



Poznańskie Centrum Superkomputerowo-Sieciowe

ICHB Polska Akademia Nauk

Dokumentacja formatu źródłowego epXML

**Platforma Technologiczna
epodreczniki.pl**

w wersji 3.0

Poznań, 30 listopada 2015 r.

Platforma epodreczniki.pl jest oparta na standardach open source, w szczególności na standardzie XML. Jest to powszechnie stosowany język, używany do tworzenia ustrukturalizowanych zbiorów danych na podstawie reguł semantycznych. W projekcie epodreczniki.pl jest on używany do tworzenia i edytowania e-podreczników. Do tego celu został zaadaptowany i rozszerzony schemat XML zaproponowany przez projekt Connexions: CNXML, CollXML, mdml, QML and BibTeXML.

Schemat Connexions został stworzony w formacie RNG. Na potrzeby epodreczniki.pl został on skonwertowany do formatu XSD, pozwalającym wyrazić potrzebne reguły i wymagania.

W rezultacie powstały nowe schematy XML:

- epCollXML
- epXML

epXML

Moduł epXML reprezentuje jednostkę treści. Jako podstawowy element tworzący e-podręcznik, powinien zawierać spójną i niezależną część treści, być możliwy do wykorzystania w innych e-podręcznikach. Dokładna ilość informacji zawarta module epXML może być różna, jednak w przybliżeniu powinna odpowiadać rozdziałowi z klasycznego podręcznika.

Schematy

Elementem głównym każdego modułu epXML jest element **cnxml:document**. Może zawierać 4 elementy podrzędne: **cnxml:title**, **cnxml:metadata**, **cnxml:content** i opcjonalny **bib:file**.

Metadane specyficzne dla epXML (nowe względem Connexions) są zawarte w podelemencie **cnxml:metadata**: **ep:e-textbook-module**.

Główna treść modułu znajduje się w elemencie **cnxml:content**.

Przykładowy epXML

```
<?xml version="1.0" encoding="UTF-8"?>

<document xmlns="http://cnx.rice.edu/cnxml"
  xmlns:cnxml="http://cnx.rice.edu/cnxml" xmlns:md="http://cnx.rice.edu/mdml"
  xmlns:bib="http://bibtexml.sf.net/" xmlns:q="http://cnx.rice.edu/qml/1.0"
  xmlns:ep="http://epodreczniki.pl/" xmlns:mml="http://www.w3.org/1998/Math/MathML"
  id="irTLSZt4S4" module-id="irTLSZt4S4" cnxml-version="0.7">

  <title>Pojęcie funkcji</title>

  <metadata mdml-version="0.5">

    <md:content-id>irTLSZt4S4</md:content-id>

    <md:repository>https://epodreczniki.pcass.pl/</md:repository>

    <md:version>2</md:version>
```

```
<md:created>2013-08-28 14:03 CEST</md:created>

<md:revised>2014-05-12 10:15 CEST</md:revised>

<md:title>Pojęcie funkcji</md:title>

<md:language>pl-PL</md:language>

<md:license url="http://creativecommons.org/licenses/by/3.0/pl/legalcode">CC
BY 3.0</md:license>

<md:actors>

  <md:person userid="person1">

    <md:fullname>Jan Kowalski</md:fullname>

    <md:firstname>Jan</md:firstname>

    <md:surname>Kowalski</md:surname>

    <md:email>jan.kowalski@example.com</md:email>

  </md:person>

</md:actors>

<md:roles>

  <md:role type="author">person1</md:role>

</md:roles>

<ep:e-textbook-module ep:version="1.5" ep:recipient="student" ep:content-
status="canon">

  <ep:presentation>

    <ep:template>linear</ep:template>

  </ep:presentation>

  <ep:core-curriculum-entries>

    <ep:core-curriculum-entry>

      <ep:core-curriculum-stage ep:key="E4">Etap 4</ep:core-curriculum-stage>

      <ep:core-curriculum-school ep:key="SRE">Szkoły ponadgimnazjalne,
których ukończenie umożliwia uzyskanie świadectwa dojrzałości po zdaniu egzaminu
maturalnego</ep:core-curriculum-school>

      <ep:core-curriculum-subject ep:key="EPO">E-podręczniki</ep:core-
curriculum-subject>
```

```
<ep:core-curriculum-version ep:key="E1.0">Testowa podstawa programowa
projektu e-podręczniki</ep:core-curriculum-version>
```

```
<ep:core-curriculum-ability ep:key="E4-SRE-EPO-E1.0-I.1">Uczeń potrafi
"ostylować" dokument zawierający źródło modułu e-podręcznika.</ep:core-
curriculum-ability>
```

```
</ep:core-curriculum-entry>
```

```
</ep:core-curriculum-entries>
```

```
</ep:e-textbook-module>
```

```
</metadata>
```

```
<content>
```

```
<section id="s0">
```

```
<ep:lead ep:id="lead"><para id="slp0">Początek modułu</para></ep:lead>
```

```
<ep:revisal ep:id="revisal">
```

```
<para id="revisalp1">Już wiesz, część 1</para>
```

```
<para id="revisalp2">Już wiesz, część 2</para>
```

```
</ep:revisal>
```

```
<ep:effect ep:id="effect">
```

```
<para id="effectp1">Nauczysz się, część 1</para>
```

```
<para id="effectp2">Nauczysz się, część 2</para>
```

```
</ep:effect>
```

```
</section>
```

```
<section id="s1">
```

```
<title>Wprowadzenie</title>
```

```
<para id="slp1">Paragraf, zawiera mathml <mml:math/> i <ep:reference
ep:id="10"/>.</para>
```

```
<para id="slp2">Drugi paragraf...</para>
```

```
<exercise id="e1" ep:context-dependent="false">
```

```
<ep:effect-of-education>B</ep:effect-of-education>
```

```
<title>Przykładowe ćwiczenie</title>
```

```
<problem id="elpr1">
```



```

    <para id="e1pr1p1">Opis problemu</para>

</problem>

<solution id="e1sol1">

    <para id="e1sol1p1">Rozwiązanie ćwiczenia</para>

</solution>

</exercise>

<ep:command ep:id="com1">

    <problem id="com1pr1">

        <para id="com1pr1p1">Opis problemu</para>

    </problem>

    <note id="com1n1" type="warning">

        <para id="com1pr1p1a">Notatka typu uwaga</para>

    </note>

    <note id="com1n2" type="tip">

        <para id="com1pr1p1b">Notatka typu wskazówka</para>

    </note>

    <problem id="com1pr2">

        <para id="com1pr2p1">Opis problemu</para>

    </problem>

</ep:command>

</section>

<section id="s2">

    <title>Sekcja pierwsza</title>

    <definition id="s2d1" ep:glossary="false">

        <term>Definiowany termin</term>

        <meaning id="s2d1m1"><para id="com1pr1p1c">Treść
definicji</para></meaning>

        <ep:source>

```

```

        <ep:bibliography-reference ep:id="bibliography1" ep:local-
reference="true" ep:inline="true"/>

    </ep:source>

</definition>

<ep:concept id="s2concl" ep:glossary="false">

    <term>Nazwa pojęcia</term>

    <meaning id="s2conclm1"><para id="com1pr1p1d">Treść
pojęcia</para></meaning>

    <meaning id="s2conclm2"><para id="com1pr1ple">Inna treść
pojęcia</para></meaning>

</ep:concept>

<para id="s2p1">

    <ep:gallery ep:id="s2p1g1" ep:titles="hide-normal">

        <title>Galeria obrazków z tytułami ukrytymi w normalnym widoku
liniowym</title>

        <ep:content ep:id="s2p1g1c1" ep:format="classic">

            <!-- tekst skojarzony galerii klasyczny -->

        </ep:content>

        <ep:content ep:id="s2p1g1c2" ep:format="mobile">

            <!-- tekst skojarzony galerii mobilny -->

        </ep:content>

        <ep:content ep:id="s2p1g1c3" ep:format="static">

            <!-- tekst skojarzony galerii statyczny (PDF) -->

        </ep:content>

        <ep:content ep:id="s2p1g1c4" ep:format="static-mono">

            <!-- tekst skojarzony galerii statyczny-monochromatyczny (ePub) -->

        </ep:content>

        <ep:reference ep:id="101" ep:instance-id="i101"/>

        <ep:reference ep:id="102" ep:instance-id="i102"/>

        <ep:reference ep:id="103" ep:instance-id="i103"/>

```

```
<ep:reference ep:id="104" ep:instance-id="i104"/>

<ep:reference ep:id="105" ep:instance-id="i105"/>

</ep:gallery>

</para>

</section>

</content>

<bib:file>

  <bib:entry id="bibliography1" ep:target-name="Bibliography entry No. 1">

    <bib:article>

      <bib:author>Autor1, Autor2</bib:author>

      <bib:title>Tytuł</bib:title>

      <bib:journal>Nazwa czasopisma</bib:journal>

      <bib:year>2014</bib:year>

    </bib:article>

  </bib:entry>

</bib:file>

</document>
```

Schema cnxml.xsd

schema location: [cnxml.xsd](#)
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **http://cnx.rice.edu/cnxml**

Elements	Groups	Complex types
code	extendedInlineContentGroup	codeType
colspec	linkInlineContentGroup	colspecType
commentary	sectionElementGroup	contentType
content	simpleInlineContentGroup	definitionType
definition	verySimpleInlineContentGroup	documentType
document		entryType
emphasis		equationType
entry		exerciseType
equation		extendedInlineContentType
example		firstLevelSectionType
exercise		fourthLevelSectionType
foreign		linkInlineContentType
item		listType
label		metadataType
link		paraContainerType
list		paraContainerWithIdType
meaning		problemType
metadata		qmlSectionContainerType
newline		quoteType
note		rowType
para		ruleType
problem		secondLevelSectionType
proof		simpleInlineContentType
quote		tableType
row		tbodyType
rule		tgroupType
solution		theadType
statement		thirdLevelSectionType
sub		verySimpleInlineContentType
sup		
table		
tbody		
term		
tgroup		
thead		
title		

schema location: [common.xsd](#)
attributeFormDefault: **unqualified**

elementFormDefault: **qualified**
targetNamespace: **http://cnx.rice.edu/cnxxml**

Simple types
[idType](#)
[titleType](#)
[WOMliidType](#)

schema location: [epXML.xsd](#)
attributeFormDefault: **qualified**
elementFormDefault: **qualified**
targetNamespace: **http://epodreczniki.pl/**

Elements	Groups	Complex types	Simple types	Attributes	Attr. groups
alternative	contentGroup	alternativesType	asideType	collectio	bibtexmlEntryAttribut
alternatives	firstLevelSectionParamet ersGroup	alternativeType	behaviourType	n-id collectio n- recipient collectio n- version content- status foldable	esGroup exerciseAttributesGro up
aside	secondLevelSecionPara metersGroup	baseGlossaryReference Type	columnsType	n- version content- status foldable	firstLevelSectionAttrib utesGroup
author	simpleExerciseGroup	bibliographyPatternType	content- statusType formatType	glossary	gmlAnswerAttributes Group
avatar		biographyType	galleryOptionsVisi bilityType generated- typeType	presentation- variant recipient	
behaviour		commandType	hide-captionType	stretch	
bibliography- reference		configType	licenseBaseType	style	
bibliography Pattern biography		contentType	licenseURLType	target- name	
biography- reference birth		core-curriculum- abilityType core-curriculum- entriesType core-curriculum- entryType core-curriculum- schoolType core-curriculum- stageType core-curriculum- subjectType core-curriculum- versionType datePartType	numberingType		
bookmark		dateType	origin-idType		
columns		e-textbook-moduleType	origin-versionType		
command		effectType	recipientType		
comment		eventType	stretchType		
concept		experimentType	templateType		
concept- reference conclusions		externalType	widthType		
config			zoomableType		
content					
context					
core- curriculum- ability core- curriculum- entries		firstLevelSectionPame tersType			

core-curriculum-entry	formatsType
core-curriculum-school	galleryType
core-curriculum-stage	licenseType
core-curriculum-subject	module-headerType
core-curriculum-version	observationType
correct-in-set	paraContainerWithIdType
date	e
death	play-and-learnType
demonstration	presentationType
disabled-alternative-reference	procedure-instructionsType
e-textbook-module	reading-roomType
effect	referencesType
effect-of-education	referenceType
embedded	secondLevelSectionParametersType
event	startEndType
event-end	student-workType
event-reference	tooltipType
event-start	
experiment	
external	
fold-point	
format	
formats	
gallery	
generated-type	
glossary-reference	
hide-caption	
hypothesis	
instructions	
instruments	
intro	
lead	
license	
license-additional-info	
module-header	
name	
nbsp	

[numbering](#)
[objective](#)
[observation](#)
[origin-id](#)
[origin-version](#)
[play-and-learn](#)
[prerequisite](#)
[presentation](#)
[presentation-style](#)
[presented-answers](#)
[problem](#)
[procedure-instructions](#)
[reading-room](#)
[reference](#)
[references](#)
[revisal](#)
[role](#)
[source](#)
[start-new-page](#)
[step](#)
[stretch](#)
[stretch-title](#)
[student-work](#)
[tab](#)
[technical-remarks](#)
[template](#)
[tooltip](#)
[tooltip-reference](#)
[type](#)
[width](#)
[work-area](#)
[zebra-point](#)
[zoomable](#)

schema location: [mdml.xsd](#)
 attributeFormDefault: **unqualified**
 elementFormDefault: **qualified**
 targetNamespace: **http://cnx.rice.edu/mdml**

Elements
[abstract](#)
[actors](#)
[content-id](#)

Groups
[presentationTitleContentGroup](#)

Complex types
[abstractType](#)
[actorsType](#)
[licenseType](#)

Simple types
[dateTimeType](#)
[emailType](#)
[keywordType](#)

created	personType	languageType
email	presentationTitleType	licenseBaseType
firstname	rolesType	licenseURLType
fullname	roleType	
keyword		
keywordlist		
language		
license		
person		
presentationTitle		
repository		
revised		
role		
roles		
surname		
title		
version		

schema location: [bibtexml.xsd](#)
 attributeFormDefault: **unqualified**
 elementFormDefault: **qualified**
 targetNamespace: **http://bibtexml.sf.net/**

Elements	Complex types	Simple types
address	articleType	dateType
article	entryType	nonEmptyString
author	fileType	
booktitle	incollectionFreeType	
edition	incollectionType	
editor	manualType	
entry	miscType	
file	unpublishedType	
howpublished		
incollection		
incollectionFree		
journal		
key		
manual		
misc		
note		
number		
organization		
pages		
publisher		
series		
title		

[unpublished](#)

[year](#)

schema location: [qml.xsd](#)
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **http://cnx.rice.edu/qml/1.0**

Elements	Complex types	Simple types
answer	answerType	typeType
feedback	itemType	
hint		
item		
key		
question		
response		

schema location: [mathml3\mathml3.xsd](#)
attributeFormDefault:
elementFormDefault: **qualified**
targetNamespace: **http://www.w3.org/1998/Math/MathML**

schema location: [common.xsd](#)
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **http://epodreczniki.pl/**

Simple types
[idType](#)
[titleType](#)
[WOMIidType](#)

schema location: [common.xsd](#)
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **http://cnx.rice.edu/mdml**

Simple types
[idType](#)
[titleType](#)
[WOMIidType](#)

schema location: [common.xsd](#)
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **http://bibtexml.sf.net/**

Simple types

[idType](#)
[titleType](#)
[WOMIidType](#)

schema location: [common.xsd](#)
attributeFormDefault: **unqualified**
elementFormDefault: **qualified**
targetNamespace: **http://cnx.rice.edu/qml/1.0**

Simple types

[idType](#)
[titleType](#)
[WOMIidType](#)

schema location: [mathml3\mathml3-content.xsd](#)
attributeFormDefault:
elementFormDefault: **qualified**
targetNamespace: **http://www.w3.org/1998/Math/MathML**

Elements

[abs](#)
[and](#)
[approx](#)
[arccos](#)
[arccosh](#)

[arccot](#)
[arccoth](#)
[arccsc](#)
[arccsch](#)
[arcsec](#)
[arcsech](#)
[arcsin](#)
[arcsinh](#)
[arctan](#)
[arctanh](#)
[arg](#)
[binary-linalg.class](#)
[binary-logical.class](#)
[binary-reln.class](#)
[binary-set.class](#)

Groups

[binary-arith.class](#)
[DomainQ](#)
[Qualifier](#)
[unary-arith.class](#)

Complex types

[apply.content](#)
[bind.content](#)
[ci.content](#)
[cn.content](#)
[csymbol.content](#)

Attr. groups

[base](#)
[cbytes.attributes](#)
[ci.attributes](#)
[ci.type](#)
[closure](#)

[cn.attributes](#)
[cs.attributes](#)
[csymbol.attributes](#)

[order](#)
[type](#)

[bvar](#)
[card](#)
[cartesianproduct](#)
[ceiling](#)
[codomain](#)
[complexes](#)
[compose](#)
[condition](#)
[conjugate](#)
[constant-arith.class](#)
[constant-set.class](#)
[cos](#)
[cosh](#)
[cot](#)
[coth](#)
[csc](#)
[csch](#)
[curl](#)
[declare](#)
[degree](#)
[DeprecatedContExp](#)
[determinant](#)
[diff](#)
[Differential-Operator.class](#)
[divergence](#)
[divide](#)
[domain](#)
[domainofapplication](#)
[emptyset](#)
[eq](#)
[equivalent](#)
[eulergamma](#)
[exists](#)
[exp](#)
[exponentiale](#)
[factorial](#)
[factorof](#)
[false](#)
[floor](#)
[fn](#)
[forall](#)
[gcd](#)
[geq](#)
[grad](#)
[gt](#)
[ident](#)

[image](#)
[imaginary](#)
[imaginaryi](#)
[implies](#)
[in](#)
[infinity](#)
[int](#)
[int.class](#)
[integers](#)
[intersect](#)
[interval](#)
[interval.class](#)
[inverse](#)
[lambda](#)
[lambda.class](#)
[laplacian](#)
[lcm](#)
[leg](#)
[limit](#)
[limit.class](#)
[list](#)
[ln](#)
[log](#)
[logbase](#)
[lowlimit](#)
[lt](#)
[matrix](#)
[matrixrow](#)
[max](#)
[mean](#)
[median](#)
[min](#)
[minus](#)
[mode](#)
[moment](#)
[momentabout](#)
[nary-arith.class](#)
[nary-constructor.class](#)
[nary-functional.class](#)
[nary-linalg.class](#)
[nary-logical.class](#)
[nary-minmax.class](#)
[nary-reln.class](#)
[nary-set-reln.class](#)
[nary-set.class](#)
[nary-setlist-constructor.class](#)

[nary-stats.class](#)
[naturalnumbers](#)
[neg](#)
[not](#)
[notanumber](#)
[notin](#)
[notprsubset](#)
[notsubset](#)
[or](#)
[otherwise](#)
[outerproduct](#)
[partialdiff](#)
[partialdiff.class](#)
[pi](#)
[piece](#)
[piecewise](#)
[plus](#)
[power](#)
[PresentationExpression](#)
[primes](#)
[product](#)
[product.class](#)
[prsubset](#)
[quantifier.class](#)
[quotient](#)
[rationals](#)
[real](#)
[reals](#)
[reln](#)
[rem](#)
[root](#)
[scalarproduct](#)
[sdev](#)
[sec](#)
[sech](#)
[selector](#)
[sep](#)
[set](#)
[setdiff](#)
[sin](#)
[sinh](#)
[subset](#)
[sum](#)
[sum.class](#)
[tan](#)
[tanh](#)

[tendsto](#)
[times](#)
[transpose](#)
[true](#)
[unary-elementary.class](#)
[unary-functional.class](#)
[unary-linalg.class](#)
[unary-logical.class](#)
[unary-set.class](#)
[unary-veccalc.class](#)
[union](#)
[uplimit](#)
[variance](#)
[vector](#)
[vectorproduct](#)
[xor](#)

schema location: [mathml3\mathml3-presentation.xsd](#)
 attributeFormDefault:
 elementFormDefault: **qualified**
 targetNamespace: <http://www.w3.org/1998/Math/MathML>

Elements	Groups	Complex types	Simple types	Attr. groups
maction	MsrowExpression	ImpliedMrow	character	CommonPresAtt
MalignExpression	MstackExpression		color	DeprecatedTokenAtt
maligngroup	MultiScriptExpression		columnalignstyle	maction.attributes
malignmark	token.content		group-alignment	maligngroup.attributes
menclose			group-alignment-list	malignmark.attributes
merror			group-alignment-list-list	math.attributes
mfenced			integer	menclose.attributes
mfrac			linestyle	merror.attributes
mglyph			mpadded-length	mfenced.attributes
mi			notationstyle	mfrac.attributes
mlabeledtr			number	mglyph.attributes
mlongdiv			positive-integer	mglyph.deprecatedattributes
mmultiscripts			unsigned-integer	mi.attributes
mn			verticalalign	mlabeledtr.attributes
mo				mlongdiv.attributes
mover				mmultiscripts.attributes
mpadded				mn.attributes
mphantom				mo.attributes
mprescripts				mover.attributes
mroot				mpadded.attributes
mrow				mphantom.attributes
ms				mprescripts.attributes

mscarries	mroot.attributes
mscarry	mrow.attributes
msgroup	ms.attributes
msline	mscarries.attributes
mspace	mscarry.attributes
msgqrt	msgroup.attributes
msrow	msline.attributes
mstack	mspace.attributes
mstyle	msgqrt.attributes
msub	msrow.attributes
msubsup	mstack.attributes
msup	mstyle.attributes
mtable	mstyle.deprecatedattributes
mtd	mstyle.generalattributes
mtext	mstyle.specificattributes
mtr	msub.attributes
munder	msubsup.attributes
munderover	msup.attributes
none	mtable.attributes
TableCellExpression	mtd.attributes
TableRowExpression	mtext.attributes
TokenExpression	mtr.attributes
	munder.attributes
	munderover.attributes
	none.attributes
	TokenAtt

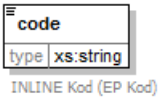
schema location: [mathml3\mathml3-common.xsd](#)
 attributeFormDefault:
 elementFormDefault: **qualified**
 targetNamespace: **http://www.w3.org/1998/Math/MathML**

Elements	Groups	Complex types	Simple types	Attr. groups
annotation	anyElement	annotation-xml.model	length	annotation.attributes
annotation-xml	semantics			cd
math				CommonAtt
				CommonDeprecatedAtt
				DefEncAtt
				math.deprecatedattributes
				name
				semantics.attributes
				src

schema location: [mathml3\mathml3-strict-content.xsd](#)
 attributeFormDefault:
 elementFormDefault: **qualified**
 targetNamespace: **http://www.w3.org/1998/Math/MathML**

Elements	Groups	Simple types	Attr. groups
apply	BvarQ	base64	cerror.attributes
bind	ContExp	SymbolName	
cbytes	MathExpression		
cerror	semantics-ci		
ci	semantics-contexp		
cn			
cs			
csymbol			
share			

element **code**

diagram	
namespace	http://cnx.rice.edu/cnxml
type	xs:string
properties	content simple
used by	groups linkInlineContentGroup verySimpleInlineContentGroup
annotation	documentation INLINE Kod (EP Kod)
source	<pre> <xs:element name="code" type="xs:string"> <xs:annotation> <xs:documentation>INLINE Kod (EP Kod)</xs:documentation> </xs:annotation> <!-- <xs:element name="code" type="cnxml:inlineContentType"--> </xs:element> </pre>

element **colspec**

diagram	The diagram illustrates the cnxml:colspecType element structure. It is a complex type with the following attributes: colnum: type <code>xs:positiveInteger</code>, use <code>optional</code>. Documentation: Numer kolumny. colname: type <code>xs:string</code>, use <code>required</code>. Documentation: Nazwa kolumny tabeli - wykorzystywana do scalania w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa <code>c{n}</code>, gdzie <code>n</code> jest tożsame z numerem kolumny. colwidth: type <code>xs:positiveInteger</code>, use <code>optional</code>. Documentation: Szerokość kolumny. The colspec element is shown with type <code>cnxml:colspecType</code> and documentation: Element specyfikacja kolumny tabeli.					
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:colspecType					
properties	content complex					
used by	complexType tgroupType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	colnum	xs:positiveInteger	optional			documentation Numer kolumny.
	colname	derived by: xs:string	required			documentation Nazwa kolumny tabeli - wykorzystywana do scalania w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa <code>c{n}</code> , gdzie <code>n</code> jest tożsame z numerem kolumny.
	colwidth	derived by: xs:positiveInteger	optional			documentation Szerokość kolumny.
annotation	documentation Element specyfikacja kolumny tabeli					
source	<pre><xs:element name="colspec" type="cnxml:colspecType"> <xs:annotation> <xs:documentation>Element specyfikacja kolumny tabeli</xs:documentation> </xs:annotation> </xs:element></pre>					

element commentary

diagram	The diagram illustrates the structure of the commentary element. It is an extension of cnxml:paraContainerWithIdType. The commentary element has an id attribute of type cnxml:idType and a cnxml:para element. The cnxml:para element is an extension of cnxml:extendedInlineCont... and contains a type attribute of type xs:string.					
namespace	http://cnx.rice.edu/cnxml					
type	extension of cnxml:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	group simpleExerciseGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	type	derived by: xs:string				
annotation	documentation Wyjaśnienie ćwiczenia (w przypadku typu ustawionego na example przykładowe rozwiązanie) (EP Ćwiczenie - wyjaśnienie, EP Przykład)					
source	<pre> <xs:element name="commentary"> <xs:annotation> <xs:documentation>Wyjaśnienie ćwiczenia (w przypadku typu ustawionego na example przykładowe rozwiązanie) (EP Ćwiczenie - wyjaśnienie, EP Przykład)</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:paraContainerWithIdType"> <xs:attribute name="type"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="example"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

attribute **commentary/@type**

Attribute: xml:base type			
type	restriction of xs:string		
facets	Kind enumeration	Value example	Annotation
source	<pre><xs:attribute name="type"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="example"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

element **content**

diagram	
namespace	http://cnx.rice.edu/cnxml
type	cnxml:contentType
properties	content complex
children	cnxml:section ep:zebra-point
used by	complexType documentType
annotation	documentation Element zawierający treść modułu
source	<pre> <xs:element name="content" type="cnxml:contentType"> <xs:annotation> <xs:documentation>Element zawierający treść modułu</xs:documentation> </xs:annotation> </xs:element> </pre>

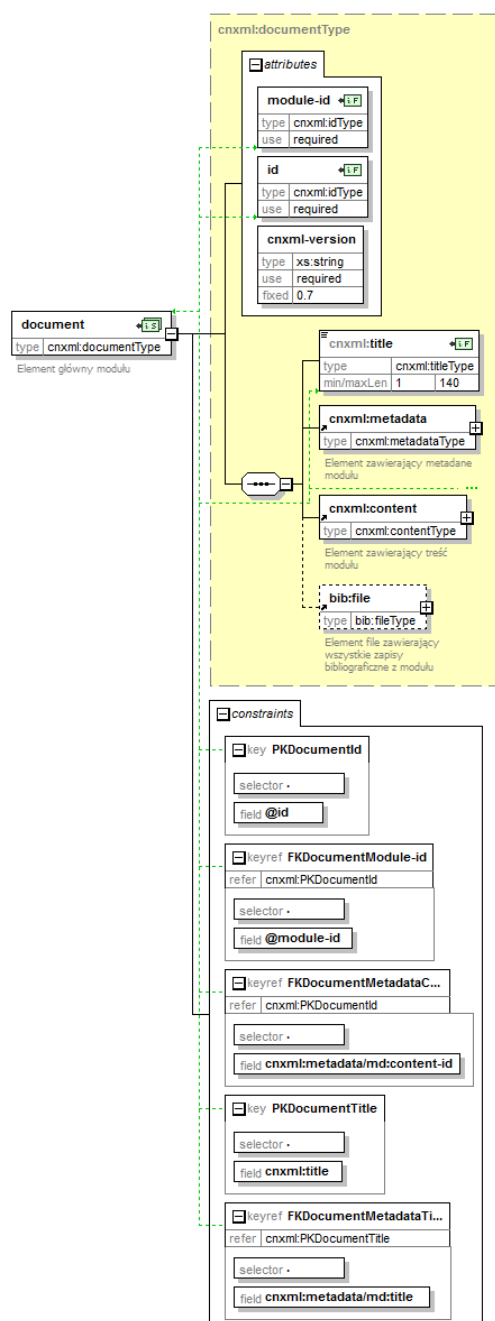
element definition

diagram																														
namespace	http://cnx.rice.edu/cnxml																													
type	extension of cnxml:definitionType																													
properties	content complex																													
children	cnxml:term cnxml:meaning cnxml:example ep:source																													
used by	group sectionElementGroup																													
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>id</td><td>idType</td><td>required</td><td></td><td></td><td></td></tr><tr><td>ep:glossary</td><td>xs:boolean</td><td>required</td><td></td><td></td><td>documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie</td></tr><tr><td>ep:presentation-variant</td><td>derived by: xs:string</td><td></td><td></td><td></td><td>documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany</td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	id	idType	required				ep:glossary	xs:boolean	required			documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie	ep:presentation-variant	derived by: xs:string				documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany					
Name	Type	Use	Default	Fixed	Annotation																									
id	idType	required																												
ep:glossary	xs:boolean	required			documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie																									
ep:presentation-variant	derived by: xs:string				documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany																									

		w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Element definicja	
source	<pre><xs:element name="definition"> <xs:annotation> <xs:documentation>Element definicja</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:definitionType"/> </xs:complexContent> </xs:complexType> </xs:element></pre>	

element **document**

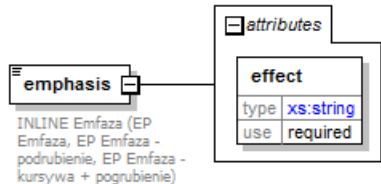
diagram



namespace	http://cnx.rice.edu/cnxml					
type	cnxml:documentType					
properties	content complex					
children	cnxml:title cnxml:metadata cnxml:content bib:file					
attributes	Name module-id id	Type idType idType	Use required required	Default	Fixed	Annotation

	cnxml-version	xs:string	required	0.7	
identity constraints	Name	Refer	Selecto r	Field(s)	Annotatio n
	key PKDocumentId		.	@id	
	keyref FKDocumentModule-id	cnxml:PKDocumentId	.	@module-id	
	keyref FKDocumentMetadataContent-id	cnxml:PKDocumentId	.	cnxml:metadata/md:content-id	
	key PKDocumentTitle		.	cnxml:title	
	keyref FKDocumentMetadataTitle	cnxml:PKDocumentTitle	.	cnxml:metadata/md:title	
annotation	documentation Element główny modułu				
source	<pre> <xs:element name="document" type="cnxml:documentType"> <xs:annotation> <xs:documentation>Element główny modułu</xs:documentation> </xs:annotation> <xs:key name="PKDocumentId"> <xs:selector xpath="."/> <xs:field xpath="@id"/> </xs:key> <xs:keyref name="FKDocumentModule-id" refer="cnxml:PKDocumentId"> <xs:selector xpath="."/> <xs:field xpath="@module-id"/> </xs:keyref> <xs:keyref name="FKDocumentMetadataContent-id" refer="cnxml:PKDocumentId"> <xs:selector xpath="."/> <xs:field xpath="cnxml:metadata/md:content-id"/> </xs:keyref> <xs:key name="PKDocumentTitle"> <xs:selector xpath="."/> <xs:field xpath="cnxml:title"/> </xs:key> <xs:keyref name="FKDocumentMetadataTitle" refer="cnxml:PKDocumentTitle"> <xs:selector xpath="."/> <xs:field xpath="cnxml:metadata/md:title"/> </xs:keyref> </xs:element> </pre>				

element emphasis

diagram					
namespace	http://cnx.rice.edu/cnxml				
properties	content mixed	complex true			
used by	complexType groups	contentType linkinlineContentGroup presentationTitleContentGroup verySimpleInlineContentGroup			
attributes	Name effect	Type derived by: xs:string	Use required	Default Fixed	Annotation

annotation	documentation INLINE Emfaza (EP Emfaza, EP Emfaza - podrubienie, EP Emfaza - kursywa + pogrubienie)
source	<pre> <xs:element name="emphasis"> <xs:annotation> <xs:documentation>INLINE Emfaza (EP Emfaza, EP Emfaza - podrubienie, EP Emfaza - kursywa + pogrubienie)</xs:documentation> </xs:annotation> <xs:complexType mixed="true"> <xs:attribute name="effect" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="italics"/> <xs:enumeration value="bold"/> <xs:enumeration value="bolditalics"/> </xs:restriction> </xs:simpleType> </xs:attribute> <!-- <xs:complexContent> <xs:extension base="cnxml:inlineContentType"> <xs:complexContent>--> </xs:complexContent> </xs:complexType> </xs:element> </pre>

attribute **emphasis/@effect**

type	restriction of xs:string		
properties	use	required	
facets	Kind enumeration	Value italics bold bolditalics	Annotation
source	<pre> <xs:attribute name="effect" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="italics"/> <xs:enumeration value="bold"/> <xs:enumeration value="bolditalics"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

diagram																			
namespace	http://cnx.rice.edu/cnxxml																		
type	extension of cnxml:entryType																		
properties	content complex																		
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference																		
used by	complexType rowType																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>name</td> <td>string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td>id</td> <td>string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	name	string	required				id	string	required			
Name	Type	Use	Default	Fixed	Annotation														
name	string	required																	
id	string	required																	

namespace	http://cnx.rice.edu/cnxml					
type	extension of cnxml:entryType					
properties	content	complex				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference					
used by	complexType	rowType				
attributes	Name	Type	Use	Default	Fixed	Annotation

	namestart derived by: xs:string nameend derived by: xs:string morerows xs:positiveInteger	documentation Nazwa kolumny (table/tgroup/colspec/@colname) , w której zaczyna się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsamy z numerem kolumny. documentation Nazwa kolumny (table/tgroup/colspec/@colname) , w której kończy się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsamy z numerem kolumny. documentation Liczba komórek tabeli do scalania w pionie (w dół).
annotation	documentation Element komórka tabeli	
source	<pre><xs:element name="entry"> <xs:annotation> <xs:documentation>Element komórka tabeli</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:entryType"/> </xs:complexContent> </xs:complexType> </xs:element></pre>	

element
 equation

diagram						
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:equationType					
properties	content complex					
children	m:math					
used by	group linkInlineContentGroup					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation

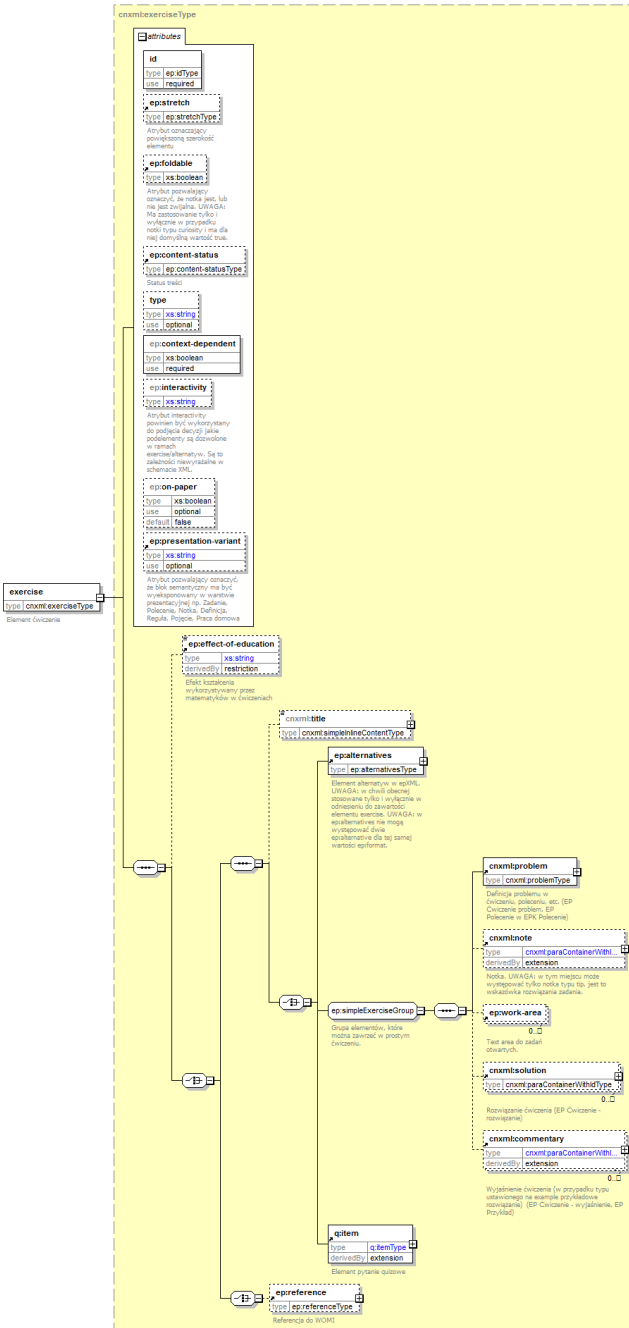
annotation	documentation MathML w formie blokowej
source	<pre><xs:element name="equation" type="cnxml:equationType"> <xs:annotation> <xs:documentation>MathML w formie blokowej</xs:documentation> </xs:annotation> </xs:element></pre>

element
 example

diagram	The diagram illustrates the relationship between two XML Schema types. On the left, a box labeled 'example' has a 'type' attribute with the value 'cnxml:paraContainerWithIdType' and a note 'Przykład (EP Przykład)'. This box is connected by a line to a larger box on the right labeled 'cnxml:paraContainerWithIdType'. This box has an 'attributes' section containing an 'id' attribute with 'type' 'cnxml:idType' and 'use' 'required'. Below this, a multiplicity '1..*' is shown. To the right of the multiplicity is a box for 'cnxml:para', which is connected to the main box by a dashed line with an open circle, indicating a derived type. The 'cnxml:para' box has 'type' 'cnxml:extendedInlineCont...' and 'derivedBy' 'extension'. A note 'Paragraf' is below it.												
namespace	http://cnx.rice.edu/cnxml												
type	cnxml:paraContainerWithIdType												
properties	content complex												
children	cnxml:para												
used by	complexTypes definitionType ruleType group sectionElementGroup												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>id</td><td>idType</td><td>required</td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	id	idType	required			
Name	Type	Use	Default	Fixed	Annotation								
id	idType	required											
annotation	documentation Przykład (EP Przykład)												
source	<pre><xs:element name="example" type="cnxml:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Przykład (EP Przykład)</xs:documentation> </xs:annotation> </xs:element></pre>												

element exercise

diagram



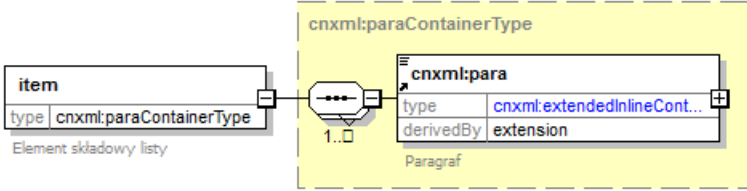
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:exerciseType					
properties	content	complex				
children	ep:effect-of-education cnxml:title ep:alternatives cnxml:problem cnxml:note ep:work-area cnxml:solution cnxml:commentary q:item ep:reference					
used by	complexType group	student-workType sectionElementGroup				
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation

	ep:stretch ep:stretchType ep:foldable xs:boolean ep:content-status-type ep:content-statusType derived by: xs:string optional ep:context-dependent xs:boolean ep:interactivity derived by: xs:string required ep:on-paper xs:boolean ep:presentation-variant derived by: xs:string optional false documentation Atrybut oznaczający powiększoną szerokość elementu documentation Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. documentation Status treści documentation Atrybut interactivity powinien być wykorzystany do podjęcia decyzji jakie podelementy są dozwolone w ramach exercise/alternatyw. Są to zależności niewyraźne w schemacie XML. documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Element ćwiczenie
source	<xs:element name="exercise" type="cnxml:exerciseType"> <xs:annotation> <xs:documentation>Element ćwiczenie</xs:documentation> </xs:annotation> </xs:element>

element foreign

diagram	
namespace	http://cnx.rice.edu/cnxml
type	xs:string
properties	content simple
used by	groups linkInlineContentGroup verySimpleInlineContentGroup
annotation	documentation INLINE Język obcy (EP Język obcy)
source	<pre> <xs:element name="foreign" type="xs:string"> <xs:annotation> <xs:documentation>INLINE Język obcy (EP Język obcy)</xs:documentation> </xs:annotation> <!-- <xs:element name="foreign" type="cnxml:inlineContentType"--> </xs:element> </pre>

element item

diagram	
namespace	http://cnx.rice.edu/cnxml
type	cnxml:paraContainerType
properties	content complex
children	cnxml:para
used by	complexType listType
annotation	documentation Element składowy listy
source	<pre> <xs:element name="item" type="cnxml:paraContainerType"> <xs:annotation> <xs:documentation>Element składowy listy</xs:documentation> </xs:annotation> </xs:element> </pre>

element label

diagram	cnxml:simpleInlineContentType Element będący tytułem cytatu, ... cnxml:linkInlineContentGroup Grupa bazowych elementów dozwolonych wewnątrz linku, odwołani etc (to co w simpleInlineContentGroup, ale bez innych linków). cnxml:simpleInlineContentGroup grupa bazowych elementów dozwolonych w cell tabeli (to co w paragrafie, ale bez referencji WOML, Galerii, tabel, czy list). epbookmark: Zakładka - cel łącza cnxml:emphasis: INLINE Emfaza (EP Emfaza, EP Emfaza - podkręcenie, EP Emfaza - kursywa + pogrubienie) cnxml:quote: type: xs:string, derivedBy: extension, INLINE Cytat (EP Cytat) cnxml:foreign: type: xs:string, INLINE Język obcy (EP Język obcy) cnxml:term: type: xs:string, INLINE Określenie (EP Określenie); Nazwa pojęcia(definicji) (EP Nazwa) cnxml:code: type: xs:string, INLINE Kod (EP Kod) cnxml:newline: Przejście do nowej linii. Element pusty ("miękkie enter") ep:nbsp: Nbp. Element pusty - znak rbp ("spacja niełamliwa") ep:tab: Tab. Element pusty pozwalający na kontrolę wcięć, szczególnie w cichodze mm:math cnxml:equation: type: cnxml:equationType, MathML w formie blokowej cnxml:sup: type: cnxml:verySimpleInlineContentT..., Element inline przypis górny cnxml:sub: type: cnxml:verySimpleInlineContentT..., Element inline przypis dolny cnxml:link: type: cnxml:linkInlineContentType, derivedBy: extension, Element łącza do modułu lub zakładki w module(bookmark). ep:tooltip-reference: type: ep:baseGlossaryReferenceType, Odwołanie do dyktika (EPK Dyktik - odwołanie) ep:glossary-reference: type: ep:baseGlossaryReferenceType, Odwołanie do słownika (do definicji lub reguły) (EPK Słowniczek - odwołanie) ep:concept-reference: type: ep:baseGlossaryReferenceType, Odwołanie do pojęcia (EPK Pojęcie - odwołanie) ep:biography-reference: type: ep:baseGlossaryReferenceType, Odwołanie do biogramu (EPK Biogram - odwołanie) ep:event-reference: type: ep:baseGlossaryReferenceType, Odwołanie do wydarzenia (EPK Wydarzenie - odwołanie) ep:bibliography-reference: type: ep:baseGlossaryReferenceType, Odwołanie do bibliografii (EPK Zapis bibliograficzny - odwołanie)
namespace	http://cnx.rice.edu/cnxml
type	cnxml:simpleInlineContentType
properties	content complex mixed true
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference
used by	complexType quoteType
annotation	documentation

