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*Blue Book Appendix*

**CHLexML**

**Data Standard for the  
Representation of Swiss  
Law Texts**

**Technical XML Reference**

Version: 1.0 (CHLexML Schema 1.0)

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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*<sup>1</sup> (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.

---

<sup>1</sup> German title

## XML Schema – Hierarchical Overview

The following is a simplified overview of the XML schema including the type definitions. Italics are used for variables and sub-trees that are optional, bracketed arrows refer to the type definition of a variable or node. Numbers in parentheses are used to tell look-alike XML tags from each other.

```
norm
  editorsNotes

  normMetadata [à normMetadataType]

  normContents [à structureType]

  normTail
    signatures
      signature [à textType1]
    applications
      application [à textType3]
    restrictions
      restriction [à textType1]
    annotations
      annotation [à textType1]
    appendices
      appendix
        appendixReference
          description
          comment [à commentType]
          appendixContent
            appendixNormID
            appendixLink [à linkType]
          appendixDocument [à textType3]

  normComments
    normComment
      commentReferenced
      commentNumber
      commentText [à textType6]

  history [à historyType]
```



```

articleMetadataType :=
  articleForm
  articleNumber
    number
    comment [à commentType]
  articleHeaders
    articleHeader [à textType1]
  relation [à relationType]

```

---

```

articleType :=
  articleMetadata [à articleMetadataType]
  articleBody
    articleText [à partType]

```

---

```

authorityType :=
  designations
    designation

```

---

```

authorType :=
  supranational [à authorityType]
  ch [à authorityType]
  canton [à authorityType]
  commune
    short
    bfs
    text1
    text2
  other

```

---

```

commentType :=
  commentReferencing
  number
  origin

```

---

```

historyType :=
  info
    dateForce
    dateVersion
    publication [à publicationType]
  normNumber
    number
    comment
  ingress
  normMetadata
    headers
    abbreviations
    shortTitles
    type
    authors
    dateAdoption
    dateAdoptionChange
    dateForce
    dateLastChange
    dateAbrogation
  structures
    structure
  articles
    article
  signatures
  application
  restrictions
  annotations

```

```
appendices
previousHistory [à historyType]
```

---

```
ingressType :=
  ingressText [à textType4]
```

---

```
linkType :=
  linkID
  uri
  details
    journal
    yearOrNumber
    page
  type
  role
  semantics
  text
```

---

```
listType :=
  li
```

---

```
normMetadataType :=
  normNumber
    collection
    normID
    number
    comment [à commentType]
  headers
    header
      appendixText
      headerText
  abbreviations
    abbreviation
  shortTitles
    title
  type
  authors
    author [à authorType]
  dates
    dateAdoption
    dateAdoptionChange
    dateForce
    dateLastChange
    dateVersion
    dateValidUntil
    dateAbrogation
  ingress [à ingressType]
  firstPublication [à publicationType]
```

---

```
partMetadataType :=
  partNumber
  typeOfPart
  partHeaders [à textType1]
```

---

```
partType :=  
  partMetadata [à partMetadataType]  
  partTexts  
    partText [à textType1]  
  transitory [à textType5]  
  subparts  
    articleText [à partType]
```

---

```
pictureDetailType :=  
  picture  
  link [à linkType]
```

---

```
pictureType :=  
  pictureLow [à pictureDetailType]  
  pictureHigh [à pictureDetailType]  
  description
```

---

```
publicationType :=  
  journalText  
  link [à linkType]
```

---

```
relationType :=  
  source  
  link [à linkType]
```

---

```
structureType :=  
  structure  
    structureKind  
    structureLevel  
    structureContents  
      structureContent  
        structureOrder  
        structureText [à textType2]  
    normTexts  
      article [à articleType]  
  subStructure  
    normContents [à structureType]
```

---

```
tableType :=  
  tableContent  
    row  
      cell [à textType3]  
  description
```

---

```
textType1 :=  
  mixedText [à textType3]
```

---

```
textType2 :=  
  relation [à relationType]  
  format  
  break  
  comment [à commentType]  
  subTitle
```

---

**textType3** :=  
    relation [à relationType]  
    format  
    break  
    tab  
    illustration [à pictureType]  
    comment [à commentType]  
    xhtml  
    list [à listType]  
    table [à tableType]

---

**textType4** :=  
    *authorityDescription*  
    *basis* [à textType5]  
    *formal*

---

**textType5** :=  
    relation [à relationType]  
    comment [à commentType]

---

**textType6** :=  
    relation [à relationType]  
    comment [à commentType]  
    break

---

**cantonType** := restriction of xs:token  
**languageType** := restriction of xs:token  
**pictureNotationType** := xs:Name

---

## How to Read the XML Reference Data Sheets

The XML Reference comprises a data sheet for each XML tag defined in the schema.

<code>&lt;XML-tag&gt;</code>	
<i>Schema Type Information</i>	
Appearances (document Paths), if applicable	
<b>Element Data Type</b>	XML schema data type
<b>Children</b>	Child nodes of the tag, if any
<b>Attributes</b>	Attributes of the tag, if any
<b>Semantics</b>	Meaning in terms of the business
<b>Schema Rules</b>	Consistency requirements expressed in the schema
<b>Business Rules</b>	Consistency requirements not expressed in the schema
<b>Dependencies</b>	Dependencies to other tags, variables or circumstances
<b>Errors Raised</b>	Errors and warnings that may be triggered by this element
<b>Example</b>	Example usage (XML snippet)
<b>Remarks</b>	Comments from the designers

### Conventions about data sheet titles

Some of the XML-tags appear in different locations within the same document, possibly carrying different meanings. In fact such tags are not the same. For these look-alike tags a number is used in parentheses to distinguish one from another, for example `<type> (1)`, `<type> (2)`, and so on.

### XML paths

The appearances (grey column) are expressed as element paths, very much like the "fully qualified path names" of files. Slashes are used to separate the hierarchical levels, e.g.

```
norm/normMetadata/authors/author/supranational
```

structureType, partType and historyType are recursive concepts, i.e. they can contain an element of their own type. The path of such an element is specified using the following grammar:

```
pathA/ {pathB/}* pathC
```

can mean:

```
pathA/pathC or
pathA/pathB/pathC or
pathA/pathB/pathB/pathC or
pathA/pathB/pathB/pathB/pathC and so on.
```

# XML Reference Data Sheets

## Document Main Structure

Element structure	<pre> norm   editorsNotes  normMetadata [à normMetadataType]  normContents [à structureType]  normTail   signatures     signature [à textType1]   applications     application [à textType3]   restrictions     restriction [à textType1]   annotations     annotation [à textType1]   appendices     appendix       appendixReference       description       comment [à commentType]       appendixContent         appendixNormID         appendixLink [à linkType]       appendixDocument [à textType3]  normComments   normComment     commentReferenced     commentNumber     commentText [à textType6]  history [à historyType] </pre>
Description	<p>The norm tag marks the beginning of a law text description. The norm root element contains the following sub-elements:</p> <ul style="list-style-type: none"> <li>• normMetadata – accompanying information about the norm</li> <li>• normContents – the structured norm</li> <li>• normTail – including the appendices</li> <li>• normComments – including footnotes and comments</li> <li>• history – information about earlier versions and how the current version was derived from them.</li> </ul>
Important notes	

<b>&lt;norm&gt;</b>	
norm/ (the root element)	
<b>Element Data Type</b>	
<b>Children</b>	<pre>&lt;editorsNotes&gt; &lt;normMetadata&gt; &lt;normContents&gt; &lt;normTail&gt; &lt;normComments&gt; &lt;history&gt;</pre>
<b>Attributes</b>	
<b>Semantics</b>	This is the document's root element.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	<p>Identity integrity constraints are defined here:</p> <p><b>Uniqueness of article identifiers and part identifiers</b>  Unique attribute: <b>ID</b>  Used to identify text (of type partType) by a unique number within the scope of the document.</p> <p><b>Uniqueness of link identifiers</b>  Unique element: <b>linkID</b>  Used to identify links (of type linkType) by a unique number within the scope of the document.</p> <p><b>Uniqueness of comments</b>  Unique element: <b>commentReferenced</b>  Unique attribute: <b>commentReferencing</b>  Assures that for each comment referencing, i.e. a footnote, there is actually a comment (the comment referenced) in norm/normContents.</p>



<b>&lt;editorsNotes&gt;</b>	
norm/editorsNotes	
<b>Element Data Type</b>	xs:string
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Information and hints provided by the editor concerning the current CHLexML document. Think of it as release notes.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	<pre>&lt;editorsNotes&gt;   Artikel 18 ist ausser Kraft. Dies wurde im Erlasstext   lediglich durch eine Fussnote vermerkt! &lt;/editorsNotes&gt;</pre>
<b>Remarks</b>	

<b>&lt;normMetadata&gt; (1)</b>	
norm/normMetadata	
<b>Element Data Type</b>	normMetadataType
<b>Children</b>	<normNumber> <headers> <abbreviations> <shortTitles> <type> <authors> <dates> <ingress> <firstPublication>
<b>Attributes</b>	
<b>Semantics</b>	Information about the norm. With the exception of ingress and headers this information contains no actual norm text.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;normContents&gt;</b>	
norm/normContents	
<b>Element Data Type</b>	structureType
<b>Children</b>	<structure> <subStructure>
<b>Attributes</b>	
<b>Semantics</b>	The norm's structure expressed as a possibly recursive set of structureType trees.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;normTail&gt;</b>	
norm/normTail	
<b>Element Data Type</b>	
<b>Children</b>	<signatures> <restrictions> <annotations> <appendices> <applications>
<b>Attributes</b>	
<b>Semantics</b>	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.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;signatures&gt; (1)</b>	
norm/normTail/signatures	
<b>Element Data Type</b>	
<b>Children</b>	<signature>
<b>Attributes</b>	
<b>Semantics</b>	The norm's signatures. Most of the time, signatures are names and titles of people who have authorized the norm.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;signature&gt;</b>	
norm/normTail/signatures/signature	
<b>Element Data Type</b>	textType1
<b>Children</b>	<mixedText>
<b>Attributes</b>	
<b>Semantics</b>	A particular signature.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;restrictions&gt; (1)</b>	
norm/normTail/restrictions	
<b>Element Data Type</b>	
<b>Children</b>	<restriction>
<b>Attributes</b>	
<b>Semantics</b>	Restrictions and reservations applicable to the norm.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;restriction&gt;</b>	
norm/normTail/restrictions/restriction	
<b>Element Data Type</b>	textType1
<b>Children</b>	<mixedText>
<b>Attributes</b>	
<b>Semantics</b>	A particular restriction.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



