1
Semantics / Business Rules	
Add a table to your text.	

cantonType	
Appearance	
authorType/commune/short authorType/canton (attribute short)	
Data Type	Restrictions
xs:token (restricted)	(See http://de.wikipedia.org/wiki/ISO_3166-2:CH)
	Enumeration CH-ZH
	Enumeration CH-BE
	Enumeration CH-LU
	Enumeration CH-UR
	Enumeration CH-SZ
	Enumeration CH-OW
	Enumeration CH-NW
	Enumeration CH-ZG
	Enumeration CH-FR
	Enumeration CH-GE
	Enumeration CH-VS
	Enumeration CH-VD
	Enumeration CH-NE
	Enumeration CH-JU
	Enumeration CH-BS
	Enumeration CH-BL
	Enumeration CH-AG
	Enumeration CH-SH
	Enumeration CH-TG
	Enumeration CH-SG
	Enumeration CH-AI
	Enumeration CH-AR
	Enumeration CH-GL
	Enumeration CH-GR
	Enumeration CH-TI
	Enumeration CH-SO

chLexMLrefType	
Appearance	
normMetadataType/status/active (attribute chLexMLref)	
Data Type	Restrictions
xs:token	-
Semantics / Business Rules	
<p>In CHLexML, other CHLexML documents are referenced using an identifier of type chLexMLrefType which is composed of the following elements:</p> <p>compendium: the name or symbol of a compendium of laws number: the norm's systematic number in the compendium adopted: date of adoption of the norm force: date when the norm was brought into force</p> <p>The reference is constructed like this: compendium / number [adopted, force]</p> <p>Example: CH/101[1999, 20.11.2008] Bundesverfassung (angenommen 1999, in Kraft getreten am 20. Nov. 2008)</p>	

normIDType	
Appearance	
historyType/hNormID normMetadataType/normNumber/normID historyType/hStructures/hStructure (attribute historyID) historyType/hArticles/hArticle (attribute historyID) historyType/hAppendices/hAppendix (attribute normID)	
Data Type	Restrictions
xs:token	Pattern: \d{5}\.\d{4}

pictureNotationType	
Appearance	
pictureDetailType/picture (attribute fmt)	
Data Type	Restrictions
xs:token	-

pubLanguageType	
<p>Appearance</p> <p>Attribute lang in the following:</p> <p>norm/normTail/appendices/appendix authorityType/designations/designation ingressType/ingressText linkType/uri linkType/text normMetadataType/headers/header normMetadataType/abbreviations/abbreviation normMetadataType/shortTitles/title partType publicationType structureType/structure/structureContents/structureContent</p>	
<p>Data Type</p> <p>xs:token</p>	<p>Restrictions</p> <p>Enumeration de Enumeration fr Enumeration it Enumeration rm Enumeration en</p>

formatAttributeGroup (Attribute Group)	
<p>Appearance</p> <p>structureType/structure/structureContents/structureContent/structureText/format textType2/format</p>	
<p>Attribute Member</p> <p>style (xs:token, restricted)</p>	<p>Semantics</p> <p>enumeration n (normal) enumeration b (bold) enumeration I (italic) enumeration bi (bold italic)</p>
<p>Attribute Member</p> <p>capitals (xs:boolean)</p>	<p>Semantics</p> <p>TRUE = use small caps ("Kapitälchen")</p>
<p>Attribute Member</p> <p>upper (xs:boolean)</p>	<p>Semantics</p> <p>TRUE = text is superscript</p>
<p>Attribute Member</p> <p>lower (xs:boolean)</p>	<p>Semantics</p> <p>TRUE = text is subscript</p>
<p>Attribute Member</p> <p>underline (xs:boolean)</p>	<p>Semantics</p> <p>TRUE = text is underlined</p>

The CHLexML suite of standards can be used free of charge.

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