	Element będący tytułem cytatu, ...
source	<pre><xs:element name="label" type="cnxml:simpleInlineContentType"> <xs:annotation> <xs:documentation>Element będący tytułem cytatu, ...</xs:documentation> </xs:annotation> </xs:element></pre>

element link

diagram	The diagram illustrates the structure of the <code>cnxml:linkInlineContentType</code> (extension). It shows a <code>link</code> element derived from <code>cnxml:linkInlineContentType</code> by extension. The <code>link</code> element is associated with a <code>cnxml:linkInlineContentGroup</code> element, which is a group of basic elements allowed within the link, including <code>ep:bookmark</code>, <code>cnxml:emphsis</code>, <code>cnxml:quote</code>, <code>cnxml:foreign</code>, <code>cnxml:term</code>, <code>cnxml:code</code>, <code>cnxml:newline</code>, <code>ep:nbsp</code>, <code>ep:tab</code>, <code>mm:math</code>, <code>cnxml:equation</code>, <code>cnxml:sup</code>, and <code>cnxml:sub</code>. The <code>link</code> element also has a set of attributes: <code>target-id</code>, <code>document</code>, <code>ep:collection-id</code>, <code>ep:collection-version</code>, and <code>ep:collection-recipient</code>. link type: cnxml:linkInlineContentType derivedBy: extension Element łączy do modułu lub zakładki w module(bookmark). cnxml:linkInlineContentGroup Grupa podstawowych elementów dozwolonych wewnątrz łączy, odwołani etc (to co w simpleInlineContentGroup, ale bez innych łączy). ep:bookmark Zakładka - cel łączy cnxml:emphsis INLINE Emfaza (EP Emfaza, EP Emfaza - podrobienie, EP Emfaza - kursywa + pogrubienie) cnxml:quote type: xs:string derivedBy: extension INLINE Cytat (EP Cytat) cnxml:foreign type: xs:string INLINE Język obcy (EP Język obcy) cnxml:term type: xs:string INLINE Określenie (EP Określenie); Nazwa pojęcia(definicja) (EP Nazwa) cnxml:code type: xs:string INLINE Kod (EP Kod) cnxml:newline Przejście do nowej linii. Element pusty ("miękki enter"). ep:nbsp Nbsp. Element pusty - znak nbsp ("spacja nielamiąca"). ep:tab Tab. Element pusty pozwalający na kontrolę wcięć, szczególnie w cncode. mm:math cnxml:equation type: cnxml:equationType MathML w formie blokowej cnxml:sup type: cnxml:verySimpleInlineContentT... Element inline przypis górny cnxml:sub type: cnxml:verySimpleInlineContentT... Element inline przypis dolny Attributes target-id type: cnxml:idType Atrybut zawierający id kolekcji w łączy document type: cnxml:idType Atrybut zawierający wersję kolekcji w łączy ep:collection-id type: ep:idType use: optional Atrybut zawierający id kolekcji w łączy ep:collection-version type: xs:positiveInteger use: optional Atrybut zawierający wersję kolekcji w łączy ep:collection-recipient type: xs:string use: optional Atrybut zawierający odbiorcę treści kolekcji w łączy
namespace	http://cnx.rice.edu/cnxml

type	extension of cnxml:linkInlineContentType					
properties	content complex					
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	group simpleInlineContentGroup					
attributes	Name target-id document ep:collection-id ep:collection-version ep:collection-recipient	Type idType idType idType xs:positiveInteger xs:string	Use optional optional optional	Default 	Fixed 	Annotation documentation Atrybut zawierający id kolekcji w łączy documentation Atrybut zawierający wersję kolekcji w łączy documentation Atrybut zawierający odbiorcę treści kolekcji w łączy
annotation	documentation Element łączy do modułu lub zakładki w module(bookmark).					
source	<pre> <xs:element name="link"> <xs:annotation> <xs:documentation>Element łączy do modułu lub zakładki w module(bookmark).</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:linkInlineContentType"> <xs:attribute name="target-id" type="cnxml:idType"/> <xs:attribute name="document" type="cnxml:idType"/> <xs:attribute ref="ep:collection-id" use="optional"/> <xs:attribute ref="ep:collection-version" use="optional"/> <xs:attribute ref="ep:collection-recipient" use="optional"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

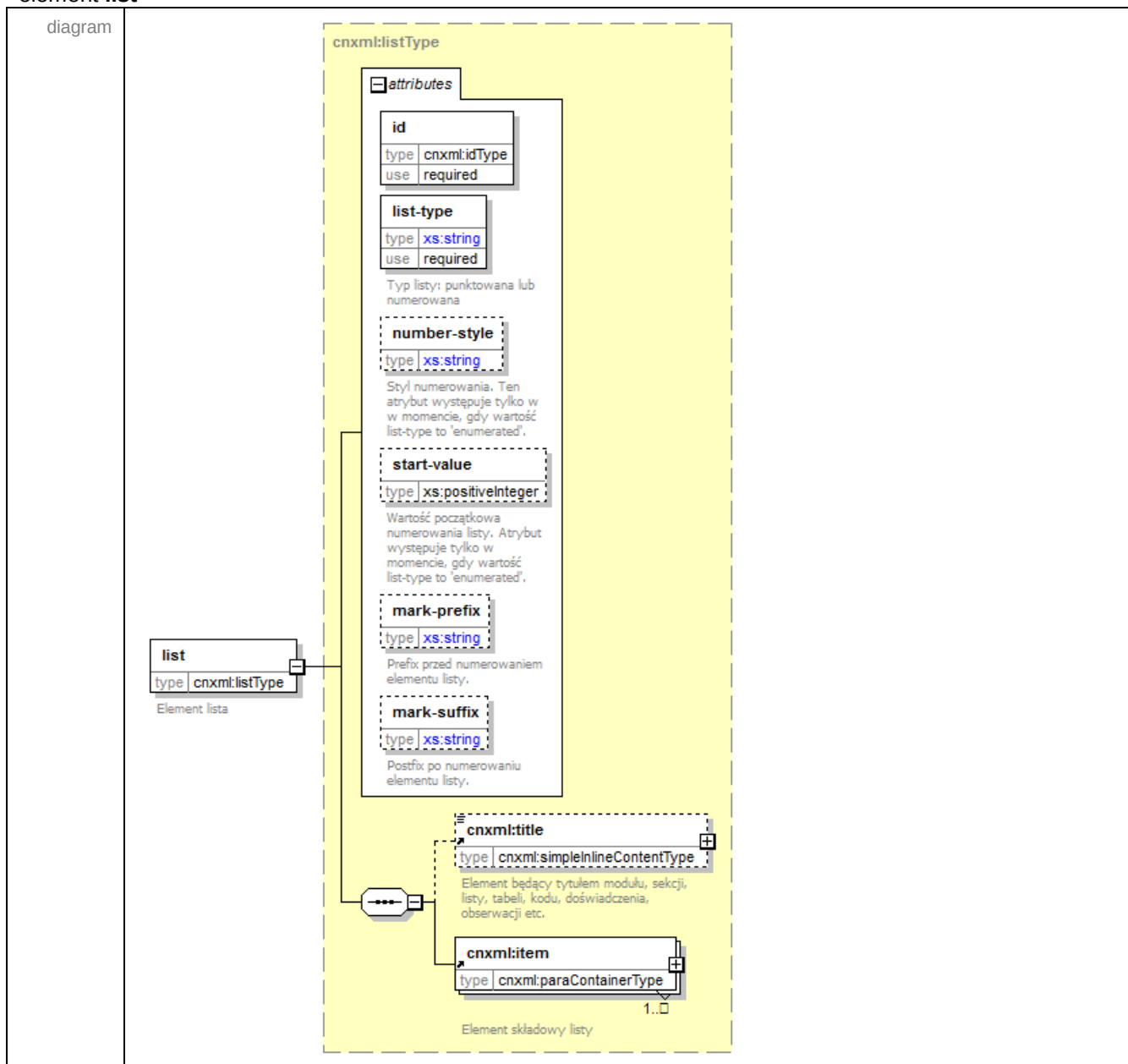
attribute [link/@target-id](#)

type	idType		
facets	Kind pattern	Value i[a-zA-Z0-9]{9}([_a-zA-Z0-9])? [a-zA-Z0-9_]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter. documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<pre><xs:attribute name="target-id" type="cnxml:idType"/></pre>		

attribute **link/@document**

type	idType		
facets	Kind	Value	Annotation
	pattern	<code>i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?</code>	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	<code>[a-zA-Z0-9_]+</code>	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<code><xs:attribute name="document" type="cnxml:idType"/></code>		

element **list**



namespace	http://cnx.rice.edu/cnxxml					
type	cnxml:listType					
properties	content complex					
children	cnxml:title cnxml:item					
used by	groups extendedInlineContentGroup sectionElementGroup					
attributes	Name id list-type number-style start-value mark-prefix mark-suffix	Type idType derived by: xs:string derived by: xs:string xs:positiveInteger derived by: xs:string derived by: xs:string	Use required required	Default	Fixed	Annotation documentation Typ listy: punktowana lub numerowana documentation Styl numerowania. Ten atrybut występuje tylko w w momencie, gdy wartość list- type to 'enumerated'. documentation Wartość początkowa numerowania listy. Atrybut występuje tylko w momencie, gdy wartość list-type to 'enumerated'. documentation Prefix przed numerowaniem elementu listy. documentation Postfix po numerowaniu elementu listy.
annotation	documentation Element lista					
source	<xs:element name="list" type="cnxml:listType"> <xs:annotation> <xs:documentation>Element lista</xs:documentation> </xs:annotation> </xs:element>					

element meaning

diagram	The diagram illustrates the structure of the 'meaning' element. It is a complex type defined as 'cnxml:paraContainerWithIdType'. It contains a sequence of 'cnxml:para' elements. The 'cnxml:para' element is derived by 'extension' and has a type 'cnxml:extendedInlineCont...'. It also has an 'id' attribute of type 'cnxml:idType' which is required.					
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexType definitionType					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Znaczenie definicji					
source	<pre><xs:element name="meaning" type="cnxml:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Znaczenie definicji</xs:documentation> </xs:annotation> </xs:element></pre>					

diagram													
namespace	http://cnx.rice.edu/cnxml												
type	cnxml:metadataType												
properties	content complex												
children	md:content-id md:repository md:version md:created md:revised md:title md:language md:license md:presentationTitle md:actors md:roles md:abstract md:keywordlist ep:e-textbook-module ep:origin-id ep:origin-version												
used by	complexType documentType												
attributes	<table border="1"> <thead> <tr> <th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>mdm1-version</td> <td>xs:string</td> <td>required</td> <td></td> <td>0.5</td> <td></td></tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	mdm1-version	xs:string	required		0.5	
Name	Type	Use	Default	Fixed	Annotation								
mdm1-version	xs:string	required		0.5									

namespace	http://cnx.rice.edu/cnxml					
type	cnxml:metadataType					
properties	content	complex				
children	md:content-id md:repository md:version md:created md:revised md:title md:language md:license md:presentationTitle md:actors md:roles md:abstract md:keywordlist ep:e-textbook-module ep:origin-id ep:origin-version					
used by	complexType	documentType				
attributes	Name	Type	Use	Default	Fixed	Annotation

	mdml-version xs:string required 0.5
annotation	documentation Element zawierający metadane modułu
source	<pre><xs:element name="metadata" type="cnxml:metadataType"> <xs:annotation> <xs:documentation>Element zawierający metadane modułu</xs:documentation> </xs:annotation> </xs:element></pre>

element **newline**

diagram	
namespace	http://cnx.rice.edu/cnxml
properties	content complex
used by	complexType contentType group linkInlineContentGroup
annotation	documentation Przejdźcie do nowej linii. Element pusty ("miękki enter").
source	<pre><xs:element name="newline"> <xs:annotation> <xs:documentation>Przejdźcie do nowej linii. Element pusty ("miękki enter").</xs:documentation> </xs:annotation> <xs:complexType/> </xs:element></pre>

element **note**

diagram	note <table><tr><td>type</td><td>cnxml:paraContainerWithIdType</td></tr><tr><td>derivedBy</td><td>extension</td></tr></table> Notka (EP Notka) cnxml:paraContainerWithIdType (extension) <table><tr><td colspan="2">attributes</td></tr><tr><td>id</td><td></td></tr><tr><td>type</td><td>cnxml:idType</td></tr><tr><td>use</td><td>required</td></tr></table> cnxml:para <table><tr><td>type</td><td>cnxml:extendedInlineCont...</td></tr><tr><td>derivedBy</td><td>extension</td></tr></table> Paragraf attributes <table><tr><td>type</td><td></td></tr><tr><td>type</td><td>xs:string</td></tr><tr><td>use</td><td>required</td></tr></table> ep:presentation-variant <table><tr><td>type</td><td>xs:string</td></tr></table> Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa ep:foldable <table><tr><td>type</td><td>xs:boolean</td></tr></table> Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. ep:recipient <table><tr><td>type</td><td>ep:recipientType</td></tr></table> Odbiorca treści						type	cnxml:paraContainerWithIdType	derivedBy	extension	attributes		id		type	cnxml:idType	use	required	type	cnxml:extendedInlineCont...	derivedBy	extension	type		type	xs:string	use	required	type	xs:string	type	xs:boolean	type	ep:recipientType
type	cnxml:paraContainerWithIdType																																	
derivedBy	extension																																	
attributes																																		
id																																		
type	cnxml:idType																																	
use	required																																	
type	cnxml:extendedInlineCont...																																	
derivedBy	extension																																	
type																																		
type	xs:string																																	
use	required																																	
type	xs:string																																	
type	xs:boolean																																	
type	ep:recipientType																																	
namespace	http://cnx.rice.edu/cnxml																																	
type	extension of cnxml:paraContainerWithIdType																																	
properties	content complex																																	
children	cnxml:para																																	
used by	complexTypes commandType experimentType observationType groups sectionElementGroup simpleExerciseGroup																																	
attributes	Name	Type	Use	Default	Fixed	Annotation																												
	id	idType	required																															
	type	derived by: xs:string	required																															
	ep:presentation-variant	derived by: xs:string				documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej																												

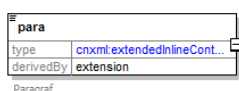
	ep:foldable xs:boolean ep:recipient ep:recipientType	np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa documentation Atrybut pozwalaający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. documentation Odbiorca treści
annotation	documentation Notka (EP Notka)	
source	<pre><xs:element name="note"> <xs:annotation> <xs:documentation>Notka (EP Notka)</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:paraContainerWithIdType"> <xs:attribute name="type" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="tip"/> <xs:enumeration value="important"/> <xs:enumeration value="warning"/> <xs:enumeration value="curiosity"/> <xs:enumeration value="remember"/> <xs:enumeration value="consider"/> <xs:enumeration value="see-also"/> <xs:enumeration value="good-to-know"/> <xs:enumeration value="for-interested"/> <xs:enumeration value="time-capsule"/> <xs:enumeration value="no-label"/> <!-- value="more"></xs:enumeration--> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute ref="ep:presentation-variant"/> <xs:attribute ref="ep:foldable"/> <xs:attribute ref="ep:recipient"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element></pre>	

attribute **note/@type**

type	restriction of xs:string		
properties	use	required	
facets	Kind	Value	Annotation
	enumeration	tip	
	enumeration	important	
	enumeration	warning	
	enumeration	curiosity	
	enumeration	remember	
	enumeration	consider	
	enumeration	see-also	
	enumeration	good-to-know	
	enumeration	for-interested	
	enumeration	time-capsule	
	enumeration	no-label	
source	<pre> <xs:attribute name="type" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="tip"/> <xs:enumeration value="important"/> <xs:enumeration value="warning"/> <xs:enumeration value="curiosity"/> <xs:enumeration value="remember"/> <xs:enumeration value="consider"/> <xs:enumeration value="see-also"/> <xs:enumeration value="good-to-know"/> <xs:enumeration value="for-interested"/> <xs:enumeration value="time-capsule"/> <xs:enumeration value="no-label"/> <!-- value="more"></xs:enumeration>--> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

element **para**

diagram



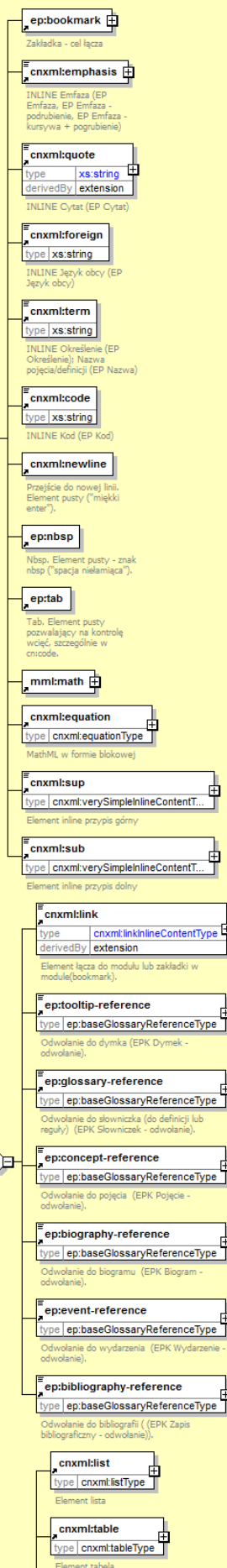
cnxml:extendedInlineContentType (extension)

cnxml:linkInlineContentGroup

Grupa bazowych elementów
dozwolonych wewnątrz łączki,
odwołań etc (to co w
simpleInlineContentGroup, ale bez
innych łączki).

cnxml:simpleInlineContentGroup

grupa bazowych elementów
dozwolonych w celi tabelki (to co w
paragrafie, ale bez referencji WOMI,
Galerii, tabel, czy list).



namespace	http://cnx.rice.edu/cnxml					
type	extension of cnxml:extendedInlineContentType					
properties	content complex					
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference cnxml:list cnxml:table ep:reference ep:gallery ep:fold-point					
used by	element complexTypes group	gmlSectionContainerType/section codeType paraContainerType problemType quoteType sectionElementGroup				
attributes	Name id ep:stretch	Type idType ep:stretchType	Use required	Default	Fixed	Annotation documentation Atrybut oznaczający powiększoną szerokość elementu
annotation	documentation Paragraf					
source	<pre> <xs:element name="para"> <xs:annotation> <xs:documentation>Paragraf</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:extendedInlineContentType"> <xs:attribute name="id" type="cnxml:idType" use="required"/> <xs:attribute ref="ep:stretch"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

attribute **para/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

element **problem**

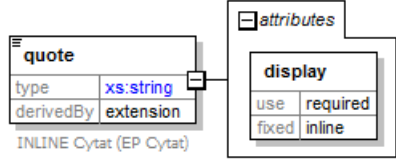
diagram						
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:problemType					
properties	content complex					
children	cnxml:para cnxml:quote					
used by	complexTypes commandType student-workType group simpleExerciseGroup					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Definicja problemu w ćwiczeniu, poleceniu, etc. (EP Ćwiczenie problem, EP Polecenie w EPK Polecenie)					
source	<pre> <xs:element name="problem" type="cnxml:problemType"> <xs:annotation> <xs:documentation>Definicja problemu w ćwiczeniu, poleceniu, etc. (EP Ćwiczenie problem, EP Polecenie w EPK Polecenie)</xs:documentation> </xs:annotation> </xs:element> </pre>					

element **proof**

diagram						

namespace	http://cnx.rice.edu/cnxml					
type	cnxml:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexType ruleType					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Dowód reguły (EP Reguła - dowód)					
source	<pre><xs:element name="proof" type="cnxml:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Dowód reguły (EP Reguła - dowód)</xs:documentation> </xs:annotation> </xs:element></pre>					

element **quote**

diagram						
namespace	http://cnx.rice.edu/cnxml					
type	extension of xs:string					
properties	content complex					
used by	groups linkInlineContentGroup verySimpleInlineContentGroup					
attributes	Name display	Type	Use required	Default	Fixed inline	Annotation
annotation	documentation INLINE Cytat (EP Cytat)					
source	<pre><xs:element name="quote"> <xs:annotation> <xs:documentation>INLINE Cytat (EP Cytat)</xs:documentation> </xs:annotation> <xs:complexType> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="display" use="required" fixed="inline"/> </xs:extension> </xs:simpleContent> <!-- <xs:complexContent> <xs:extension base="cnxml:inlineContentType"> <xs:complexContent>--> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element></pre>					

attribute **quote/@display**

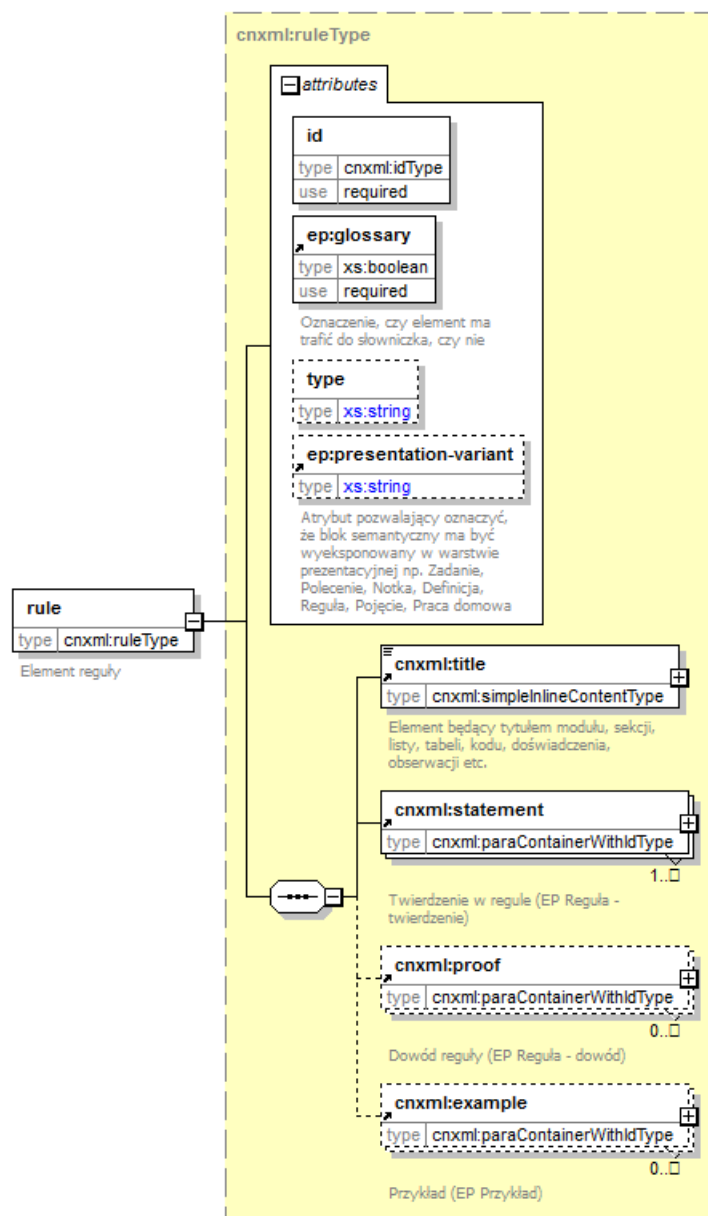
properties	use required fixed inline
source	<code><xs:attribute name="display" use="required" fixed="inline"/></code>

element **row**

diagram	The diagram illustrates the structure of the <code>row</code> element. It is a complex content type of type <code>cnxml:rowType</code>. It contains a sequence of <code>cnxml:entry</code> elements, which are of type <code>cnxml:entryType</code>. The <code>cnxml:entry</code> element has a <code>type</code> attribute of <code>cnxml:entryType</code> and a <code>derivedBy</code> attribute of <code>extension</code>. The <code>row</code> element has a cardinality of <code>1..∞</code>.
namespace	http://cnx.rice.edu/cnxml
type	cnxml:rowType
properties	content complex
children	cnxml:entry
used by	complexTypees tbodyType theadType
annotation	documentation Element wiersz tabeli
source	<pre> <xs:element name="row" type="cnxml:rowType"> <xs:annotation> <xs:documentation>Element wiersz tabeli</xs:documentation> </xs:annotation> </xs:element> </pre>

element rule

diagram



namespace <http://cnx.rice.edu/cnxml>

type [cnxml:ruleType](#)

properties content complex

children [cnxml:title](#) [cnxml:statement](#) [cnxml:proof](#) [cnxml:example](#)

used by group [sectionElementGroup](#)

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	ep:glossary	xs:boolean	required			documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie

	type ep:presentation-variant	derived by: xs:string derived by: xs:string	documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Element reguły		
source	<pre><xs:element name="rule" type="cnxml:ruleType"> <xs:annotation> <xs:documentation>Element reguły</xs:documentation> </xs:annotation> </xs:element></pre>		

element solution

diagram						
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	group simpleExerciseGroup					
attributes	Name <u>id</u>	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Rozwiązanie ćwiczenia (EP Ćwiczenie - rozwiązanie)					
source	<pre><xs:element name="solution" type="cnxml:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Rozwiązanie ćwiczenia (EP Ćwiczenie - rozwiązanie)</xs:documentation> </xs:annotation> </xs:element></pre>					

element statement

diagram						
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexType ruleType					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Twierdzenie w regule (EP Reguła - twierdzenie)					
source	<pre><xs:element name="statement" type="cnxml:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Twierdzenie w regule (EP Reguła - twierdzenie)</xs:documentation> </xs:annotation> </xs:element></pre>					

element sub

diagram						

namespace	http://cnx.rice.edu/cnxml
type	cnxml:verySimpleInlineContentType
properties	content complex mixed true
children	cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code
used by	complexType core-curriculum-abilityType group linkInlineContentGroup
annotation	documentation Element inline przypis dolny
source	<pre><xs:element name="sub" type="cnxml:verySimpleInlineContentType"> <xs:annotation> <xs:documentation>Element inline przypis dolny</xs:documentation> </xs:annotation> </xs:element></pre>

element sup

diagram	
namespace	http://cnx.rice.edu/cnxml
type	cnxml:verySimpleInlineContentType
properties	content complex mixed true
children	cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code
used by	complexType core-curriculum-abilityType group linkInlineContentGroup
annotation	documentation Element inline przypis górny
source	<pre><xs:element name="sup" type="cnxml:verySimpleInlineContentType"> <xs:annotation> <xs:documentation>Element inline przypis górny</xs:documentation> </xs:annotation> </xs:element></pre>

element table

diagram																																				
namespace	http://cnx.rice.edu/cnxml																																			
type	cnxml:tableType																																			
properties	content complex																																			
children	cnxml:title cnxml:tgroup																																			
used by	groups extendedInlineContentGroup sectionElementGroup																																			
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>id</td><td>idType</td><td>required</td><td></td><td></td><td></td></tr><tr><td>summary</td><td>xs:string</td><td>required</td><td></td><td></td><td></td></tr><tr><td>ep:style</td><td>derived by: xs:string</td><td>optional</td><td></td><td></td><td>documentation atribut styl dla cn:table</td></tr><tr><td>pgwide</td><td>derived by: xs:positiveInteger</td><td>optional</td><td></td><td></td><td>documentation Szerokość tabeli.</td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	id	idType	required				summary	xs:string	required				ep:style	derived by: xs:string	optional			documentation atribut styl dla cn:table	pgwide	derived by: xs:positiveInteger	optional			documentation Szerokość tabeli.					
Name	Type	Use	Default	Fixed	Annotation																															
id	idType	required																																		
summary	xs:string	required																																		
ep:style	derived by: xs:string	optional			documentation atribut styl dla cn:table																															
pgwide	derived by: xs:positiveInteger	optional			documentation Szerokość tabeli.																															
annotation	documentation Element tabela																																			
source	<pre><xs:element name="table" type="cnxml:tableType"> <xs:annotation> <xs:documentation>Element tabela</xs:documentation> </xs:annotation> </xs:element></pre>																																			

element **tbody**

diagram	
namespace	http://cnx.rice.edu/cnxml
type	cnxml:tbodyType
properties	content complex
children	cnxml:row
used by	complexType tgroupType
annotation	documentation Element ciało tabeli
source	<pre><xs:element name="tbody" type="cnxml:tbodyType"> <xs:annotation> <xs:documentation>Element ciało tabeli</xs:documentation> </xs:annotation> </xs:element></pre>

element **term**

diagram	
namespace	http://cnx.rice.edu/cnxml
type	xs:string
properties	content simple
used by	groups linkInlineContentGroup verySimpleInlineContentGroup
annotation	documentation INLINE Określenie (EP Określenie); Nazwa pojęcia/definicji (EP Nazwa)
source	<pre><xs:element name="term" type="xs:string"> <xs:annotation> <xs:documentation>INLINE Określenie (EP Określenie); Nazwa pojęcia/definicji (EP Nazwa)</xs:documentation> </xs:annotation> <!-- <xs:element name="term" type="cnxml:inlineContentType">--> </xs:element></pre>

element tgroup

diagram						
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:tgroupType					
properties	content complex					
children	cnxml:colspec cnxml:thead cnxml:tbody					
used by	complexType tableType					
attributes	Name cols	Type xs:positiveInteger	Use required	Default	Fixed	Annotation documentation Liczba kolumn w tabeli
annotation	documentation Element grupy w tabeli					
source	<pre><xs:element name="tgroup" type="cnxml:tgroupType"> <xs:annotation> <xs:documentation>Element grupy w tabeli</xs:documentation> </xs:annotation> </xs:element></pre>					

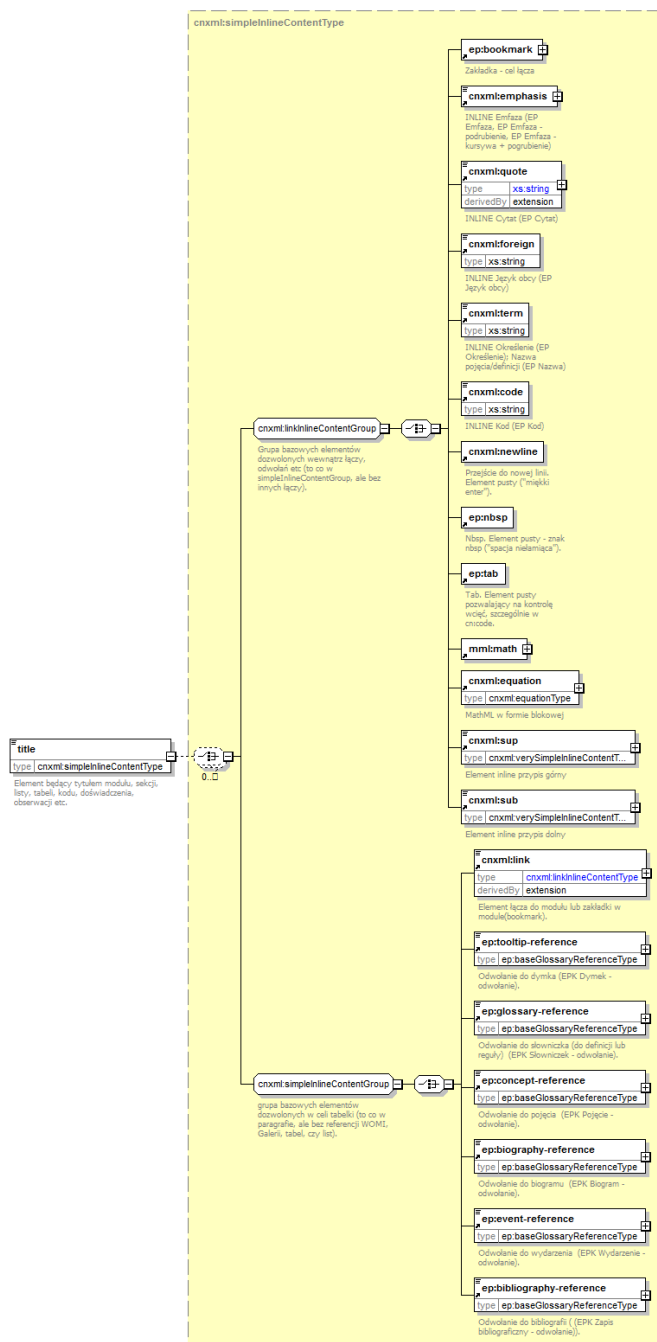
element thead

diagram						
namespace	http://cnx.rice.edu/cnxml					
type	cnxml:theadType					
properties	content complex					

children	cnxml:row
used by	complexType tgroupType
annotation	documentation Element nagłówek tabeli
source	<pre><xs:element name="thead" type="cnxml:theadType"> <xs:annotation> <xs:documentation>Element nagłówek tabeli</xs:documentation> </xs:annotation> </xs:element></pre>

element title

diagram



namespace <http://cnx.rice.edu/cnxml>

type [cnxml:simpleInlineContentType](#)

properties content complex
mixed true

children [ep:bookmark](#) [cnxml:emphasis](#) [cnxml:quote](#) [cnxml:foreign](#) [cnxml:term](#) [cnxml:code](#) [cnxml:newline](#) [ep:nbsp](#) [ep:tab](#) [m:math](#) [cnxml:equation](#) [cnxml:sup](#) [cnxml:sub](#) [cnxml:link](#) [ep:tooltip-reference](#) [ep:glossary-reference](#) [ep:concept-reference](#) [ep:biography-reference](#) [ep:event-reference](#) [ep:bibliography-reference](#)

used by complexTypes [codeType](#) [experimentType](#) [firstLevelSectionType](#) [fourthLevelSectionType](#) [galleryType](#) [listType](#) [observationType](#) [procedure-instructionsType](#) [ruleType](#) [secondLevelSectionType](#) [tableType](#) [thirdLevelSectionType](#) [tooltipType](#)

annotation	documentation Element będący tytułem modułu, sekcji, listy, tabeli, kodu, doświadczenia, obserwacji etc.
source	<pre><xs:element name="title" type="cnxml:simpleInlineContentType"> <xs:annotation> <xs:documentation>Element będący tytułem modułu, sekcji, listy, tabeli, kodu, doświadczenia, obserwacji etc.</xs:documentation> </xs:annotation> </xs:element></pre>