<b>&lt;annotations&gt; (1)</b>	
norm/normTail/annotations	
<b>Element Data Type</b>	
<b>Children</b>	<annotation>
<b>Attributes</b>	
<b>Semantics</b>	The norm's annotations. Usually text that is not an integral part of the norm but nevertheless printed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;annotation&gt;</b>	
norm/normTail/annotations/annotation	
<b>Element Data Type</b>	textType1
<b>Children</b>	<mixedText>
<b>Attributes</b>	
<b>Semantics</b>	A particular annotation.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	<pre>&lt;annotation&gt;   &lt;mixedText&gt;     <b>angenommen in der Volksabstimmung vom 3. Juni 1983</b>   &lt;mixedText&gt; &lt;/annotation&gt;</pre>
<b>Remarks</b>	

<b>&lt;appendices&gt; (1)</b>	
norm/normTail/appendices	
<b>Element Data Type</b>	
<b>Children</b>	<appendix>
<b>Attributes</b>	
<b>Semantics</b>	Text within the norm document or in a separate location that serves to provide relevant information that the norm text refers to.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;appendix&gt;</b>	
norm/normTail/appendices/appendix	
<b>Element Data Type</b>	
<b>Children</b>	<appendixReference> <appendixDocument>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	The two child nodes represent the different styles of an appendix. An appendix can be either a separately located document or the reproduction of a text that goes as an integral part of the norm.
<b>Schema Rules</b>	Mandatory, unbound occurrence. Child nodes appendixReference and appendixDocument are mutually exclusive.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;appendixReference&gt;</b>	
norm/normTail/appendices/appendix/appendixReference	
<b>Element Data Type</b>	
<b>Children</b>	<description> <comment> <appendixContent>
<b>Attributes</b>	
<b>Semantics</b>	Reference to a separately located document.
<b>Schema Rules</b>	Mandatory. Mutually exclusive with norm/normTail/appendices/appendix/appendixDocument.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;description&gt; (1)</b>	
norm/normTail/appendices/appendix/appendixReference/description	
<b>Element Data Type</b>	xs:string
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Textual description – a title or summary – of an (externally located) appendix.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;comment&gt; (1)</b>	
norm/normTail/appendices/appendix/appendixReference/comment	
<b>Element Data Type</b>	commentType
<b>Children</b>	<commentReferencing> <number> <origin>
<b>Attributes</b>	
<b>Semantics</b>	A footnote marker.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;appendixContent&gt;</b>	
norm/normTail/appendices/appendix/appendixReference/appendixContent	
<b>Element Data Type</b>	
<b>Children</b>	<appendixNormID> <appendixLink>
<b>Attributes</b>	
<b>Semantics</b>	If the referenced appendix belongs to the same norm compendium, appendixNormID points to that document. Otherwise, the referenced appendix specifies a fully external document.
<b>Schema Rules</b>	Optional. Child nodes appendixNormID and appendixLink are mutually exclusive.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



<b>&lt;appendixNormID&gt;</b>	
norm/normTail/appendices/appendix/appendixReference/appendixContent/appendixNormID	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Identifies a document that belongs to the same compendium as the norm.
<b>Schema Rules</b>	Mandatory. Mutually exclusive with norm/normTail/appendices/appendixReference/ appendixContent/appendixLink
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;appendixLink&gt;</b>	
norm/normTail/appendices/appendix/appendixReference/appendixContent/appendixLink	
<b>Element Data Type</b>	linkType
<b>Children</b>	<linkID> <uri> <details> <type> <role> <semantics> <text>
<b>Attributes</b>	
<b>Semantics</b>	Identifies an external document.
<b>Schema Rules</b>	Mandatory. Mutually exclusive with norm/normTail/appendices/appendixReference/ appendixContent/appendixNormID
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;appendixDocument&gt;</b>	
norm/normTail/appendices/appendix/appendixDocument	
<b>Element Data Type</b>	textType3
<b>Children</b>	<pre> &lt;relation&gt; &lt;format&gt; &lt;break&gt; &lt;tab&gt; &lt;illustration&gt; &lt;comment&gt; &lt;xhtml&gt; &lt;list&gt; &lt;table&gt; </pre>
<b>Attributes</b>	
<b>Semantics</b>	The representation of an appendix text.
<b>Schema Rules</b>	Mandatory. Mutually exclusive with norm/normTail/appendices/appendix/appendixReference.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;applications&gt;</b>	
norm/normTail/applications	
<b>Element Data Type</b>	
<b>Children</b>	<application>
<b>Attributes</b>	
<b>Semantics</b>	The domain of application of the norm (international norm specifying other nations that adopted it, or a national norm specifying cantons that adopted it, and so on).
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;application&gt; (1)</b>	
norm/normTail/applications/application	
<b>Element Data Type</b>	textType1
<b>Children</b>	<mixedText>
<b>Attributes</b>	
<b>Semantics</b>	A particular notice about the application of the norm.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;normComments&gt;</b>	
norm/normComments	
<b>Element Data Type</b>	
<b>Children</b>	<normComment>
<b>Attributes</b>	
<b>Semantics</b>	This is where all comment texts reside.
<b>Schema Rules</b>	Optional,.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;normComment&gt;</b>	
norm/normComments/normComment	
<b>Element Data Type</b>	
<b>Children</b>	<commentReferenced> <commentNumber> <commentText>
<b>Attributes</b>	
<b>Semantics</b>	A particular comment.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	No lang attribute here. Instead, each comment number is extended by a lang attribute and uniquely identifiable.

<b>&lt;commentReferenced&gt;</b>	
norm/normComments/normComment/commentReferenced	
<b>Element Data Type</b>	xs:int
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	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.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	An identity constraint assures that for each commentReferenced element there is actually content available for it.



<b>&lt;commentNumber&gt;</b>	
norm/normComments/normComment/commentNumber	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	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).
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;commentText&gt;</b>	
norm/normComments/normComment/commentText	
<b>Element Data Type</b>	textType6
<b>Children</b>	<relation> <comment> <break>
<b>Attributes</b>	
<b>Semantics</b>	The actual text of the comment.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;history&gt;</b>	
norm/history	
<b>Element Data Type</b>	historyType
<b>Children</b>	<pre> &lt;info&gt; &lt;normNumber&gt; &lt;ingress&gt; &lt;normMetadata&gt; &lt;structures&gt; &lt;articles&gt; &lt;signatures&gt; &lt;application&gt; &lt;restriction&gt; &lt;annotations&gt; &lt;appendices&gt; &lt;previousHistory&gt; </pre>
<b>Attributes</b>	
<b>Semantics</b>	A record of the relevant changes with respect to the previous version or edition.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**articleMetadataType**

Type structure	<pre> <b>articleMetadataType</b> :=   articleForm   articleNumber     number     comment [<b>à</b> commentType]   articleHeaders     articleHeader [<b>à</b> textType1]   relation [<b>à</b> relationType] </pre>
Description	articleMetadataType specifies the contents of metadata to an article.
Important notes	The elements below the articleMetadataType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.
Attributes	<p><b>ID</b> (mandatory, xs:token)</p> <p>Assures that an instance of articleMetadataType is uniquely identified throughout the document.</p> <p>The identity constraint serves to render ID unique all over the universe of all documents.</p>

**Appearances**

```
norm/normContents/ {substructure/normContents/}* structure/normTexts/article/articleMetadata
```

<b>&lt;articleForm&gt;</b>	
<i>articleMetadataType/articleForm</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Specifies the visible string (or character) used to denote a new article. Examples are: "Artikel", "Art.", "§".
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	The element is required (mandatory). However, there are cases in which articles are not introduced by a string like this. In such a case, you must provide articleForm anyway but leave it empty.

<b>&lt;articleNumber&gt;</b>	
<i>articleMetadataType/articleNumber</i>	
<b>Element Data Type</b>	
<b>Children</b>	<number> <comment>
<b>Attributes</b>	
<b>Semantics</b>	The article's visible number, e.g. "44" or "65 bis."
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	The element is optional because there are norms in which articles are not numbered.

<b>&lt;number&gt; (1)</b>	
<i>articleMetadataType/articleNumber/number</i>	
<b>Element Data Type</b>	Extension of xs:token
<b>Children</b>	
<b>Attributes</b>	<b>quiet</b> (optional) if it's there: suppress articleNumber if it's not there: show articleNumber
<b>Semantics</b>	The actual number.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	The element is optional because there are norms in which articles are not numbered.

<b>&lt;comment&gt; (2)</b>	
<i>articleMetadataType/articleNumber/comment</i>	
<b>Element Data Type</b>	commentType
<b>Children</b>	<commentReferencing> <number> <origin>
<b>Attributes</b>	
<b>Semantics</b>	Article numbers can contain a footnote marker.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;articleHeaders&gt;</b>	
<i>articleMetadataType/articleHeaders</i>	
<b>Element Data Type</b>	
<b>Children</b>	<articleHeader>
<b>Attributes</b>	
<b>Semantics</b>	The title of the article.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	This element is optional because there are articles which do not have a title. See <i>Schweizerisches Obligationenrecht</i> , for instance.