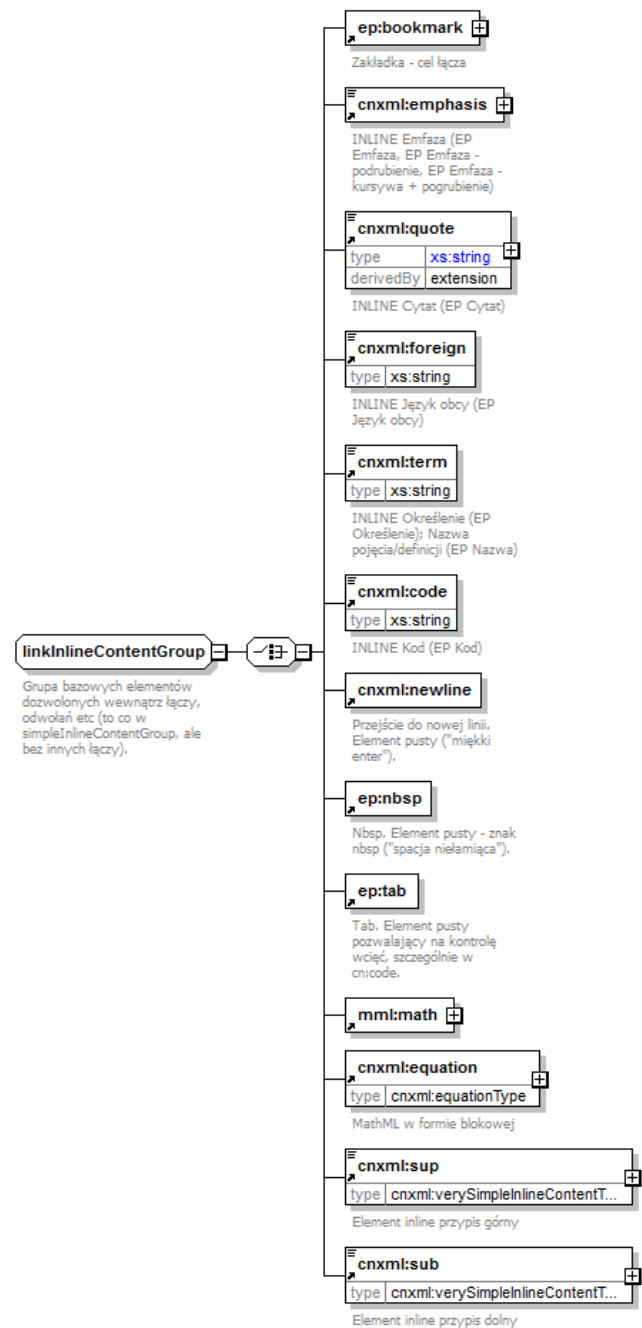
group **extendedInlineContentGroup**

diagram	extendedInlineContentGroup grupa elementów mogących wejść w skład zawartości rozszerzonej np. paragrafu cnxml:list type: cnxml:listType Element lista cnxml:table type: cnxml:tableType Element tabela ep:reference type: ep:referenceType Referencja do WOMI ep:gallery type: ep:galleryType Galeria WOMI. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerie: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista wideo. Atrybuty galerii slideshow (A): id [R], start-on, thumbnails, titles, format-content. Atrybuty galerii grid (B): id [R], view-width [R], view-height [R]. Atrybuty galerii miniatures (C): id [R], miniatures-only [R]=true, thumbnails, titles, format-content. Atrybuty galerii playlist (D): id [R], start-on, thumbnails, titles, format-content, playlist [R]. ep:fold-point Miejsce zawijania się. Uwaga: do stosowania tylko i wyłącznie w połączeniu z ep:foldable=true
namespace	http://cnx.rice.edu/cnxml
children	cnxml:list cnxml:table ep:reference ep:gallery ep:fold-point
used by	complexType extendedInlineContentType
annotation	documentation grupa elementów mogących wejść w skład zawartości rozszerzonej np. paragrafu
source	<pre><xs:group name="extendedInlineContentGroup"> <xs:annotation> <xs:documentation>grupa elementów mogących wejść w skład zawartości rozszerzonej np. paragrafu</xs:documentation> </xs:annotation> <xs:choice> <xs:element ref="cnxml:list"/> </pre>

```
<xs:element ref="cnxml:table"/>
<xs:element ref="ep:reference"/>
<xs:element ref="ep:gallery"/>
<xs:element ref="ep:fold-point"/>
</xs:choice>
</xs:group>
```

group linkInlineContentGroup

diagram



namespace <http://cnx.rice.edu/cnxml>

children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub
used by	complexType extendedInlineContentType linkInlineContentType simpleInlineContentType
annotation	documentation Grupa bazowych elementów dozwolonych wewnątrz łączy, odwołań etc (to co w simpleInlineContentGroup, ale bez innych łączy).
source	<pre> <xs:group name="linkInlineContentGroup"> <xs:annotation> <xs:documentation>Grupa bazowych elementów dozwolonych wewnątrz łączy, odwołań etc (to co w simpleInlineContentGroup, ale bez innych łączy).</xs:documentation> </xs:annotation> <xs:choice> <xs:element ref="ep:bookmark"/> <xs:element ref="cnxml:emphasis"/> <xs:element ref="cnxml:quote"/> <xs:element ref="cnxml:foreign"/> <xs:element ref="cnxml:term"/> <xs:element ref="cnxml:code"/> <xs:element ref="cnxml:newline"/> <xs:element ref="ep:nbsp"/> <xs:element ref="ep:tab"/> <xs:element ref="mml:math"/> <xs:element ref="cnxml:equation"/> <xs:element ref="cnxml:sup"/> <xs:element ref="cnxml:sub"/> </xs:choice> </xs:group> </pre>

group sectionElementGroup

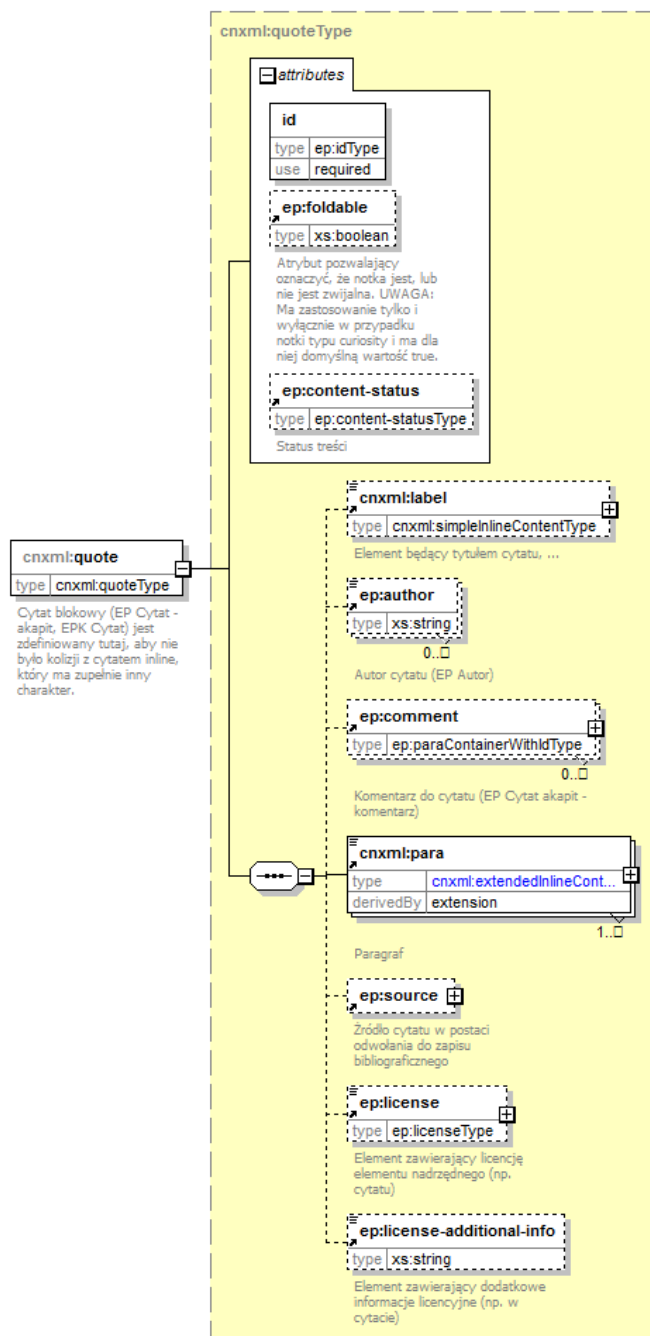
diagram	epbookmark Załącznik - cel lekcji cnxml:para Type: cnxml:extendedInlineText DerivedBy: extension Paragraph cnxml:note Type: cnxml:paraContainerVhtml DerivedBy: extension Nota (EP Note) cnxml:example Type: cnxml:paraContainerVhtmlType Przykład (EP Example) cnxml:exercise Type: cnxml:exerciseType Element ćwiczenia cnxml:definition Type: cnxml:definitionType DerivedBy: extension Element definicji cnxml:rule Type: cnxml:ruleType Element reguły ep:lead Type: ep:paraContainerVhtmlType Blok lead (EP lead) ep:intro Type: ep:paraContainerVhtmlType Blok intro (EP intro) ep:effect Type: ep:effectType Blok effect (EP Nauczyciel) ep:prerequisite Type: ep:paraContainerVhtmlType Blok prerequisite (EP Przynajmniej jedno) ep:revisal Type: ep:paraContainerVhtmlType Blok revisal (EP Przynajmniej jedno) ep:command Type: ep:commandType DerivedBy: extension Blok command (EP Polecanie) ep:student-work Type: ep:student-workType Element zadania dla ucznia ep:concept Type: ep:concept-definitionType Pojęcie (EPK Pojęcie) ep:tooltip Type: ep:tooltipType Element dyktando (EP Dyktando) ep:procedure-instructions Type: ep:procedure-instructionsType Element instrukcji przygotowania (EP Instrukcja przygotowania) ep:biography Type: ep:biographyType Element biogram (EPK Biogram) ep:event Type: ep:eventType Element wydarzenia (EPK Wydarzenie) ep:experiment Type: ep:experimentType Element doświadczenia ep:observation Type: ep:observationType Element obserwacji ep:technical-remarks Type: ep:paraContainerVhtmlType Blok komentarza technicznego (EP Komentarz techniczny) cnxml:quote Type: cnxml:quoteType Cytat blokowy (EP Cytat blokowy, EPK Cytat blokowy) - używany tutaj, aby nie było kolizji z cytatami inline, który ma zupełnie inny charakter cnxml:code Type: cnxml:codeType Kod blokowy (EP Kod blokowy) - używany tutaj, aby nie było kolizji z kodem inline, który ma zupełnie inny charakter cnxml:list Type: cnxml:listType Element lista cnxml:table Type: cnxml:tableType Element tabela sectionElementGroup Dozwolone zawartości sekcji: Uwaga: Elementy dla cytatu blokowego oraz kodu blokowego są zdefiniowane wewnątrz grupy (inaczej byłaby kolizja z odpowiednikami inline). Uwaga: element ep:bookmark występuje tutaj na skutek zastosowania zakładki na tytule sekcji w MS Word.
namespace	http://cnx.rice.edu/cnxml
children	ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table
used by	complexTypees firstLevelSectionType fourthLevelSectionType secondLevelSectionType thirdLevelSectionType
annotation	documentation Dozwolona zawartość sekcji. UWAGA: Elementy dla cytatu blokowego oraz kodu blokowego są zdefiniowane wewnątrz grupy (inaczej byłaby kolizja z odpowiednikami inline). UWAGA: element ep:bookmark występuje tutaj na skutek zastosowania zakładki na tytule sekcji w MS Word.

source

```
<xs:group name="sectionElementGroup">
  <xs:annotation>
    <xs:documentation>Dozwolona zawartość sekcji. UWAGA: Elementy dla cytatu blokowego oraz
    kodu blokowego są zdefiniowane wewnątrz grupy (inaczej byłaby kolizja z odpowiednikami inline).
    UWAGA: element ep:bookmark występuje tutaj na skutek zastosowania zakładki na tytule sekcji w
    MS Word.</xs:documentation>
  </xs:annotation>
  <xs:choice>
    <xs:element ref="ep:bookmark"/>
    <xs:element ref="cnxml:para"/>
    <xs:element ref="cnxml:note"/>
    <xs:element ref="cnxml:example"/>
    <xs:element ref="cnxml:exercise"/>
    <xs:element ref="cnxml:definition"/>
    <xs:element ref="cnxml:rule"/>
    <xs:element ref="ep:lead"/>
    <xs:element ref="ep:intro"/>
    <xs:element ref="ep:effect"/>
    <xs:element ref="ep:prerequisite"/>
    <xs:element ref="ep:revisal"/>
    <xs:element ref="ep:command"/>
    <xs:element ref="ep:student-work"/>
    <xs:element ref="ep:concept"/>
    <xs:element ref="ep:tooltip"/>
    <xs:element ref="ep:procedure-instructions"/>
    <xs:element ref="ep:biography"/>
    <xs:element ref="ep:event"/>
    <xs:element ref="ep:experiment"/>
    <xs:element ref="ep:observation"/>
    <xs:element ref="ep:technical-remarks"/>
    <xs:element name="quote" type="cnxml:quoteType">
      <xs:annotation>
        <xs:documentation>Cytat blokowy (EP Cytat - akapit, EPK Cytat) jest zdefiniowany tutaj, aby
        nie było kolizji z cytatem inline, który ma zupełnie inny charakter.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element name="code" type="cnxml:codeType">
      <xs:annotation>
        <xs:documentation>Kod blokowy jest zdefiniowany tutaj, aby nie było kolizji z kodem inline,
        który ma zupełnie inny charakter.</xs:documentation>
      </xs:annotation>
    </xs:element>
    <xs:element ref="cnxml:list"/>
    <xs:element ref="cnxml:table"/>
  </xs:choice>
</xs:group>
```

element **sectionElementGroup/quote**

diagram



namespace	http://cnx.rice.edu/cnxml					
type	cnxml:quoteType					
properties	content complex					
children	cnxml:label ep:author ep:comment cnxml:para ep:source ep:license ep:license-additional-info					
used by	groups linkInlineContentGroup verySimpleInlineContentGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	ep:foldable	xs:boolean				documentation

		Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. documentation Status treści
annotation	documentation	Cytat blokowy (EP Cytat - akapit, EPK Cytat) jest zdefiniowany tutaj, aby nie było kolizji z cytatem inline, który ma zupełnie inny charakter.
source	<pre><xs:element name="quote" type="cnxml:quoteType"> <xs:annotation> <xs:documentation>Cytat blokowy (EP Cytat - akapit, EPK Cytat) jest zdefiniowany tutaj, aby nie było kolizji z cytatem inline, który ma zupełnie inny charakter.</xs:documentation> </xs:annotation> </xs:element></pre>	

element **section**ElementGroup/code

diagram	The diagram illustrates the structure of the cnxml:codeType. It features a central box for cnxml:codeType with the following details: Attributes: id: type <code>ep:idType</code>, use <code>required</code>. display: use <code>required</code>, fixed <code>block</code>. lang: type <code>xs:string</code>. Child Elements: cnxml:title: type <code>cnxml:simpleInlineContentType</code>. Description: "Element będący tytułem modułu, sekcji, listy, tabeli, kodu, doświadczenia, obserwacji etc." cnxml:para: type <code>cnxml:extendedInlineCont...</code>, derivedBy <code>extension</code>. Description: "Paragraf" External references: cnxml:code: type <code>cnxml:codeType</code>. Description: "Kod blokowy jest zdefiniowany tutaj, aby nie było kolizji z kodem inline, który ma zupełnie inny charakter."	
namespace	http://cnx.rice.edu/cnxml	
type	cnxml:codeType	
properties	content complex	

children	cnxml:title cnxml:para					
used by	groups linkInlineContentGroup verySimpleInlineContentGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	display		required		block	
	lang	derived by: xs:string				
annotation	documentation Kod blokowy jest zdefiniowany tutaj, aby nie było kolizji z kodem inline, który ma zupełnie inny charakter.					
source	<pre><xs:element name="code" type="cnxml:codeType"> <xs:annotation> <xs:documentation>Kod blokowy jest zdefiniowany tutaj, aby nie było kolizji z kodem inline, który ma zupełnie inny charakter.</xs:documentation> </xs:annotation> </xs:element></pre>					

group **simpleInlineContentGroup**

diagram						
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference					
used by	complexTypes extendedInlineContentType simpleInlineContentType					

annotation	documentation grupa bazowych elementów dozwolonych w celi tabelki (to co w paragrafie, ale bez referencji WOMI, Galerii, tabel, czy list).
source	<pre> <xs:group name="simpleInlineContentGroup"> <xs:annotation> <xs:documentation>grupa bazowych elementów dozwolonych w celi tabelki (to co w paragrafie, ale bez referencji WOMI, Galerii, tabel, czy list).</xs:documentation> </xs:annotation> <xs:choice> <xs:element ref="cnxml:link"/> <xs:element ref="ep:tooltip-reference"/> <xs:element ref="ep:glossary-reference"/> <xs:element ref="ep:concept-reference"/> <xs:element ref="ep:biography-reference"/> <xs:element ref="ep:event-reference"/> <xs:element ref="ep:bibliography-reference"/> </xs:choice> </xs:group> </pre>

group **verySimpleInlineContentGroup**

diagram	The diagram shows the structure of the verySimpleInlineContentGroup element. It is a complex type that contains a choice of five elements: cnxml:emphasis: INLINE Emfaza (EP Emfaza, EP Emfaza - podrubienie, EP Emfaza - kursywa + pogrubienie) cnxml:quote: type xs:string, derivedBy extension, INLINE Cytat (EP Cytat) cnxml:foreign: type xs:string, INLINE Język obcy (EP Język obcy) cnxml:term: type xs:string, INLINE Określenie (EP Określenie); Nazwa pojęcia/definicji (EP Nazwa) cnxml:code: type xs:string, INLINE Kod (EP Kod) The verySimpleInlineContentGroup element is described as: Grupa bazowych elementów dozwolonych wewnątrz elementów inline typu sub i sup.
namespace	http://cnx.rice.edu/cnxml
children	cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code
used by	complexType verySimpleInlineContentType
annotation	documentation Grupa bazowych elementów dozwolonych wewnątrz elementów inline typu sub i sup.
source	<pre> <xs:group name="verySimpleInlineContentGroup"> <xs:annotation> <xs:documentation>Grupa bazowych elementów dozwolonych wewnątrz elementów inline typu sub i sup.</xs:documentation> </xs:annotation> <xs:choice> </pre>

	<pre> <xs:element ref="cnxml:emphasis"/> <xs:element ref="cnxml:quote"/> <xs:element ref="cnxml:foreign"/> <xs:element ref="cnxml:term"/> <xs:element ref="cnxml:code"/> </xs:choice> </xs:group> </pre>

complexType codeType

diagram						
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:title cnxml:para					
used by	element sectionElementGroup/code					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	display		required		block	
	lang	derived by: xs:string				
annotation	documentation Typ kod blokowy (EPK Kod)					
source	<pre><xs:complexType name="codeType"> <xs:annotation> <xs:documentation>Typ kod blokowy (EPK Kod)</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:title" minOccurs="0"/> <xs:element ref="cnxml:para"/> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="display" use="required" fixed="block"/> <xs:attribute name="lang"> <xs:simpleType> <xs:restriction base="xs:string"></pre>					

	<pre> <xs:enumeration value="C"/> <xs:enumeration value="Java"/> <xs:enumeration value="Objective -C"/> <xs:enumeration value="C++"/> <xs:enumeration value="PHP"/> <xs:enumeration value="C#"/> <xs:enumeration value="(Visual) Basic"/> <xs:enumeration value="Python"/> <xs:enumeration value="Transact -SQL"/> <xs:enumeration value="JavaScript"/> <xs:enumeration value="Visual Basic .NET"/> <xs:enumeration value="Perl"/> <xs:enumeration value="Ruby"/> <xs:enumeration value="Pascal"/> <xs:enumeration value="PL/SQL"/> <xs:enumeration value="Lisp"/> <xs:enumeration value="Delphi/Object Pascal"/> <xs:enumeration value="Groovy"/> <xs:enumeration value="MATLAB"/> <xs:enumeration value="COBOL"/> </xs:restriction> <!-- W chwili obecnej zamknięta lista - do rozszerzenia, lub wyłączenia, jeżeli będzie taka potrzeba --> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>

attribute **codeType/@id**

type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **codeType/@display**

properties	use	required
	fixed	block
source	<xs:attribute name="display" use="required" fixed="block"/>	

attribute **codeType/@lang**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	C	
	enumeration	Java	

	enumeration Objective -C enumeration C++ enumeration PHP enumeration C# enumeration (Visual) Basic enumeration Python enumeration Transact -SQL enumeration JavaScript enumeration Visual Basic .NET enumeration Perl enumeration Ruby enumeration Pascal enumeration PL/SQL enumeration Lisp enumeration Delphi/Object Pascal enumeration Groovy enumeration MATLAB enumeration COBOL
source	<pre> <xs:attribute name="lang"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="C"/> <xs:enumeration value="Java"/> <xs:enumeration value="Objective -C"/> <xs:enumeration value="C++"/> <xs:enumeration value="PHP"/> <xs:enumeration value="C#"/> <xs:enumeration value="(Visual) Basic"/> <xs:enumeration value="Python"/> <xs:enumeration value="Transact -SQL"/> <xs:enumeration value="JavaScript"/> <xs:enumeration value="Visual Basic .NET"/> <xs:enumeration value="Perl"/> <xs:enumeration value="Ruby"/> <xs:enumeration value="Pascal"/> <xs:enumeration value="PL/SQL"/> <xs:enumeration value="Lisp"/> <xs:enumeration value="Delphi/Object Pascal"/> <xs:enumeration value="Groovy"/> <xs:enumeration value="MATLAB"/> <xs:enumeration value="COBOL"/> </xs:restriction> <!-- W chwili obecnej zamknięta lista - do rozszerzenia, lub wyłączenia, jeżeli będzie taka potrzeba --> </xs:simpleType> </xs:attribute> </pre>

complexType colspecType

diagram						
namespace	http://cnx.rice.edu/cnxml					
used by	element colspec					
attributes	Name colnum colname colwidth	Type xs:positiveInteger derived by: xs:string derived by: xs:positiveInteger	Use optional required optional	Default 	Fixed 	Annotation documentation Numer kolumny. documentation Nazwa kolumny tabeli - wykorzystywana do scalania w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny. documentation Szerokość kolumny.
annotation	documentation Typ specyfikacja kolumny tabeli					
source	<pre> <xs:complexType name="colspecType"> <xs:annotation> <xs:documentation>Typ specyfikacja kolumny tabeli</xs:documentation> </xs:annotation> <xs:attribute name="colnum" type="xs:positiveInteger" use="optional"> <xs:annotation> <xs:documentation>Numer kolumny.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="colname" use="required"> <xs:annotation> <xs:documentation>Nazwa kolumny tabeli - wykorzystywana do scalania w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>					

	<pre> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="c[1-9][0-9]*/> <xs:pattern value="col[A-Z]"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="colwidth" use="optional"> <xs:annotation> <xs:documentation>Szerokość kolumny.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="99"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>

attribute **colspecType/@colnum**

type	xs:positiveInteger
properties	use optional
annotation	documentation Numer kolumny.
source	<pre> <xs:attribute name="colnum" type="xs:positiveInteger" use="optional"> <xs:annotation> <xs:documentation>Numer kolumny.</xs:documentation> </xs:annotation> </xs:attribute> </pre>

attribute **colspecType/@colname**

type	restriction of xs:string									
properties	use required									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>pattern</td><td>c[1-9][0-9]*</td><td></td></tr><tr><td>pattern</td><td>col[A-Z]</td><td></td></tr></table>	Kind	Value	Annotation	pattern	c[1-9][0-9]*		pattern	col[A-Z]	
Kind	Value	Annotation								
pattern	c[1-9][0-9]*									
pattern	col[A-Z]									
annotation	documentation Nazwa kolumny tabeli - wykorzystywana do scalania w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.									
source	<pre><xs:attribute name="colname" use="required"> <xs:annotation> <xs:documentation>Nazwa kolumny tabeli - wykorzystywana do scalania w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="c[1-9][0-9]*/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>									

	<pre> <xs:pattern value="col[A-Z]"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **colspecType/@colwidth**

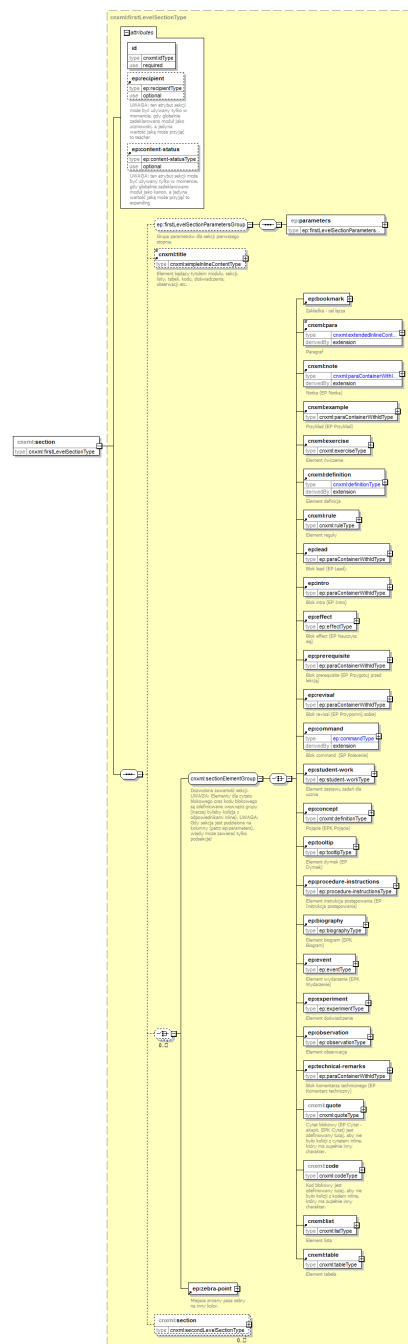
type	restriction of xs:positiveInteger									
properties	use optional									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minInclusive</td><td>1</td><td></td></tr><tr><td>maxInclusive</td><td>99</td><td></td></tr></table>	Kind	Value	Annotation	minInclusive	1		maxInclusive	99	
Kind	Value	Annotation								
minInclusive	1									
maxInclusive	99									
annotation	documentation Szerokość kolumny.									
source	<pre><xs:attribute name="colwidth" use="optional"> <xs:annotation> <xs:documentation>Szerokość kolumny.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="99"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>									

complexType **contentType**

diagram	
namespace	http://cnx.rice.edu/cnxml
children	cnxml:section ep:zebra-point
used by	element content
annotation	documentation Typ treści modułu
source	<pre> <xs:complexType name="contentType"> <xs:annotation> <xs:documentation>Typ treści modułu</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element name="section" type="cnxml:firstLevelSectionType"/> <xs:element ref="ep:zebra-point"/> </xs:choice> </xs:complexType> </pre>

element content/section

diagram



namespace	http://cnx.rice.edu/cnxml					
type	cnxml:firstLevelSectionType					
properties	content complex					
children	ep:parameters cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table ep:zebra-point cnxml:section					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation

	ep:recipient ep:recipientType optional	documentation UWAGA: ten atrybut sekcji może być używany tylko w momencie, gdy globalnie zadeklarowano moduł jako uczniowski, a jedyna wartość jaką może przyjąć to teacher
	ep:content-status ep:content-statusType optional	documentation UWAGA: ten atrybut sekcji może być używany tylko w momencie, gdy globalnie zadeklarowano moduł jako kanon, a jedyna wartość jaką może przyjąć to expanding
source	<xs:element name="section" type="cnxml:firstLevelSectionType"/>	

complexType definitionType

diagram	definitionType Typ definicja attributes id type: cnxml:idType use: required ep:glossary type: xs:boolean use: required Oznaczenie, czy element ma trafić do słownika, czy nie ep:presentation-variant type: xs:string Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa cnxml:term type: cnxml:simpleInlineContentType cnxml:meaning type: cnxml:paraContainerWithIdType Znaczenie definicji cnxml:example type: cnxml:paraContainerWithIdType Przykład (EP Przykład) ep:source Zródło cytatu w postaci odwołania do zapisu bibliograficznego					
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:term cnxml:meaning cnxml:example ep:source					
used by	elements concept definition					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	ep:glossary	xs:boolean	required			documentation Oznaczenie, czy element ma trafić do słownika, czy nie
	ep:presentation-variant	derived by: xs:string				documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa

annotation	documentation Typ definicja
source	<pre> <xs:complexType name="definitionType"> <xs:annotation> <xs:documentation>Typ definicja</xs:documentation> </xs:annotation> <xs:sequence> <!--<xs:element name="term" type="cnxml:titleType"/>--> <xs:element name="term" type="cnxml:simpleInlineContentType"/> <xs:sequence maxOccurs="unbounded"> <xs:element ref="cnxml:meaning"/> <xs:element ref="cnxml:example" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="ep:source" minOccurs="0"/> </xs:sequence> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> <xs:attribute ref="ep:glossary" use="required"/> <xs:attribute ref="ep:presentation-variant"/> </xs:complexType> </pre>

attribute **definitionType/@id**

type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_ a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

element definitionType/term

diagram	cnxml:simpleInlineContentType ep:bookmark Zakładka - cell łącząca cnxml:emphasis INLINE Enfaza (EP Enfaza, EP Enfaza - podkreślenie, EP Enfaza - kursywa + pogrubienie) cnxml:quote Type: xs:string, derivedBy: extension, INLINE Cytat (EP Cytat) cnxml:foreign type: xs:string, INLINE Język obcy (EP Język obcy) cnxml:term type: xs:string, INLINE Określenie (EP Określenie), Nazwa pojęcia/definicji (EP Nazwa) cnxml:code type: xs:string, INLINE Kod (EP Kod) cnxml:linkInlineContentGroup Grupa bazowych elementów dozwolonych wewnątrz łącz, odwołań etc (to co w simpleInlineContentGroup, ale bez innych łącz) cnxml:newline Przeszło do nowej linii. Element pusty ("miękkie enter") ep:nbsp Nbsp. Element pusty - znak nbsp ("spacja nielamiąca") ep:tab Tab. Element pusty przysługuje na kontrolę wcięć, szczególnie w cncode. mml:math MathML w formie blokowej cnxml:equation type: cnxml:equationType, MathML w formie blokowej cnxml:sup type: cnxml:verySimpleInlineContentT, Element inline przypis górny cnxml:sub type: cnxml:verySimpleInlineContentT, Element inline przypis dolny cnxml:link type: cnxml:linkInlineContentType, derivedBy: extension, Element łączą do modułu lub zakładki w module(bookmark). ep:tooltip-reference type: ep:baseGlossaryReferenceType, Odwołanie do dyktka (EPK Dymek - odwołanie). ep:glossary-reference type: ep:baseGlossaryReferenceType, Odwołanie do słownika (do definicji lub reguły) (EPK Słowniczek - odwołanie). ep:concept-reference type: ep:baseGlossaryReferenceType, Odwołanie do pojęcia (EPK Pojęcie - odwołanie). ep:biography-reference type: ep:baseGlossaryReferenceType, Odwołanie do biogramu (EPK Biogram - odwołanie). ep:event-reference type: ep:baseGlossaryReferenceType, Odwołanie do wydarzenia (EPK Wydarzenie - odwołanie). ep:bibliography-reference type: ep:baseGlossaryReferenceType, Odwołanie do bibliografii (EPK Zapis bibliograficzny - odwołanie).
namespace	http://cnx.rice.edu/cnxml
type	cnxml:simpleInlineContentType
properties	content mixed true
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference
used by	groups linkInlineContentGroup verySimpleInlineContentGroup

source	<xs:element name="term" type="cnxml:simpleInlineContentType"/>

complexType **documentType**

diagram						
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:title cnxml:metadata cnxml:content bib:file					
used by	element	document				
attributes	Name	Type	Use	Default	Fixed	Annotation
	module-id	idType	required			
	id	idType	required			
	cnxml-version	xs:string	required		0.7	
annotation	documentation Typ elementu głównego modułu					
source	<pre><xs:complexType name="documentType"> <xs:annotation> <xs:documentation>Typ elementu głównego modułu</xs:documentation> </xs:annotation> <xs:sequence> <!--<xs:element ref="cnxml:title"/>--> <xs:element name="title" type="cnxml:titleType"/> <xs:element ref="cnxml:metadata"/> <xs:element ref="cnxml:content"/> <xs:element ref="bib:file" minOccurs="0"/> </xs:sequence> </xs:complexType></pre>					

	<pre> </xs:sequence> <xs:attribute name="module-id" type="cnxml:idType" use="required"/> <xs:attribute name="id" type="cnxml:idType" use="required"/> <xs:attribute name="cnxml-version" type="xs:string" use="required" fixed="0.7"/> </xs:complexType> </pre>

attribute **documentType/@module-id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9)+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="module-id" type="cnxml:idType" use="required"/>		

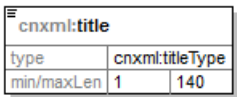
attribute **documentType/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9)+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

attribute **documentType/@cnxml-version**

type	xs:string		
properties	use	required	
	fixed	0.7	
source	<xs:attribute name="cnxml-version" type="xs:string" use="required" fixed="0.7"/>		

element **documentType/title**

diagram			
namespace	http://cnx.rice.edu/cnxml		
type	titleType		
properties	content simple		
used by	complexTypes	codeType experimentType firstLevelSectionType fourthLevelSectionType galleryType listType observationType procedure-instructionsType ruleType secondLevelSectionType tableType thirdLevelSectionType tooltipType	

facets	Kind	Value	Annotation
	minLength	1	
	maxLength	140	
source	<xs:element name="title" type="cnxml:titleType"/>		

complexType entryType

diagram	entryType Type kompletná tabulka
namespace	http://cnx.rice.edu/cnxml
type	extension of cnxml:simpleInlineContentType

properties	base cnxml:simpleInlineContentType					
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference					
used by	element entry					
attributes	Name namest	Type derived by: xs:string	Use	Default	Fixed	Annotation documentation Nazwa kolumny (table/tgroup/colspec/@colname) , w której zaczyna się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny. documentation Nazwa kolumny (table/tgroup/colspec/@colname) , w której kończy się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny. documentation Liczba komórek tabeli do scalania w pionie (w dół).
	nameend	derived by: xs:string				
	moreroes	xs:positiveInteger				
annotation	documentation Typ komórka tabeli					
source	<pre> <xs:complexType name="entryType"> <xs:annotation> <xs:documentation>Typ komórka tabeli</xs:documentation> </xs:annotation> <xs:complexContent> <xs:extension base="cnxml:simpleInlineContentType"> <xs:attribute name="namest"> <xs:annotation> <xs:documentation>Nazwa kolumny (table/tgroup/colspec/@colname) , w której zaczyna się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="c[1-9][0-9]*"/> <xs:pattern value="col[A-Z]"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="nameend"> <xs:annotation> <xs:documentation>Nazwa kolumny (table/tgroup/colspec/@colname) , w której kończy się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.</xs:documentation> </xs:annotation> </pre>					

	<pre> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="c[1-9][0-9]*/> <xs:pattern value="col[A-Z]"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="morerows" type="xs:positiveInteger"> <xs:annotation> <xs:documentation>Liczba komórek tabeli do scalenia w pionie (w dół).</xs:documentation> </xs:annotation> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </pre>

attribute **entryType/@namest**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	pattern	c[1-9][0-9]*	
	pattern	col[A-Z]	
annotation	documentation Nazwa kolumny (table/tgroup/colspec/@colname) , w której zaczyna się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.		
source	<pre><xs:attribute name="namest"> <xs:annotation> <xs:documentation>Nazwa kolumny (table/tgroup/colspec/@colname) , w której zaczyna się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="c[1-9][0-9]*/> <xs:pattern value="col[A-Z]"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **entryType/@nameend**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	pattern	c[1-9][0-9]*	
	pattern	col[A-Z]	
annotation	documentation Nazwa kolumny (table/tgroup/colspec/@colname) , w której kończy się komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny.		
source	<xs:attribute name="nameend"> <xs:annotation> <xs:documentation>Nazwa kolumny (table/tgroup/colspec/@colname) , w której kończy się		

	komórka. Wykorzystywane razem z nameend w momencie, gdy potrzebne jest scalanie w poziomie. UWAGA: w konwerterze przyjęto schemat nazewnictwa c{n}, gdzie n jest tożsame z numerem kolumny. <pre> </xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="c[1-9][0-9]*"/> <xs:pattern value="col[A-Z]"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **entryType/@morerows**

type	xs:positiveInteger
annotation	documentation Liczba komórek tabeli do scalenia w pionie (w dół).
source	<pre> <xs:attribute name="morerows" type="xs:positiveInteger"> </xs:annotation> <xs:documentation>Liczba komórek tabeli do scalenia w pionie (w dół).</xs:documentation> </xs:annotation> </xs:attribute> </pre>

complexType **equationType**

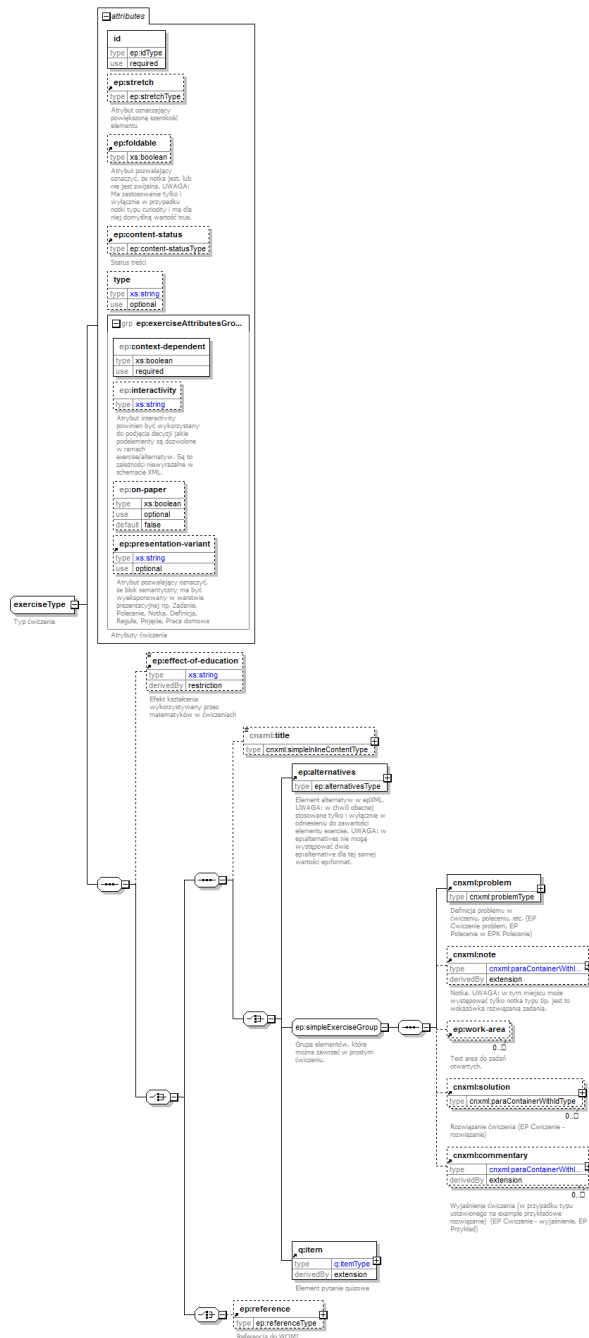
diagram													
namespace	http://cnx.rice.edu/cnxml												
children	m:math												
used by	element equation												
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>id</td><td>idType</td><td>required</td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	id	idType	required			
Name	Type	Use	Default	Fixed	Annotation								
id	idType	required											
annotation	documentation MathML w formie blokowej												
source	<pre><xs:complexType name="equationType"> <xs:annotation> <xs:documentation>MathML w formie blokowej</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="mml:math"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:complexType></pre>												

attribute **equationType/@id**

type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

complexType exerciseType

diagram



namespace <http://cnx.rice.edu/cnxxml>

children [ep:effect-of-education](#) [cnxml:title](#) [ep:alternatives](#) [cnxml:problem](#) [cnxml:note](#) [ep:work-area](#) [cnxml:solution](#) [cnxml:commentary](#) [g:item](#) [ep:reference](#)

used by element [exercise](#)

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	ep:stretch	ep:stretchType				documentation Atrybut oznaczający powiększoną

	ep:foldable xs:boolean ep:content-status type ep:content-statusType derived by: optional xs:string ep:context-dependent xs:boolean required ep:interactivity derived by: xs:string ep:on-paper xs:boolean optional false ep:presentation-variant derived by: optional xs:string	szerokość elementu documentation Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. documentation Status treści documentation Atrybut interactivity powinien być wykorzystany do podjęcia decyzji jakie podelementy są dozwolone w ramach exercise/alternatyw. Są to zależności niewyrażalne w schemacie XML. documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Typ ćwiczenie	
source	<pre> <xs:complexType name="exerciseType"> <xs:annotation> <xs:documentation>Typ ćwiczenie</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:effect-of-education" minOccurs="0"/> <xs:choice> <xs:sequence> <!--<xs:element name="title" type="cnxml:titleType2" minOccurs="0"/>--> <xs:element name="title" type="cnxml:simpleInlineContentType" minOccurs="0"/> </xs:sequence> <xs:choice> <xs:element ref="ep:alternatives"/> <xs:group ref="ep:simpleExerciseGroup"/> <xs:element ref="q:item"/> </xs:choice> </xs:choice> </xs:sequence> </pre>	

	<pre> <xs:choice> <xs:element ref="ep:reference" minOccurs="0" maxOccurs="1"/> </xs:choice> </xs:choice> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute ref="ep:stretch"/> <xs:attribute ref="ep:foldable"/> <xs:attribute ref="ep:content-status"/> <xs:attribute name="type" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="WOMI"/> <xs:enumeration value="common"/> <xs:enumeration value="pair-work"/> <xs:enumeration value="groupwork"/> <xs:enumeration value="game"/> <xs:enumeration value="witch"/> <xs:enumeration value="gremlin"/> <xs:enumeration value="reading"/> <xs:enumeration value="challenge"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attributeGroup ref="ep:exerciseAttributesGroup"/> </xs:complexType> </pre>

attribute **exerciseType/@id**

type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **exerciseType/@type**

type	restriction of xs:string		
properties	use	optional	
facets	Kind	Value	Annotation
	enumeration	WOMI	
	enumeration	common	
	enumeration	pair-work	
	enumeration	groupwork	
	enumeration	game	
	enumeration	witch	
	enumeration	gremlin	

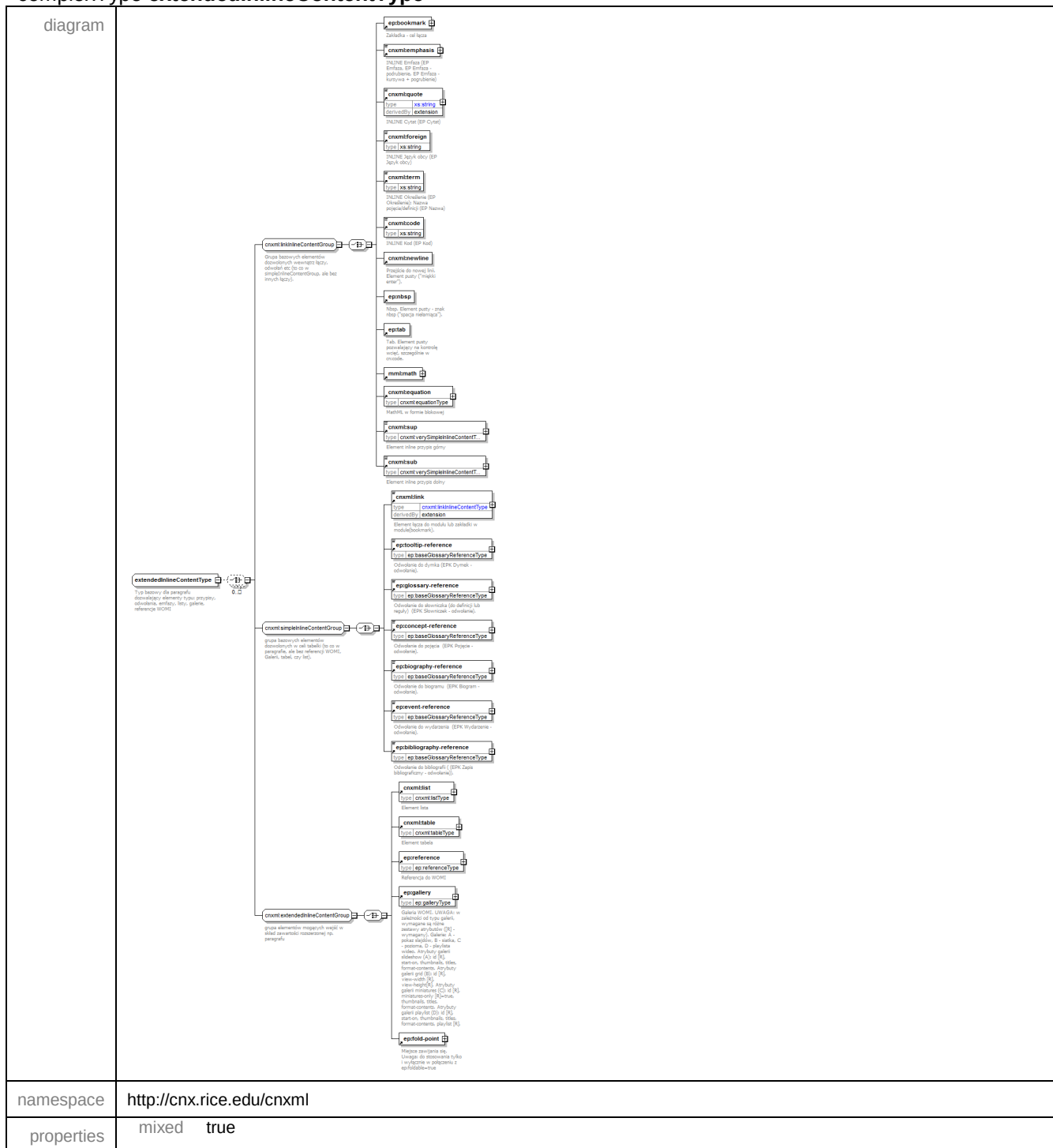
	enumeration reading enumeration challenge
source	<pre><xs:attribute name="type" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="WOMI"/> <xs:enumeration value="common"/> <xs:enumeration value="pair-work"/> <xs:enumeration value="groupwork"/> <xs:enumeration value="game"/> <xs:enumeration value="witch"/> <xs:enumeration value="gremlin"/> <xs:enumeration value="reading"/> <xs:enumeration value="challenge"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>

element exerciseType/title

diagram	The diagram illustrates the structure of the <code>cnxml:simpleInlineContentType</code> element. It is a complex type that can contain various inline content elements. The elements are listed on the right side of the diagram, each with its name, type, and a brief description. The elements are: <code>ep:bookmark</code>: Zakładka - cell łącza <code>cnxml:emphasis</code>: INLINE Enfaza (EP Enfaza, EP Enfaza - podbicie, EP Enfaza - kursywa + pogrubienie) <code>cnxml:quote</code>: Type: <code>xs:string</code>, derivedBy: <code>extension</code>. INLINE Cytat (EP Cytat) <code>cnxml:foreign</code>: Type: <code>xs:string</code>. INLINE Język obcy (EP Język obcy) <code>cnxml:term</code>: Type: <code>xs:string</code>. INLINE Określenie (EP Określenie). Nazwa pojęcia/definicji (EP Nazwa) <code>cnxml:code</code>: Type: <code>xs:string</code>. INLINE Kod (EP Kod) <code>cnxml:newline</code>: Przejście do nowej linii. Element pusty ("miękki enter"). <code>ep:nbsp</code>: Nbsp. Element pusty - znak rbsp ("spacja nielamiąca"). <code>ep:tab</code>: Tab. Element pusty przysługuje na kontrolę wcięć, szczególnie w cncode. <code>mml:math</code> <code>cnxml:equation</code>: Type: <code>cnxml:equationType</code>. MathML w formie blokowej <code>cnxml:sup</code>: Type: <code>cnxml:verySimpleInlineContentT</code>. Element inline przypis górny <code>cnxml:sub</code>: Type: <code>cnxml:verySimpleInlineContentT</code>. Element inline przypis dolny <code>cnxml:link</code>: Type: <code>cnxml:linkInlineContentT</code>, derivedBy: <code>extension</code>. Element łącza do modułu lub zakładki w module(bookmark). <code>ep:tooltip-reference</code>: Type: <code>ep:baseGlossaryReferenceType</code>. Odwołanie do dyktka (EPK Dymek - odwołanie). <code>ep:glossary-reference</code>: Type: <code>ep:baseGlossaryReferenceType</code>. Odwołanie do słownika (do definicji lub reguły). (EPK Słowniczek - odwołanie). <code>ep:concept-reference</code>: Type: <code>ep:baseGlossaryReferenceType</code>. Odwołanie do pojęcia (EPK Pojęcie - odwołanie). <code>ep:biography-reference</code>: Type: <code>ep:baseGlossaryReferenceType</code>. Odwołanie do biogramu (EPK Biogram - odwołanie). <code>ep:event-reference</code>: Type: <code>ep:baseGlossaryReferenceType</code>. Odwołanie do wydarzenia (EPK Wydarzenie - odwołanie). <code>ep:bibliography-reference</code>: Type: <code>ep:baseGlossaryReferenceType</code>. Odwołanie do bibliografii (EPK Zapis bibliograficzny - odwołanie). On the left side of the diagram, there are two groups of elements: <code>cnxml:linkInlineContentGroup</code>: Grupa bazowych elementów dozwolonych wewnątrz łącza, odwołań etc (to co w <code>simpleInlineContentGroup</code>, ale bez innych łączy). <code>cnxml:simpleInlineContentGroup</code>: grupa bazowych elementów dozwolonych w cell tabelki (to co w paragrafie, ale bez referencji WOML, Galen, tabeli, czy list). The central element is <code>cnxml:simpleInlineContentType</code>, which is a complex type that can contain any of the elements listed above.
namespace	http://cnx.rice.edu/cnxml
type	cnxml:simpleInlineContentType
properties	minOcc 0 maxOcc 1 content complex mixed true
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference

used by	complexType experimentType firstLevelSectionType fourthLevelSectionType galleryType listType observationType procedure-instructionsType ruleType secondLevelSectionType tableType thirdLevelSectionType tooltipType
source	<xs:element name="title" type="cnxml:simpleInlineContentType" minOccurs="0"/>

complexType extendedInlineContentType



children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference cnxml:list cnxml:table ep:reference ep:gallery ep:fold-point
used by	element para
annotation	documentation Typ bazowy dla paragrafu pozwalający elementy typu: przypisy, odwołania, emfazy, listy, galerie, referencje WOMI
source	<pre> <xs:complexType name="extendedInlineContentType" mixed="true"> <xs:annotation> <xs:documentation>Typ bazowy dla paragrafu pozwalający elementy typu: przypisy, odwołania, emfazy, listy, galerie, referencje WOMI</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:group ref="cnxml:linkInlineContentGroup"/> <xs:group ref="cnxml:simpleInlineContentGroup"/> <xs:group ref="cnxml:extendedInlineContentGroup"/> </xs:choice> </xs:complexType> </pre>

complexType firstLevelSectionType

diagram						
namespace	http://cnx.rice.edu/cnxxml					
children	ep:parameters cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table ep:zebra-point cnxml:section					
used by	element content/section					
attributes	Name id ep:recipient	Type idType ep:recipientType	Use required optional	Default	Fixed	Annotation documentation UWAGA: ten atrybut sekcyj

	ep:content-status ep:content-statusType optional może być używany tylko w momencie, gdy globalnie zadeklarowano moduł jako uczniowski, a jedyna wartość jaką może przyjąć to teacher documentation UWAGA: ten atrybut sekcji może być używany tylko w momencie, gdy globalnie zadeklarowano moduł jako kanon, a jedyna wartość jaką może przyjąć to expanding
annotation	documentation Typ opisujący sekcję pierwszego poziomu
source	<pre> <xs:complexType name="firstLevelSectionType"> <xs:annotation> <xs:documentation>Typ opisujący sekcję pierwszego poziomu</xs:documentation> </xs:annotation> <xs:sequence> <xs:group ref="ep:firstLevelSectionParametersGroup" minOccurs="0"/> <xs:element ref="cnxml:title" minOccurs="0"/> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:group ref="cnxml:sectionElementGroup"> <xs:annotation> <xs:documentation>Dozwolona zawartość sekcji. UWAGA: Elementy dla cytatu blokowego oraz kodu blokowego są zdefiniowane wewnątrz grupy (inaczej byłaby kolizja z odpowiednikami inline). UWAGA: Gdy sekcja jest podzielona na kolumny (patrz ep:parameters), wtedy może zawierać tylko podsekcje!</xs:documentation> </xs:annotation> </xs:group> <xs:element ref="ep:zebra-point"/> </xs:choice> <xs:element name="section" type="cnxml:secondLevelSectionType" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> <xs:attributeGroup ref="ep:firstLevelSectionAttributesGroup"/> </xs:complexType> </pre>

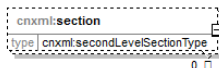
attribute firstLevelSectionType/@id

type	idType		
properties	use required		
facets	Kind pattern	Value i[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.

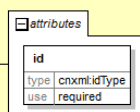
	pattern [a-zA-Z0-9_]+ documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>

element **firstLevelSectionType/section**

diagram



cnxmi:secondLevelSectionType



ep:secondLevelSectionParametersGroup

Grupa parametrów dla sekcji drugiego stopnia.
UWAGA: Gdy sekcja pierwszego stopnia jest podzielona na kolumny (liczba kolumn różna od 1), wszystkie jej podsekcje drugiego stopnia muszą posiadać parametry.

cnxmi:title

type | cnxmi:simpleInlineContentType

Element będący tytułem modułu, sekcji, listy, tabeli, kodu, doświadczenia, obserwacji etc.

ep:parameters

type | ep:secondLevelSectionParam...

ep:bookmark

Zakładka - cel łącza

cnxmi:para

type | cnxmi:extendedInlineCont...

derivedBy | extension

Paragraf

cnxmi:note

type | cnxmi:paraContainerWithl...

derivedBy | extension

Notka (EP Notka)

cnxmi:example

type | cnxmi:paraContainerWithIdType

Przykład (EP Przykład)

cnxmi:exercise

type | cnxmi:exerciseType

Element ćwiczenia

cnxmi:definition

type | cnxmi:definitionType

derivedBy | extension

Element definicja

cnxmi:rule

type | cnxmi:ruleType

Element reguły

ep:lead

type | ep:paraContainerWithIdType

Blok lead (EP Lead)

ep:intro

type | ep:paraContainerWithIdType

Blok intro (EP Intro)

ep:effect

type | ep:effectType

Blok effect (EP Nauczysz się)

ep:prerequisite

type | ep:paraContainerWithIdType

Blok prerequisite (EP Przygotuj przed lekcją)

ep:revisal

type | ep:paraContainerWithIdType

Blok revisal (EP Przypomnij sobie)

ep:command

type | ep:commandType

derivedBy | extension

Blok command (EP Polecenie)

ep:student-work

type | ep:student-workType

Element zestawu zadań dla ucznia

ep:concept

type | cnxmi:definitionType

Pojęcie (EPK Pojęcie)

ep:tooltip

type | ep:tooltipType

Element dymek (EP Dymek)

ep:procedure-instructions

type | ep:procedure-instructionsType

Element instrukcja postępowania (EP Instrukcja postępowania)

ep:biography

type | ep:biographyType

Element biogram (EPK Biogram)

ep:event

type | ep:eventType

Element wydarzenie (EPK Wydarzenie)

cnxmi:sectionElementGroup

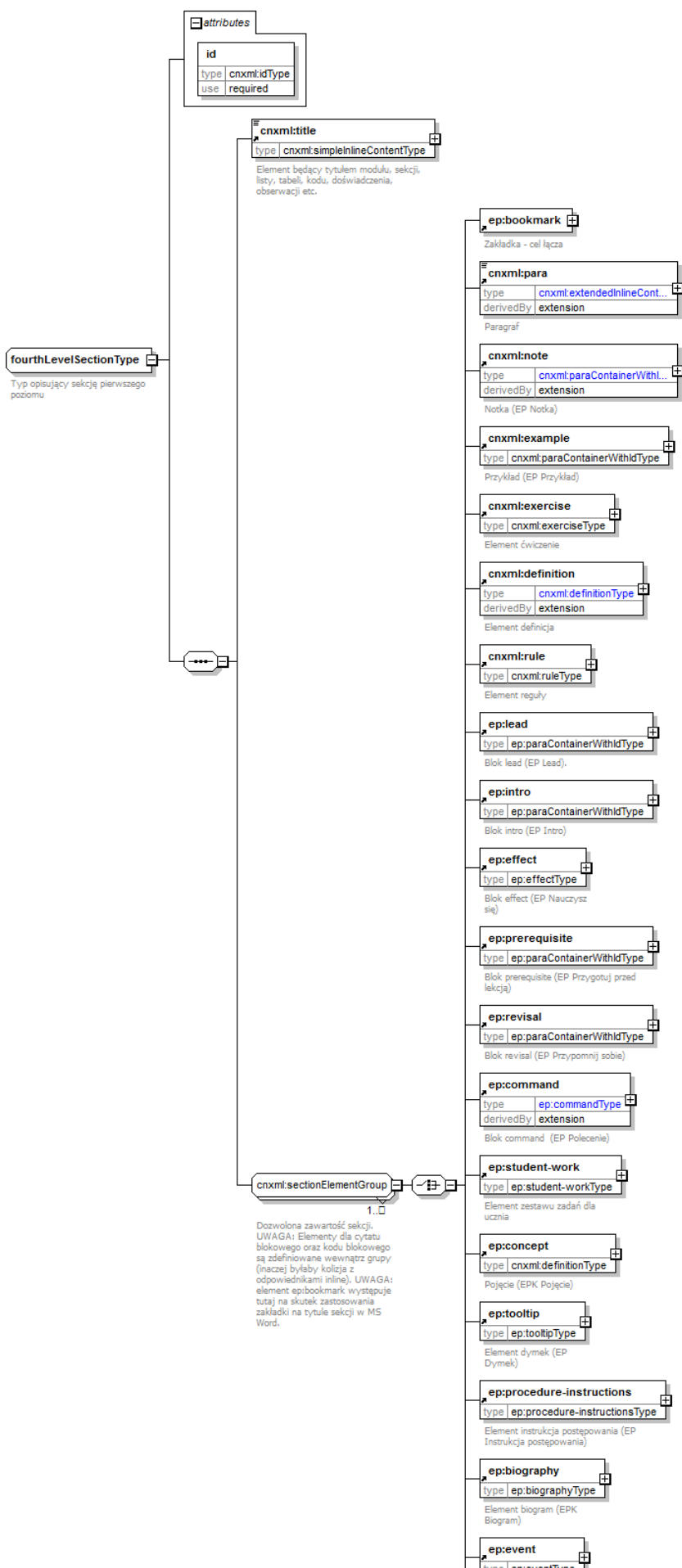
0..1

Dozwolona zawartość sekcji.
UWAGA: Elementy dla cytatu blokowego oraz kodu blokowego są zdefiniowane wewnątrz grupy (inaczej byłaby kolizja z odpowiednikami inline). UWAGA: element ep:bookmark występuje tutaj na skutek zastosowania zakładki na tytule sekcji w MS Word.

namespace	http://cnx.rice.edu/cnxml					
type	cnxml:secondLevelSectionType					
properties	minOcc	0				
	maxOcc	unbounded				
	content	complex				
children	ep:parameters cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table cnxml:section					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
source	<xs:element name="section" type="cnxml:secondLevelSectionType" minOccurs="0" maxOccurs="unbounded"/>					

complexType **fourthLevelSectionType**

diagram



namespace	http://cnx.rice.edu/cnxxml					
children	cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table					
used by	element	thirdLevelSectionType/section				
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Typ opisujący sekcję pierwszego poziomu					
source	<pre><xs:complexType name="fourthLevelSectionType"> <xs:annotation> <xs:documentation>Typ opisujący sekcję pierwszego poziomu</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:title"/> <xs:group ref="cnxml:sectionElementGroup" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:complexType></pre>					

attribute **fourthLevelSectionType/@id**

type	idType		
properties	use required		
facets	Kind pattern	Value i[a-zA-Z0-9]{9}(_a-zA-Z0-9)+)?	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

complexType linkInlineContentType

diagram	The diagram illustrates the structure of the <code>linkInlineContentType</code> complex type. It consists of a sequence of elements: <code>linkInlineContentType</code> (0..1), <code>cnxml:linkInlineContentGroup</code> (0..1), and a choice of various elements. The elements included in the choice are <code>ep:bookmark</code>, <code>cnxml:emphasis</code>, <code>cnxml:quote</code>, <code>cnxml:foreign</code>, <code>cnxml:term</code>, <code>cnxml:code</code>, <code>cnxml:newline</code>, <code>ep:nbsp</code>, <code>ep:tab</code>, <code>mml:math</code>, <code>cnxml:equation</code>, <code>cnxml:sup</code>, and <code>cnxml:sub</code>.
namespace	http://cnx.rice.edu/cnxml
properties	mixed true
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub
used by	element link complexType baseGlossaryReferenceType
annotation	documentation Typ dla łączy, pozwalający zawarcie elementów inline wewnątrz łączy
source	<pre><xs:complexType name="linkInlineContentType" mixed="true"> <xs:annotation> <xs:documentation>Typ dla łączy, pozwalający zawarcie elementów inline wewnątrz</pre>

	łączy</xs:documentation> </xs:annotation> <xs:sequence minOccurs="0" maxOccurs="unbounded"> <xs:group ref="cnxml:linkInlineContentGroup"/> </xs:sequence> </xs:complexType>

complexType **listType**

diagram	The diagram illustrates the structure of the listType complex type. It includes several attributes and a composition of child elements. Attributes: id: type <code>cnxml:idType</code>, use <code>required</code>. list-type: type <code>xs:string</code>, use <code>required</code>. Description: Typ listy: punktowana lub numerowana. number-style: type <code>xs:string</code>. Description: Styl numerowania. Ten atrybut występuje tylko w momencie, gdy wartość list-type to 'enumerated'. start-value: type <code>xs:positiveInteger</code>. Description: Wartość początkowa numerowania listy. Atrybut występuje tylko w momencie, gdy wartość list-type to 'enumerated'. mark-prefix: type <code>xs:string</code>. Description: Prefix przed numerowaniem elementu listy. mark-suffix: type <code>xs:string</code>. Description: Postfix po numerowaniu elementu listy. Compositions: - A composition with cnxml:title (type <code>cnxml:simpleInlineContentType</code>). Description: Element będący tytułem modułu, sekcji, listy, tabeli, kodu, doświadczenia, obserwacji etc. - A 1..n composition with cnxml:item (type <code>cnxml:paraContainerType</code>). Description: Element składowy listy.					
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:title cnxml:item					
used by	element list					
attributes	Name id list-type	Type idType derived by:	Use required required	Default	Fixed	Annotation documentation

	xs:string number-style derived by: xs:string start-value xs:positiveInteger mark-prefix derived by: xs:string mark-suffix derived by: xs:string	Typ listy: punktowana lub numerowana documentation Styl numerowania. Ten atrybut występuje tylko w w momencie, gdy wartość list-type to 'enumerated'. documentation Wartość początkowa numerowania listy. Atrybut występuje tylko w momencie, gdy wartość list-type to 'enumerated'. documentation Prefix przed numerowaniem elementu listy. documentation Postfix po numerowaniu elementu listy.
annotation	documentation Typ lista	
source	<pre> <xs:complexType name="listType"> <xs:annotation> <xs:documentation>Typ lista</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:title" minOccurs="0"/> <xs:element ref="cnxml:item" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> <xs:attribute name="list-type" use="required"> <xs:annotation> <xs:documentation>Typ listy: punktowana lub numerowana</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="enumerated"/> <xs:enumeration value="enumerated-full-path"/> <xs:enumeration value="bulleted"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="number-style"> <xs:annotation> <xs:documentation>Styl numerowania. Ten atrybut występuje tylko w w momencie, gdy wartość list-type to 'enumerated'.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> </pre>	

	<pre> <xs:enumeration value="arabic"/> <xs:enumeration value="lower-roman"/> <xs:enumeration value="upper-roman"/> <xs:enumeration value="lower-alpha"/> <xs:enumeration value="upper-alpha"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="start-value" type="xs:positiveInteger"> <xs:annotation> <xs:documentation>Wartość początkowa numerowania listy. Atrybut występuje tylko w momencie, gdy wartość list-type to 'enumerated'.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="mark-prefix"> <xs:annotation> <xs:documentation>Prefix przed numerowaniem elementu listy.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="mark-suffix"> <xs:annotation> <xs:documentation>Postfix po numerowaniu elementu listy.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>

attribute **listType/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_ a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

attribute **listType/@list-type**

type	restriction of xs:string
properties	use required

facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>enumerated</td><td></td></tr><tr><td>enumeration</td><td>enumerated-full-path</td><td></td></tr><tr><td>enumeration</td><td>bulleted</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	enumerated		enumeration	enumerated-full-path		enumeration	bulleted	
Kind	Value	Annotation											
enumeration	enumerated												
enumeration	enumerated-full-path												
enumeration	bulleted												
annotation	documentation Typ listy: punktowana lub numerowana												
source	<pre><xs:attribute name="list-type" use="required"> <xs:annotation> <xs:documentation>Typ listy: punktowana lub numerowana</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="enumerated"/> <xs:enumeration value="enumerated-full-path"/> <xs:enumeration value="bulleted"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>												

attribute **listType/@number-style**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	arabic	
	enumeration	lower-roman	
	enumeration	upper-roman	
	enumeration	lower-alpha	
	enumeration	upper-alpha	
annotation	documentation Styl numerowania. Ten atrybut występuje tylko w w momencie, gdy wartość list-type to 'enumerated'.		
source	<pre><xs:attribute name="number-style"> <xs:annotation> <xs:documentation>Styl numerowania. Ten atrybut występuje tylko w w momencie, gdy wartość list-type to 'enumerated'.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="arabic"/> <xs:enumeration value="lower-roman"/> <xs:enumeration value="upper-roman"/> <xs:enumeration value="lower-alpha"/> <xs:enumeration value="upper-alpha"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **listType/@start-value**

type	xs:positiveInteger
annotation	documentation Wartość początkowa numerowania listy. Atrybut występuje tylko w momencie, gdy wartość list-type to 'enumerated'.
source	<pre> <xs:attribute name="start-value" type="xs:positiveInteger"> </pre>

	<pre> <xs:annotation> <xs:documentation>Wartość początkowa numerowania listy. Atrybut występuje tylko w momencie, gdy wartość list-type to 'enumerated'.</xs:documentation> </xs:annotation> </xs:attribute> </pre>

attribute **listType/@mark-prefix**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	minLength	1	
annotation	documentation Prefix przed numerowaniem elementu listy.		
source	<pre><xs:attribute name="mark-prefix"> <xs:annotation> <xs:documentation>Prefix przed numerowaniem elementu listy.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **listType/@mark-suffix**

type	restriction of xs:string						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minLength</td><td>1</td><td></td></tr></table>	Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation					
minLength	1						
annotation	documentation Postfix po numerowaniu elementu listy.						
source	<pre><xs:attribute name="mark-suffix"> <xs:annotation> <xs:documentation>Postfix po numerowaniu elementu listy.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>						

complexType metadataType

diagram	UWAGA! zdefiniowano actors jak i roles są wymagane w przypadku, gdy mamy do czynienia z modułem, który nie jest technicznym.					
namespace	http://cnx.rice.edu/cnxxml					
children	md:content-id md:repository md:version md:created md:revised md:title md:language md:license md:presentationTitle md:actors md:roles md:abstract md:keywordlist ep:e-textbook-module ep:origin-id ep:origin-version					
used by	element metadata					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mdml-version	xs:string	required		0.5	
annotation	documentation Typ metadanych modułu					
source	<xs:complexType name="metadataType">					

	<pre> <xs:annotation> <xs:documentation>Typ metadanych modułu</xs:documentation> </xs:annotation> <xs:sequence> <xs:annotation> <xs:documentation>UWAGA: zarówno actors jak i roles są wymagane w przypadku, gdy mamy do czynienia z modulem, który nie jest technicznym.</xs:documentation> </xs:annotation> <xs:element ref="md:content-id"/> <xs:element ref="md:repository"/> <xs:element ref="md:version"/> <xs:element ref="md:created"/> <xs:element ref="md:revised"/> <xs:element ref="md:title"/> <xs:element ref="md:language"/> <xs:element ref="md:license"/> <xs:element ref="md:presentationTitle" minOccurs="0"/> <xs:element ref="md:actors" minOccurs="0"/> <xs:element ref="md:roles" minOccurs="0"/> <xs:element ref="md:abstract" minOccurs="0"/> <xs:element ref="md:keywordlist" minOccurs="0"/> <xs:element ref="ep:e-textbook-module"/> <xs:element ref="ep:origin-id" minOccurs="0"/> <xs:element ref="ep:origin-version" minOccurs="0"/> </xs:sequence> <xs:attribute name="mdml-version" type="xs:string" use="required" fixed="0.5"/> </xs:complexType> </pre>

attribute **metadataType/@mdml-version**

type	xs:string
properties	use required fixed 0.5
source	<xs:attribute name="mdml-version" type="xs:string" use="required" fixed="0.5"/>

complexType **paraContainerType**

diagram	
namespace	http://cnx.rice.edu/cnxml
children	cnxml:para
used by	element item complexTypes paraContainerWithIdType paraContainerWithIdType
annotation	documentation dozwolona zawartość bloków, które do tej pory posiadały wewnątrz same para
source	<pre> <xs:complexType name="paraContainerType"> <xs:annotation> <xs:documentation>dozwolona zawartość bloków, które do tej pory posiadały wewnątrz same para</xs:documentation> </pre>

	<pre> </xs:annotation> <xs:sequence maxOccurs="unbounded"> <xs:element ref="cnxml:para"/> </xs:sequence> </xs:complexType> </pre>

complexType paraContainerWithIdType

diagram						
namespace	http://cnx.rice.edu/cnxml					
type	extension of cnxml:paraContainerType					
properties	base cnxml:paraContainerType					
children	cnxml:para					
used by	elements commentary example meaning note proof solution statement					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
annotation	documentation Kontener na paragrafy z id					
source	<pre> <xs:complexType name="paraContainerWithIdType"> <xs:annotation> <xs:documentation>Kontener na paragrafy z id</xs:documentation> </xs:annotation> <xs:complexContent> <xs:extension base="cnxml:paraContainerType"> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:extension> </xs:complexContent> </xs:complexType> </pre>					

attribute paraContainerWithIdType/@id

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez

	konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>

complexType **problemType**

diagram													
namespace	http://cnx.rice.edu/cnxml												
children	cnxml:para cnxml:quote												
used by	element problem												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>id</td><td>idType</td><td>required</td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	id	idType	required			
Name	Type	Use	Default	Fixed	Annotation								
id	idType	required											
annotation	documentation Typ dla problemu w zadaniu												
source	<pre><xs:complexType name="problemType"> <xs:annotation> <xs:documentation>Typ dla problemu w zadaniu</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="cnxml:para"/> <xs:element name="quote" type="cnxml:quoteType"> <xs:annotation> <xs:documentation>Cytat blokowy (EP Cytat - akapit, EPK Cytat) jest zdefiniowany tutaj, aby nie było kolizji z cytatem inline, który ma zupełnie inny charakter.</xs:documentation> </xs:annotation> </xs:element> </xs:choice> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:complexType></pre>												

attribute **problemType/@id**

type	idType		
properties	use required		
facets	Kind pattern	Value i[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez

	pattern [a-zA-Z0-9_]+ konwerter. documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>

element **problemType/quote**

diagram	cnxml:quoteType attributes id type ep:idType use required ep:foldable type xs:boolean Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. ep:content-status type ep:content-statusType Status treści cnxml:quote type cnxml:quoteType Cytat blokowy (EP Cytat - akapit, EPK Cytat) jest zdefiniowany tutaj, aby nie było kolizji z cytatem inline, który ma zupełnie inny charakter. cnxml:label type cnxml:simpleInlineContentType Element będący tytułem cytatu, ... ep:author type xs:string 0..1 Autor cytatu (EP Autor) ep:comment type ep:paraContainerWithIdType 0..1 Komentarz do cytatu (EP Cytat akapit - komentarz) cnxml:para type cnxml:extendedInlineCont... derivedBy extension 1..1 Paragraf ep:source Zródło cytatu w postaci odwołania do zapisu bibliograficznego ep:license type ep:licenseType Element zawierający licencję elementu nadrzędnego (np. cytatu) ep:license-additional-info type xs:string Element zawierający dodatkowe informacje licencyjne (np. w cytacie)
namespace	http://cnx.rice.edu/cnxml
type	cnxml:quoteType

properties	content	complex
children	cnxml:label ep:author ep:comment cnxml:para ep:source ep:license ep:license-additional-info	
used by	groups	linkInlineContentGroup verySimpleInlineContentGroup
attributes	Name id ep:foldable ep:content-status Type idType xs:boolean ep:content-statusType	Use required Default Fixed Annotation documentation Atrybut pozwalający oznaczyć, że notka jest, lub nie jest związalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. documentation Status treści
annotation	documentation Cytat blokowy (EP Cytat - akapit, EPK Cytat) jest zdefiniowany tutaj, aby nie było kolizji z cytatem inline, który ma zupełnie inny charakter.	
source	<pre><xs:element name="quote" type="cnxml:quoteType"> <xs:annotation> <xs:documentation>Cytat blokowy (EP Cytat - akapit, EPK Cytat) jest zdefiniowany tutaj, aby nie było kolizji z cytatem inline, który ma zupełnie inny charakter.</xs:documentation> </xs:annotation> </xs:element></pre>	

complexType **qmlSectionContainerType**

diagram	Typ kontener sekcji dla QML
namespace	http://cnx.rice.edu/cnxml
children	cnxml:section
used by	elements feedback hint key/feedback question response
annotation	documentation Typ kontener sekcji dla QML
source	<pre> <xs:complexType name="qmlSectionContainerType"> <xs:annotation> <xs:documentation>Typ kontener sekcji dla QML</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="section"> <xs:complexType> <xs:sequence> <xs:element ref="cnxml:para" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </pre>

	<code></xs:element></code> <code></xs:sequence></code> <code></xs:complexType></code>

element **qmlSectionContainerType/section**

diagram						
namespace	http://cnx.rice.edu/cnxml					
properties	content complex					
children	cnxml:para					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
source	<pre> <xs:element name="section"> <xs:complexType> <xs:sequence> <xs:element ref="cnxml:para" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:complexType> </xs:element> </pre>					

attribute **qmlSectionContainerType/section/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora utworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie utworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

complexType quoteType

diagram	quoteType Typ cytat blokowy (EPK Cytat) Attributes: id type: ep:idType use: required ep:foldable type: xs:boolean Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. ep:content-status type: ep:content-statusType Status treści Children: cnxml:label type: cnxml:simpleInlineContentType Element będący tytułem cytatu, ... ep:author type: xs:string 0..1 Autor cytatu (EP Autor) ep:comment type: ep:paraContainerWithIdType 0..1 Komentarz do cytatu (EP Cytat akapit - komentarz) cnxml:para type: cnxml:extendedInlineCont... derivedBy: extension 1..1 Paragraf ep:source type: ep:sourceType Źródło cytatu w postaci odwołania do zapisu bibliograficznego ep:license type: ep:licenseType Element zawierający licencję elementu nadrzędnego (np. cytatu) ep:license-additional-info type: xs:string Element zawierający dodatkowe informacje licencyjne (np. w cytacie)					
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:label ep:author ep:comment cnxml:para ep:source ep:license ep:license-additional-info					
used by	elements problemType/quote sectionElementGroup/quote					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	ep:foldable	xs:boolean				documentation Atrybut pozwalający oznaczyć, że notka jest, lub

		nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true. documentation Status treści
	ep:content-status ep:content-statusType	
annotation	documentation Typ cytat blokowy (EPK Cytat)	
source	<pre> <xs:complexType name="quoteType"> <xs:annotation> <xs:documentation>Typ cytat blokowy (EPK Cytat)</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:label" minOccurs="0"/> <xs:element ref="ep:author" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="ep:comment" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="cnxml:para" maxOccurs="unbounded"/> <xs:element ref="ep:source" minOccurs="0"/> <xs:element ref="ep:license" minOccurs="0"/> <xs:element ref="ep:license-additional-info" minOccurs="0"/> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute ref="ep:foldable"/> <xs:attribute ref="ep:content-status"/> </xs:complexType> </pre>	

attribute **quoteType/@id**

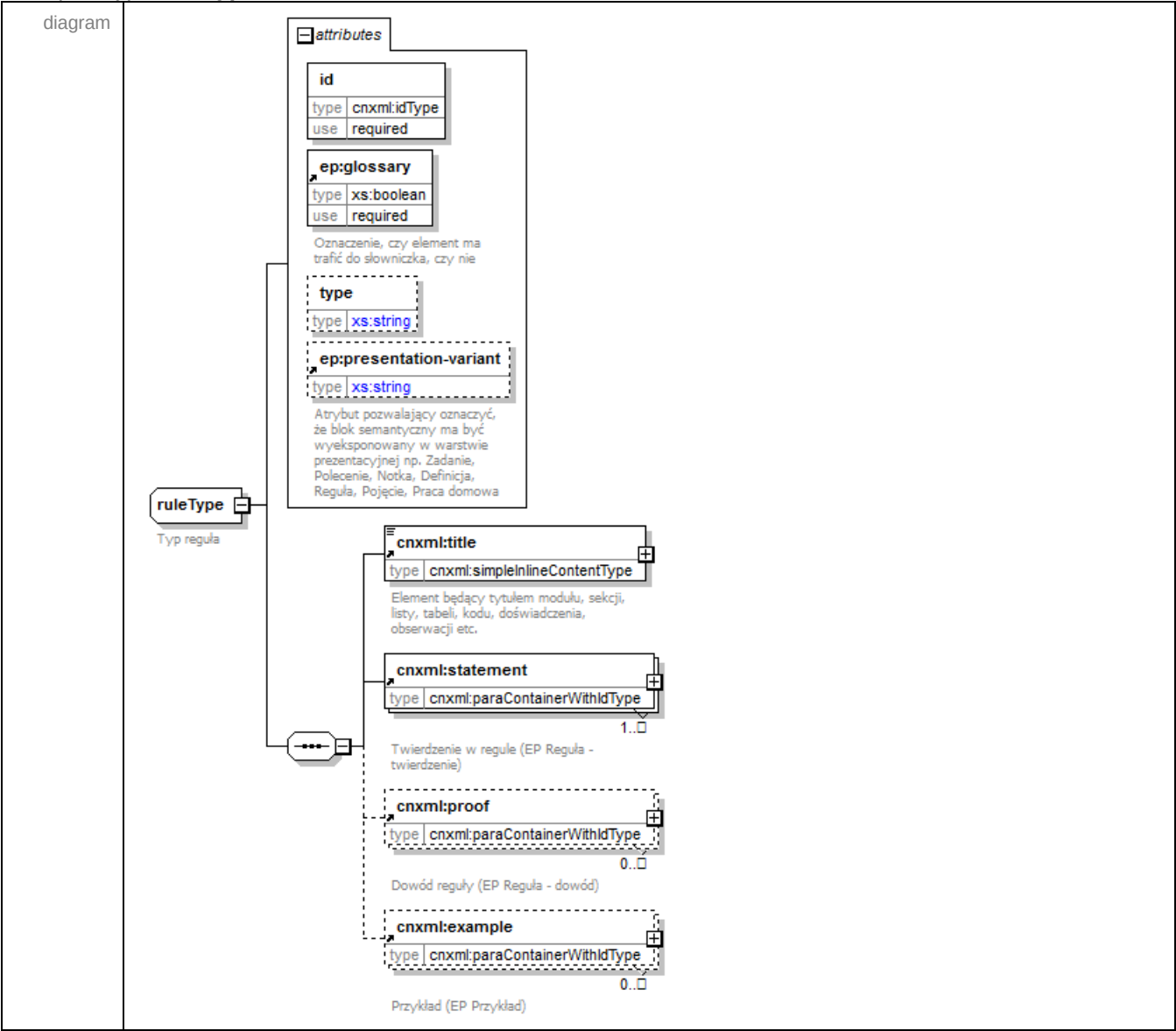
type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

complexType **rowType**

diagram	Diagram illustrating the structure of the rowType complex type. It is a sequence of cnxml:entry elements. The cnxml:entry element has a type attribute of cnxml:entryType and a derivedBy attribute of extension. The cardinality is 1..n.		
namespace	http://cnx.rice.edu/cnxml		

children	cnxml:entry
used by	element row
annotation	documentation Typ wiersz tabeli
source	<pre> <xs:complexType name="rowType"> <xs:annotation> <xs:documentation>Typ wiersz tabeli</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:entry" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>