<b>&lt;articleHeader&gt;</b>	
<i>articleMetadataType/articleHeaders/articleHeader</i>	
<b>Element Data Type</b>	textType1
<b>Children</b>	<mixedText>
<b>Attributes</b>	
<b>Semantics</b>	The article's title in a specific language.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;relation&gt; (1)</b>	
<i>articleMetadataType/relation</i>	
<b>Element Data Type</b>	relationType
<b>Children</b>	<source> <link>
<b>Attributes</b>	
<b>Semantics</b>	relation is a reference to some other norm (or parts thereof).
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



**articleType**

Type structure	<pre> <b>articleType</b> :=   articleMetadata [<b>à</b> articleMetadataType]   articleBody   articleText [<b>à</b> partType] </pre>
Description	articleType specifies the structure of an article. An article is comprised of metadata (data about the article), and the article's text.
Important notes	The elements below the articleType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```
norm/normContents/ {substructure/normContents/}* structure/normTexts/article
```

<b>&lt;articleMetadata&gt;</b>	
<i>articleType/articleMetadata</i>	
<b>Element Data Type</b>	articleMetadataType
<b>Children</b>	<articleForm> <articleNumber> <articleHeaders> <relation>
<b>Attributes</b>	<b>ID</b> (mandatory, xs:token)  Assures that the current article is uniquely identified throughout the document by a number.  Note that the attribute is defined in the articleMetadataType definition, not the articleMetadata tag definition.
<b>Semantics</b>	
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;articleBody&gt;</b>	
<i>articleType/articleBody</i>	
<b>Element Data Type</b>	
<b>Children</b>	<articleText>
<b>Attributes</b>	
<b>Semantics</b>	The article's content, made of different parts.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;articleText&gt; (1)</b>	
<i>articleType/articleBody/articleText</i>	
<b>Element Data Type</b>	partType
<b>Children</b>	<partMetadata> <partTexts> <transitory> <subparts>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	The article's text.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**authorityType**

Type structure	<pre>authorityType :=   designations   designation</pre>
Description	authorityType is used by authorType in order to specify an authority.
Important notes	

**Appearances**

```
norm/normMetadata/authors/author/supranational  
norm/normMetadata/authors/author/ch  
norm/normMetadata/authors/author/canton
```

<b>&lt;designations&gt;</b>	
<i>authorityType/designations</i>	
<b>Element Data Type</b>	
<b>Children</b>	<designation>
<b>Attributes</b>	
<b>Semantics</b>	The name of a public authority.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;designation&gt;</b>	
<i>authorityType/designations/designation</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	The name of an authority, e.g. "Eidg. Wettbewerbskommission". More than one name may be assigned, possibly in various languages.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**authorType**

Type structure	<pre> <b>authorType</b> :=   supranational [à authorityType]   ch [à authorityType]   canton [à authorityType]   commune     short     bfs     text1     text2   other </pre>
Description	The author of the norm.
Important notes	

**Appearances**

```
norm/normMetadata/authors/author
```

<b>&lt;supranational&gt;</b>	
<i>authorityType/supranational</i>	
<b>Element Data Type</b>	authorityType
<b>Children</b>	<designations>
<b>Attributes</b>	
<b>Semantics</b>	International consortium, i.e. "UN" or "EU"
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;ch&gt;</b>	
<i>authorityType/ch</i>	
<b>Element Data Type</b>	authorityType
<b>Children</b>	<designations>
<b>Attributes</b>	
<b>Semantics</b>	The Swiss confederation.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;canton&gt;</b>	
<i>authorType/canton</i>	
<b>Element Data Type</b>	Extension of authorityType
<b>Children</b>	<designations>
<b>Attributes</b>	<b>short</b> (mandatory, cantonType à enumeration {ZH, BE, LU, UR, SZ, OW, NW, ZG, GL, SG, TG, SH, GR, AG, AI, AR, SO, BS, BL, JU, NE, VD, GE, VS, TI, FR} )
<b>Semantics</b>	One of the Swiss cantons.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;commune&gt;</b>	
<i>authorType/commune</i>	
<b>Element Data Type</b>	
<b>Children</b>	<short> <bfs> <text1> <text2>
<b>Attributes</b>	
<b>Semantics</b>	A Swiss municipality (a city).
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



<b>&lt;short&gt;</b>	
<i>authorType/commune/short</i>	
<b>Element Data Type</b>	cantonType
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The municipality's canton.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	cantonType à enumeration {ZH, BE, LU, UR, SZ, OW, NW, ZG, GL, SG, TG, SH, GR, AG, AI, AR, SO, BS, BL, JU, NE, VD, GE, VS, TI, FR} )

<b>&lt;bfs&gt;</b>	
<i>authorType/commune/bfs</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The municipality's unique number as issued by the Swiss Federal Statistical Office.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;text1&gt;</b>	
<i>authorType/commune/text1</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Free text. Use to specify the name of the municipality in conformance to the Swiss Federal Statistical Office's notation.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	<text1>Murten</text1>
<b>Remarks</b>	

<b>&lt;text2&gt;</b>	
<i>authorType/commune/text2</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Free text. Use to the name of the municipality in another official language, if applicable.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	<text1>Morat</text1>
<b>Remarks</b>	

<b>&lt;other&gt;</b>	
<i>authorType/other</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Reserved for purposes that are not specified.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**commentType**

Type structure	<pre>commentType :=   commentReferencing   number   origin</pre>
Description	commentType is used to introduce a "footnote marker" in the norm's text.
Important notes	The elements below the commentType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```
norm/normMetadata/normNumber/comment
norm/normMetadata/ingress/comments/comment
norm/normMetadata/ingress/ingressContent/ingressText/basis/comment
norm/normContents/ {subStructure/normContents/*} structure/structureContents/structureContent/
structureText/comment
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/comment
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleMetadata/
articleNumber/comment
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/table/tableContent/row/cell/comment
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/characters/comment
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText/comment
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} transitory/comment
norm/normTail/signatures/signature/mixedText/comment
norm/normTail/restrictions/restriction/mixedText/comment
norm/normTail/annotations/annotation/mixedText/comment
norm/normTail/applications/application/mixedText/comment
norm/normTail/appendices/appendix/appendixReference/comment
norm/normTail/appendices/appendix/appendixDocument/comment
norm/normComments/normComment/commentText/comment
```

<b>&lt;commentReferencing&gt;</b>	
<i>commentType/commentReferencing</i>	
<b>Element Data Type</b>	xs:int
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Refers to a comment located in the norm/normComments section. It is the comment having this identifier in its commentReferenced element.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	An identity constraint assures that for each commentReferencing element there is actually content available for it.

<b>&lt;number&gt; (2)</b>	
<i>commentType/number</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Use any character suitable to specify the comment number (or footnote number) as it shall appear on screen or on paper.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;origin&gt;</b>	
<i>commentType/origin</i>	
<b>Element Data Type</b>	restriction of xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The originator of the comment, either the author or the publisher.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	Use the following abbreviations when documenting the origin of a comment A = author, editor of the normative text P = publisher O = other (unspecified)
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**historyType**

Type structure	<pre> <b>historyType</b> :=   info     dateForce     dateVersion     publication [à publicationType]   normNumber     number     comment   ingress   normMetadata     headers     abbreviations     shortTitles     type     authors     dateAdoption     dateForce     dateLastChange     dateAbrogation   structures     structure   articles     article   signatures   application   restrictions   annotations   appendices   previousHistory [à historyType] </pre>
Description	<p>historyType contains the relevant information about the changes that occurred in a document. The norm/history section contains information about an older version or edition of the same norm. It does not tell anything about the current edition or version (the rest of the document does that).</p> <p>historyType is a self-referencing structure, it can contain an element of its own type, previousHistory. If you dig down into all previousHistory elements recursively, you actually unfold the document's chain of historical change information 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 <b>edition</b> (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 <b>version</b> 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> <p>See also normMetadata/dates/dateForce, normMetadata/dates/dateVersion and normMetadata/dates/dateLastChange.</p>
Important notes	<p>The elements below the historyType root node are specified as a sequence: you will have to preserve the order of appearance of the elements according to the definition in the schema.</p>

**Appearances**

```
norm/history/ {previousHistory/}*

```

<b>&lt;info&gt;</b>	
<i>historyType/info</i>	
<b>Element Data Type</b>	
<b>Children</b>	<dateForce> <dateVersion> <publication>
<b>Attributes</b>	
<b>Semantics</b>	Identifies the edition and version of the norm from which the changes in norm/history are being reported. Most probably the version just before the current one.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;dateForce&gt; (1)</b>	
<i>historyType/info/dateForce</i>	
<b>Element Data Type</b>	xs:date
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Point in time of the commencement of the norm.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	Should be equal to normMetadata/dates/dateForce of the referenced edition or version.
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	This should not change over the histories.



<b>&lt;dateVersion&gt; (1)</b>	
<i>historyType/info/dateVersion</i>	
<b>Element Data Type</b>	xs:date
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Point in time when the version change occurred.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	Should be equal to normMetadata/dates/dateVersion as stored in the referenced edition or version of the norm.  If this is the first version of a new edition, then dateVersion and dateLastChange should be equal.
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;publication&gt;</b>	
<i>historyType/info/publication</i>	
<b>Element Data Type</b>	publicationType
<b>Children</b>	<journal> <link>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	The date when the norm was published.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	Should be equal to normMetadata/dates/dateVersion as stored in the referenced edition or version of the norm.
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Publication is mandatory with a new edition. It is optional with a new version.