complexType ruleType



namespace	http://cnx.rice.edu/cnxxml					
children	cnxxml:title cnxxml:statement cnxxml:proof cnxxml:example					
used by	element rule					
attributes	Name id ep:glossary type ep:presentation-variant	Type idType xs:boolean derived by: xs:string derived by: xs:string	Use required required	Default	Fixed	Annotation documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Typ reguła					
source	<pre> <xs:complexType name="ruleType"> <xs:annotation> <xs:documentation>Typ reguła</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxxml:title"/> <xs:element ref="cnxxml:statement" maxOccurs="unbounded"/> <xs:element ref="cnxxml:proof" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="cnxxml:example" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxxml:idType" use="required"/> <xs:attribute ref="ep:glossary" use="required"/> <xs:attribute name="type"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="rule"/> <xs:enumeration value="theorem"/> <xs:enumeration value="lemma"/> <xs:enumeration value="law"/> <xs:enumeration value="property"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute ref="ep:presentation-variant"/> </xs:complexType> </pre>					

attribute **ruleType/@id**

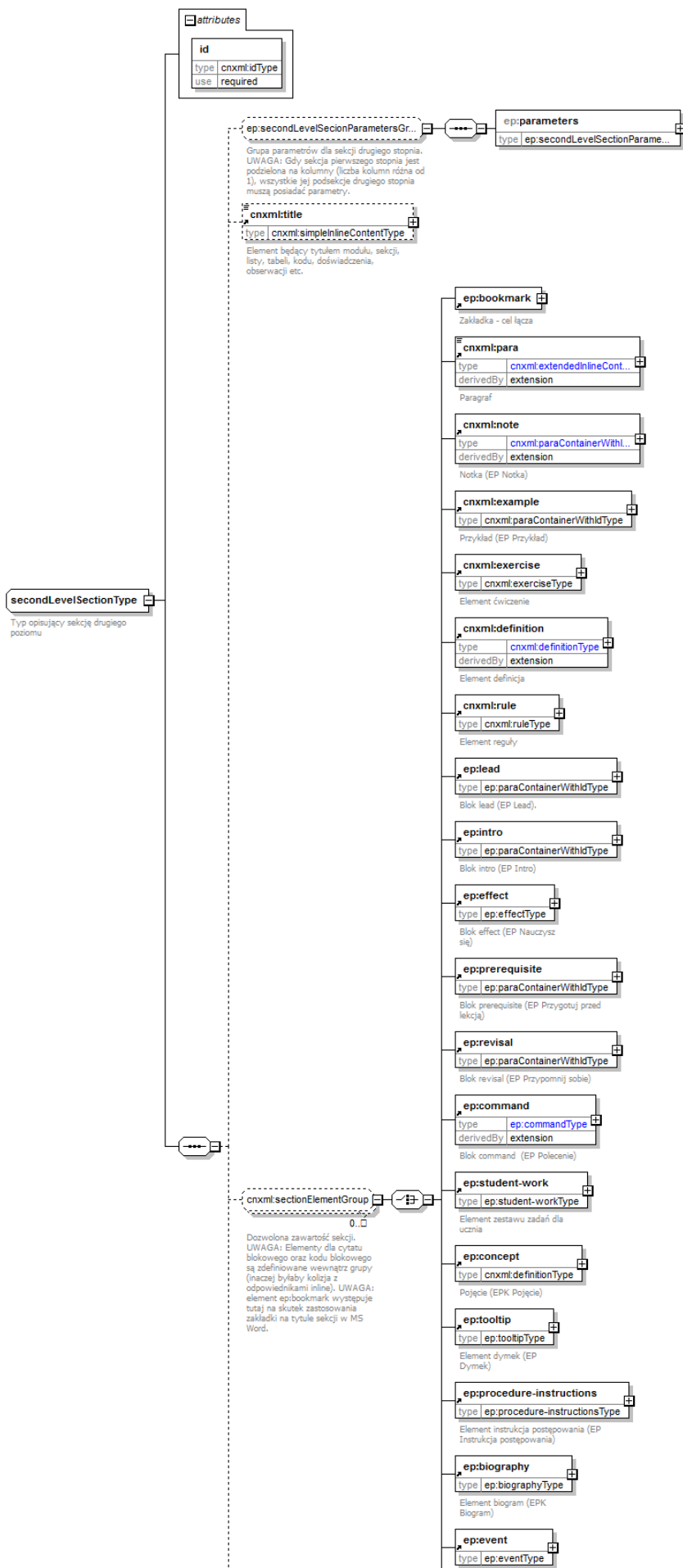
type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

attribute **ruleType/@type**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	rule	
	enumeration	theorem	
	enumeration	lemma	
	enumeration	law	
	enumeration	property	
source	<xs:attribute name="type"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="rule"/> <xs:enumeration value="theorem"/> <xs:enumeration value="lemma"/> <xs:enumeration value="law"/> <xs:enumeration value="property"/> </xs:restriction> </xs:simpleType> </xs:attribute>		

complexType **secondLevelSectionType**

diagram



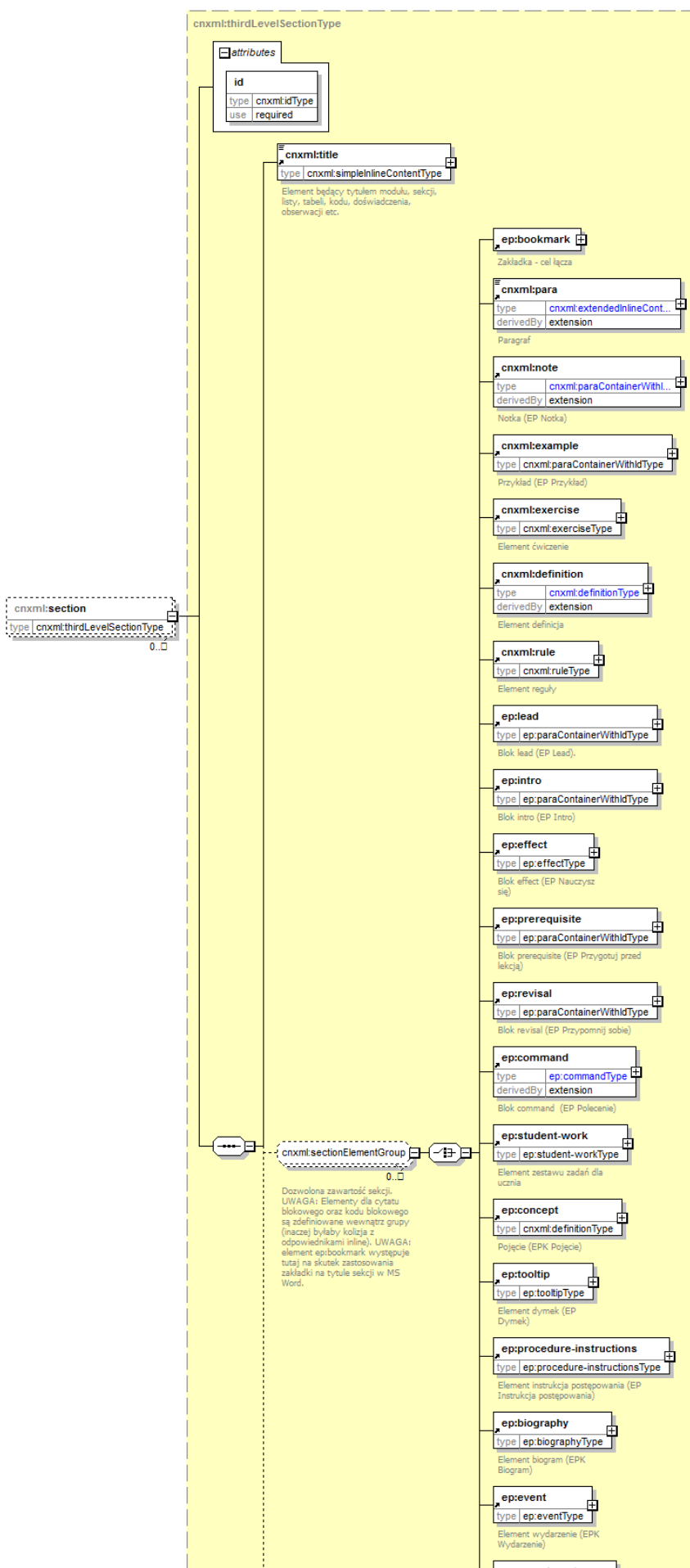
namespace	http://cnx.rice.edu/cnxml					
children	ep:parameters cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table cnxml:section					
used by	element	firstLevelSectionType/section				
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Typ opisujący sekcję drugiego poziomu					
source	<pre> <xs:complexType name="secondLevelSectionType"> <xs:annotation> <xs:documentation>Typ opisujący sekcję drugiego poziomu</xs:documentation> </xs:annotation> <xs:sequence> <xs:group ref="ep:secondLevelSectionParametersGroup" minOccurs="0"/> <xs:element ref="cnxml:title" minOccurs="0"/> <xs:group ref="cnxml:sectionElementGroup" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="section" type="cnxml:thirdLevelSectionType" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:complexType> </pre>					

attribute **secondLevelSectionType/@id**

type	idType		
properties	use	required	
facets	Kind pattern	Value i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

element **secondLevelSectionType/section**

diagram



namespace	http://cnx.rice.edu/cnxml				
type	cnxml:thirdLevelSectionType				
properties	minOcc	0			
	maxOcc	unbounded			
	content	complex			
children	cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table cnxml:section				
attributes	Name id	Type idType	Use required	Default	Fixed Annotation
source	<xs:element name="section" type="cnxml:thirdLevelSectionType" minOccurs="0" maxOccurs="unbounded"/>				

complexType simpleInlineContentType

diagram	The diagram illustrates the structure of the <code>simpleInlineContentType</code>. It is a complex type that can contain a sequence of various elements. The elements are listed in the children section. The diagram also shows two groups: <code>cnxml:linkInlineContentGroup</code> and <code>cnxml:simpleInlineContentGroup</code>, both containing the same sequence of elements. The <code>simpleInlineContentGroup</code> is also shown as a base type for the <code>simpleInlineContentType</code>.
namespace	http://cnx.rice.edu/cnxml
properties	mixed true
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab mml:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference
used by	elements definitionType/term exerciseType/title label name title complexType entryType
annotation	documentation Typ dla elementów będących nagłówkami lub tytułami elementów blokowych (title, name, label)
source	<code><xs:complexType name="simpleInlineContentType" mixed="true"></code>

	<pre> <xs:annotation> <xs:documentation>Typ dla elementów będących nagłówkami lub tytułami elementów blokowych (title, name, label)</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:group ref="cnxml:linkInlineContentGroup"/> <xs:group ref="cnxml:simpleInlineContentGroup"/> </xs:choice> </xs:complexType> </pre>

complexType tableType

diagram						
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:title cnxml:tgroup					
used by	element table					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	summary	xs:string	required			
	ep:style	derived by: xs:string	optional			documentation atrybut styl dla cn:table
	pgwide	derived by: xs:positiveInteger	optional			documentation Szerokość tabeli.
annotation	documentation Typ tabela					
source	<pre> <xs:complexType name="tableType"> <xs:annotation> <xs:documentation>Typ tabela</xs:documentation> </pre>					

	<pre> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:title"/> <xs:element ref="cnxml:tgroup"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> <xs:attribute name="summary" type="xs:string" use="required"/> <xs:attribute ref="ep:style" use="optional"/> <xs:attribute name="pgwide" use="optional"> <xs:annotation> <xs:documentation>Szerokość tabeli.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>

attribute **tableType/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

attribute **tableType/@summary**

type	xs:string
properties	use required
source	<xs:attribute name="summary" type="xs:string" use="required"/>

attribute **tableType/@pgwide**

type	restriction of xs:positiveInteger		
properties	use optional		
facets	Kind	Value	Annotation
	minInclusive	1	
	maxInclusive	100	
annotation	documentation Szerokość tabeli.		
source	<xs:attribute name="pgwide" use="optional"> <xs:annotation>		

	<pre> <xs:documentation>Szerokość tabeli.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

complexType tbodyType

diagram	
namespace	http://cnx.rice.edu/cnxml
children	cnxml:row
used by	element tbody
annotation	documentation Typ ciało tabeli
source	<pre> <xs:complexType name="tbodyType"> <xs:annotation> <xs:documentation>Typ ciało tabeli</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:row" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>

complexType tgroupType

diagram	

namespace	http://cnx.rice.edu/cnxml					
children	cnxml:colspec cnxml:thead cnxml:tbody					
used by	element tgroup					
attributes	Name cols	Type xs:positiveInteger	Use required	Default	Fixed	Annotation documentation Liczba kolumn w tabeli
annotation	documentation Typ grupy w tabeli					
source	<pre> <xs:complexType name="tgroupType"> <xs:annotation> <xs:documentation>Typ grupy w tabeli</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:colspec" maxOccurs="unbounded"/> <xs:element ref="cnxml:thead" minOccurs="0"/> <xs:element ref="cnxml:tbody"/> </xs:sequence> <xs:attribute name="cols" type="xs:positiveInteger" use="required"> <xs:annotation> <xs:documentation>Liczba kolumn w tabeli</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>					

attribute **tgroupType/@cols**

type	xs:positiveInteger
properties	use required
annotation	documentation Liczba kolumn w tabeli
source	<pre> <xs:attribute name="cols" type="xs:positiveInteger" use="required"> <xs:annotation> <xs:documentation>Liczba kolumn w tabeli</xs:documentation> </xs:annotation> </xs:attribute> </pre>

complexType **theadType**

diagram	<pre> graph LR theadType[theadType] --- Seq[...] Seq --- cnxmlrow[cnxml:row] cnxmlrow -- type --> cnxmlrowType[cnxml:rowType] Seq --- C1[1..∞] </pre> Typ nagłówek tabeli Element wiersz tabeli
namespace	http://cnx.rice.edu/cnxml
children	cnxml:row
used by	element thead
annotation	documentation Typ nagłówek tabeli
source	<pre> <xs:complexType name="theadType"> <xs:annotation> </pre>

	<pre><xs:documentation>Typ nagłówek tabeli</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:row" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType></pre>

complexType **thirdLevelSectionType**

diagram



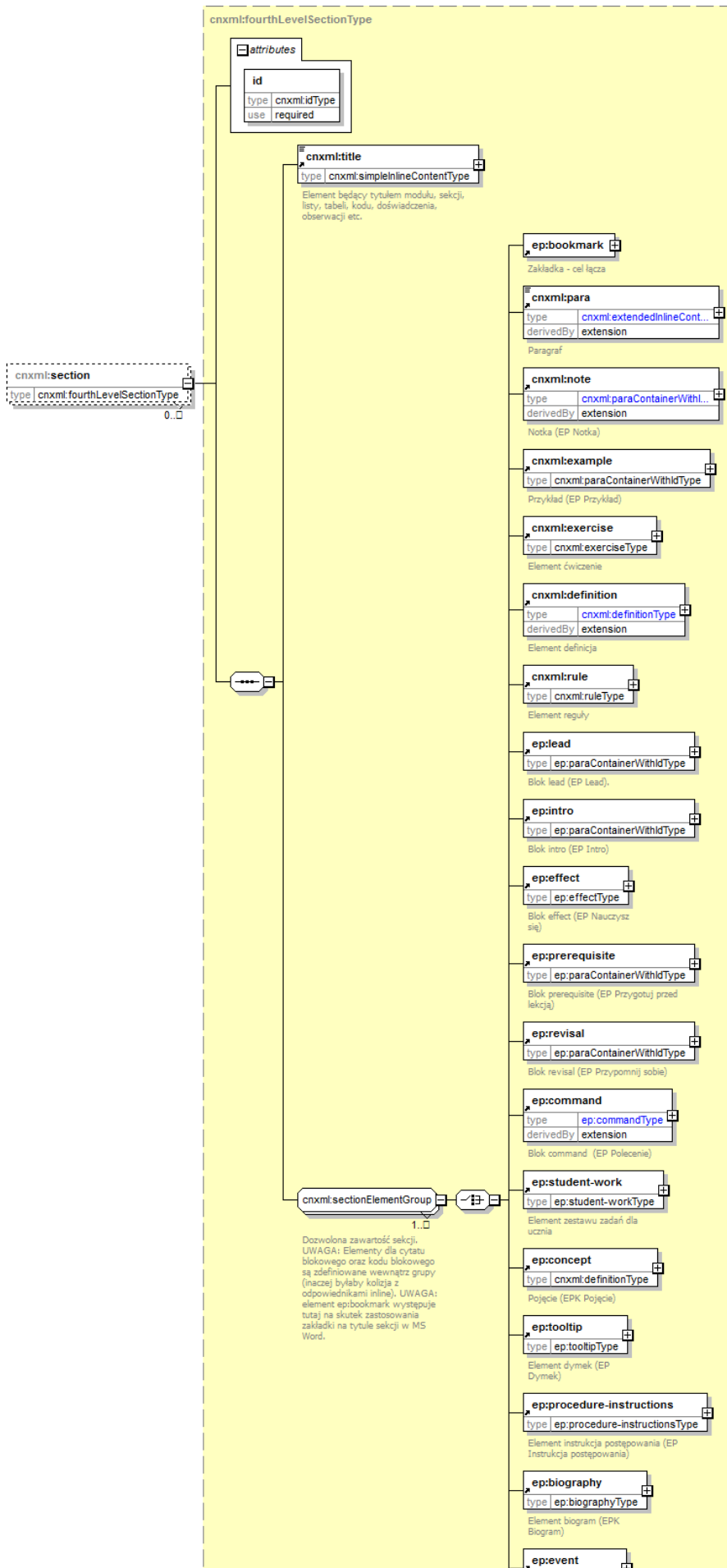
namespace	http://cnx.rice.edu/cnxml					
children	cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table cnxml:section					
used by	element	secondLevelSectionType/section				
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Typ opisujący sekcję trzeciego poziomu					
source	<pre> <xs:complexType name="thirdLevelSectionType"> <xs:annotation> <xs:documentation>Typ opisujący sekcję trzeciego poziomu</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:title"/> <xs:group ref="cnxml:sectionElementGroup" minOccurs="0" maxOccurs="unbounded"/> <xs:element name="section" type="cnxml:fourthLevelSectionType" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="cnxml:idType" use="required"/> </xs:complexType> </pre>					

attribute **thirdLevelSectionType/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="cnxml:idType" use="required"/>		

element **thirdLevelSectionType/section**

diagram



namespace	http://cnx.rice.edu/cnxml					
type	cnxml:fourthLevelSectionType					
properties	minOcc	0	maxOcc	unbounded	content	complex
children	cnxml:title ep:bookmark cnxml:para cnxml:note cnxml:example cnxml:exercise cnxml:definition cnxml:rule ep:lead ep:intro ep:effect ep:prerequisite ep:revisal ep:command ep:student-work ep:concept ep:tooltip ep:procedure-instructions ep:biography ep:event ep:experiment ep:observation ep:technical-remarks cnxml:quote cnxml:code cnxml:list cnxml:table					
attributes	Name id	Type idType	Use required	Default	Fixed	Annotation
source	<xs:element name="section" type="cnxml:fourthLevelSectionType" minOccurs="0" maxOccurs="unbounded"/>					

complexType [verySimpleInlineContentType](#)

diagram	
namespace	http://cnx.rice.edu/cnxml
properties	mixed true
children	cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code
used by	elements sub sup
annotation	documentation Typ bazowy dla elementów sub i sup
source	<pre> <xs:complexType name="verySimpleInlineContentType" mixed="true"> <xs:annotation> <xs:documentation>Typ bazowy dla elementów sub i sup</xs:documentation> </xs:annotation> <xs:sequence minOccurs="0" maxOccurs="unbounded"> <xs:group ref="cnxml:verySimpleInlineContentGroup"/> </xs:sequence> </xs:complexType> </pre>

simpleType idType

namespace	http://cnx.rice.edu/cnxxml		
type	restriction of xs:string		
properties	base xs:string		
used by	attributes	link/@document para/@id documentType/@id firstLevelSectionType/@id secondLevelSectionType/@id thirdLevelSectionType/@id fourthLevelSectionType/@id paraContainerWithIdType/@id qmlSectionContainerType/section/@id problemType/@id definitionType/@id ruleType/@id equationType/@id listType/@id tableType/@id documentType/@module-id link/@target-id	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9)+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation Identyfikator		
source	<pre> <xs:simpleType name="idType"> <xs:annotation> <xs:documentation>Identyfikator</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="i[a-zA-Z0-9]{9}(_a-zA-Z0-9)+)?"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> <xs:pattern value="[a-zA-Z0-9_]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType> </pre>		

simpleType titleType

namespace	http://cnx.rice.edu/cnxxml		
type	restriction of xs:string		
properties	base xs:string		
used by	element	documentType/title	
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	140	
annotation	documentation Tytuł modułu, sekcji, kodu etc.		
source	<pre> <xs:simpleType name="titleType"> <xs:annotation> <xs:documentation>Tytuł modułu, sekcji, kodu etc.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> </pre>		

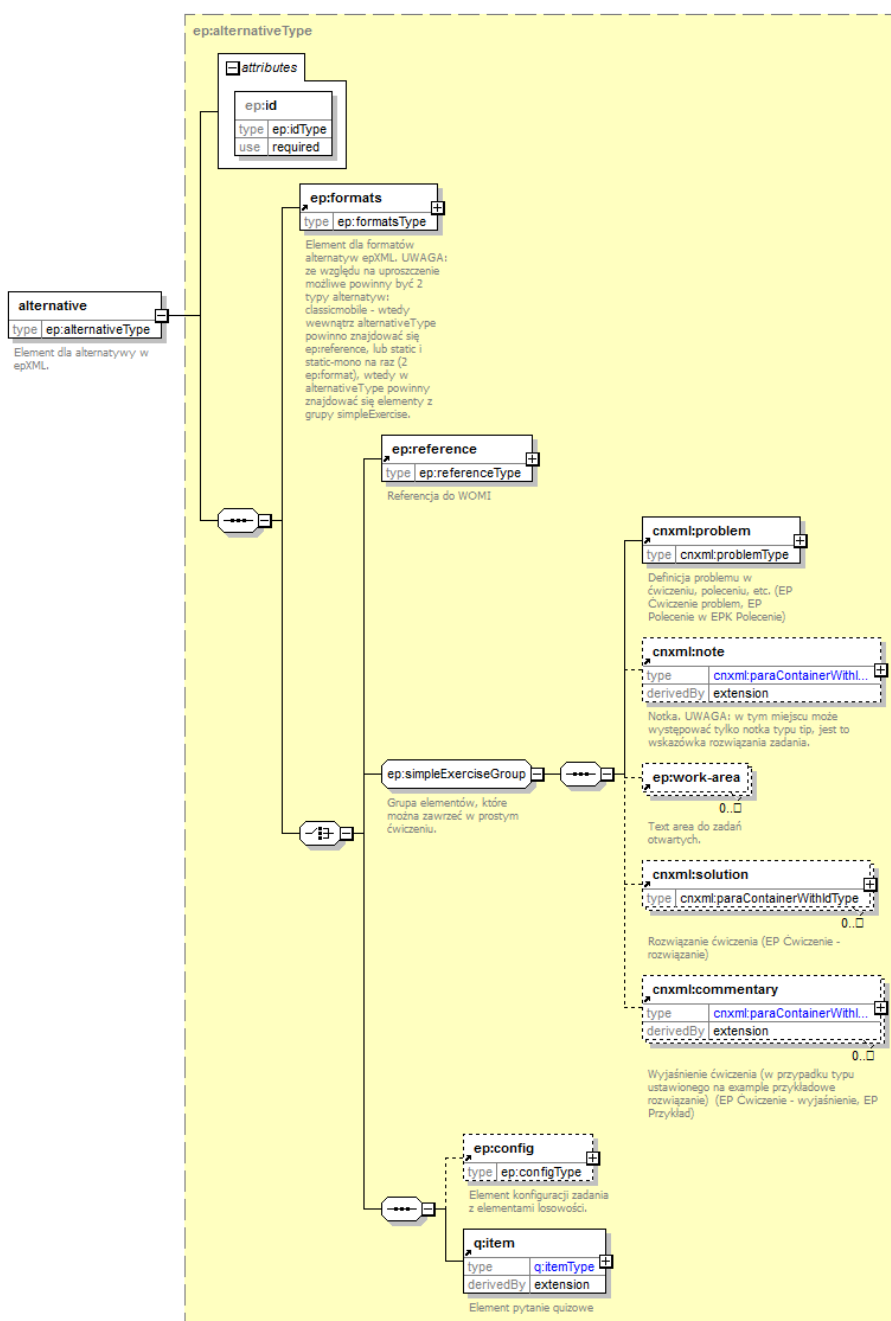
	<pre> <xs:maxLength value="140"/> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </pre>

simpleType WOMlidType

namespace	http://cnx.rice.edu/cnxml		
type	restriction of xs:string		
properties	base	xs:string	
facets	Kind pattern	Value [0-9]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora WOMI z RT.
annotation	documentation Identyfikator WOMI		
source	<pre> <xs:simpleType name="WOMlidType"> <xs:annotation> <xs:documentation>Identyfikator WOMI</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="[0-9]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora WOMI z RT.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType> </pre>		

element **alternative**

diagram



namespace	http://epodreczniki.pl/					
type	ep:alternativeType					
properties	content complex					
children	ep:formats ep:reference cnxml:problem cnxml:note ep:work-area cnxml:solution cnxml:commentary ep:config q:item					
used by	complexType	alternativesType				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation

annotation	documentation Element dla alternatywy w epXML.
source	<pre><xs:element name="alternative" type="ep:alternativeType"> <xs:annotation> <xs:documentation>Element dla alternatywy w epXML.</xs:documentation> </xs:annotation> </xs:element></pre>

element alternatives

diagram	alternatives type: ep:alternativesType Element alternatyw w epXML. UWAGA: w chwili obecnej stosowane tylko i wyłącznie w odniesieniu do zawartości elementu exercise. UWAGA: w ep:alternatives nie mogą występować dwie ep:alternative dla tej samej wartości ep:format. ep:alternative type: ep:alternativeType W ramach alternatyw może znajdować się między 2, a 3 alternatywy dla każdego z formatów emisyjnych. UWAGA: na chwilę obecną w trakcie konwersji powstaje alternatywa dla formatów dynamicznych (classimobile) oraz dla formatów statycznych (static oraz static-mono).
namespace	http://epodreczniki.pl/
type	ep:alternativesType
properties	content complex
children	ep:alternative
used by	complexType exerciseType
annotation	documentation Element alternatyw w epXML. UWAGA: w chwili obecnej stosowane tylko i wyłącznie w odniesieniu do zawartości elementu exercise. UWAGA: w ep:alternatives nie mogą występować dwie ep:alternative dla tej samej wartości ep:format.
source	<pre><xs:element name="alternatives" type="ep:alternativesType"> <xs:annotation> <xs:documentation>Element alternatyw w epXML. UWAGA: w chwili obecnej stosowane tylko i wyłącznie w odniesieniu do zawartości elementu exercise. UWAGA: w ep:alternatives nie mogą występować dwie ep:alternative dla tej samej wartości ep:format.</xs:documentation> </xs:annotation> </xs:element></pre>

element aside

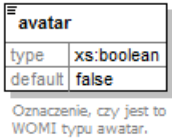
diagram	aside type: ep:asideType Oznaczenie, czy WOMI powinno być wypchnięte na prawą lub lewą stronę
namespace	http://epodreczniki.pl/
type	ep:asideType
properties	content simple

used by	complexType referenceType		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
annotation	documentation Oznaczenie, czy WOMI powinno być wypchnięte na prawą lub lewą stronę		
source	<pre><xs:element name="aside" type="ep:asideType"> <xs:annotation> <xs:documentation>Oznaczenie, czy WOMI powinno być wypchnięte na prawą lub lewą stronę</xs:documentation> </xs:annotation> </xs:element></pre>		

element **author**

diagram	
namespace	http://epodreczniki.pl/
type	xs:string
properties	content simple
used by	complexType quoteType
annotation	documentation Autor cytatu (EP Autor)
source	<pre><xs:element name="author" type="xs:string"> <xs:annotation> <xs:documentation>Autor cytatu (EP Autor)</xs:documentation> </xs:annotation> </xs:element></pre>

element **avatar**

diagram	
namespace	http://epodreczniki.pl/
type	xs:boolean
properties	content simple default false
used by	complexType referenceType
annotation	documentation Oznaczenie, czy jest to WOMI typu awatar.
source	<pre><xs:element name="avatar" type="xs:boolean" default="false"> <xs:annotation> <xs:documentation>Oznaczenie, czy jest to WOMI typu awatar.</xs:documentation> </xs:annotation></pre>

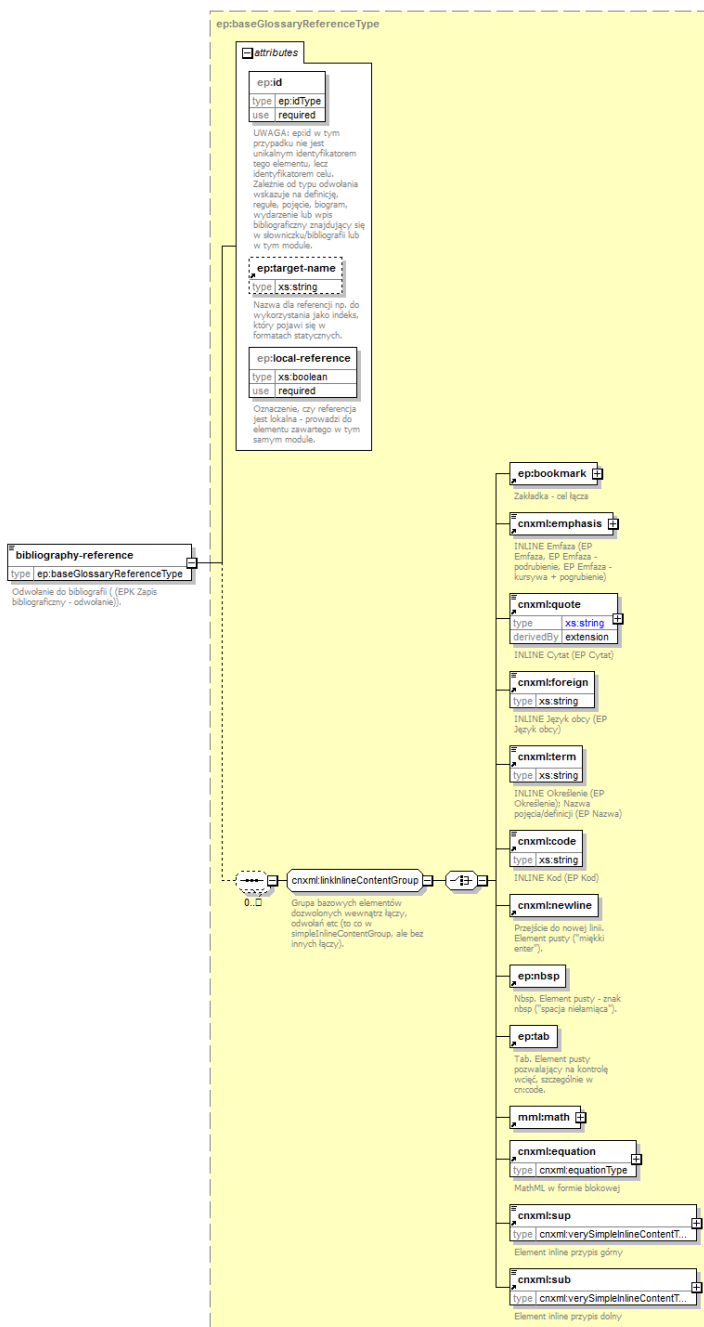
	</xs:element>

element behaviour

diagram	behaviour type ep:behaviourType Element dla sposób przetwarzania odpowiedzi w zadaniu z elementami losowości.												
namespace	http://epodreczniki.pl/												
type	ep:behaviourType												
properties	content simple												
used by	complexType configType												
facets	<table><thead><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr></thead><tbody><tr><td>enumeration</td><td>randomize</td><td></td></tr><tr><td>enumeration</td><td>randomize-sets</td><td></td></tr><tr><td>enumeration</td><td>all-sets</td><td></td></tr></tbody></table>	Kind	Value	Annotation	enumeration	randomize		enumeration	randomize-sets		enumeration	all-sets	
Kind	Value	Annotation											
enumeration	randomize												
enumeration	randomize-sets												
enumeration	all-sets												
annotation	documentation Element dla sposób przetwarzania odpowiedzi w zadaniu z elementami losowości.												
source	<pre><xs:element name="behaviour" type="ep:behaviourType"> <xs:annotation> <xs:documentation>Element dla sposób przetwarzania odpowiedzi w zadaniu z elementami losowości.</xs:documentation> </xs:annotation> </xs:element></pre>												

element bibliography-reference

diagram



namespace	http://epodreczniki.pl/					
type	ep:baseGlossaryReferenceType					
properties	content mixed	complex true				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	group	simpleInlineContentGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation documentation UWAGA: ep:id w tym

	ep:target-name xs:string ep:local-reference xs:boolean required	przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module. documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
annotation	documentation Odwołanie do bibliografii ((EPK Zapis bibliograficzny - odwołanie)).	
source	<pre><xs:element name="bibliography-reference" type="ep:baseGlossaryReferenceType"> <xs:annotation> <xs:documentation>Odwołanie do bibliografii ((EPK Zapis bibliograficzny - odwołanie)).</xs:documentation> </xs:annotation> </xs:element></pre>	

element bibliographyPattern

diagram	
namespace	http://epodreczniki.pl/
type	ep:bibliographyPatternType
properties	content complex mixed true
children	ep:title ep:author ep:booktitle ep:year ep:key ep:edition ep:organization ep:address ep:series ep:editor ep:publisher ep:number ep:journal ep:note ep:howpublished ep:pages
used by	complexTypes articleType incollectionFreeType incollectionType manualType miscType unpublishedType
annotation	documentation Element wzoru wstawiania bibliografii.
source	<pre> <xs:element name="bibliographyPattern" type="ep:bibliographyPatternType"> <xs:annotation> <xs:documentation>Element wzoru wstawiania bibliografii.</xs:documentation> </xs:annotation> </xs:element> </pre>

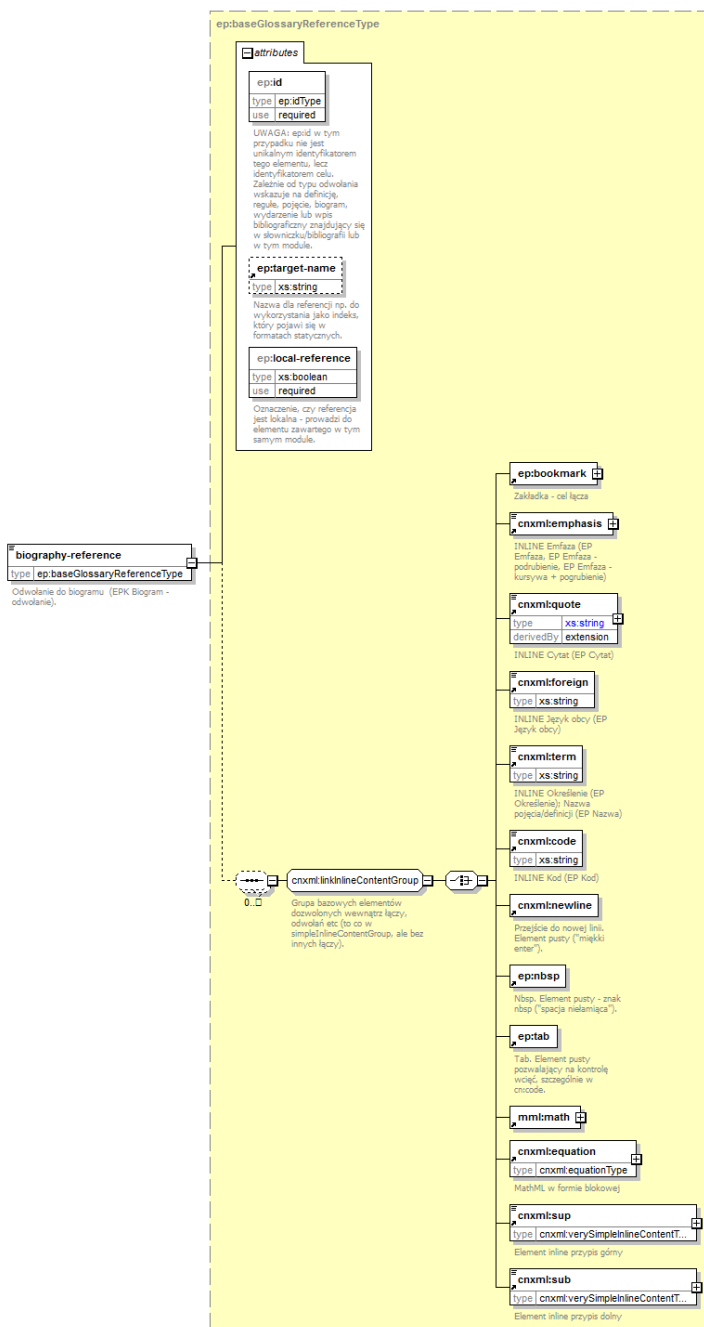
element biography

diagram	ep:biographyType attributes ep:id type: ep:idType use: required ep:glossary type: xs:boolean use: required Oznaczenie, czy element ma trafić do słownika, czy nie children ep:name type: cnxmt:simplelineContentType Imię i nazwisko (EP Name) ep:sorting-key type: xs:string Klucz sortowania ep:birth type: ep:startEndType Element urodzenie ep:death type: ep:startEndType Element śmierć ep:reference type: ep:referenceType Referencja do WOM1. UWAGA: Referencja WOM1 w biografii ma ograniczoną liczbę właściwości. Elementy, które należy uwzględnić to: epreading-room, epzoomable, ephide-caption oraz ep:content. Uwaga ta dotyczy się również referencji do WOM1 zawartych w epigallery w biografii. ep:gallery type: ep:galleryType Galeria WOM1. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerii: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista video. Atrybuty galerii: slideshow (A): id [R], start-on, thumbnails, titles, format-contents, Atrybuty galerii grid (B): id [R], view-width [R], view-height [R], Atrybuty galerii miniatures (C): id [R], miniatures-only [R]=true, thumbnails, titles, format-contents, Atrybuty galerii playlist (D): id [R], start-on, thumbnails, titles, format-contents, playlist [R]. UWAGA: Galeria WOM1 wewnątrz biografii ma ograniczoną liczbę opcji. Atrybuty przyjmują stałe wartości: epminiatures-only="true", epformat-contents="hide-no-mat", a tytuł jest kopią zawartości epname. ep:content type: ep:paraContainerWithIdType Zawartość biografii. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOM1. biography type: ep:biographyType Element biogram (EPK Biogram)					
namespace	http://epodreczniki.pl/					
type	ep:biographyType					
properties	content complex					
children	ep:name ep:sorting-key ep:birth ep:death ep:reference ep:gallery ep:content					
used by	group sectionElementGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:glossary	xs:boolean	required			documentation Oznaczenie,

		czy element ma trafić do słowniczka, czy nie
annotation	documentation Element biogram (EPK Biogram)	
source	<pre><xs:element name="biography" type="ep:biographyType"> <xs:annotation> <xs:documentation>Element biogram (EPK Biogram)</xs:documentation> </xs:annotation> </xs:element></pre>	

element biography-reference

diagram



namespace	http://epodreczniki.pl/					
type	ep:baseGlossaryReferenceType					
properties	content mixed	complex true				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	group	simpleInlineContentGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation documentation UWAGA: ep:id w tym

	ep:target-name xs:string ep:local-reference xs:boolean required	przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module. documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
annotation	documentation Odwołanie do biogramu (EPK Biogram - odwołanie).	
source	<pre><xs:element name="biography-reference" type="ep:baseGlossaryReferenceType"> <xs:annotation> <xs:documentation>Odwołanie do biogramu (EPK Biogram - odwołanie).</xs:documentation> </xs:annotation> </xs:element></pre>	

element birth

diagram		
namespace	http://epodreczniki.pl/	
type	ep:startEndType	
properties	content complex	
children	ep:date ep:location	
used by	complexType biographyType	
annotation	documentation Element urodzenie	
source	<pre><xs:element name="birth" type="ep:startEndType"> <xs:annotation> <xs:documentation>Element urodzenie</xs:documentation> </xs:annotation></pre>	

	</xs:element>

element bookmark

diagram						
namespace	http://epodreczniki.pl/					
properties	content complex					
used by	groups linkInlineContentGroup sectionElementGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:name	xs:string	required			documentation Nazwa zakładki pozwalająca zorganizować edycję łączy w sposób wygodniejszy dla użytkownika.
annotation	documentation Zakładka - cel łącza					
source	<pre><xs:element name="bookmark"> <xs:annotation> <xs:documentation>Zakładka - cel łącza</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="name" type="xs:string" use="required"> <xs:annotation> <xs:documentation>Nazwa zakładki pozwalająca zorganizować edycję łączy w sposób wygodniejszy dla użytkownika.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element></pre>					

attribute bookmark/@id

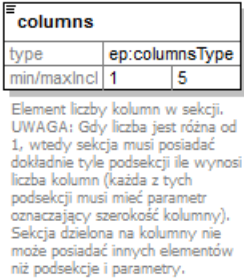
namespace	http://epodreczniki.pl/
type	idType
properties	use required

facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **bookmark/@name**

namespace	http://epodreczniki.pl/
type	xs:string
properties	use required
annotation	documentation Nazwa zakładki pozwalająca zorganizować edycję łączy w sposób wygodniejszy dla użytkownika.
source	<xs:attribute name="name" type="xs:string" use="required"> <xs:annotation> <xs:documentation>Nazwa zakładki pozwalająca zorganizować edycję łączy w sposób wygodniejszy dla użytkownika.</xs:documentation> </xs:annotation> </xs:attribute>

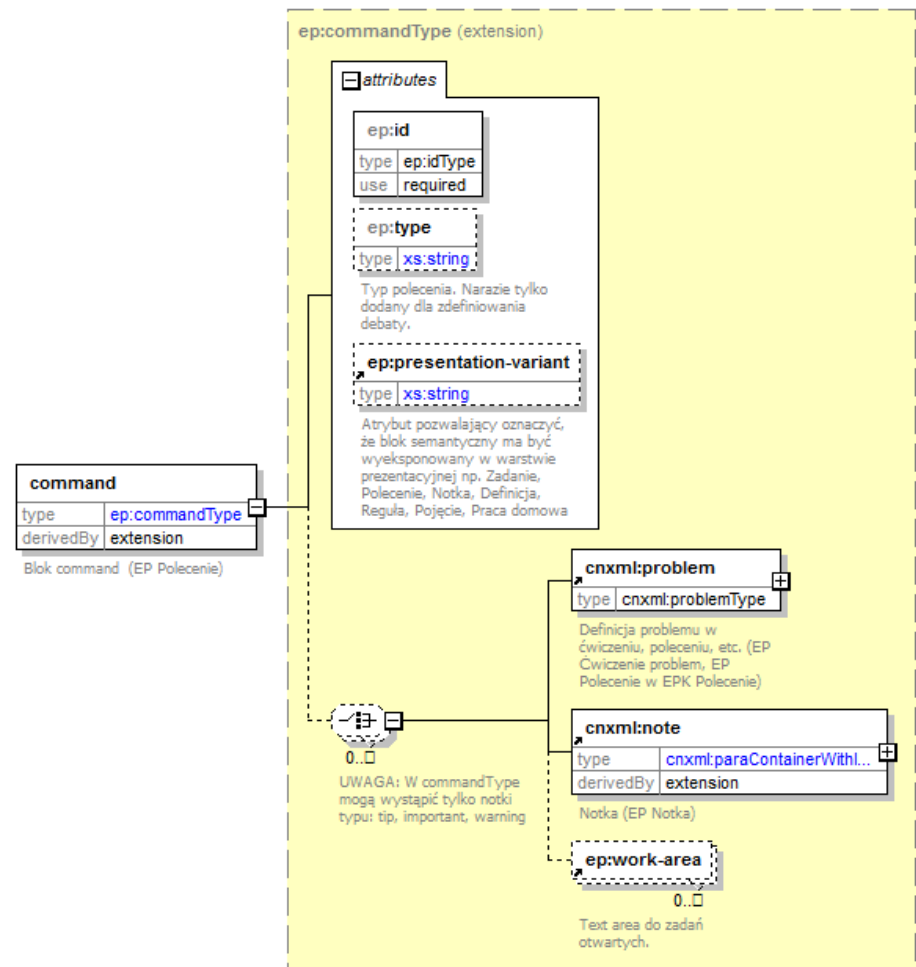
element **columns**

diagram	 Element liczby kolumn w sekcji. UWAGA: Gdy liczba jest różna od 1, wtedy sekcja musi posiadać dokładnie tyle podsekcji ile wynosi liczba kolumn (każda z tych podsekcji musi mieć parametr oznaczający szerokość kolumny). Sekcja dzielona na kolumny nie może posiadać innych elementów niż podsekcje i parametry.		
namespace	http://epodreczniki.pl/		
type	ep:columnsType		
properties	content simple		
used by	complexType firstLevelSectionParametersType		
facets	Kind	Value	Annotation
	minInclusive	1	
	maxInclusive	5	
annotation	documentation Element liczby kolumn w sekcji. UWAGA: Gdy liczba jest różna od 1, wtedy sekcja musi posiadać dokładnie tyle podsekcji ile wynosi liczba kolumn (każda z tych podsekcji musi mieć parametr oznaczający szerokość kolumny). Sekcja dzielona na kolumny nie może posiadać innych elementów niż podsekcje i parametry.		
source	<xs:element name="columns" type="ep:columnsType"> <xs:annotation> <xs:documentation>Element liczby kolumn w sekcji. UWAGA: Gdy liczba jest różna od 1, wtedy sekcja musi posiadać dokładnie tyle podsekcji ile wynosi liczba kolumn (każda z tych podsekcji musi mieć parametr oznaczający szerokość kolumny). Sekcja dzielona na kolumny nie może posiadać innych elementów niż podsekcje i parametry.</xs:documentation> </xs:annotation>		

</xs:annotation>
</xs:element>

element **command**

diagram



namespace <http://epodreczniki.pl/>

type extension of [ep:commandType](#)

properties content complex

children [cnxml:problem](#) [cnxml:note](#) [ep:work-area](#)

used by complexType [student-workType](#)
group [sectionElementGroup](#)

attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:type	derived by: xs:string				documentation Typ polecenia. Narazie tylko dodany dla zdefiniowania debaty.
	ep:presentation-variant	derived by: xs:string				documentation Atrybut pozwalaający oznaczyć, że

		blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Blok command (EP Polecenie)	
source	<pre> <xs:element name="command"> <xs:annotation> <xs:documentation>Blok command (EP Polecenie)</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="ep:commandType"/> </xs:complexContent> </xs:complexType> </xs:element> </pre>	

element comment

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexType quoteType					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Komentarz do cytatu (EP Cytat akapit - komentarz)					
source	<pre> <xs:element name="comment" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Komentarz do cytatu (EP Cytat akapit - komentarz)</xs:documentation> </xs:annotation> </xs:element> </pre>					

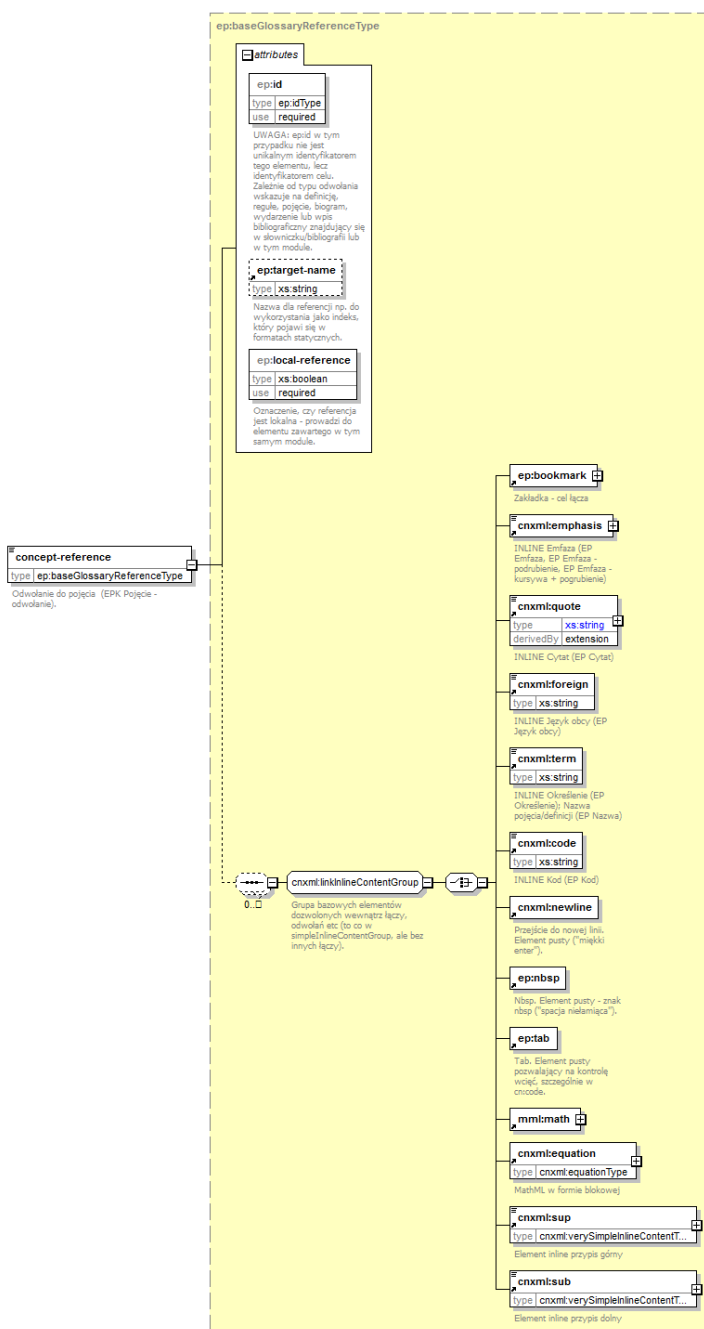
element concept

diagram						
namespace	http://epodreczniki.pl/					
type	cnxml:definitionType					
properties	content complex					
children	cnxml:term cnxml:meaning cnxml:example ep:source					
used by	group sectionElementGroup					
attributes	Name id ep:glossary ep:presentation-variant	Type idType xs:boolean derived by: xs:string	Use required required	Default	Fixed	Annotation documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być

		wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Pojęcie (EPK Pojęcie)	
source	<pre><xs:element name="concept" type="cnxml:definitionType"> <xs:annotation> <xs:documentation>Pojęcie (EPK Pojęcie)</xs:documentation> </xs:annotation> </xs:element></pre>	

element concept-reference

diagram



namespace	http://epodreczniki.pl/					
type	ep:baseGlossaryReferenceType					
properties	content mixed	complex true				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	group	simpleInlineContentGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation documentation UWAGA: ep:id w tym

	ep:target-name xs:string ep:local-reference xs:boolean required	przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module. documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
annotation	documentation Odwołanie do pojęcia (EPK Pojęcie - odwołanie).	
source	<pre><xs:element name="concept-reference" type="ep:baseGlossaryReferenceType"> <xs:annotation> <xs:documentation>Odwołanie do pojęcia (EPK Pojęcie - odwołanie).</xs:documentation> </xs:annotation> </xs:element></pre>	

element conclusions

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexTypees experimentType observationType					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation

annotation	documentation Element podsumowanie z doświadczenia/obserwacji (EP Doświadczenie - podsumowanie)
source	<pre><xs:element name="conclusions" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element podsumowanie z doświadczenia/obserwacji (EP Doświadczenie - podsumowanie)</xs:documentation> </xs:annotation> </xs:element></pre>

element config

diagram	The diagram illustrates the structure of the ep:configType element. It is a complex type containing four child elements: ep:behaviour: Element dla sposobu przetwarzania odpowiedzi w zadaniu z elementami losowości. Type: ep:behaviourType. ep:presented-answers: Element dla liczby prezentowanych odpowiedzi w zadaniu z elementami losowości. UWAGA: dozwolone wartości dla liczby prezentowanych odpowiedzi zależą od wartości ep:behaviour oraz count(q:item/q:answer). Type: xs:positiveInteger, derived by restriction, min/maxIncl: 2. ep:correct-in-set: Element dla liczby poprawnych odpowiedzi w zestawie w zadaniu z elementami losowości w momencie, gdy mamy doczynienia z pytaniem wielokrotnej odpowiedzi. UWAGA: zakres zależy od ep:presented-answers oraz count(q:item/q:answer). Type: xs:string, derived by restriction, pattern: (\\d+-)?[1-9]\\d*. ep:presentation-style: Element określający typ prezentowania odpowiedzi w przypadku zadań z elementami losowości. Uwaga: ma zastosowanie w przypadku, gdy mamy do czynienia z q:item/@type='multiple-response'. Type: xs:string, derived by restriction. The entire structure is enclosed in a dashed box labeled ep:configType.
namespace	http://epodreczniki.pl/
type	ep:configType
properties	content complex
children	ep:behaviour ep:presented-answers ep:correct-in-set ep:presentation-style
used by	complexType alternativeType

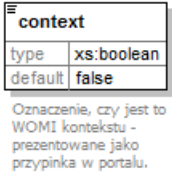
annotation	documentation Element konfiguracji zadania z elementami losowości.
source	<pre> <xs:element name="config" type="ep:configType"> <xs:annotation> <xs:documentation>Element konfiguracji zadania z elementami losowości.</xs:documentation> </xs:annotation> </xs:element> </pre>

element content

diagram									
namespace	http://epodreczniki.pl/								
type	ep:contentType								
properties	content	complex							
	mixed	true							
children	m:math cnxml:newline ep:nbsp cnxml:emphasis bib:entry								
used by	group	contentGroup							
attributes	Name	Type	Use	Default	Fixed	Annotation			
	ep:id	idType	required						
	ep:format	derived by: xs:string	required			documentation Format dla którego			

	przeznaczony jest tekst skojarzony.
annotation	documentation Tekst skojarzony z WOMI lub galerią WOMI.
source	<pre><xs:element name="content" type="ep:contentType"> <xs:annotation> <xs:documentation>Tekst skojarzony z WOMI lub galerią WOMI.</xs:documentation> </xs:annotation> </xs:element></pre>

element context

diagram	 Oznaczenie, czy jest to WOMI kontekstu - prezentowane jako przypinka w portalu.
namespace	http://epodreczniki.pl/
type	xs:boolean
properties	content simple default false
used by	complexType referenceType
annotation	documentation Oznaczenie, czy jest to WOMI kontekstu - prezentowane jako przypinka w portalu.
source	<pre><xs:element name="context" type="xs:boolean" default="false"> <xs:annotation> <xs:documentation>Oznaczenie, czy jest to WOMI kontekstu - prezentowane jako przypinka w portalu.</xs:documentation> </xs:annotation> </xs:element></pre>

element **core-curriculum-ability**

diagram	core-curriculum-ability <table><tr><td>type</td><td>ep:core-curriculum-ability...</td></tr><tr><td>derivedBy</td><td>extension</td></tr></table> Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć). ep:core-curriculum-abilityType (extension) attributes <table><tr><td>ep:key</td><td>type xs:string</td><td>use required</td></tr></table> content model: - Choice (0..1): - mml:math - Sequence: - cnxml:sup (type cnxml:verySimpleInlineContentT..., Element inline przypis górný) - cnxml:sub (type cnxml:verySimpleInlineContentT..., Element inline przypis dolný) attributes <table><tr><td>ep:core-curriculum-main</td><td>type xs:boolean</td><td>use optional</td></tr></table>						type	ep:core-curriculum-ability...	derivedBy	extension	ep:key	type xs:string	use required	ep:core-curriculum-main	type xs:boolean	use optional
type	ep:core-curriculum-ability...															
derivedBy	extension															
ep:key	type xs:string	use required														
ep:core-curriculum-main	type xs:boolean	use optional														
namespace	http://epodreczniki.pl/															
type	extension of ep:core-curriculum-abilityType															
properties	content complex															
children	m:math cnxml:sup cnxml:sub															
used by	complexType core-curriculum-entryType															
attributes	Name	Type	Use	Default	Fixed	Annotation										
	ep:key	xs:string	required													
	ep:core-curriculum-main	xs:boolean	optional													
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).															
source	<pre><xs:element name="core-curriculum-ability"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="ep:core-curriculum-abilityType"> <xs:attribute name="core-curriculum-main" type="xs:boolean" use="optional"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element></pre>															

attribute **core-curriculum-ability/@core-curriculum-main**

namespace	http://epodreczniki.pl/
type	xs:boolean
properties	use optional
source	<code><xs:attribute name="core-curriculum-main" type="xs:boolean" use="optional"/></code>

element **core-curriculum-entries**

diagram	
namespace	http://epodreczniki.pl/
type	ep:core-curriculum-entriesType
properties	content complex
children	ep:core-curriculum-entry
used by	complexType e-textbook-moduleType
annotation	documentation Element dla grupy wpisów zgodnych z podstawą programową pochodzących z USPP
source	<pre> <xs:element name="core-curriculum-entries" type="ep:core-curriculum-entriesType"> <xs:annotation> <xs:documentation>Element dla grupy wpisów zgodnych z podstawą programową pochodzących z USPP</xs:documentation> </xs:annotation> </xs:element> </pre>

element **core-curriculum-entry**

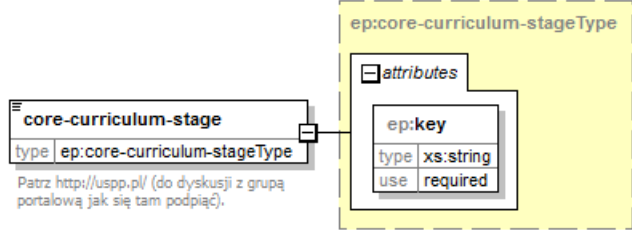
diagram	
namespace	http://epodreczniki.pl/
type	ep:core-curriculum-entryType
properties	content complex
children	ep:core-curriculum-stage ep:core-curriculum-school ep:core-curriculum-subject ep:core-curriculum-version ep:core-curriculum-ability
used by	complexType core-curriculum-entriesType
annotation	documentation Element dla wpisu zgodnego z podstawą programową pochodzącą z USPP
source	<pre><xs:element name="core-curriculum-entry" type="ep:core-curriculum-entryType"> <xs:annotation> <xs:documentation>Element dla wpisu zgodnego z podstawą programową pochodzącą z USPP</xs:documentation> </xs:annotation> </xs:element></pre>

element **core-curriculum-school**

diagram	

namespace	http://epodreczniki.pl/					
type	ep:core-curriculum-schoolType					
properties	content complex					
used by	complexType core-curriculum-entryType					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre><xs:element name="core-curriculum-school" type="ep:core-curriculum-schoolType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> </xs:element></pre>					

element **core-curriculum-stage**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:core-curriculum-stageType					
properties	content complex					
used by	complexType core-curriculum-entryType					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre><xs:element name="core-curriculum-stage" type="ep:core-curriculum-stageType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> </xs:element></pre>					

element **core-curriculum-subject**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:core-curriculum-subjectType					
properties	content complex					
used by	complexType core-curriculum-entryType					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre><xs:element name="core-curriculum-subject" type="ep:core-curriculum-subjectType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> </xs:element></pre>					

element **core-curriculum-version**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:core-curriculum-versionType					
properties	content complex					
used by	complexType core-curriculum-entryType					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre><xs:element name="core-curriculum-version" type="ep:core-curriculum-versionType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> </xs:element></pre>					

element correct-in-set

diagram	correct-in-set type xs:string derivedBy restriction pattern (\d+-)?[1-9]\d* Element dla liczby poprawnych odpowiedzi w zestawie w zadaniu z elementami losowości w momencie, gdy mamy doczynienia z pytaniem wielokrotnej odpowiedzi. UWAGA: zakres zależy od ep:presented-answers oraz count(q:item/q:answer).						
namespace	http://epodreczniki.pl/						
type	restriction of xs:string						
properties	content simple						
used by	complexType configType						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>pattern</td><td>(\d+-)?[1-9]\d*</td><td></td></tr></table>	Kind	Value	Annotation	pattern	(\d+-)?[1-9]\d*	
Kind	Value	Annotation					
pattern	(\d+-)?[1-9]\d*						
annotation	documentation Element dla liczby poprawnych odpowiedzi w zestawie w zadaniu z elementami losowości w momencie, gdy mamy doczynienia z pytaniem wielokrotnej odpowiedzi. UWAGA: zakres zależy od ep:presented-answers oraz count(q:item/q:answer).						
source	<xs:element name="correct-in-set"> <xs:annotation> <xs:documentation>Element dla liczby poprawnych odpowiedzi w zestawie w zadaniu z elementami losowości w momencie, gdy mamy doczynienia z pytaniem wielokrotnej odpowiedzi. UWAGA: zakres zależy od ep:presented-answers oraz count(q:item/q:answer).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="(\d+-)?[1-9]\d*" /> </xs:restriction> </xs:simpleType> </xs:element>						

element **date**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:dateType					
properties	content complex					
children	ep:date-start ep:date-end					
used by	complexType startEndType					
attributes	Name ep:type	Type derived by: xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Element data					
source	<pre><xs:element name="date" type="ep:dateType"> <xs:annotation> <xs:documentation>Element data</xs:documentation> </xs:annotation> </xs:element></pre>					

element **death**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:startEndType					
properties	content complex					
children	ep:date ep:location					

used by	complexType biographyType
annotation	documentation Element śmierć
source	<pre><xs:element name="death" type="ep:startEndType"> <xs:annotation> <xs:documentation>Element śmierć</xs:documentation> </xs:annotation> </xs:element></pre>

element **demonstration**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexTypes experimentType observationType					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Element zawierający zilustrowanie całego procesu doświadczenia/obserwacji					
source	<pre><xs:element name="demonstration" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element zawierający zilustrowanie całego procesu doświadczenia/obserwacji</xs:documentation> </xs:annotation> </xs:element></pre>					

element disabled-alternative-reference

diagram						
namespace	http://epodreczniki.pl/					
properties	content complex					
used by	complexType referenceType					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation documentation UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Wskazuje na tooltip z opisem alternatywnym dla niepełnosprawnych w tym module.
annotation	documentation Odwwołanie do dymka z tekstem alternatywnym (EPK Dymek - odwołanie).					
source	<pre> <xs:element name="disabled-alternative-reference"> <xs:annotation> <xs:documentation>Odwwołanie do dymka z tekstem alternatywnym (EPK Dymek - odwołanie).</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"> <xs:annotation> <xs:documentation>UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Wskazuje na tooltip z opisem alternatywnym dla niepełnosprawnych w tym module.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>					

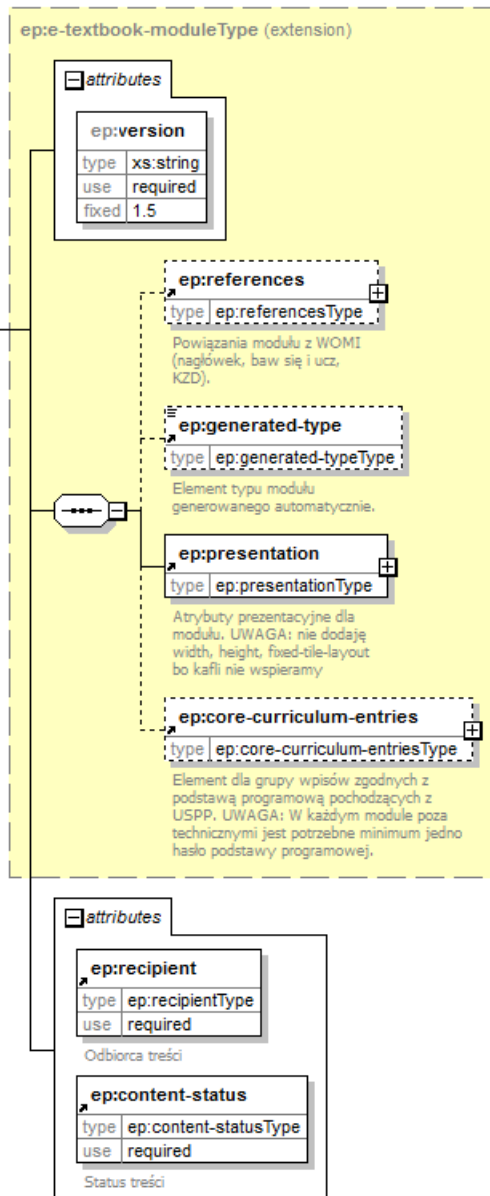
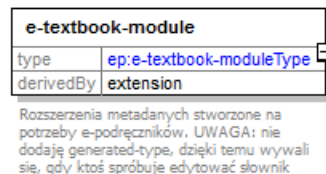
attribute disabled-alternative-reference/@id

namespace	http://epodreczniki.pl/				
type	idType				
properties	use required				
facets	Kind pattern	Value i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez		

	pattern [a-zA-Z0-9_]+ konwerter. documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Wskazuje na tooltip z opisem alternatywnym dla niepełnosprawnych w tym module.
source	<pre> <xs:attribute name="id" type="ep:idType" use="required"> <xs:annotation> <xs:documentation>UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Wskazuje na tooltip z opisem alternatywnym dla niepełnosprawnych w tym module.</xs:documentation> </xs:annotation> </xs:attribute> </pre>

element e-textbook-module

diagram



namespace <http://epodreczniki.pl/>

type extension of [ep:e-textbook-moduleType](#)

properties content complex

children [ep:references](#) [ep:generated-type](#) [ep:presentation](#) [ep:core-curriculum-entries](#)

used by complexType [metadataType](#)

attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:version	xs:string	required		1.5	
	ep:recipient	ep:recipientType	required			documentation Odbiorca treści
	ep:content-status	ep:content-statusType	required			documentation Status treści

annotation	documentation Rozszerzenia metadanych stworzone na potrzeby e-podręczników. UWAGA: nie dodaję generated-type, dzięki temu wywali się, gdy ktoś spróbuje edytować słownik
source	<pre> <xs:element name="e-textbook-module"> <xs:annotation> <xs:documentation>Rozszerzenia metadanych stworzone na potrzeby e-podręczników. UWAGA: nie dodaję generated-type, dzięki temu wywali się, gdy ktoś spróbuje edytować słownik</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="ep:e-textbook-moduleType"> <xs:attribute ref="ep:recipient" use="required"/> <xs:attribute ref="ep:content-status" use="required"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>

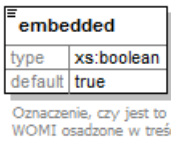
element effect

diagram						
namespace	http://epodreczniki.pl/					
type	ep:effectType					
properties	content complex					
children	cnxml:para					
used by	group sectionElementGroup					
attributes	Name ep:id ep:type	Type idType derived by: xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Blok effect (EP Nauczysz się)					
source	<pre> <xs:element name="effect" type="ep:effectType"> <xs:annotation> <xs:documentation>Blok effect (EP Nauczysz się)</xs:documentation> </xs:annotation> </xs:element> </pre>					

element effect-of-education

diagram	effect-of-education type xs:string derivedBy restriction Efekt kształcenia wykorzystywany przez matematyków w ćwiczeniach															
namespace	http://epodreczniki.pl/															
type	restriction of xs:string															
properties	content simple															
used by	complexType exerciseType															
facets	<table><thead><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr></thead><tbody><tr><td>enumeration</td><td>A</td><td></td></tr><tr><td>enumeration</td><td>B</td><td></td></tr><tr><td>enumeration</td><td>C</td><td></td></tr><tr><td>enumeration</td><td>K</td><td></td></tr></tbody></table>	Kind	Value	Annotation	enumeration	A		enumeration	B		enumeration	C		enumeration	K	
Kind	Value	Annotation														
enumeration	A															
enumeration	B															
enumeration	C															
enumeration	K															
annotation	documentation Efekt kształcenia wykorzystywany przez matematyków w ćwiczeniach															
source	<pre><xs:element name="effect-of-education"> <xs:annotation> <xs:documentation>Efekt kształcenia wykorzystywany przez matematyków w ćwiczeniach</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="A"/> <xs:enumeration value="B"/> <xs:enumeration value="C"/> <xs:enumeration value="K"/> </xs:restriction> </xs:simpleType> </xs:element></pre>															

element embedded

diagram	
namespace	http://epodreczniki.pl/
type	xs:boolean
properties	content simple default true
used by	complexType referenceType
annotation	documentation Oznaczenie, czy jest to WOMI osadzone w treści.

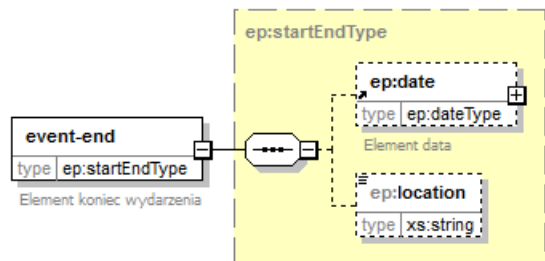
source	<pre><xs:element name="embedded" type="xs:boolean" default="true"> <xs:annotation> <xs:documentation>Oznaczenie, czy jest to WOMI osadzone w treści.</xs:documentation> </xs:annotation> </xs:element></pre>

element **event**

diagram	The diagram illustrates the structure of the <code>ep:eventType</code> element. It is a class-like structure with the following components: Attributes: <code>ep:id</code>: type <code>ep:idType</code>, required. <code>ep:glossary</code>: type <code>xs:boolean</code>, required. Description: Oznaczenie, czy element ma trafić do słownika, czy nie. <code>ep:name</code>: type <code>cnxml:simpleLineContentType</code>, required. Description: Nazwa (EP Nazwa). <code>ep:sorting-key</code>: type <code>xs:string</code>. Description: Klucz sortowania. <code>ep:event-start</code>: type <code>ep:startEndType</code>. Description: Element początek wydarzenia. <code>ep:event-end</code>: type <code>ep:startEndType</code>. Description: Element koniec wydarzenia. <code>ep:reference</code>: type <code>ep:referenceType</code>. Description: Referencja do WOMI. UWAGA: Referencja WOMI w wydarzeniu ma ograniczoną liczbę właściwości. Elementy, które należy uwzględnić to: <code>ep:reading-room</code>, <code>ep:zoomable</code>, <code>ep:hide-caption</code> oraz <code>ep:content</code>. Uwaga ta dotyczy się również referencji do WOMI zawartych w <code>ep:gallery</code> w wydarzeniu. <code>ep:gallery</code>: type <code>ep:galleryType</code>. Description: Galeria WOMI. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerie: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista video. Atrybuty galerii: <code>slideshow</code> (A): id [R], <code>start-on</code>, <code>thumbnails</code>, <code>titles</code>, <code>format-content</code>. Atrybuty galerii <code>grid</code> (B): id [R], <code>view-width</code> [R], <code>view-height</code> [R]. Atrybuty galerii <code>miniatures</code> (C): id [R], <code>miniatures-only</code> [R]=true, <code>thumbnails</code>, <code>titles</code>, <code>format-content</code>. Atrybuty galerii <code>playlist</code> (D): id [R], <code>start-on</code>, <code>thumbnails</code>, <code>titles</code>, <code>format-content</code>, <code>playlist</code> [R]. UWAGA: Galeria WOMI wewnątrz wydarzenia ma ograniczoną liczbę opcji. Atrybuty przyjmują stałe wartości: <code>ep:miniatures-only</code>=true, <code>ep:format-content</code>=hide-no-rmml, a tytuł jest kopią zawartości <code>ep:name</code>. <code>ep:content</code>: type <code>ep:paraContainerWithIdType</code>. Description: Zawartość wydarzenia. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z <code>ep:content</code> wchodzący w skład referencji WOMI. A small <code>event</code> class is shown as a specialization of <code>ep:eventType</code>, with the description: Element wydarzenie (EPK Wydarzenie).
namespace	http://epodreczniki.pl/
type	ep:eventType

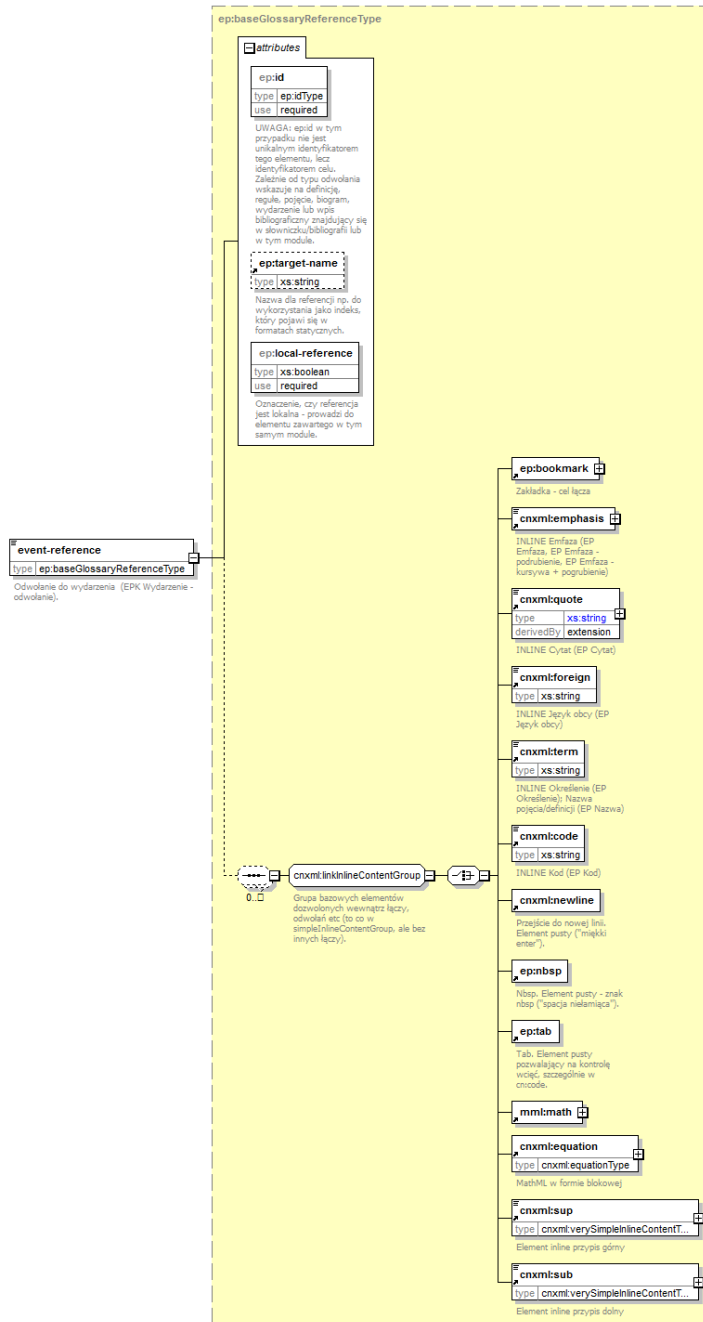
properties	content complex					
children	ep:name ep:sorting-key ep:event-start ep:event-end ep:reference ep:gallery ep:content					
used by	group	sectionElementGroup				
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:glossary	xs:boolean	required			documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie
annotation	documentation Element wydarzenie (EPK Wydarzenie)					
source	<pre><xs:element name="event" type="ep:eventType"> <xs:annotation> <xs:documentation>Element wydarzenie (EPK Wydarzenie)</xs:documentation> </xs:annotation> </xs:element></pre>					

element event-end

diagram	
namespace	http://epodreczniki.pl/
type	ep:startEndType
properties	content complex
children	ep:date ep:location
used by	complexType eventType
annotation	documentation Element koniec wydarzenia
source	<pre><xs:element name="event-end" type="ep:startEndType"> <xs:annotation> <xs:documentation>Element koniec wydarzenia</xs:documentation> </xs:annotation> </xs:element></pre>

element event-reference

diagram



namespace	http://epodreczniki.pl/					
type	ep:baseGlossaryReferenceType					
properties	content mixed	complex true				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	group	simpleInlineContentGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation documentation UWAGA: ep:id w tym

	ep:target-name xs:string ep:local-reference xs:boolean required	przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module. documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
annotation	documentation Odwołanie do wydarzenia (EPK Wydarzenie - odwołanie).	
source	<pre><xs:element name="event-reference" type="ep:baseGlossaryReferenceType"> <xs:annotation> <xs:documentation>Odwołanie do wydarzenia (EPK Wydarzenie - odwołanie).</xs:documentation> </xs:annotation> </xs:element></pre>	

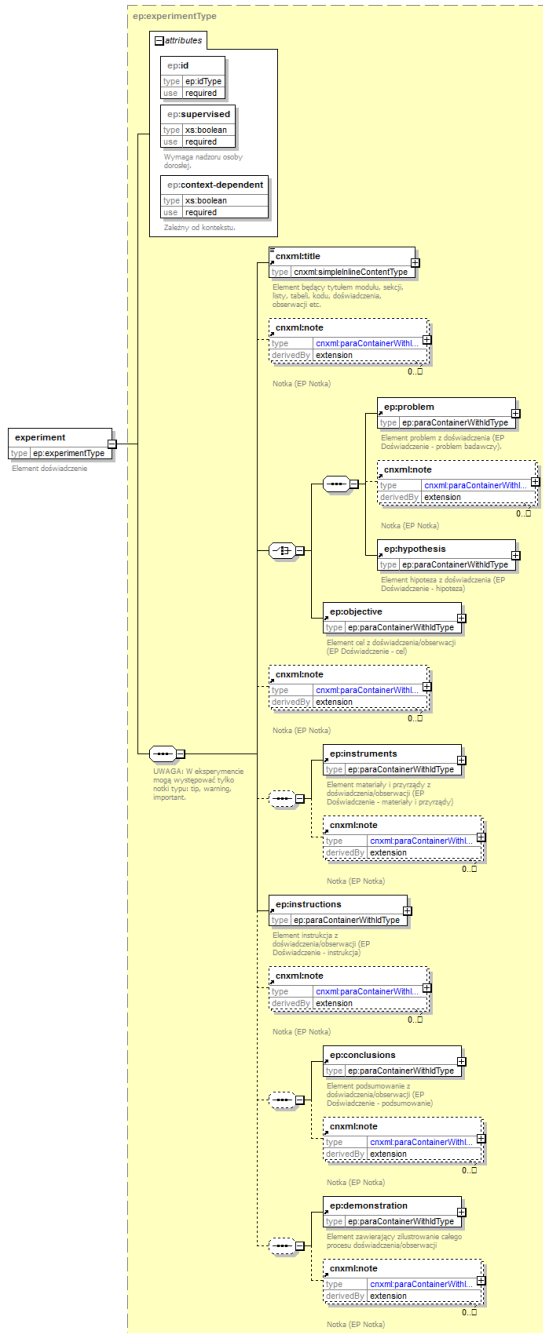
element **event-start**

diagram		
namespace	http://epodreczniki.pl/	
type	ep:startEndType	
properties	content complex	
children	ep:date ep:location	
used by	complexType eventType	
annotation	documentation Element początek wydarzenia	
source	<pre><xs:element name="event-start" type="ep:startEndType"> <xs:annotation> <xs:documentation>Element początek wydarzenia</xs:documentation> </xs:annotation> </xs:element></pre>	