<b>&lt;normNumber&gt; (1)</b>	
<i>historyType/normNumber</i>	
<b>Element Data Type</b>	
<b>Children</b>	<number> <comment>
<b>Attributes</b>	
<b>Semantics</b>	Indicates that normNumber was changed, either the number itself or a comment to the number.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;number&gt; (3)</b>	
<i>historyType/normNumber/number</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>oldNumber</b> (mandatory à xs:token)
<b>Semantics</b>	norm/normMetadata/normNumber/number was changed. 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.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	A minor change.

<b>&lt;comment&gt; (3)</b>	
<i>historyType/normNumber/comment</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	At least one of the footnotes (comments) was changed (norm/normMetadata/normNumber/comment was changed).
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	A minor change.

<b>&lt;ingress&gt; (1)</b>	
<i>historyType/ingress</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	The ingress (norm/normMetadata/ingress) was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;normMetadata&gt; (2)</b>	
<i>historyType/normMetadata</i>	
<b>Element Data Type</b>	
<b>Children</b>	<headers> <abbreviations> <shortTitles> <type> <authors> <dateAdoption> <dateForce> <dateLastChange> <dateAbrogation>
<b>Attributes</b>	
<b>Semantics</b>	
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;headers&gt; (1)</b>	
<i>historyType/normMetadata/headers</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	At least one of the headers in norm/normMetadata/headers was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Considered a minor change.

<b>&lt;abbreviations&gt; (1)</b>	
<i>historyType/normMetadata/abbreviations</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	At least one of the abbreviations of the norm (in norm/normMetadata/abbreviations) was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Considered a minor change.

<b>&lt;shortTitles&gt; (1)</b>	
<i>historyType/normMetadata/shortTitles</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	At least one of norm/normMetadata/shortTitles/titles was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Considered a minor change.

<b>&lt;type&gt; (1)</b>	
<i>historyType/normMetadata/type</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	The document's type classification in norm/normMetadata/type was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Considered a minor change.

<b>&lt;authors&gt; (1)</b>	
<i>historyType/normMetadata/authors</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} )
<b>Semantics</b>	A change in the authorship in norm/normMetadata/authors.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;dateAdoption&gt; (1)</b>	
<i>historyType/normMetadata/dateAdoption</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	norm/normMetadata/dates/dateAdoption was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	dateAdoption should not be changed unless the date was in error or there was a typo. Otherwise the document would represent a new norm. It is therefore considered a minor change.

<b>&lt;dateAdoptionChange&gt; (1)</b>	
<i>historyType/normMetadata/dateAdoptionChange</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	norm/normMetadata/dates/dateAdoptionChange was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Changing dateAdoptionChange is an indication that the norm has passed its final legislation some time after it was adopted. This normally happens when the adoption has happened retroactively.

<b>&lt;dateForce&gt; ( 2 )</b>	
<i>historyType/normMetadata/dateForce</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	norm/normMetadata/dates/dateForce was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	A change in dateForce can only mean the correction of a typo. It is therefore considered a minor change.

<b>&lt;dateLastChange&gt; ( 1 )</b>	
<i>historyType/normMetadata/dateLastChange</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	norm/normMetadata/dates/dateLastChange was changed. The reason is probably the correction of a typo.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Always a minor change.



<b>&lt;dateAbrogation&gt; (1)</b>	
<i>historyType/normMetadata/dateAbrogation</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} )
<b>Semantics</b>	norm/normMetadata/dates/dateAbrogation was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Considered a minor change. Either a correction of a typo or the first introduction of the dateAbrogation date, in which case the insertion is purely editorial.

<b>&lt;structures&gt;</b>	
<i>historyType/structures</i>	
<b>Element Data Type</b>	
<b>Children</b>	<structure>
<b>Attributes</b>	
<b>Semantics</b>	Indicates the presence of changes of titles or even the entire structure.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;structure&gt; (1)</b>	
<i>historyType/structures/structure</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} ) <b>id</b> (mandatory à internal identifier of the changed structure)
<b>Semantics</b>	Used to specify a change in the structure or in a title (or many titles).
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	There is no indication of the structural level involved. However, the structural element in which the change occurred is identified by the id attribute.

<b>&lt;articles&gt;</b>	
<i>historyType/articles</i>	
<b>Element Data Type</b>	
<b>Children</b>	<article>
<b>Attributes</b>	
<b>Semantics</b>	Indicates the presence of changes in an article or parts thereof.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;article&gt;</b>	
<i>historyType/articles/article</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} ) <b>id1</b> (mandatory à internal identifier of the changed structure) <b>id2</b> (optional à internal identifier of the changed structure)
<b>Semantics</b>	Use id1 to specify the article.  Use id2 to specify in detail the part of the article that was changed. If not provided, the change is assumed to affect the entire article.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	By means of the attributes id1 and id2, you can either emphasize that the change is affecting the article as a whole (no id2 provided) or you can point to a smaller-grained part of text within that article (using id2 in addition).  id2 is expected to point to one of the sub-structures of an article (of type partType).

<b>&lt;signatures&gt; ( 2 )</b>	
<i>historyType/signatures</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} )
<b>Semantics</b>	Some of the signatures have been altered, viz. norm/normTail/signatures was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;application&gt; (2)</b>	
<i>historyType/application</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} )
<b>Semantics</b>	There is a change in the domain of application (either nations or cantons involved in the norm). norm/normTail/application was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;restrictions&gt; (2)</b>	
<i>historyType/restrictions</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} )
<b>Semantics</b>	At least one of the norm's restrictions have changed. norm/normTail/restrictions was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;annotations&gt; (2)</b>	
<i>historyType/annotations</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} )
<b>Semantics</b>	At least one of the annotations has been changed or a new annotation added. norm/normTail/annotations was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	annotations are comments (footnotes) that are not an integral part of the norm, but nevertheless displayed or printed.

<b>&lt;appendices&gt; (2)</b>	
<i>historyType/appendices</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>historyChange</b> (mandatory à enumeration {insert, modify, delete} ) <b>historyImpact</b> (mandatory à enumeration {minor, major} )
<b>Semantics</b>	There is a change with the appendices (removal, addition, replacement, correction, update, ...) norm/normTail/appendices was changed.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;previousHistory&gt;</b>	
<i>historyType/previousHistory</i>	
<b>Element Data Type</b>	historyType
<b>Children</b>	<pre> &lt;info&gt; &lt;normNumber&gt; &lt;ingress&gt; &lt;normMetadata&gt; &lt;structures&gt; &lt;articles&gt; &lt;signatures&gt; &lt;application&gt; &lt;restrictions&gt; &lt;annotations&gt; &lt;appendices&gt; &lt;previousHistory&gt; </pre>
<b>Attributes</b>	
<b>Semantics</b>	A copy of the norm/history section of the version or edition before the one that contains the previousHistory element.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	<p>You can drill down the previousHistory section and find out about the changes that occurred to the norm at a specific point in time.</p> <ul style="list-style-type: none"> <li>§ norm/history: Information about the changes to the norm that have lead to the current version or edition</li> <li>§ norm/history/previousHistory: Information about the changes to the norm that have lead to the previous version or edition</li> <li>§ norm/history/previousHistory/previousHistory: Information about the changes to the norm that have lead to the version or edition just before the previous one</li> <li>§ and so on</li> </ul>

**ingressType**

Type structure	<pre>ingressType :=   ingressText [à textType4]</pre>
Description	ingressType specifies the contents of the ingress of a norm.
Important notes	

**Appearances**

```
norm/normMetadata/ingress
```

<b>&lt;ingressText&gt;</b>	
<i>ingressType/ingressContent/ingressText</i>	
<b>Element Data Type</b>	Extension of textType4
<b>Children</b>	<authorityDescription> <basis> <formal>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	The ingress text in a specific language. textType4 is especially well suited for representing the ingress.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



**linkType**

Type structure	<pre> <b>linkType</b> :=   linkID   uri   details     journal     yearOrNumber     page   type   role   semantics   text </pre>
Description	The terminology of a link is somewhat different in CHLexML from the pure URL-centric view. Links in CHLexML are used to point to outside documents – they may be used for the bi-directional linking of norms.
Important notes	The elements below the linkType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

For appearances of the linkType element, see the following page.

## Appearances

```

norm/normMetadata/ingress/ingressContent/ingressText/basis/relation/link
norm/normMetadata/firstPublication/link

norm/normTail/signatures/signature/mixedText/relation/link
norm/normTail/signatures/signature/mixedText/illustration/picture[Low|High]/link
norm/normTail/restrictions/restriction/mixedText/relation/link
norm/normTail/restrictions/restriction/mixedText/illustration/picture[Low|High]/link
norm/normTail/annotations/annotation/mixedText/relation/link
norm/normTail/annotations/annotation/mixedText/illustration/picture[Low|High]/link
norm/normTail/applications/application/mixedText/relation/link
norm/normTail/applications/application/mixedText/illustration/picture[Low|High]/link
norm/normTail/appendices/appendix/appendixReference/appendixContent/appendixLink
norm/normTail/appendices/appendix/appendixDocument/relation/link
norm/normTail/appendices/appendix/appendixDocument/illustration/picture[Low|High]/link

norm/normContents/ {substructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/illustration/picture[Low|High]/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleMetadata/
relation/link
norm/normContents/ {substructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/relation/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/table/tableContent/row/cell/
illustration/picture[Low|High]/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/characters/illustration/
picture[Low|High]/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText/illustration/
picture[Low|High]/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} transitory/relation/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/table/tableContent/row/cell/
relation/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/characters/relation/link
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText/relation/link
norm/normContents/ {subStructure/normContents/*} /structure/structureContents/structureContent/
structureText/relation/link
norm/normComments/normComment/commentContent/commentText/relation/link
norm/history/ {previousHistory/*} info/publication/link

```

<b>&lt;linkID&gt;</b>	
<i>linkType/linkID</i>	
<b>Element Data Type</b>	xs:int
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	A document-wide unique identification of that specific link.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	The identity constraint imposed on the linkID element identifies links by a unique number within the scope of the document.

<b>&lt;uri&gt;</b>	
<i>linkType/uri</i>	
<b>Element Data Type</b>	Extension of xs:anyURI
<b>Children</b>	
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	Used to store an internet address. Use the lang attribute to separate URIs of different languages from each other.
<b>Schema Rules</b>	Optional, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;details&gt;</b>	
<i>linkType/details</i>	
<b>Element Data Type</b>	
<b>Children</b>	<journal> <yearOrNumber> <page>
<b>Attributes</b>	
<b>Semantics</b>	Details that might allow to reconstruct the link by means of the information in the child nodes.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;journal&gt;</b>	
<i>linkType/details/journal</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Indicate the publication or compendium in which the linked entity is located.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;yearOrNumber&gt;</b>	
<i>linkType/details/yearOrNumber</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Either a specific year or the number of a publication, whichever is applicable. Consider it as information in a second level, <journal> being the first level.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;page&gt;</b>	
<i>linkType/details/page</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The page number used for the publication specified by journal and yearOrNumber.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;type&gt; (2)</b>	
<i>linkType/type</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	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, and so on.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;role&gt;</b>	
<i>linkType/role</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Reserved for later usage.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;semantics&gt;</b>	
<i>linkType/semantics</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Reserved for later usage.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;text&gt;</b>	
<i>linkType/text</i>	
<b>Element Data Type</b>	xs:string
<b>Children</b>	
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	Used to provide a short description of the link to the user, i.e. a tooltip in a hypertext link.
<b>Schema Rules</b>	Optional, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**listType**

Type structure	<pre>listType :=   li [à textType3]</pre>
Description	listType is used to represent bulleted and non-bulleted lists. As each list item (li) is, in turn, a textType3, nested lists (lists having more than one level of indentation) can easily be built.
Important notes	

**Appearances**

```
norm/normTail/appendices/appendix/appendixDocument/list
norm/normTail/norm/normTail/restrictions/restriction/mixedText/list
norm/normTail/norm/normTail/signatures/signature/mixedText/list
norm/normTail/norm/normTail/annotations/annotation/mixedText/list
norm/normTail/norm/normTail/applications/application/mixedText/list
norm/normContents/ {substructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/list
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText/list
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/mixedText/
table/tableContent/row/cell/list
```

**ADD {/li/list}\* to each appearance.**



<b>&lt;li&gt;</b>	
<i>listType/li</i>	
<b>Element Data Type</b>	textType3
<b>Children</b>	<pre> &lt;relation&gt; &lt;format&gt; &lt;break&gt; &lt;tab&gt; &lt;illustration&gt; &lt;comment&gt; &lt;xhtml&gt; &lt;list&gt; &lt;table&gt; </pre>
<b>Attributes</b>	<b>type</b> (mandatory, restricted xs:token {ol, ul, dl} ) ol=ordered list, ul=unordered bulleted list, dl=unordered non-bulleted list
<b>Semantics</b>	A list item.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**normMetadataType**

Type structure	<pre> <b>normMetadataType</b> :=   normNumber   collection   normID   number   comment [à commentType]   headers     header       appendixText       headerText   abbreviations     abbreviation   shortTitles     title   type   authors     author [à authorType]   dates     dateAdoption     dateForce     dateLastChange     dateVersion     dateValidUntil     dateAbrogation   ingress [à ingressType]   firstPublication [à publicationType] </pre>
Description	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.
Important notes	The elements below the normMetadataType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

norm/normMetadata

<b>&lt;normNumber&gt; (2)</b>	
<i>normMetadataType/normNumber</i>	
<b>Element Data Type</b>	
<b>Children</b>	<collection> <normID> <number> <comment>
<b>Attributes</b>	
<b>Semantics</b>	The norm's internal and external identification.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;collection&gt;</b>	
<i>normMetadataType/normNumber/collection</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Identifies the compendium (collection) to which the norm belongs.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Examples of compendiums are: CH, SG, NE. Each compendium has got its own identifier.

<b>&lt;normID&gt;</b>	
<i>normMetadataType/normNumber/normID</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The norm's unique identifier within the scope of the systematic compendium (of the Swiss Federation or a canton). This can be considered a technical identifier; it will not change over time but remain stable.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;number&gt; (4)</b>	
<i>normMetadataType/normNumber/number</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	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.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Not necessarily a unique number. For example, appendices and other documents may have the same number as the principal norm.

<b>&lt;comment&gt; (4)</b>	
<i>normMetadataType/normNumber/comment</i>	
<b>Element Data Type</b>	commentType
<b>Children</b>	<commentReferencing> <number> <origin>
<b>Attributes</b>	
<b>Semantics</b>	A footnote marker located near the norm number.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;headers&gt; (2)</b>	
<i>normMetadataType/headers</i>	
<b>Element Data Type</b>	
<b>Children</b>	<header>
<b>Attributes</b>	
<b>Semantics</b>	Heading information that usually is located at the beginning of the norm's title, e.g. "Appendix 15", "Translation", "Original Text".
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;header&gt;</b>	
<i>normMetadataType/headers/header</i>	
<b>Element Data Type</b>	
<b>Children</b>	<appendixText> <headerText>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	A header in this context is either the indication of an appendix or a prologue. It can read differently in different languages.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;appendixText&gt;</b>	
<i>normMetadataType/headers/header/appendixText</i>	
<b>Element Data Type</b>	Extension of xs:token
<b>Children</b>	
<b>Attributes</b>	<b>sort</b> (xs:int)
<b>Semantics</b>	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.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;headerText&gt;</b>	
<i>normMetadataType/headers/header/headerText</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	A "prologue" to the norm's title, like "Translation" or "Original Text".
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;abbreviations&gt; (2)</b>	
<i>normMetadataType/abbreviations</i>	
<b>Element Data Type</b>	
<b>Children</b>	<abbreviation>
<b>Attributes</b>	
<b>Semantics</b>	The norm's abbreviations or acronyms, like "OR", "ZGB" and so on.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;abbreviation&gt;</b>	
<i>normMetadataType/abbreviations/abbreviation</i>	
<b>Element Data Type</b>	Extension of xs:token
<b>Children</b>	
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	One of the norm's abbreviations, e.g. "OR", "ZGB", and so on.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;shortTitles&gt; (2)</b>	
<i>normMetadataType/shortTitles</i>	
<b>Element Data Type</b>	
<b>Children</b>	<title>
<b>Attributes</b>	
<b>Semantics</b>	A shorter form of the norm's title.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	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).



<b>&lt;title&gt;</b>	
<i>normMetadataType/shortTitles/title</i>	
<b>Element Data Type</b>	Extension of xs:token
<b>Children</b>	
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	One of the possibly many short titles in a specific language.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	<title>Obligationenrecht</title>
<b>Remarks</b>	

<b>&lt;type&gt; (3)</b>	
<i>normMetadataType/type</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Specifies the type (or class) of a norm. Examples are "constitutional", "report", "annex", "correspondence", "communiqué", and so on.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;authors&gt; (1)</b>	
<i>normMetadataType/authors</i>	
<b>Element Data Type</b>	
<b>Children</b>	<author>
<b>Attributes</b>	
<b>Semantics</b>	The originator(s) of the norm. There can be many.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;author&gt;</b>	
<i>normMetadataType/authors/author</i>	
<b>Element Data Type</b>	authorType
<b>Children</b>	<supranational> <ch> <canton> <commune> <other>
<b>Attributes</b>	
<b>Semantics</b>	Specifies one particular author.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;dates&gt;</b>	
<i>normMetadataType/dates</i>	
Element Data Type	
<b>Children</b>	<pre> &lt;dateAdoption&gt; &lt;dateAdoptionChange&gt; &lt;dateForce&gt; &lt;dateLastChange&gt; &lt;dateVersion&gt; &lt;dateValidUntil&gt; &lt;dateAbrogation&gt; </pre>
<b>Attributes</b>	
<b>Semantics</b>	The dates of relevant events that apply to the norm.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	<p>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 <b>new edition</b> 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 <b>version</b> 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> <pre> 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 </pre>

<b>&lt;dateAdoption&gt; (1)</b>	
<i>normMetadataType/dates/dateAdoption</i>	
<b>Element Data Type</b>	xs:date
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The date on which the norm was adopted. In some cases, a norm can have multiple adoption dates, like a contract.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;dateAdoptionChange&gt; (2)</b>	
<i>normMetadataType/dates/dateAdoptionChange</i>	
<b>Element Data Type</b>	xs:dateTime
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	A point in time when the edition of the norm, although it was already adopted, has finally passed legislation. Use dateAdoptionChange when the norm is adopted retroactively.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;dateForce&gt; (3)</b>	
<i>normMetadataType/dates/dateForce</i>	
<b>Element Data Type</b>	xs:dateTime
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The point in time when the norm was brought into effect for the first time.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	In all versions of the first edition, dateForce and dateLastChange are the same.
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	<p>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).</p> <p>The CHLexML standard does not cover this situation. It allows for only one dateForce element.</p>

<b>&lt;dateLastChange&gt; (2)</b>	
<i>normMetadataType/dates/dateLastChange</i>	
<b>Element Data Type</b>	xs:date
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The date on which the current edition of the norm was brought into effect. Every new edition of a norm has got its own dateLastChange value.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	In the first edition of a norm, dateLastChange and dateForce are the same for all versions.
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Do not change this value when applying a minor change to the document.

<b>&lt;dateVersion&gt; (2)</b>	
<i>normMetadataType/dates/dateVersion</i>	
<b>Element Data Type</b>	xs:date
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The date on which minor changes were applied to the current version of this edition. Minor changes always lead to a new version, not a new edition.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	If this is the first version of a (new) edition, then dateLastChange=dateVersion.
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;dateValidUntil&gt;</b>	
<i>normMetadataType/dates/dateValidUntil</i>	
<b>Element Data Type</b>	xs:date
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	If managed in retrospect, the edition/version of the norm at hand was valid until the date specified here.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	The edition specified in this document was valid from dateLastChange until dateValidUntil.
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	When editing the current edition, you normally do not know how long the norm will be in effect. dateValidUntil is meant to be used in a document describing a terminated norm. This may be useful for historical research in the future.