</xs:annotation>
</xs:element>

element experiment

diagram



namespace <http://epodreczniki.pl/>

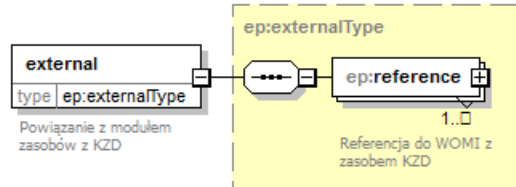
type [ep:experimentType](#)

properties content complex

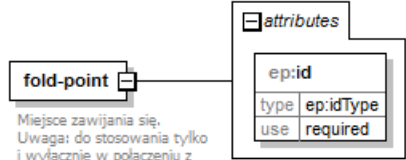
children [cnxml:title](#) [cnxml:note](#) [ep:problem](#) [ep:hypothesis](#) [ep:objective](#) [ep:instruments](#) [ep:instructions](#) [ep:conclusions](#)

	ep:demonstration					
used by	complexType group	student-workType sectionElementGroup				
attributes	Name ep:id ep:supervised ep:context-dependent	Type idType xs:boolean xs:boolean	Use required required required	Default	Fixed	Annotation documentation Wymaga nadzoru osoby dorosłej. documentation Zależny od kontekstu.
annotation	documentation Element doświadczenie					
source	<pre><xs:element name="experiment" type="ep:experimentType"> <xs:annotation> <xs:documentation>Element doświadczenie</xs:documentation> </xs:annotation> </xs:element></pre>					

element external

diagram	
namespace	http://epodreczniki.pl/
type	ep:externalType
properties	content complex
children	ep:reference
used by	complexType referencesType
annotation	documentation Powiązanie z modulem zasobów z KZD
source	<pre><xs:element name="external" type="ep:externalType"> <xs:annotation> <xs:documentation>Powiązanie z modulem zasobów z KZD</xs:documentation> </xs:annotation> </xs:element></pre>

element fold-point

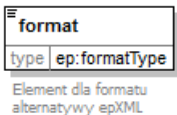
diagram						
namespace	http://epodreczniki.pl/					

properties	content	complex				
used by	group	extendedInlineContentGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Miejsce zawijania się. Uwaga: do stosowania tylko i wyłącznie w połączeniu z ep:foldable=true					
source	<pre><xs:element name="fold-point"> <xs:annotation> <xs:documentation>Miejsce zawijania się. Uwaga: do stosowania tylko i wyłącznie w połączeniu z ep:foldable=true</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> </xs:complexType> </xs:element></pre>					

attribute **fold-point/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

element **format**

diagram			
namespace	http://epodreczniki.pl/		
type	ep:formatType		
properties	content	simple	
used by	complexType	formatsType	
facets	Kind	Value	Annotation
	enumeration	classicmobile	
	enumeration	static	
	enumeration	static-mono	
annotation	documentation Element dla formatu alternatywy epXML		
source	<pre><xs:element name="format" type="ep:formatType"> <xs:annotation> <xs:documentation>Element dla formatu alternatywy epXML</xs:documentation> </xs:annotation></pre>		

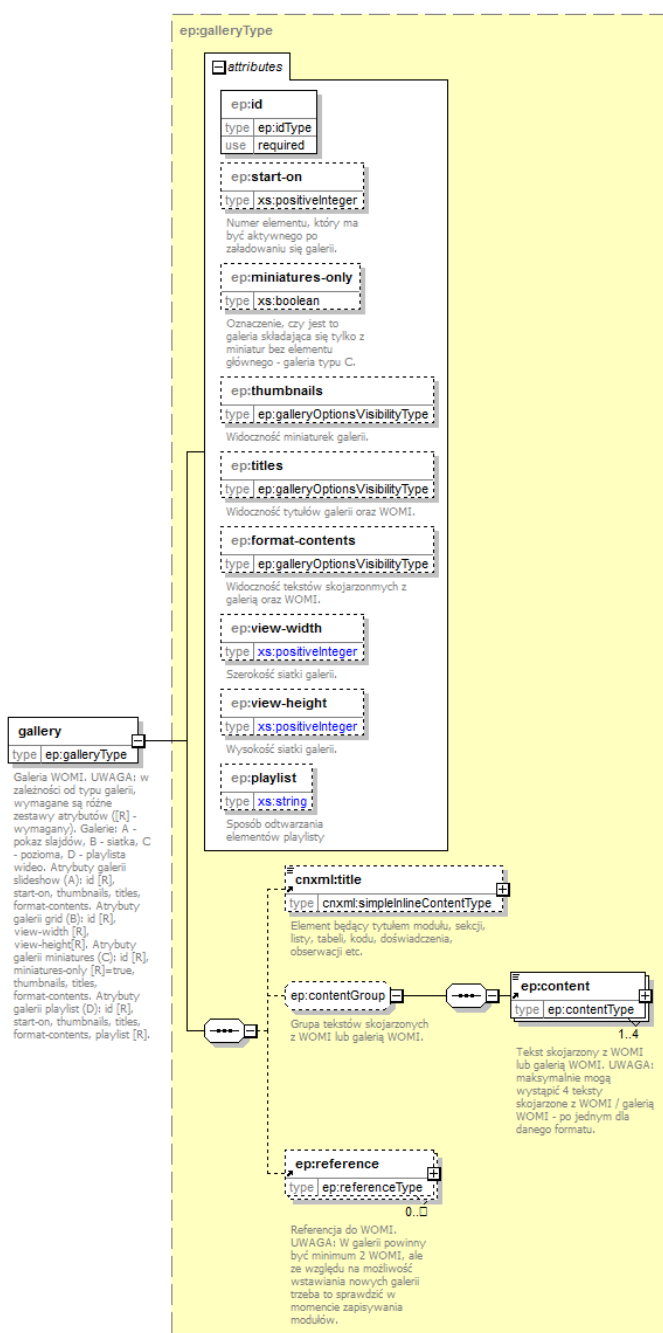
</xs:element>

element formats

diagram	formats type ep:formatsType Element dla formatów alternatyw epXML. UWAGA: elementy format są zadeklarowane wewnątrz typu, aby zrobić wybór między predefiniowanymi wartościami. ep:format type ep:formatType 1..2 Element dla formatu alternatywy epXML.
namespace	http://epodreczniki.pl/
type	ep:formatsType
properties	content complex
children	ep:format
used by	complexType alternativeType
annotation	documentation Element dla formatów alternatyw epXML. UWAGA: elementy format są zadeklarowane wewnątrz typu, aby zrobić wybór między predefiniowanymi wartościami.
source	<pre><xs:element name="formats" type="ep:formatsType"> <xs:annotation> <xs:documentation>Element dla formatów alternatyw epXML. UWAGA: elementy format są zadeklarowane wewnątrz typu, aby zrobić wybór między predefiniowanymi wartościami.</xs:documentation> </xs:annotation> </xs:element></pre>

element gallery

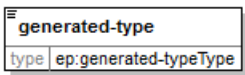
diagram



namespace	http://epodreczniki.pl/					
type	ep:galleryType					
properties	content complex					
children	cnxml:title ep:content ep:reference					
used by	complexTypes biographyType eventType group extendedInlineContentGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id ep:start-on	idType xs:positiveInteger	required			documentation

	ep:miniatures-only xs:boolean ep:thumbnails ep:galleryOptionsVisibilityType ep:titles ep:galleryOptionsVisibilityType ep:format-contents ep:galleryOptionsVisibilityType ep:view-width derived by: xs:positiveInteger ep:view-height derived by: xs:positiveInteger ep:playlist derived by: xs:string	Numer elementu, który ma być aktywnego po załadowaniu się galerii. documentation Oznaczenie, czy jest to galeria składająca się tylko z miniatur bez elementu głównego - galeria typu C. documentation Widoczność miniaturek galerii. documentation Widoczność tytułów galerii oraz WOMI. documentation Widoczność tekstów skojarzonych z galerią oraz WOMI. documentation Szerokość siatki galerii. documentation Wysokość siatki galerii. documentation Sposób odtwarzania elementów playlisty
annotation	documentation Galeria WOMI. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerie: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista wideo. Atrybuty galerii slideshow (A): id [R], start-on, thumbnails, titles, format-contents. Atrybuty galerii grid (B): id [R], view-width [R], view-height[R]. Atrybuty galerii miniatures (C): id [R], miniatures-only [R]=true, thumbnails, titles, format-contents. Atrybuty galerii playlist (D): id [R], start-on, thumbnails, titles, format-contents, playlist [R].	
source	<pre><xs:element name="gallery" type="ep:galleryType"> <xs:annotation> <xs:documentation>Galeria WOMI. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerie: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista wideo. Atrybuty galerii slideshow (A): id [R], start-on, thumbnails, titles, format-contents. Atrybuty galerii grid (B): id [R], view-width [R], view-height[R]. Atrybuty galerii miniatures (C): id [R], miniatures-only [R]=true, thumbnails, titles, format-contents. Atrybuty galerii playlist (D): id [R], start-on, thumbnails, titles, format-contents, playlist [R].</xs:documentation> </xs:annotation> </xs:element></pre>	

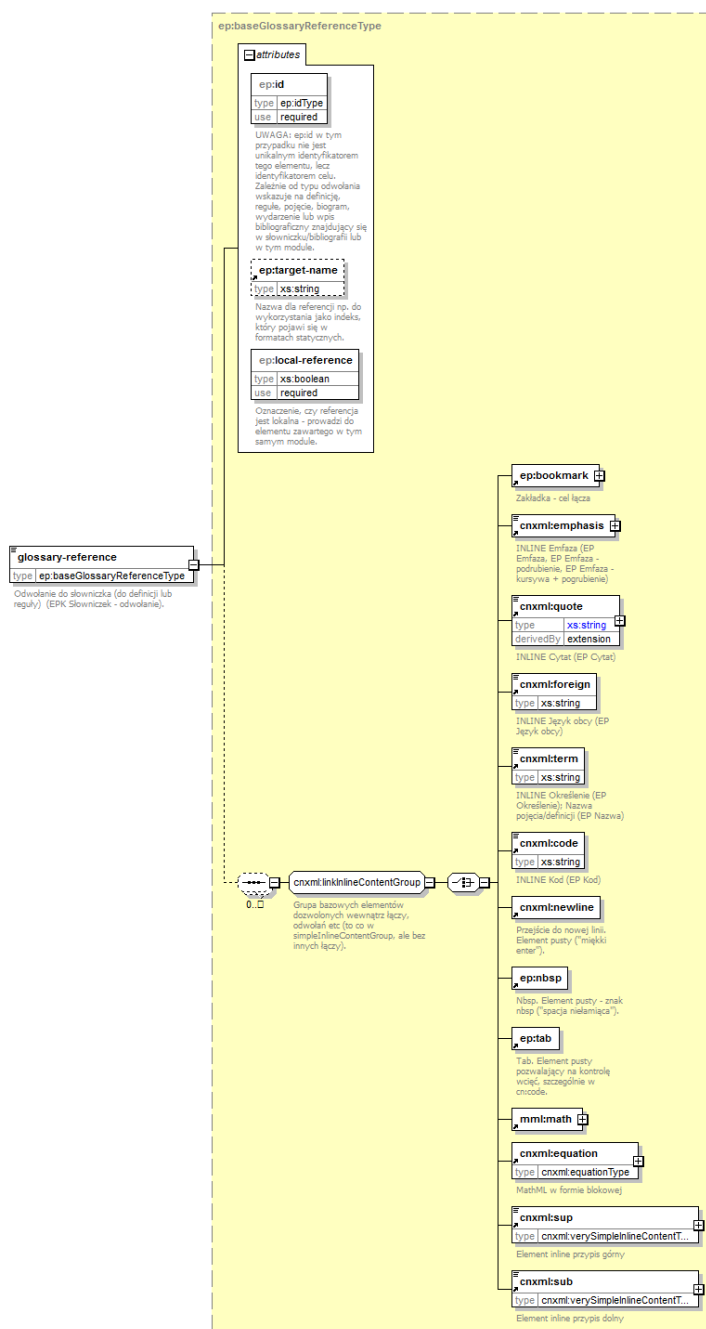
element generated-type

diagram	 Element typu modułu generowanego automatycznie.

namespace	http://epodreczniki.pl/		
type	ep:generated-typeType		
properties	content simple		
used by	complexType e-textbook-moduleType		
facets	Kind	Value	Annotation
	enumeration	glossary	
	enumeration	biography	
	enumeration	bibliography	
	enumeration	concept	
annotation	documentation Element typu modułu generowanego automatycznie.		
source	<pre> <xs:element name="generated-type" type="ep:generated-typeType"> <xs:annotation> <xs:documentation>Element typu modułu generowanego automatycznie.</xs:documentation> </xs:annotation> </xs:element> </pre>		

element glossary-reference

diagram



namespace	http://epodreczniki.pl/					
type	ep:baseGlossaryReferenceType					
properties	content mixed	complex true				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	group	simpleInlineContentGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation documentation UWAGA: ep:id w tym

	ep:target-name xs:string ep:local-reference xs:boolean required	przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module. documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
annotation	documentation Odwołanie do słowniczka (do definicji lub reguły) (EPK Słowniczek - odwołanie).	
source	<xs:element name="glossary-reference" type="ep:baseGlossaryReferenceType"> <xs:annotation> <xs:documentation>Odwołanie do słowniczka (do definicji lub reguły) (EPK Słowniczek - odwołanie).</xs:documentation> </xs:annotation> </xs:element>	

element hide-caption

diagram																	
namespace	http://epodreczniki.pl/																
type	ep:hide-captionType																
properties	content simple																
used by	complexType referenceType																
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>none</td> <td></td> </tr> <tr> <td>enumeration</td> <td>title</td> <td></td> </tr> <tr> <td>enumeration</td> <td>number</td> <td></td> </tr> <tr> <td>enumeration</td> <td>all</td> <td></td> </tr> </tbody> </table>		Kind	Value	Annotation	enumeration	none		enumeration	title		enumeration	number		enumeration	all	
Kind	Value	Annotation															
enumeration	none																
enumeration	title																
enumeration	number																
enumeration	all																
annotation	documentation Oznaczenie, które z podpisów WOMI powinny być ukryte, a które nie.																
source	<xs:element name="hide-caption" type="ep:hide-captionType"> <xs:annotation> <xs:documentation>Oznaczenie, które z podpisów WOMI powinny być ukryte, a które																

	nie.</xs:documentation> </xs:annotation> </xs:element>

element hypothesis

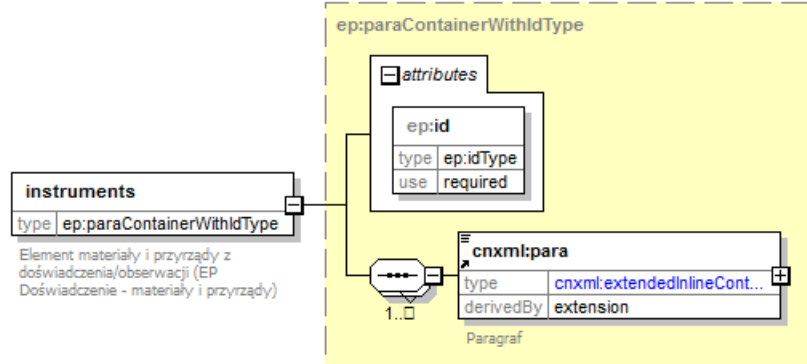
diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexType experimentType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
annotation	documentation Element hipoteza z doświadczenia (EP Doświadczenie - hipoteza)					
source	<xs:element name="hypothesis" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element hipoteza z doświadczenia (EP Doświadczenie - hipoteza)</xs:documentation> </xs:annotation> </xs:element>					

element instructions

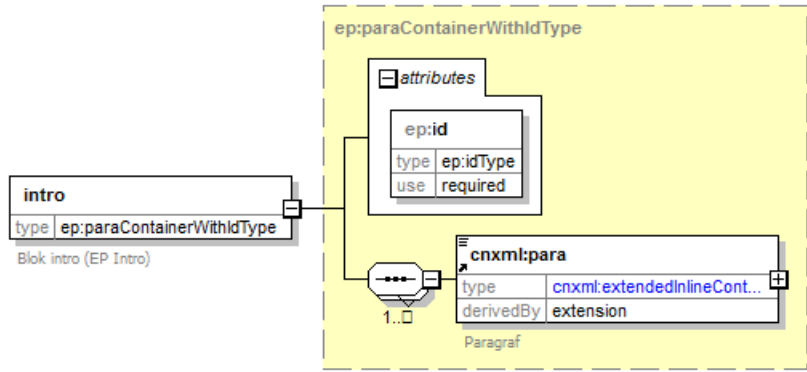
diagram						
namespace	http://epodreczniki.pl/					

type	ep:paraContainerWithIdType					
properties	content	complex				
children	cnxml:para					
used by	complexTypees	experimentType observationType				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Element instrukcja z doświadczenia/obserwacji (EP Doświadczenie - instrukcja)					
source	<xs:element name="instructions" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element instrukcja z doświadczenia/obserwacji (EP Doświadczenie - instrukcja)</xs:documentation> </xs:annotation> </xs:element>					

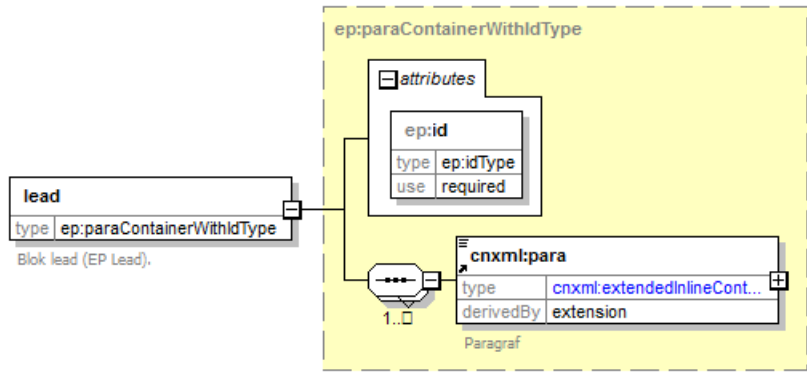
element instruments

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content	complex				
children	cnxml:para					
used by	complexTypees	experimentType observationType				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Element materiały i przyrządy z doświadczenia/obserwacji (EP Doświadczenie - materiały i przyrządy)					
source	<pre><xs:element name="instruments" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element materiały i przyrządy z doświadczenia/obserwacji (EP Doświadczenie - materiały i przyrządy)</xs:documentation> </xs:annotation> </xs:element></pre>					

element intro

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	group sectionElementGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
annotation	documentation Blok intro (EP Intro)					
source	<pre><xs:element name="intro" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Blok intro (EP Intro)</xs:documentation> </xs:annotation> </xs:element></pre>					

element lead

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	group sectionElementGroup					

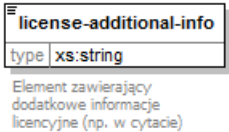
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Blok lead (EP Lead).					
source	<pre><xs:element name="lead" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Blok lead (EP Lead).</xs:documentation> </xs:annotation> </xs:element></pre>					

element license

diagram						
namespace	http://epodreczniki.pl/					
type	ep:licenseType					
properties	content complex					
used by	complexType quoteType					
facets	Kind	Value				Annotation
	enumeration					
	enumeration	E-podręczniki 1.0				
	enumeration	CC 0 1.0				
	enumeration	CC BY 1.0				
	enumeration	CC BY 2.0				
	enumeration	CC BY 2.5				
	enumeration	CC BY 3.0				
	enumeration	CC BY 4.0				
	enumeration	CC BY SA 1.0				
	enumeration	CC BY SA 2.0				
	enumeration	CC BY SA 2.5				
	enumeration	CC BY SA 3.0				
	enumeration	CC BY SA 4.0				
	enumeration	CC BY-ND 1.0				
	enumeration	CC BY-ND 2.0				
	enumeration	CC BY-ND 2.5				
	enumeration	CC BY-ND 3.0				
	enumeration	CC BY-ND 4.0				
	enumeration	CC BY-NC 1.0				
	enumeration	CC BY-NC 2.0				
	enumeration	CC BY-NC 2.5				
	enumeration	CC BY-NC 3.0				

	enumeration CC BY-NC 4.0 enumeration CC BY-NC-ND 2.0 enumeration CC BY-NC-ND 2.5 enumeration CC BY-NC-ND 3.0 enumeration CC BY-NC-ND 4.0 enumeration CC BY-NC-SA 1.0 enumeration CC BY-NC-SA 2.0 enumeration CC BY-NC-SA 2.5 enumeration CC BY-NC-SA 3.0 enumeration CC BY-NC-SA 4.0 enumeration domena publiczna enumeration tylko do użytku edukacyjnego enumeration tylko do użytku edukacyjnego na epodreczniki.pl enumeration tylko do użytku niekomercyjnego
attributes	Name ep:url Type ep:licenseURLType Use required Default Fixed Annotation
annotation	documentation Element zawierający licencję elementu nadrzędnego (np. cytatu)
source	<pre><xs:element name="license" type="ep:licenseType"> <xs:annotation> <xs:documentation>Element zawierający licencję elementu nadrzędnego (np. cytatu)</xs:documentation> </xs:annotation> </xs:element></pre>

element **license-additional-info**

diagram	
namespace	http://epodreczniki.pl/
type	xs:string
properties	content simple
used by	complexType quoteType
annotation	documentation Element zawierający dodatkowe informacje licencyjne (np. w cytacie)
source	<pre><xs:element name="license-additional-info" type="xs:string"> <xs:annotation> <xs:documentation>Element zawierający dodatkowe informacje licencyjne (np. w cytacie)</xs:documentation> </xs:annotation> </xs:element></pre>

element module-header

diagram						
namespace	http://epodreczniki.pl/					
type	ep:module-headerType					
properties	content complex					
children	ep:reference					
used by	complexType referencesType					
attributes	Name ep:title-presentation ep:title-position	Type derived by: xs:string derived by: xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Powiązanie z modulem WOMI z nagłówkiem					
source	<pre><xs:element name="module-header" type="ep:module-headerType"> <xs:annotation> <xs:documentation>Powiązanie z modulem WOMI z nagłówkiem</xs:documentation> </xs:annotation> </xs:element></pre>					

element name

diagram	
namespace	http://epodreczniki.pl/
type	cnxml:simpleInlineContentType
properties	content complex mixed true
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub cnxml:link ep:tooltip-reference ep:glossary-reference ep:concept-reference ep:biography-reference ep:event-reference ep:bibliography-reference
used by	complexTypes biographyType eventType
annotation	documentation

	Nazwa wydarzenia, biogramu (EP Nazwa)
source	<pre><xs:element name="name" type="cnxml:simpleInlineContentType"> <xs:annotation> <xs:documentation>Nazwa wydarzenia, biogramu (EP Nazwa)</xs:documentation> </xs:annotation> </xs:element></pre>

element nbsp

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
used by	complexType contentType group linkInlineContentGroup
annotation	documentation Nbsp. Element pusty - znak nbsp ("spacja niełamiąca").
source	<pre><xs:element name="nbsp"> <xs:annotation> <xs:documentation>Nbsp. Element pusty - znak nbsp ("spacja niełamiąca").</xs:documentation> </xs:annotation> <xs:complexType/> </xs:element></pre>

element numbering

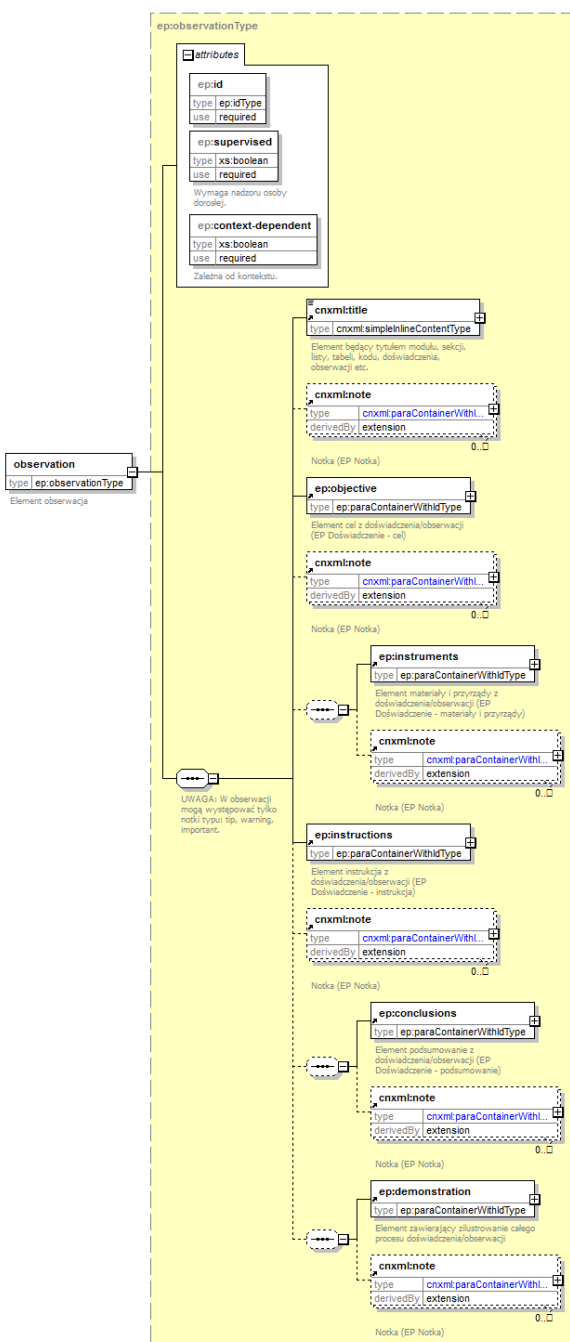
diagram	
namespace	http://epodreczniki.pl/
type	ep:numberingType
properties	content simple
used by	complexType presentationType
facets	Kind Value Annotation enumeration skip
annotation	documentation Element numbering
source	<pre><xs:element name="numbering" type="ep:numberingType"> <xs:annotation> <xs:documentation>Element numbering</xs:documentation> </xs:annotation> </xs:element></pre>

element **objective**

diagram													
namespace	http://epodreczniki.pl/												
type	ep:paraContainerWithIdType												
properties	content complex												
children	cnxml:para												
used by	complexTypees experimentType observationType												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>ep:id</td><td>idType</td><td>required</td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	ep:id	idType	required			
Name	Type	Use	Default	Fixed	Annotation								
ep:id	idType	required											
annotation	documentation Element cel z doświadczenia/obserwacji (EP Doświadczenie - cel)												
source	<pre><xs:element name="objective" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element cel z doświadczenia/obserwacji (EP Doświadczenie - cel)</xs:documentation> </xs:annotation> </xs:element></pre>												

element observation

diagram



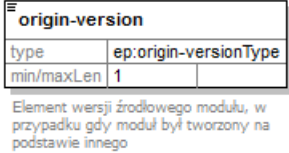
namespace	http://epodreczniki.pl/					
type	ep:observationType					
properties	content	complex				
children	cnxml:title cnxml:note ep:objective ep:instruments ep:instructions ep:conclusions ep:demonstration					
used by	complexType group	student-workType sectionElementGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation

	ep:supervised xs:boolean required ep:context-dependent xs:boolean required	documentation Wymaga nadzoru osoby dorosłej. documentation Zależna od kontekstu.
annotation	documentation Element obserwacja	
source	<xs:element name="observation" type="ep:observationType"> <xs:annotation> <xs:documentation>Element obserwacja</xs:documentation> </xs:annotation> </xs:element>	

element **origin-id**

diagram								
namespace	http://epodreczniki.pl/							
type	ep:origin-idType							
properties	content simple							
used by	complexType metadataType							
facets	<table> <tr> <td>Kind</td><td>Value</td><td>Annotation</td></tr> <tr> <td>minLength</td><td>1</td><td></td></tr> </table>		Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation						
minLength	1							
annotation	documentation Element id źródłowego modułu							
source	<xs:element name="origin-id" type="ep:origin-idType"> <xs:annotation> <xs:documentation>Element id źródłowego modułu</xs:documentation> </xs:annotation> </xs:element>							

element **origin-version**

diagram								
namespace	http://epodreczniki.pl/							
type	ep:origin-versionType							
properties	content simple							
used by	complexType metadataType							
facets	<table> <tr> <td>Kind</td><td>Value</td><td>Annotation</td></tr> <tr> <td>minLength</td><td>1</td><td></td></tr> </table>		Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation						
minLength	1							
annotation	documentation Element wersji źródłowego modułu, w przypadku gdy moduł był tworzony na podstawie innego							

source	<pre> <xs:element name="origin-version" type="ep:origin-versionType"> <xs:annotation> <xs:documentation>Element wersji źródłowego modułu, w przypadku gdy moduł był tworzony na podstawie innego</xs:documentation> </xs:annotation> </xs:element> </pre>

element play-and-learn

diagram	
namespace	http://epodreczniki.pl/
type	ep:play-and-learnType
properties	content complex
children	ep:reference
used by	complexType referencesType
annotation	documentation Powiązanie z modulem WOMI z baw się i ucz
source	<pre> <xs:element name="play-and-learn" type="ep:play-and-learnType"> <xs:annotation> <xs:documentation>Powiązanie z modulem WOMI z baw się i ucz</xs:documentation> </xs:annotation> </xs:element> </pre>

element prerequisite

diagram	
namespace	http://epodreczniki.pl/
type	ep:paraContainerWithIdType
properties	content complex
children	cnxml:para
used by	group sectionElementGroup

attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Blok prerequisite (EP Przygotuj przed lekcją)					
source	<pre><xs:element name="prerequisite" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Blok prerequisite (EP Przygotuj przed lekcją)</xs:documentation> </xs:annotation> </xs:element></pre>					

element presentation

diagram						
namespace	http://epodreczniki.pl/					
type	ep:presentationType					
properties	content complex					
children	ep:numbering ep:type ep:template					
used by	complexType e-textbook-moduleType					
annotation	documentation Atrybuty prezentacyjne dla modułu. UWAGA: nie dodaję width, height, fixed-tile-layout bo kafli nie wspieramy					
source	<pre><xs:element name="presentation" type="ep:presentationType"> <xs:annotation> <xs:documentation>Atrybuty prezentacyjne dla modułu. UWAGA: nie dodaję width, height, fixed- tile-layout bo kafli nie wspieramy</xs:documentation> </xs:annotation> </xs:element></pre>					

element presentation-style

diagram	presentation-style type xs:string derivedBy restriction Element określający typ prezentowania odpowiedzi w przypadku zadań z elementami losowości. Uwaga: ma zastosowanie w przypadku, gdy mamy do czynienia z q:item/@type='multiple-response'.						
namespace	http://epodreczniki.pl/						
type	restriction of xs:string						
properties	content simple						
used by	complexType configType						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>true-false</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	true-false	
Kind	Value	Annotation					
enumeration	true-false						
annotation	documentation Element określający typ prezentowania odpowiedzi w przypadku zadań z elementami losowości. Uwaga: ma zastosowanie w przypadku, gdy mamy do czynienia z q:item/@type='multiple-response'.						
source	<pre><xs:element name="presentation-style"> <xs:annotation> <xs:documentation>Element określający typ prezentowania odpowiedzi w przypadku zadań z elementami losowości. Uwaga: ma zastosowanie w przypadku, gdy mamy do czynienia z q:item/@type='multiple-response'.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="true-false"/> </xs:restriction> </xs:simpleType> </xs:element></pre>						

element presented-answers

diagram	presented-answers type xs:positiveInteger derivedBy restriction min/maxIncl 2 Element dla liczby prezentowanych odpowiedzi w zadaniu z elementami losowości. UWAGA: dozwolone wartości dla liczby prezentowanych odpowiedzi zależą od wartości ep:behaviour oraz count(q:item/q:answer).						
namespace	http://epodreczniki.pl/						
type	restriction of xs:positiveInteger						
properties	content simple						
used by	complexType configType						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minInclusive</td><td>2</td><td></td></tr></table>	Kind	Value	Annotation	minInclusive	2	
Kind	Value	Annotation					
minInclusive	2						
annotation	documentation Element dla liczby prezentowanych odpowiedzi w zadaniu z elementami losowości. UWAGA: dozwolone wartości dla						

	liczby prezentowanych odpowiedzi zależą od wartości ep:behaviour oraz count(q:item/q:answer).
source	<pre> <xs:element name="presented-answers"> <xs:annotation> <xs:documentation>Element dla liczby prezentowanych odpowiedzi w zadaniu z elementami losowości. UWAGA: dozwolone wartości dla liczby prezentowanych odpowiedzi zależą od wartości ep:behaviour oraz count(q:item/q:answer).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="2"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

element problem

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexType experimentType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
annotation	documentation Element problem z doświadczenia (EP Doświadczenie - problem badawczy).					
source	<pre> <xs:element name="problem" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element problem z doświadczenia (EP Doświadczenie - problem badawczy).</xs:documentation> </xs:annotation> </xs:element> </pre>					

element procedure-instructions

diagram						
namespace	http://epodreczniki.pl/					
type	ep:procedure-instructionsType					
properties	content complex					
children	cnxml:title ep:step					
used by	group sectionElementGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
annotation	documentation Element instrukcja postępowania (EP Instrukcja postępowania)					
source	<pre><xs:element name="procedure-instructions" type="ep:procedure-instructionsType"> <xs:annotation> <xs:documentation>Element instrukcja postępowania (EP Instrukcja postępowania)</xs:documentation> </xs:annotation> </xs:element></pre>					

element reading-room

diagram						
namespace	http://epodreczniki.pl/					

type	ep:reading-roomType					
properties	content default	complex false				
used by	complexType referenceType					
attributes	Name ep:show-format-contents	Type xs:boolean	Use optional	Default	Fixed	Annotation documentation Informacja, czy WOMI powinno trafić do galerii razem z tekstem skojarzonym. Atrybut powinien być ustawiony tylko w momencie, gdy wartość reading-roomType jest ustawiona na true.
annotation	documentation Oznaczenie, czy WOMI powinno trafić do ogólnoe-podręcznikowej galerii WOMI.					
source	<pre><xs:element name="reading-room" type="ep:reading-roomType" default="false"> <xs:annotation> <xs:documentation>Oznaczenie, czy WOMI powinno trafić do ogólnoe-podręcznikowej galerii WOMI.</xs:documentation> </xs:annotation> </xs:element></pre>					

element reference

diagram	epreferenceType attributes ep:width - type: <code>ep:widthType</code> - use: <code>required</code> - min/max: <code>1/100</code> - Opis: Szerokość - jest wartością wyrażoną w procentach w odniesieniu do kolumny tekstu, w której umieszczone jest WOMI. UWAGA: ustawianie szerokości WOMI jest dopuszczalne tylko w przypadku WOMI wizualnych (video, ilustracja, ikona, aplikacja). ep:context - type: <code>xs:boolean</code> - default: <code>false</code> - Opis: Oznaczenie, czy jest to WOMI konsultacji - prezentowane jako przycisk w portalu. ep:reading-room - type: <code>ep:reading-roomType</code> - default: <code>false</code> - Opis: Oznaczenie, czy WOMI powinno trafić do ogólnie-podrecznikowej galerii WOMI. ep:zoomable - type: <code>ep:zoomableType</code> - default: <code>no</code> - Opis: Oznaczenie, czy WOMI można przybliżyć oraz w jakim trybie (uproszczony, pełny). UWAGA: atrybut dotyczy tylko WOMI typu ikona oraz ilustracja. ep:avatar - type: <code>xs:boolean</code> - default: <code>false</code> - Opis: Oznaczenie, czy jest to WOMI typu avatar. UWAGA: wartość 'true' może być zastosowana tylko w połączeniu z WOMI typu aplikacja. ep:embedded - type: <code>xs:boolean</code> - default: <code>true</code> - Opis: Oznaczenie, czy jest to WOMI osadzone w treści. UWAGA: przypisanie tego elementu i nadawanie mu wartości false ma sens tylko w połączeniu z elementem content ustawionym na true. ep:hide-caption - type: <code>ep:hide-captionType</code> - Opis: Oznaczenie, które z podtypów WOMI powinny być ukryte, a które nie. ep:aside - type: <code>ep:asideType</code> - Opis: Oznaczenie, czy WOMI powinno być wycentrowane na prawą lub lewą stronę. ep:disabled-alternative-reference - type: <code>ep:disabled-alternative-referenceType</code> - Opis: Odwołanie do dyktika z tekstem alternatywnym (EPK Dymek - odwołanie). ep:contentGroup - type: <code>ep:contentGroupType</code> - Opis: Grupa tekstów skojarzonych z WOMI lub galerią WOMI. ep:content - type: <code>ep:contentType</code> - use: <code>required</code> - Opis: Tekst skojarzony z WOMI lub galerią WOMI. UWAGA: maksymalnie mogą wystąpić 4 teksty skojarzone z WOMI / galerią WOMI - po jednym dla danego formatu.					
namespace	http://epodreczniki.pl/					
type	ep:referenceType					
properties	content complex					
children	ep:width ep:context ep:reading-room ep:zoomable ep:avatar ep:embedded ep:hide-caption ep:aside ep:disabled-alternative-reference ep:content					
used by	complexType group alternativeType biographyType eventType exerciseType galleryType module-headerType extendedInlineContentGroup					
attributes	Name ep:id	Type WOMIidType	Use required	Default	Fixed	Annotation documentation Identyfikator

	ep:instance-id idType	WOMI pochodzący z RT documentation Identyfikator konkretnej instancji WOMI - wystąpienia WOMI w treści
annotation	documentation Referencja do WOMI	
source	<pre><xs:element name="reference" type="ep:referenceType"> <xs:annotation> <xs:documentation>Referencja do WOMI</xs:documentation> </xs:annotation> </xs:element></pre>	

element references

diagram		
namespace	http://epodreczniki.pl/	
type	ep:referencesType	
properties	content complex	
children	ep:module-header ep:play-and-learn ep:external	
used by	complexType e-textbook-moduleType	
annotation	documentation Powiązania modułu z WOMI (nagłówek, baw się i ucz, KZD).	
source	<pre><xs:element name="references" type="ep:referencesType"> <xs:annotation> <xs:documentation>Powiązania modułu z WOMI (nagłówek, baw się i ucz, KZD).</xs:documentation> </xs:annotation> </xs:element></pre>	

element **revisal**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	group sectionElementGroup					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Blok revisal (EP Przypomnij sobie)					
source	<pre><xs:element name="revisal" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Blok revisal (EP Przypomnij sobie)</xs:documentation> </xs:annotation> </xs:element></pre>					

element **role**

diagram					
namespace	http://epodreczniki.pl/				
type	restriction of xs:string				
properties	content simple				
used by	complexType firstLevelSectionParametersType				
facets	Kind enumeration	Value JPOL_E3_E4_Konteksty	Annotation		
	enumeration	JPOL_E3_E4_Tekstykultury			
	enumeration	JPOL_E3_E4_Preteksty			
	enumeration	JPOL_E3_E4_Gramatyka			
	enumeration	JPOL_E3_E4_Komunikacjaizycie			
	enumeration	JPOL_E3_E4_Zadaniowo			

	enumeration JPOL_E3_E4_Dodatkowyopiszasobow
annotation	documentation Element rola sekcji - używany do wprowadzania nagłówków sekcji typu: Konteksty, Preteksty, itp. lub szarej apli - Dodatkowy opis zasobów.
source	<pre> <xs:element name="role"> <xs:annotation> <xs:documentation>Element rola sekcji - używany do wprowadzania nagłówków sekcji typu: Konteksty, Preteksty, itp. lub szarej apli - Dodatkowy opis zasobów.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="JPOL_E3_E4_Konteksty"/> <xs:enumeration value="JPOL_E3_E4_Tekstykultury"/> <xs:enumeration value="JPOL_E3_E4_Preteksty"/> <xs:enumeration value="JPOL_E3_E4_Gramatyka"/> <xs:enumeration value="JPOL_E3_E4_Komunikacjaizycie"/> <xs:enumeration value="JPOL_E3_E4_Zadaniowo"/> <xs:enumeration value="JPOL_E3_E4_Dodatkowyopiszasobow"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>

element source

diagram	 Źródło cytatu w postaci odwołania do zapisu bibliograficznego Odwołanie do zapisu bibliograficznego, ale typu inline i jako element pusty
namespace	http://epodreczniki.pl/
properties	content complex
children	ep:bibliography-reference
used by	complexTypees definitionType quoteType
annotation	documentation Źródło cytatu w postaci odwołania do zapisu bibliograficznego
source	<pre> <xs:element name="source"> <xs:annotation> <xs:documentation>Źródło cytatu w postaci odwołania do zapisu bibliograficznego</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="bibliography-reference"> <xs:annotation> <xs:documentation>Odwołanie do zapisu bibliograficznego, ale typu inline i jako element pusty</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="local-reference" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.</xs:documentation> </xs:annotation> </pre>