<b>&lt;dateAbrogation&gt; (2)</b>	
<i>normMetadataType/dates/dateAbrogation</i>	
<b>Element Data Type</b>	xs:dateTime
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The date of abrogation of a norm.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	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 that kind of abrogation procedure.

<b>&lt;ingress&gt; (2)</b>	
<i>normMetadataType/ingress</i>	
<b>Element Data Type</b>	ingressType
<b>Children</b>	<ingressText>
<b>Attributes</b>	
<b>Semantics</b>	The document's ingress.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;firstPublication&gt;</b>	
<i>normMetadataType/firstPublication</i>	
<b>Element Data Type</b>	publicationType
<b>Children</b>	<journalText> <link>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	The first publication in the official gazette. In the SR compendium of laws, this is usually printed as a footnote (comment) with no footnote number.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



**partMetadataType**

Type structure	<pre> <b>partMetadataType</b> :=   partNumber   typeOfPart   partHeaders [â textType1] </pre>
Description	partMetadataType contains the metadata applicable to a paragraph or alinea in an article.
Attributes	<p><b>ID</b> (mandatory, xs:token)</p> <p>Assures that an instance of articleMetadataType is uniquely identified throughout the document.</p> <p>The identity constraint serves to render ID unique all over the universe of all documents.</p>
Important notes	The elements below the partMetadataType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```

norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata

```

<b>&lt;partNumber&gt;</b>	
<i>partMetadataType/partNumber</i>	
<b>Element Data Type</b>	Extension of xs:token
<b>Children</b>	
<b>Attributes</b>	<b>quiet</b> (optional) if it is there: suppress partNumber for printing if it is not there: show partNumber for printing
<b>Semantics</b>	Paragraphs (so called "alinea") in an article are usually numbered. This eases the referencing of an alinea in another norm. Using the quiet attribute, the printing of the number can be suppressed.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	There are norm texts in which the paragraphs are not numbered for printing.

<b>&lt;typeOfPart&gt;</b>	
<i>partMetadataType/typeOfPart</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Specifiies the editorial type of the alinea, e.g. a listing.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	As a convention, use "A" for paragraphs (alinea), "C" for characters, "N" for numbers, "L" for listings, and "O" for other types.
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;partHeaders&gt;</b>	
<i>partMetadataType/partHeaders</i>	
<b>Element Data Type</b>	textType1
<b>Children</b>	<mixedText>
<b>Attributes</b>	
<b>Semantics</b>	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.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**partType**

Type structure	<pre> <b>partType</b> :=   partMetadata [à partMetadataType]   partTexts     partText [à textType1]   transitory [à textType5]   subparts     articleText [à partType] </pre>
Description	partType specifies the content and structure of a paragraph (or alinea) in an article.
Attributes	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
Important notes	The elements below the partType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```

norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*}

```

<b>&lt;partMetadata&gt;</b>	
<i>partType/partMetadata</i>	
<b>Element Data Type</b>	partMetadataType
<b>Children</b>	<partNumber> <typeOfPart> <partHeaders>
<b>Attributes</b>	<b>ID</b> (mandatory, xs:token)  Assures that an instance of partMetadataType is uniquely identified throughout the document by a number.  Note that the attribute is a part of the definition of the partMetadataType, not the partMetadata tag.
<b>Semantics</b>	The metadata applicable to a paragraph (alinea) in an article.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;partTexts&gt;</b>	
<i>partType/partTexts</i>	
<b>Element Data Type</b>	
<b>Children</b>	<partText>
<b>Attributes</b>	
<b>Semantics</b>	The actual content, represented by possibly many "parts" (the partText elements).
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;partText&gt;</b>	
<i>partType/partTexts/partText</i>	
<b>Element Data Type</b>	textType1
<b>Children</b>	<mixedText>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	In general, a part text is a mix of freely structured text with text in tables.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;transitory&gt;</b>	
<i>partType/transitory</i>	
<b>Element Data Type</b>	textType5
<b>Children</b>	<relation> <comment>
<b>Attributes</b>	
<b>Semantics</b>	Specifies the transitional regulations expressed in this alinea, if any.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;subparts&gt;</b>	
<i>partType/subparts</i>	
<b>Element Data Type</b>	
<b>Children</b>	<articleText>
<b>Attributes</b>	
<b>Semantics</b>	Alineas can be divided into yet smaller pieces of text, so called sub parts.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;articleText&gt; (2)</b>	
<i>partType/subparts/articleText</i>	
<b>Element Data Type</b>	partType
<b>Children</b>	<partMetadata> <partTexts> <transitory> <subparts>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	Each sub-part of an alinea is a fully qualified partType.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	This is a recursive application of the partType type.  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 another way.

**pictureDetailType**

Type structure	<pre> <b>pictureDetailType</b> :=   picture   link [à linkType] </pre>
Description	pictureDetailType specifies the technical elements of a picture used for illustration in a norm text.
Important notes	

**Appearances**

```

norm/normTail/signatures/signature/mixedText/illustration/picture[Low|High]
norm/normTail/restrictions/restriction/mixedText/illustration/picture[Low|High]
norm/normTail/annotations/annotation/mixedText/illustration/picture[Low|High]
norm/normTail/applications/application/mixedText/illustration/picture[Low|High]
norm/normTail/appendices/appendix/appendixDocument/illustration/picture[Low|High]

norm/normContents/ {substructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/illustration/picture[Low|High]
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/table/tableContent/row/cell/
illustration/picture[Low|High]
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/characters/illustration/
picture[Low|High]
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText/illustration/
picture[Low|High]

```



<b>&lt;picture&gt;</b>	
<i>pictureDetailType/picture</i>	
<b>Element Data Type</b>	Extension of xs:base64Binary
<b>Children</b>	
<b>Attributes</b>	<b>fmt</b> (restriction of pictureNotationType / restriction of xs:Name) fmt specifies the technical format of the picture. It is recommended to use well-known abbreviations, like JPEG, GIF, and so on.
<b>Semantics</b>	Bytes of memory that represent the picture.
<b>Schema Rules</b>	Mandatory choice with <i>pictureDetailType/link</i>
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Use either <picture> or <link> to specify the picture. Using <picture> the image is specified as the contents of a pics-file.

<b>&lt;link&gt; (1)</b>	
<i>pictureDetailType/link</i>	
<b>Element Data Type</b>	linkType
<b>Children</b>	<linkID> <uri> <details> <type> <role> <semantics> <text>
<b>Attributes</b>	
<b>Semantics</b>	A link where to find the picture.
<b>Schema Rules</b>	Mandatory choice with <i>pictureDetailType/picture</i>
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Use either <picture> or <link> to specify the picture. Using <link> the image is specified as being stored elsewhere.

**pictureType**

Type structure	<pre> <b>pictureType</b> :=   pictureLow [à pictureDetailType]   pictureHigh [à pictureDetailType]   description </pre>
Description	pictureType specifies an illustration to be used in a norm text.
Important notes	The elements below the pictureType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```

norm/normTail/signatures/signature/mixedText/illustration
norm/normTail/restrictions/restriction/mixedText/illustration
norm/normTail/annotations/annotation/mixedText/illustration
norm/normTail/applications/application/mixedText/illustration
norm/normTail/appendices/appendix/appendixDocument/illustration

norm/normContents/ {substructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/illustration
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/table/tableContent/row/cell/
illustration
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/characters/illustration
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText/illustration

```

<b>&lt;pictureLow&gt;</b>	
<i>pictureType/pictureLow</i>	
<b>Element Data Type</b>	pictureDetailType
<b>Children</b>	<picture> <link>
<b>Attributes</b>	
<b>Semantics</b>	A low resolution picture for web usage.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;pictureHigh&gt;</b>	
<i>pictureType/pictureHigh</i>	
<b>Element Data Type</b>	pictureDetailType
<b>Children</b>	<picture> <link>
<b>Attributes</b>	
<b>Semantics</b>	A high resolution picture for printing.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;description&gt; (2)</b>	
<i>pictureType/description</i>	
<b>Element Data Type</b>	xs:string
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Content of a tooltip of the picture.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	This is useful for the visually handicapped.

**publicationType**

Type structure	<pre> <b>publicationType</b> :=   journalText   link [ <i>à</i> linkType ] </pre>
Description	publicationType specifies where a text has been published.
Attributes	<b>lang</b> (optional, languageType <i>à</i> enumeration {de, fr, it, rm, en} )
Important notes	The elements below the publicationType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```

norm/normMetadata/firstPublication
norm/history/ {previousHistory/}* info/publication

```

<b>&lt;journalText&gt;</b>	
<i>publicationType/journal</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The journal or gazette where this text (or norm) was published.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Example publication location: "AS 2001 665"

<b>&lt;link&gt; (2)</b>	
<i>publicationType/link</i>	
<b>Element Data Type</b>	linkType
<b>Children</b>	<linkID> <uri> <details> <type> <role> <semantics> <text>
<b>Attributes</b>	
<b>Semantics</b>	A link to a location where this text (or norm) was published.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**relationType**

Type structure	<pre> <b>relationType</b> :=   source   link [à linkType] </pre>
Description	relationType specifies a reference to another text, e.g. a citation.
Important notes	The elements below the relationType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```

norm/normMetadata/ingress/ingressContent/ingressText/basis/relation

norm/normComments/normComment/commentContent/commentText/relation

norm/normTail/signatures/signature/mixedText/relation
norm/normTail/restrictions/restriction/mixedText/relation
norm/normTail/annotations/annotation/mixedText/relation
norm/normTail/applications/application/mixedText/relation
norm/normTail/appendices/appendix/appendixDocument/relation

norm/normContents/ {subStructure/normContents/*} /structure/structureContents/
structureContent/structureText/relation
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleMetadata/
relation
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/relation
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} transitory/relation
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/table/tableContent/row/cell/relation
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/characters/relation
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText/relation

```

<b>&lt;source&gt;</b>	
<i>relationType/source</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The source being referenced.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	<source>RO 1991 846</source>
<b>Remarks</b>	

<b>&lt;link&gt; (3)</b>	
<i>relationType/link</i>	
<b>Element Data Type</b>	linkType
<b>Children</b>	<linkID> <uri> <details> <type> <role> <semantics> <text>
<b>Attributes</b>	
<b>Semantics</b>	A link to the referenced source, if applicable.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



**structureType**

Type structure	<pre> <b>structureType</b> :=   structure     structureKind     structureLevel     structureContents       structureContent         <i>structureOrder</i>         structureText [<b>à</b> textType2]     <i>normTexts</i>       article [<b>à</b> articleType]     <i>subStructure</i>       normContents [<b>à</b> structureType] </pre>
Description	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.
Important notes	The elements below the structureType root node and the structureType/structure node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```
norm/normContents/ {subStructure/normContents/}*

```

<b>&lt;structure&gt; (2)</b>	
<i>structureType/structure</i>	
<b>Element Data Type</b>	
<b>Children</b>	<pre>&lt;structureKind&gt; &lt;structureLevel&gt; &lt;structureContents&gt; &lt;normTexts&gt;</pre>
<b>Attributes</b>	
<b>Semantics</b>	This is the basic structural element to specify the hierarchical levelling of texts in a norm.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;structureKind&gt;</b>	
<i>structureType/structure/structureKind</i>	
<b>Element Data Type</b>	Restriction of xs:token à Enumeration {N, R, M, A}
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	<p>There are four kinds of titles:</p> <p>N = Normal</p> <p>R = marginal title ("Randtitel")</p> <p>M = Major title of the norm ("Haupttitel")</p> <p>A = finalisation title ("Schlusstitel")</p>
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;structureLevel&gt;</b>	
<i>structureType/structure/structureLevel</i>	
<b>Element Data Type</b>	Restriction of xs:byte
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The level of nesting of the structure. Theoretically, this information can be computed from the number of nested substructures in the element's path.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;structureContents&gt;</b>	
<i>structureType/structure/structureContents</i>	
<b>Element Data Type</b>	
<b>Children</b>	<structureContent>
<b>Attributes</b>	<b>ID</b> (mandatory, xs:int) Assures that each structureContents element is uniquely identified throughout the document by a number.
<b>Semantics</b>	Text describing the heading, if any, related to the structural level at hand.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;structureContent&gt;</b>	
<i>structureType/structure/structureContents/structureContent</i>	
<b>Element Data Type</b>	
<b>Children</b>	<structureOrder> <structureText>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	The actual content of the structural level. There can be many because of the different languages.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;structureOrder&gt;</b>	
<i>structureType/structure/structureContents/structureContent/structureOrder</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Printable text used as a nomenclature of the structural level at hand.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	structureOrder specifies printable text that is used as a nomenclature of a specific structural level. Examples: "Abschnitt 1", "Erstes Kapitel".

<b>&lt;structureText&gt;</b>	
<i>structureType/structure/structureContents/structureContent/structureText</i>	
<b>Element Data Type</b>	textType2
<b>Children</b>	<relation> <format> <break> <comment> <subTitle>
<b>Attributes</b>	
<b>Semantics</b>	The actual heading of the structure.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	structureText is the actual heading of the structural level. It can contain text formatting information.

<b>&lt;normTexts&gt;</b>	
<i>structureType/structure/normTexts</i>	
<b>Element Data Type</b>	
<b>Children</b>	<article>
<b>Attributes</b>	
<b>Semantics</b>	This is where the norm text goes.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;article&gt;</b>	
<i>structureType/structure/normTexts/article</i>	
<b>Element Data Type</b>	articleType
<b>Children</b>	<articleMetadata> <articleBody>
<b>Attributes</b>	
<b>Semantics</b>	At a certain structural level in a norm, the articles appear. Articles are a structure which is described in a separate type definition (using articleType).
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;subStructure&gt;</b>	
<i>structureType/subStructure</i>	
<b>Element Data Type</b>	
<b>Children</b>	<normContents>
<b>Attributes</b>	
<b>Semantics</b>	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.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;normContents&gt;</b>	
<i>structureType/subStructure/normContents</i>	
<b>Element Data Type</b>	structureType
<b>Children</b>	<structure> <substructure>
<b>Attributes</b>	
<b>Semantics</b>	A new structure, one level below the current one.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**tableType**

Type structure	<pre> <b>tableType</b> :=   tableContent     row       cell [<b>a</b> textType3]   description </pre>
Description	tableType is used to specify text that appears in tables.
Important notes	The elements below the tableType root node are specified as a sequence; you will have to preserve the order of appearance of the elements according to the definition in the schema.

**Appearances**

```

norm/normTail/signatures/signature/mixedText/table {/tableContent/row/cell/table}*
norm/normTail/restrictions/restriction/mixedText/table {/tableContent/row/cell/table}*
norm/normTail/annotations/annotation/mixedText/table {/tableContent/row/cell/table}*
norm/normTail/applications/application/mixedText/table {/tableContent/row/cell/table}*
norm/normTail/appendices/appendix/appendixDocument/table {/tableContent/row/cell/table}*

norm/normContents/ {substructure/normContents}* structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText/table {/tableContent/row/cell/table}*
norm/normContents/ {subStructure/normContents}* structure/normTexts/article/articleBody/
articleText/ {subparts/articleText}* partMetadata/partHeaders/mixedText/table
{/tableContent/row/cell/table}*
norm/normContents/ {subStructure/normContents}* structure/normTexts/article/articleBody/
articleText/ {subparts/articleText}* partTexts/partText/mixedText/table
{/tableContent/row/cell/table}*

```



<b>&lt;tableContent&gt;</b>	
<i>tableType/tableContent</i>	
<b>Element Data Type</b>	
<b>Children</b>	<row>
<b>Attributes</b>	
<b>Semantics</b>	This is where the text goes.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;row&gt;</b>	
<i>tableType/tableContent/row</i>	
<b>Element Data Type</b>	
<b>Children</b>	<cell>
<b>Attributes</b>	<b>rowType</b> (optional, restriction of xs:token à enumeration {header, data} )
<b>Semantics</b>	A row can contain any number of cells. The rowType attribute tells whether the row is a heading.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;cell&gt;</b>	
<i>tableType/tableContent/row/cell</i>	
<b>Element Data Type</b>	textType3
<b>Children</b>	<pre> &lt;relation&gt; &lt;format&gt; &lt;break&gt; &lt;tab&gt; &lt;illustration&gt; &lt;comment&gt; &lt;xhtml&gt; &lt;list&gt; &lt;table&gt; </pre>
<b>Attributes</b>	<b>span</b> (optional, xs:int) The number of columns that the cell spans.
<b>Semantics</b>	The cell contains the actual table text.
<b>Schema Rules</b>	
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;description&gt; (3)</b>	
<i>tableType/description</i>	
<b>Element Data Type</b>	xs:string
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Use as a tooltip for explanations about the table.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	This is useful for the visually handicapped.

**textType1**

Type structure	<b>textType1</b> := mixedText [à textType3]
Description	textType is used to write headings and other elements of the norm text. It contains a sequence of mixedText elements (of type textType3).
Important notes	

**Appearances**

```

norm/normTail/signatures/signature/
norm/normTail/restrictions/restriction
norm/normTail/annotations/annotation
norm/normTail/applications/application

norm/normContents/ {substructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText

```

<b>&lt;mixedText&gt;</b>	
<i>textType1/mixedText</i>	
<b>Element Data Type</b>	Extension of textType3
<b>Children</b>	<pre> &lt;relation&gt; &lt;format&gt; &lt;break&gt; &lt;tab&gt; &lt;illustration&gt; &lt;comment&gt; &lt;xhtml&gt; &lt;list&gt; &lt;table&gt; </pre>
<b>Attributes</b>	<b>lang</b> (optional, languageType à enumeration {de, fr, it, rm, en} )
<b>Semantics</b>	A container of text elements.
<b>Schema Rules</b>	Mandatory, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**textType2**

Type structure	<pre> <b>textType2</b> :=   relation [à relationType]   format   break   comment [à commentType]   subTitle </pre>
Description	textType2 is used to specify the title or heading of a structure.
Important notes	<p>textType2 is a mixed type.</p> <p>This type allows to write formatted text <i>as defined by the authors</i>.</p>

**Appearances**

```

norm/normContents/ {subStructure/normContents/}* structure/structureContents/
structureContent/structureText

```

<b>&lt;relation&gt; (2)</b>	
<i>textType2/relation</i>	
<b>Element Data Type</b>	relationType
<b>Children</b>	<source> <link>
<b>Attributes</b>	
<b>Semantics</b>	relation is a reference to some other norm (or parts thereof). Used to specify the norms to which the current text (or part of a text) refers.
<b>Schema Rules</b>	Mandatory choice.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;format&gt; (1)</b>	
<i>textType2/format</i>	
<b>Element Data Type</b>	Extension of xs:string
<b>Children</b>	
<b>Attributes</b>	<b>grp</b> (formatAttributGroup): <i>style</i> (optional, restriction of xs:token $\tilde{a}$ enumeration {n, i, b, bi} ) n=normal, i=italic, b=bold, bi=bold italic <i>capitals</i> (optional, xs:boolean, true=use capitalised letter font) <i>upper</i> (optional, xs:boolean, true=superscript) <i>under</i> (optional, xs:boolean, true=subscript) <i>underline</i> (optional, xs:boolean, true=underline)
<b>Semantics</b>	Special string formatting options.
<b>Schema Rules</b>	Mandatory choice.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;break&gt; (1)</b>	
<i>textType2/break</i>	
<b>Element Data Type</b>	none
<b>Children</b>	
<b>Attributes</b>	<b>type</b> (mandatory, restriction of xs:token à {pagebreak, columnbreak, line} )
<b>Semantics</b>	A page break, a column break or a line break.
<b>Schema Rules</b>	Mandatory choice.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;comment&gt; (5)</b>	
<i>textType2/comment</i>	
<b>Element Data Type</b>	commentType
<b>Children</b>	<commentReferencing> <number> <origin>
<b>Attributes</b>	
<b>Semantics</b>	A footnote marker.
<b>Schema Rules</b>	Mandatory choice.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;subTitle&gt;</b>	
<i>textType2/subTitle</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Use to denote a subtitle of the norm.
<b>Schema Rules</b>	Mandatory choice.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Sometimes, such a subtitle is written on a separate line, using a smaller font.



**textType3**

Type structure	<pre> <b>textType3</b> :=   relation [à relationType]   format   break   tab   illustration [à pictureType]   comment [à commentType]   xhtml   list [à listType]   table [à tableType] </pre>
Description	textType3 is used to write formatted norm text.
Important notes	<p>textType3 is a mixed type.</p> <p>It allows to write formatted text <i>as defined by the authors</i>.</p> <p>The table element contains a circular definition of the tableType data type, which, in turn, contains textType3.</p>

**Appearances**

```

norm/normTail/appendices/appendix/appendixDocument
norm/normTail/restrictions/restriction/mixedText
norm/normTail/signatures/signature/mixedText
norm/normTail/annotations/annotation/mixedText
norm/normTail/applications/application/mixedText
norm/normContents/ {substructure/normContents/*} structure/normTexts/article/articleMetadata/
articleHeaders/articleHeader/mixedText
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partMetadata/partHeaders/mixedText
norm/normContents/ {subStructure/normContents/*} structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/*} partTexts/partText/mixedText

ADD {/table/tableContent/row/cell}* to each appearance above.

```

<b>&lt;relation&gt; (3)</b>	
<i>textType3/relation</i>	
<b>Element Data Type</b>	relationType
<b>Children</b>	<source> <link>
<b>Attributes</b>	
<b>Semantics</b>	relation is a reference to some other norm (or parts thereof). Used to specify the norms to which the current text (or part of a text) refers.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;format&gt; (2)</b>	
<i>textType3/format</i>	
<b>Element Data Type</b>	Extension of xs:string
<b>Children</b>	
<b>Attributes</b>	<b>grp</b> (formatAttributGroup): <i>style</i> (optional, restriction of xs:token $\tilde{a}$ enumeration {n, i, b, bi} ) n=normal, i=italic, b=bold, bi=bold italic <i>capitals</i> (optional, xs:boolean, true=use capitalised letter font) <i>upper</i> (optional, xs:boolean, true=superscript) <i>under</i> (optional, xs:boolean, true=subscript) <i>underline</i> (optional, xs:boolean, true=underline)
<b>Semantics</b>	Special string formatting options.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;break&gt; ( 2 )</b>	
<i>textType3/break</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>type</b> (mandatory, restriction of xs:token à {pagebreak, columnbreak, line} )
<b>Semantics</b>	A page break, a column break or a line break.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;tab&gt;</b>	
<i>textType3/tab</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Represents the tabulator character, use as an empty tag.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;illustration&gt;</b>	
<i>textType3/illustration</i>	
<b>Element Data Type</b>	pictureType
<b>Children</b>	<pictureLow> <pictureHigh> <description>
<b>Attributes</b>	
<b>Semantics</b>	Insert an illustration (a picture).
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;comment&gt; (6)</b>	
<i>textType3/comment</i>	
<b>Element Data Type</b>	commentType
<b>Children</b>	<commentReferencing> <number> <origin>
<b>Attributes</b>	
<b>Semantics</b>	A footnote marker.
<b>Schema Rules</b>	Optional, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;xhtml&gt;</b>	
<i>textType3/xhtml</i>	
<b>Element Data Type</b>	xs:anyType
<b>Children</b>	
<b>Attributes</b>	any (not specified)
<b>Semantics</b>	XHTML code to specify the formatting of a text (or part of a text).
<b>Schema Rules</b>	Optional, unbound occurrence.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	Using "anyType" in combination with "any" attribute allows for specifying virtually any kind of markup language.

<b>&lt;list&gt;</b>	
<i>textType3/list</i>	
<b>Element Data Type</b>	listType
<b>Children</b>	<li>
<b>Attributes</b>	
<b>Semantics</b>	Specify a listing having bullets or not, being ordered or not.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	listType allows for nested lists, or sub-lists.

<b>&lt;table&gt;</b>	
<i>textType3/table</i>	
<b>Element Data Type</b>	tableType
<b>Children</b>	<tableContent> <description>
<b>Attributes</b>	
<b>Semantics</b>	A tabular representation of data.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**textType4**

Type structure	<pre>textType4 :=   authorityDescription   basis [<i>à</i> textType5]   formal</pre>
Description	textType4 is used in to specify the content of the ingress.
Important notes	textType4 is a mixed type. It allows to write formatted text <i>as defined by the authors</i> .

**Appearances**

```
norm/normMetadata/ingress/ingressContent/ingressText
```

<b>&lt;authorityDescription&gt;</b>	
<i>textType4/authorityDescription</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	The authority mentioned in the beginning of the ingress. For instance "Der Schweizerische Bundesrat".
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;basis&gt;</b>	
<i>textType4/basis</i>	
<b>Element Data Type</b>	textType5
<b>Children</b>	<relation> <comment>
<b>Attributes</b>	
<b>Semantics</b>	Description of the legal basis in the ingress.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



<b>&lt;formal&gt;</b>	
<i>textType4/formal</i>	
<b>Element Data Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	A term describing the intention of the authority in the ingress. For example "beschliesst", "verordnet", etc.
<b>Schema Rules</b>	Optional.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**textType5**

Type structure	<pre> textType5 :=   relation [à relationType]   comment [à commentType] </pre>
Description	textType5 is used to specify the legal basis in the ingress as well as transitory regulations in an article.
Important notes	<p>textType5 is a mixed type.</p> <p>It allows to write formatted text as <i>defined by the authors</i>.</p>

**Appearances**

```

norm/normMetadata/ingress/ingressContent/ingressText/basis
norm/normContents/ {subStructure/normContents/}* structure/normTexts/article/articleBody/
articleText/ {subparts/articleText/}* transitory

```

<b>&lt;relation&gt; (4)</b>	
<i>textType5/relation</i>	
<b>Element Data Type</b>	relationType
<b>Children</b>	<source> <link>
<b>Attributes</b>	
<b>Semantics</b>	relation is a reference to some other norm (or parts thereof). Used to specify the norms to which the current text (or part of a text) refers.
<b>Schema Rules</b>	Mandatory choice.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;comment&gt; (7)</b>	
<i>textType5/comment</i>	
<b>Element Data Type</b>	commentType
<b>Children</b>	<commentReferencing> <number> <origin>
<b>Attributes</b>	
<b>Semantics</b>	A footnote marker.
<b>Schema Rules</b>	Mandatory choice.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

**textType6**

Type structure	<pre> <b>textType6</b> :=   relation [à relationType]   comment [à commentType]   break </pre>
Description	textType6 is used to specify comment text.
Important notes	<p>textType6 is a mixed text.</p> <p>It allows to write formatted text <i>as defined by the authors</i>.</p>

**Appearances**

norm/normComments/normComment/commentContent/commentText

<b>&lt;relation&gt; (5)</b>	
<i>textType6/relation</i>	
<b>Element Data Type</b>	relationType
<b>Children</b>	<source> <link>
<b>Attributes</b>	
<b>Semantics</b>	relation is a reference to some other norm (or parts thereof). Used to specify the norms to which the current text (or part of a text) refers.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;comment&gt; (8)</b>	
<i>textType6/comment</i>	
<b>Element Data Type</b>	commentType
<b>Children</b>	<commentReferencing> <number> <origin>
<b>Attributes</b>	
<b>Semantics</b>	A footnote marker.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>&lt;break&gt; ( 3 )</b>	
<i>textType6/break</i>	
<b>Element Data Type</b>	
<b>Children</b>	
<b>Attributes</b>	<b>type</b> (mandatory à enumeration {pagebreak, columnbreak, line} )
<b>Semantics</b>	A page break, a column break or a line break.
<b>Schema Rules</b>	Mandatory.
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

# Simple Data Types

<b>cantonType</b>	
<b>Type</b>	Restriction of xs:token Enumeration {ZH, BE, LU, UR, SZ, OW, NW, ZG, GL, SG, TG, SH, GR, AG, AI, AR, SO, BS, BL, JU, NE, VD, GE, VS, TI, FR}
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Specifies one of the Swiss cantons using the official 2-character abbreviation.
<b>Schema Rules</b>	
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

<b>languageType</b>	
<b>Type</b>	Restriction of xs:token Enumeration {de, fr, it, rm, en}
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Specify one of the Swiss languages or English.
<b>Schema Rules</b>	
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	



<b>pictureNotationType</b>	
<b>Type</b>	xs:token
<b>Children</b>	
<b>Attributes</b>	
<b>Semantics</b>	Used to specify the format of a picture by means of free text. You are encouraged to use well-known abbreviations, e.g. GIF, JPEG, MPEG, etc.
<b>Schema Rules</b>	
<b>Business Rules</b>	
<b>Dependencies</b>	
<b>Errors Raised</b>	
<b>Example</b>	
<b>Remarks</b>	

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

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