	<pre></xs:annotation> </xs:attribute> <xs:attribute name="inline" use="required" fixed="true"/> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element></pre>

element **source/bibliography-reference**

diagram						
namespace	http://epodreczniki.pl/					
properties	content complex					
used by	group SimpleInlineContentGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:local-reference	xs:boolean	required			documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
	ep:inline		required		true	
annotation	documentation Odwolanie do zapisu bibliograficznego, ale typu inline i jako element pusty					
source	<pre><xs:element name="bibliography-reference"> <xs:annotation> <xs:documentation>Odwolanie do zapisu bibliograficznego, ale typu inline i jako element pusty</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="local-reference" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element></pre>					

	<pre> </xs:attribute> <xs:attribute name="inline" use="required" fixed="true"/> </xs:complexType> </xs:element> </pre>

attribute **source/bibliography-reference/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<pre><xs:attribute name="id" type="ep:idType" use="required"/></pre>		

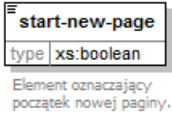
attribute **source/bibliography-reference/@local-reference**

namespace	http://epodreczniki.pl/		
type	xs:boolean		
properties	use required		
annotation	documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.		
source	<pre> <xs:attribute name="local-reference" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.</xs:documentation> </xs:annotation> </xs:attribute> </pre>		

attribute **source/bibliography-reference/@inline**

namespace	http://epodreczniki.pl/		
properties	use fixed	required true	
source	<pre><xs:attribute name="inline" use="required" fixed="true"/></pre>		

element **start-new-page**

diagram			
namespace	http://epodreczniki.pl/		
type	xs:boolean		

properties	content simple
used by	complexType firstLevelSectionParametersType
annotation	documentation Element oznaczający początek nowej paginy.
source	<pre><xs:element name="start-new-page" type="xs:boolean"> <xs:annotation> <xs:documentation>Element oznaczający początek nowej paginy.</xs:documentation> </xs:annotation> </xs:element></pre>

element step

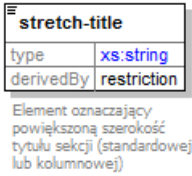
diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	complexType procedure-instructionsType					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Element krok w instrukcji postępowania (EP Krok)					
source	<pre><xs:element name="step" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Element krok w instrukcji postępowania (EP Krok)</xs:documentation> </xs:annotation> </xs:element></pre>					

element stretch

diagram						
namespace	http://epodreczniki.pl/					

type	restriction of xs:string		
properties	content	simple	
used by	complexType	firstLevelSectionParametersType	
facets	Kind	Value	Annotation
	enumeration	full-width	
	enumeration	extended-width	
	enumeration	extended-shifted-width	
annotation	documentation Element oznaczający powiększoną szerokość sekcji kolumnowej (nie sekcji standardowej)		
source	<pre> <xs:element name="stretch"> <xs:annotation> <xs:documentation>Element oznaczający powiększoną szerokość sekcji kolumnowej (nie sekcji standardowej)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="full-width"/> <xs:enumeration value="extended-width"/> <xs:enumeration value="extended-shifted-width"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>		

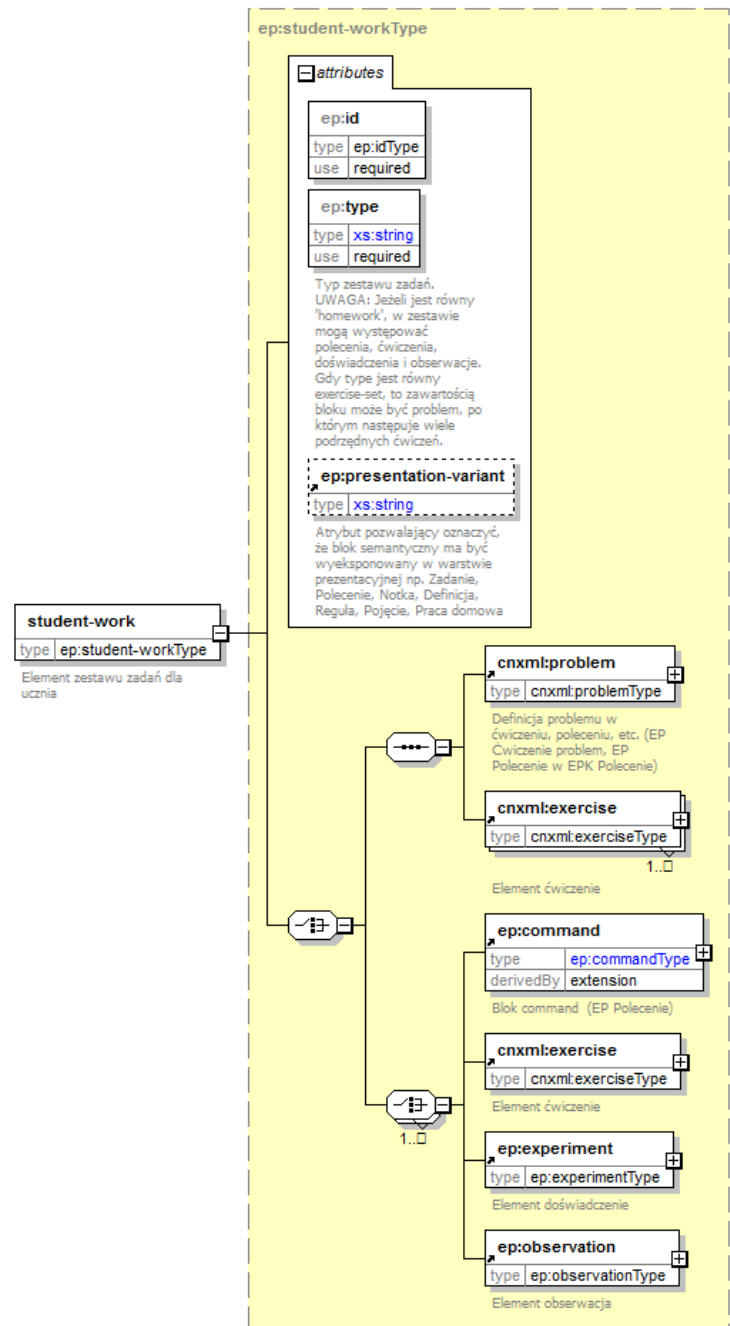
element **stretch-title**

diagram			
namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	content	simple	
used by	complexTypes	firstLevelSectionParametersType secondLevelSectionParametersType	
facets	Kind	Value	Annotation
	enumeration	full-width	
	enumeration	extended-width	
annotation	documentation Element oznaczający powiększoną szerokość tytułu sekcji (standardowej lub kolumnowej)		
source	<pre> <xs:element name="stretch-title"> <xs:annotation> <xs:documentation>Element oznaczający powiększoną szerokość tytułu sekcji (standardowej lub kolumnowej)</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="full-width"/> <xs:enumeration value="extended-width"/> </xs:restriction> </xs:simpleType> </xs:element> </pre>		

</xs:simpleType>
</xs:element>

element **student-work**

diagram



namespace	http://epodreczniki.pl/
type	ep:student-workType
properties	content complex
children	cnxml:problem cnxml:exercise ep:command ep:experiment ep:observation

used by	group	sectionElementGroup				
attributes	Name ep:id ep:type	Type idType derived by: xs:string	Use required required	Default	Fixed	Annotation documentation Typ zestawu zadań. UWAGA: Jeżeli jest równy 'homework', w zestawie mogą występować polecenia, ćwiczenia, doświadczenia i obserwacje. Gdy type jest równy exercise-set, to zawartością bloku może być problem, po którym następuje wiele podrzędnych ćwiczeń. documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Element zestawu zadań dla ucznia					
source	<pre><xs:element name="student-work" type="ep:student-workType"> <xs:annotation> <xs:documentation>Element zestawu zadań dla ucznia</xs:documentation> </xs:annotation> </xs:element></pre>					

element **tab**

diagram	 Tab. Element pusty pozwalający na kontrolę wcięć, szczególnie w cn:code.
namespace	http://epodreczniki.pl/
properties	content complex
used by	group linkInlineContentGroup
annotation	documentation Tab. Element pusty pozwalający na kontrolę wcięć, szczególnie w cn:code.
source	<code><xs:element name="tab"></code>

	<pre> <xs:annotation> <xs:documentation>Tab. Element pusty pozwalający na kontrolę wcięć, szczególnie w cn:code.</xs:documentation> </xs:annotation> <xs:complexType/> </xs:element> </pre>

element **technical-remarks**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	group sectionElementGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
annotation	documentation Blok komentarza technicznego (EP Komentarz techniczny)					
source	<pre> <xs:element name="technical-remarks" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Blok komentarza technicznego (EP Komentarz techniczny)</xs:documentation> </xs:annotation> </xs:element> </pre>					

element **template**

diagram						
namespace	http://epodreczniki.pl/					
type	ep:templateType					
properties	content simple					
used by	complexType presentationType					
facets	Kind	Value	Annotation			

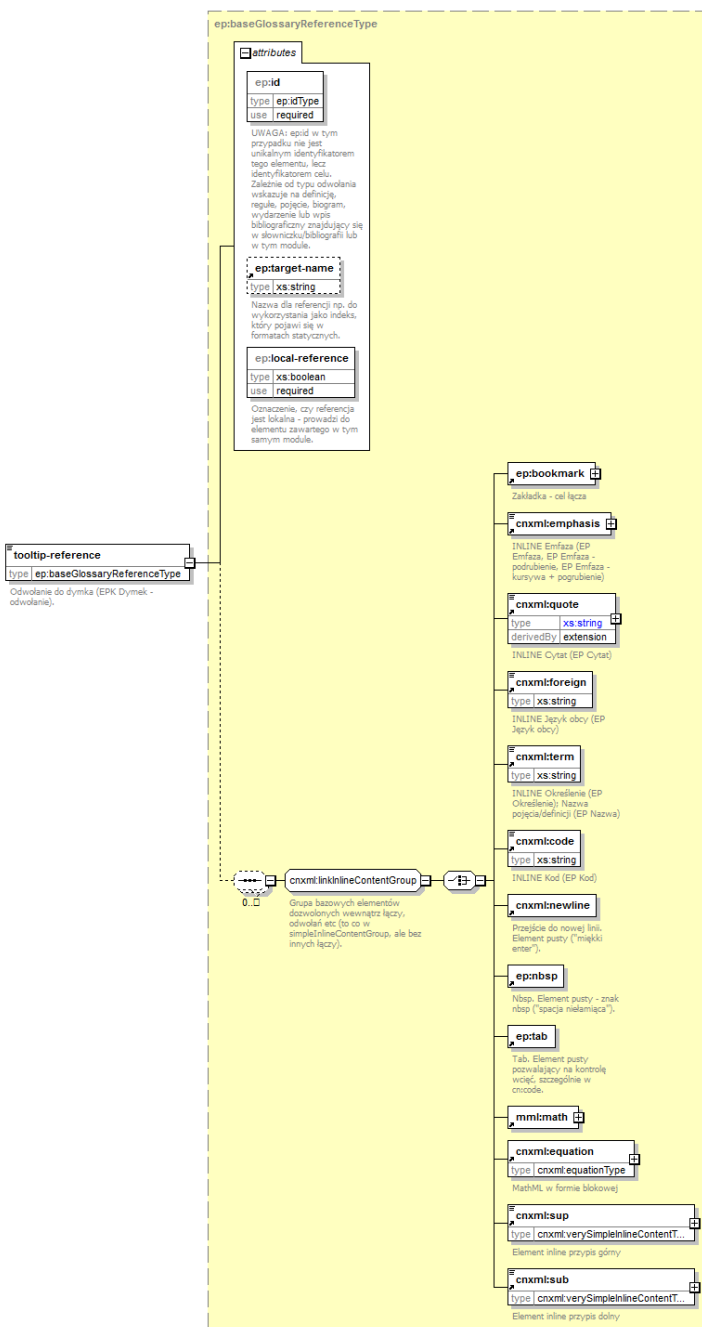
	enumeration linear
annotation	documentation Element szablon modułu.
source	<pre><xs:element name="template" type="ep:templateType"> <xs:annotation> <xs:documentation>Element szablon modułu.</xs:documentation> </xs:annotation> </xs:element></pre>

element tooltip

diagram						
namespace	http://epodreczniki.pl/					
type	ep:tooltipType					
properties	content complex					
children	cnxml:title ep:content					
used by	group sectionElementGroup					
attributes	Name ep:id ep:type	Type idType derived by: xs:string	Use required	Default	Fixed	Annotation documentation Typ dymka
annotation	documentation Element dymek (EP Dymek)					
source	<pre><xs:element name="tooltip" type="ep:tooltipType"> <xs:annotation> <xs:documentation>Element dymek (EP Dymek)</xs:documentation> </xs:annotation> </xs:element></pre>					

element tooltip-reference

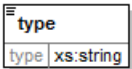
diagram



namespace	http://epodreczniki.pl/					
type	ep:baseGlossaryReferenceType					
properties	content mixed	complex true				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	group	simpleInlineContentGroup				
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation documentation UWAGA: ep:id w tym

	ep:target-name xs:string ep:local-reference xs:boolean required	przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module. documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
annotation	documentation Odwołanie do dymka (EPK Dymek - odwołanie).	
source	<pre><xs:element name="tooltip-reference" type="ep:baseGlossaryReferenceType"> <xs:annotation> <xs:documentation>Odwołanie do dymka (EPK Dymek - odwołanie).</xs:documentation> </xs:annotation> </xs:element></pre>	

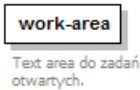
element type

diagram	 Element typ modułu - w chwili obecnej xs:string, nie wprowadzamy restrykcji zgodnej z templateMappings.xml, gdyż nikt w prezentacji z tego nie korzysta.	
namespace	http://epodreczniki.pl/	
type	xs:string	
properties	content simple	
used by	complexType	presentationType
annotation	documentation Element typ modułu - w chwili obecnej xs:string, nie wprowadzamy restrykcji zgodnej z templateMappings.xml, gdyż nikt w prezentacji z tego nie korzysta.	
source	<pre><xs:element name="type" type="xs:string"> <xs:annotation> <xs:documentation>Element typ modułu - w chwili obecnej xs:string, nie wprowadzamy restrykcji zgodnej z templateMappings.xml, gdyż nikt w prezentacji z tego nie korzysta.</xs:documentation> </xs:annotation> </xs:element></pre>	

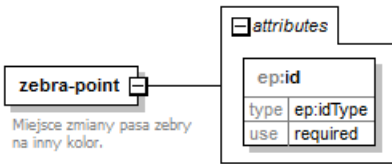
element width

diagram	width type ep:widthType min/maxIncl 1 100 Szerokość kolumny/szerokość WOMI.									
namespace	http://epodreczniki.pl/									
type	ep:widthType									
properties	content simple									
used by	complexTypes referenceType secondLevelSectionParametersType									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minInclusive</td><td>1</td><td></td></tr><tr><td>maxInclusive</td><td>100</td><td></td></tr></table>	Kind	Value	Annotation	minInclusive	1		maxInclusive	100	
Kind	Value	Annotation								
minInclusive	1									
maxInclusive	100									
annotation	documentation Szerokość kolumny/szerokość WOMI.									
source	<pre><xs:element name="width" type="ep:widthType"> <xs:annotation> <xs:documentation>Szerokość kolumny/szerokość WOMI.</xs:documentation> </xs:annotation> </xs:element></pre>									

element work-area

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
used by	complexType commandType group simpleExerciseGroup
annotation	documentation Text area do zadań otwartych.
source	<pre><xs:element name="work-area"> <xs:annotation> <xs:documentation>Text area do zadań otwartych.</xs:documentation> </xs:annotation> <xs:complexType/> </xs:element></pre>

element zebra-point

diagram	

namespace	http://epodreczniki.pl/					
properties	content complex					
used by	complexTypes contentType firstLevelSectionType					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Miejsce zmiany pasa zebry na inny kolor.					
source	<pre><xs:element name="zebra-point"> <xs:annotation> <xs:documentation>Miejsce zmiany pasa zebry na inny kolor.</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> </xs:complexType> </xs:element></pre>					

attribute **zebra-point/@id**

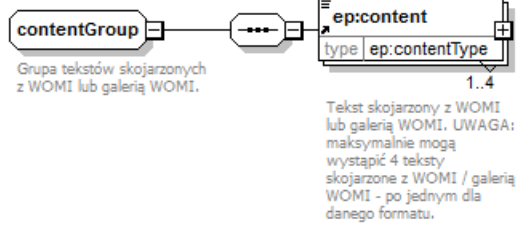
namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind pattern	Value i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)? pattern [a-zA-Z0-9_]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter. documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

element **zoomable**

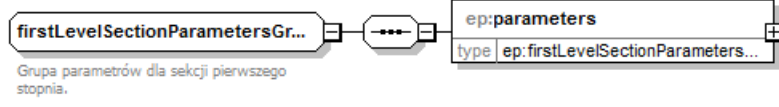
diagram	zoomable type ep:zoomableType default no Oznaczenie, czy WOMI można przybliżyć oraz w jakim trybie (lupa/przybliżenie).												
namespace	http://epodreczniki.pl/												
type	ep:zoomableType												
properties	content simple default no												
used by	complexType referenceType												
facets	<table><thead><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr></thead><tbody><tr><td>enumeration</td><td>no</td><td></td></tr><tr><td>enumeration</td><td>zoom</td><td></td></tr><tr><td>enumeration</td><td>magnifier</td><td></td></tr></tbody></table>	Kind	Value	Annotation	enumeration	no		enumeration	zoom		enumeration	magnifier	
Kind	Value	Annotation											
enumeration	no												
enumeration	zoom												
enumeration	magnifier												
annotation	documentation Oznaczenie, czy WOMI można przybliżyć oraz w jakim trybie (lupa/przybliżenie).												
source	<xs:element name="zoomable" type="ep:zoomableType" default="no"> <xs:annotation>												

	<pre> <xs:documentation>Oznaczenie, czy WOMI można przybliżyć oraz w jakim trybie (lupa/przybliżenie). </xs:documentation> </xs:annotation> </xs:element> </pre>

group contentGroup

diagram	
namespace	http://epodreczniki.pl/
children	ep:content
used by	complexType galleryType referenceType
annotation	documentation Grupa tekstów skojarzonych z WOMI lub galerią WOMI.
source	<pre> <xs:group name="contentGroup"> <xs:annotation> <xs:documentation>Grupa tekstów skojarzonych z WOMI lub galerią WOMI.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:content" maxOccurs="4"> <xs:annotation> <xs:documentation>Tekst skojarzony z WOMI lub galerią WOMI. UWAGA: maksymalnie mogą wystąpić 4 teksty skojarzone z WOMI / galerią WOMI - po jednym dla danego formatu.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:group> </pre>

group firstLevelSectionParametersGroup

diagram	
namespace	http://epodreczniki.pl/
children	ep:parameters
used by	complexType firstLevelSectionType
annotation	documentation Grupa parametrów dla sekcji pierwszego stopnia.
source	<pre> <xs:group name="firstLevelSectionParametersGroup"> <xs:annotation> <xs:documentation>Grupa parametrów dla sekcji pierwszego stopnia.</xs:documentation> </xs:annotation> </pre>

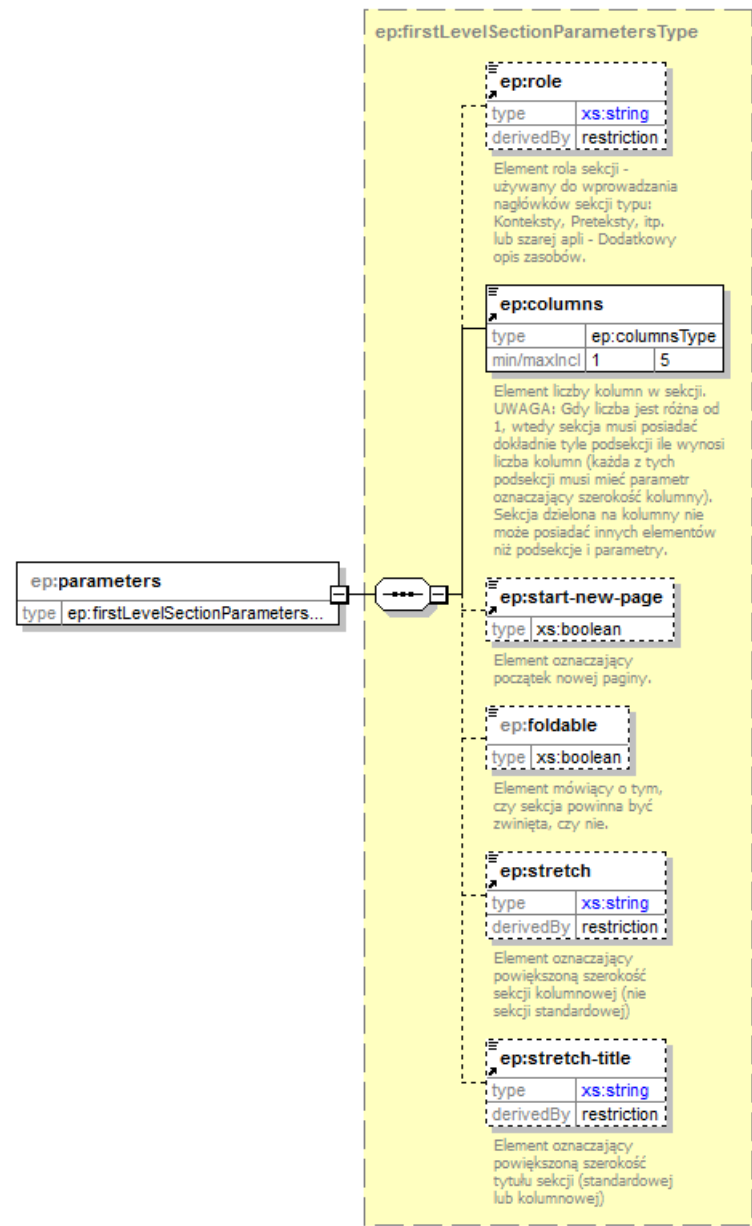
```

</xs:annotation>
<xs:sequence>
  <xs:element name="parameters" type="ep:firstLevelSectionParametersType"/>
</xs:sequence>
</xs:group>

```

element **firstLevelSectionParametersGroup/parameters**

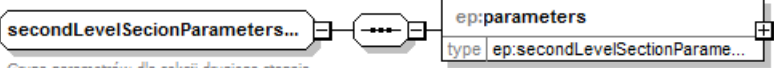
diagram



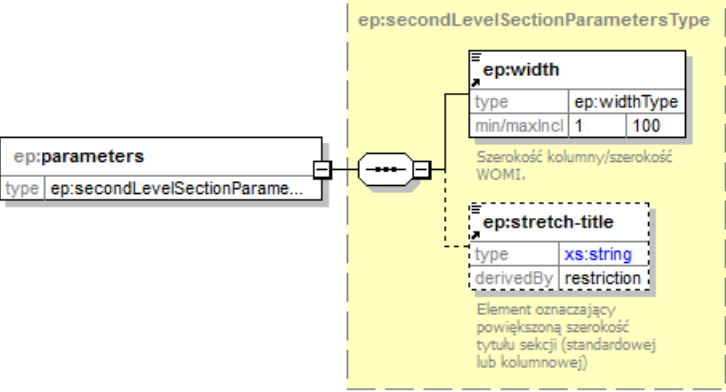
namespace	http://epodreczniki.pl/
type	ep:firstLevelSectionParametersType
properties	content complex
children	ep:role ep:columns ep:start-new-page ep:foldable ep:stretch ep:stretch-title

source	<code><xs:element name="parameters" type="ep:firstLevelSectionParametersType"/></code>

group **secondLevelSecionParametersGroup**

diagram	 Grupa parametrów dla sekcji drugiego stopnia. UWAGA: Gdy sekcja pierwszego stopnia jest podzielona na kolumny (liczba kolumn różna od 1), wszystkie jej podsekcje drugiego stopnia muszą posiadać parametry.
namespace	http://epodreczniki.pl/
children	ep:parameters
used by	complexType secondLevelSectionType
annotation	documentation Grupa parametrów dla sekcji drugiego stopnia. UWAGA: Gdy sekcja pierwszego stopnia jest podzielona na kolumny (liczba kolumn różna od 1), wszystkie jej podsekcje drugiego stopnia muszą posiadać parametry.
source	<pre> <xs:group name="secondLevelSecionParametersGroup"> <xs:annotation> <xs:documentation>Grupa parametrów dla sekcji drugiego stopnia. UWAGA: Gdy sekcja pierwszego stopnia jest podzielona na kolumny (liczba kolumn różna od 1), wszystkie jej podsekcje drugiego stopnia muszą posiadać parametry.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="parameters" type="ep:secondLevelSectionParametersType"/> </xs:sequence> </xs:group> </pre>

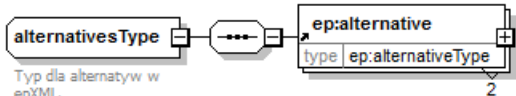
element **secondLevelSecionParametersGroup/parameters**

diagram	
namespace	http://epodreczniki.pl/
type	ep:secondLevelSectionParametersType
properties	content complex
children	ep:width ep:stretch-title
source	<code><xs:element name="parameters" type="ep:secondLevelSectionParametersType"/></code>

group simpleExerciseGroup

diagram	simpleExerciseGroup Grupa elementów, które można zawrzeć w prostym ćwiczeniu. cnxml:problem type cnxml:problemType Definicja problemu w ćwiczeniu, poleceniu, etc. (EP Ćwiczenie problem, EP Polecenie w EPK Polecenie) cnxml:note type cnxml:paraContainerWithl... derivedBy extension Notka. UWAGA: w tym miejscu może występować tylko notka typu tip, jest to wskazówka rozwiązania zadania. ep:work-area 0..1 Text area do zadań otwartych. cnxml:solution type cnxml:paraContainerWithldType 0..1 Rozwiązanie ćwiczenia (EP Ćwiczenie - rozwiązanie) cnxml:commentary type cnxml:paraContainerWithl... derivedBy extension 0..1 Wyjaśnienie ćwiczenia (w przypadku typu ustawionego na example przykładowe rozwiązanie) (EP Ćwiczenie - wyjaśnienie, EP Przykład)
namespace	http://epodreczniki.pl/
children	cnxml:problem cnxml:note ep:work-area cnxml:solution cnxml:commentary
used by	complexTypees alternativeType exerciseType
annotation	documentation Grupa elementów, które można zawrzeć w prostym ćwiczeniu.
source	<pre> <xs:group name="simpleExerciseGroup"> <xs:annotation> <xs:documentation>Grupa elementów, które można zawrzeć w prostym ćwiczeniu.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:problem"/> <xs:element ref="cnxml:note" minOccurs="0"> <xs:annotation> <xs:documentation>Notka. UWAGA: w tym miejscu może występować tylko notka typu tip, jest to wskazówka rozwiązania zadania.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:work-area" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="cnxml:solution" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="cnxml:commentary" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:group> </pre>

complexType alternativesType

diagram	 Typ dla alternatyw w epXML. W ramach alternatyw może znajdować się między 2, a 3 alternatywy dla każdego z formatów emisyjnych. UWAGA: na chwilę obecną w trakcie konwersji powstaje alternatywa dla formatów dynamicznych (classicmobile) oraz dla formatów statycznych (static oraz static-mono).
namespace	http://epodreczniki.pl/
children	ep:alternative
used by	element alternatives
annotation	documentation Typ dla alternatyw w epXML.
source	<pre> <xs:complexType name="alternativesType"> <xs:annotation> <xs:documentation>Typ dla alternatyw w epXML.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:alternative" minOccurs="2" maxOccurs="2"> <xs:annotation> <xs:documentation>W ramach alternatyw może znajdować się między 2, a 3 alternatywy dla każdego z formatów emisyjnych. UWAGA: na chwilę obecną w trakcie konwersji powstaje alternatywa dla formatów dynamicznych (classicmobile) oraz dla formatów statycznych (static oraz static-mono).</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

complexType alternativeType

diagram	alternativeType Typ dla alternatywy w epXML. ep:id type: ep:idType use: required ep:formats type: ep:formatsType Element dla formatów alternatyw epXML. UWAGA: ze względu na uproszczenie możliwe powinny być 2 typy alternatywy classicmobile - wtedy wewnątrz alternativeType powinno znajdować się ep:reference, lub static i static-mono na raz (2 ep:format), wtedy w alternativeType powinny znajdować się elementy z grupy simpleExercise. ep:reference type: ep:referenceType Referencja do WOMI cnxml:problem type: cnxml:problemType Definicja problemu w ćwiczeniu, poleceniu, etc. (EP Cwiczenie problem, EP Polecenie w EPK Polecenie) cnxml:note type: cnxml:paraContainerWith... derivedBy: extension Notka. UWAGA: w tym miejscu może występować tylko notka typu tip, jest to wskazówka rozwiązania zadania. ep:work-area 0..1 Text area do zadań otwartych. cnxml:solution type: cnxml:paraContainerWithIdType 0..1 Rozwiązanie ćwiczenia (EP Cwiczenie - rozwiązanie) cnxml:commentary type: cnxml:paraContainerWith... derivedBy: extension 0..1 Wyjaśnienie ćwiczenia (w przypadku typu ustawionego na example przykładowe rozwiązanie) (EP Cwiczenie - wyjaśnienie, EP Przykład) ep:config type: ep:configType Element konfiguracji zadania z elementami losowości. q:item type: q:itemType derivedBy: extension Element pytanie quizowe					
namespace	http://epodreczniki.pl/					
children	ep:formats ep:reference cnxml:problem cnxml:note ep:work-area cnxml:solution cnxml:commentary ep:config q:item					
used by	element alternative					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Typ dla alternatywy w epXML.					
source	<xs:complexType name="alternativeType">					

	<pre> <xs:annotation> <xs:documentation>Typ dla alternatywy w epXML.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:formats"> <xs:annotation> <xs:documentation>Element dla formatów alternatyw epXML. UWAGA: ze względu na uproszczenie możliwe powinny być 2 typy alternatyw: classicmobile - wtedy wewnątrz alternativeType powinno znajdować się ep:reference, lub static i static-mono na raz (2 ep:format), wtedy w alternativeType powinny znajdować się elementy z grupy simpleExercise.</xs:documentation> </xs:annotation> </xs:element> <xs:choice> <xs:element ref="ep:reference"/> <xs:group ref="ep:simpleExerciseGroup"/> </xs:choice> <xs:sequence> <xs:element ref="ep:config" minOccurs="0"/> <xs:element ref="q:item"/> </xs:sequence> </xs:choice> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> </xs:complexType> </pre>

attribute **alternativeType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

complexType baseGlossaryReferenceType

diagram	baseGlossaryReferenceType Baza referencji do elementu semantycznego znajdującego się w słowniku lub w tym module. Ma zastosowanie w przypadku: definicji, reguł, pojęć, biogramów, wydarzeń oraz bibliografii. cnxml:linkInlineContentGroup Grupa bazowych elementów dozwolonych wewnątrz łączki, odwołań etc (to co w simpleInlineContentGroup, ale bez innych łączki). Attributes: ep:id type: ep:idType use: required UWAGA! ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniku/bibliografii lub w tym module. ep:target-name type: xs:string use: required Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. ep:local-reference type: xs:boolean use: required Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module. cnxml:linkInlineContentType (extension) ep:bookmark Zakładka - cała łączka cnxml:emphasis INLINE Emfaza (EP Emfaza, EP Emfaza - pogrubienie, EP Emfaza - kursywa + pogrubienie) cnxml:quote type: xs:string derivedBy: extension INLINE Cytat (EP Cytat) cnxml:foreign type: xs:string INLINE Język obcy (EP Język obcy) cnxml:term type: xs:string INLINE Określenie (EP Określenie); Nazwa pojęcia/definicji (EP Nazwa) cnxml:code type: xs:string INLINE Kod (EP Kod) cnxml:newline Przejdzie do nowej linii. Element pusty ("miękki enter"). ep:nbsp Nbsp. Element pusty - znak nbsp ("spacja nielamująca"). ep:tab Tab. Element pusty pozwalający na kontrolę wcięć, szczególnie w cncode. m:math MathML w formie blokowej cnxml:equation type: cnxml:equationType MathML w formie blokowej cnxml:sup type: cnxml:verySimpleInlineContentT Element inline przypis górny cnxml:sub type: cnxml:verySimpleInlineContentT Element inline przypis dolny					
namespace	http://epodreczniki.pl/					
type	extension of cnxml:linkInlineContentType					
properties	base	cnxml:linkInlineContentType				
	mixed	true				
children	ep:bookmark cnxml:emphasis cnxml:quote cnxml:foreign cnxml:term cnxml:code cnxml:newline ep:nbsp ep:tab m:math cnxml:equation cnxml:sup cnxml:sub					
used by	elements	bibliography-reference biography-reference concept-reference event-reference glossary-reference tooltip-reference				
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			documentation

	ep:target-name xs:string ep:local-reference xs:boolean required	UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module. documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.
annotation	documentation Baza referencji do elementu semantycznego znajdującego się w słowniczku lub w tym module. Ma zastosowanie w przypadku: definicji, reguł, pojęć, biogramów, wydarzeń oraz bibliografii.	
source	<pre> <xs:complexType name="baseGlossaryReferenceType" mixed="true"> <xs:annotation> <xs:documentation>Baza referencji do elementu semantycznego znajdującego się w słowniczku lub w tym module. Ma zastosowanie w przypadku: definicji, reguł, pojęć, biogramów, wydarzeń oraz bibliografii.</xs:documentation> </xs:annotation> <xs:complexContent> <xs:extension base="cnxml:linkInlineContentType"> <xs:attribute name="id" type="ep:idType" use="required"> <xs:annotation> <xs:documentation>UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute ref="ep:target-name"/> <xs:attribute name="local-reference" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.</xs:documentation> </xs:annotation> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </pre>	

attribute **baseGlossaryReferenceType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind pattern	Value if[a-zA-Z0-9]{9}(_a-zA-Z0-9)+)? pattern [a-zA-Z0-9_]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter. documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module.		
source	<pre><xs:attribute name="id" type="ep:idType" use="required"> <xs:annotation> <xs:documentation>UWAGA: ep:id w tym przypadku nie jest unikalnym identyfikatorem tego elementu, lecz identyfikatorem celu. Zależnie od typu odwołania wskazuje na definicję, regułę, pojęcie, biogram, wydarzenie lub wpis bibliograficzny znajdujący się w słowniczku/bibliografii lub w tym module.</xs:documentation> </xs:annotation> </xs:attribute></pre>		

attribute **baseGlossaryReferenceType/@local-reference**

namespace	http://epodreczniki.pl/		
type	xs:boolean		
properties	use required		
annotation	documentation Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.		
source	<pre><xs:attribute name="local-reference" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Oznaczenie, czy referencja jest lokalna - prowadzi do elementu zawartego w tym samym module.</xs:documentation> </xs:annotation> </xs:attribute></pre>		

complexType bibliographyPatternType

diagram	
namespace	http://epodreczniki.pl/
properties	mixed true
children	ep:title ep:author ep:booktitle ep:year ep:key ep:edition ep:organization ep:address ep:series ep:editor ep:publisher ep:number ep:journal ep:note ep:howpublished ep:pages
used by	element bibliographyPattern
annotation	documentation Wzór wstawiania bibliografii
source	<pre> <xs:complexType name="bibliographyPatternType" mixed="true"> <xs:annotation> <xs:documentation>Wzór wstawiania bibliografii</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element name="title"> <xs:complexType/> </xs:element> <xs:element name="author"> <xs:complexType/> </xs:element> <xs:element name="booktitle"> <xs:complexType/> </xs:element> </pre>

	<pre><xs:element name="year"> <xs:complexType/> </xs:element> <xs:element name="key"> <xs:complexType/> </xs:element> <xs:element name="edition"> <xs:complexType/> </xs:element> <xs:element name="organization"> <xs:complexType/> </xs:element> <xs:element name="address"> <xs:complexType/> </xs:element> <xs:element name="series"> <xs:complexType/> </xs:element> <xs:element name="editor"> <xs:complexType/> </xs:element> <xs:element name="publisher"> <xs:complexType/> </xs:element> <xs:element name="number"> <xs:complexType/> </xs:element> <xs:element name="journal"> <xs:complexType/> </xs:element> <xs:element name="note"> <xs:complexType/> </xs:element> <xs:element name="howpublished"> <xs:complexType/> </xs:element> <xs:element name="pages"> <xs:complexType/> </xs:element> </xs:choice> </xs:complexType></pre>

element **bibliographyPatternType/title**

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="title"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/author

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
used by	complexType quoteType
source	<pre><xs:element name="author"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/booktitle

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="booktitle"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/year

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="year"> <xs:complexType/> </xs:element></pre>

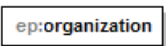
element bibliographyPatternType/key

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="key"> <xs:complexType/> </xs:element></pre>

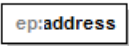
element bibliographyPatternType/edition

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="edition"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/organization

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="organization"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/address

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="address"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/series

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="series"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/editor

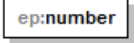
diagram	

namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="editor"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/publisher

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="publisher"> <xs:complexType/> </xs:element></pre>

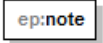
element bibliographyPatternType/number

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="number"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/journal

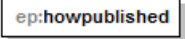
diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="journal"> <xs:complexType/> </xs:element></pre>

element bibliographyPatternType/note

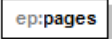
diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="note"></pre>

	<pre><xs:complexType/> </xs:element></pre>

element **bibliographyPatternType/howpublished**

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="howpublished"> <xs:complexType/> </xs:element></pre>

element **bibliographyPatternType/pages**

diagram	
namespace	http://epodreczniki.pl/
properties	content complex
source	<pre><xs:element name="pages"> <xs:complexType/> </xs:element></pre>

complexType biographyType

diagram						
namespace	http://epodreczniki.pl/					
children	ep:name ep:sorting-key ep:birth ep:death ep:reference ep:gallery ep:content					
used by	element biography					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:glossary	xs:boolean	required			documentation Oznaczenie, czy element ma trafić do słowniczka,

	czy nie
annotation	documentation Typ biogram
source	<pre> <xs:complexType name="biographyType"> <xs:annotation> <xs:documentation>Typ biogram</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:name"> <xs:annotation> <xs:documentation>Imie i nazwisko (EP Name)</xs:documentation> </xs:annotation> </xs:element> <xs:element name="sorting-key" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Klucz sortowania</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:birth" minOccurs="0"/> <xs:element ref="ep:death" minOccurs="0"/> <xs:element ref="ep:reference" minOccurs="0"> <xs:annotation> <xs:documentation>Referencja do WOMI. UWAGA: Referencja WOMI w biogramie ma ograniczoną liczbę właściwości. Elementy, które należy uwzględnić to: ep:reading-room, ep:zoomable, ep:hide-caption oraz ep:content. Uwaga ta dotyczy się również referencji do WOMI zawartych w ep:gallery w biogramie.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:gallery" minOccurs="0"> <xs:annotation> <xs:documentation>Galeria WOMI. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerie: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista wideo. Atrybuty galerii slideshow (A): id [R], start-on, thumbnails, titles, format-contents. Atrybuty galerii grid (B): id [R], view-width [R], view-height[R]. Atrybuty galerii miniatures (C): id [R], miniatures-only [R]=true, thumbnails, titles, format-contents. Atrybuty galerii playlist (D): id [R], start-on, thumbnails, titles, format-contents, playlist [R]. UWAGA: Galeria WOMI wewnątrz biogramu ma ograniczoną liczbę opcji. Atrybuty przyjmują stałe wartości: ep:miniatures-only="true", ep:format-contents="hide-normal", a tytuł jest kopią zawartości ep:name.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="content" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Zawartość biogramu. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOMI.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute ref="ep:glossary" use="required"/> </xs:complexType> </pre>

attribute **biographyType/@id**

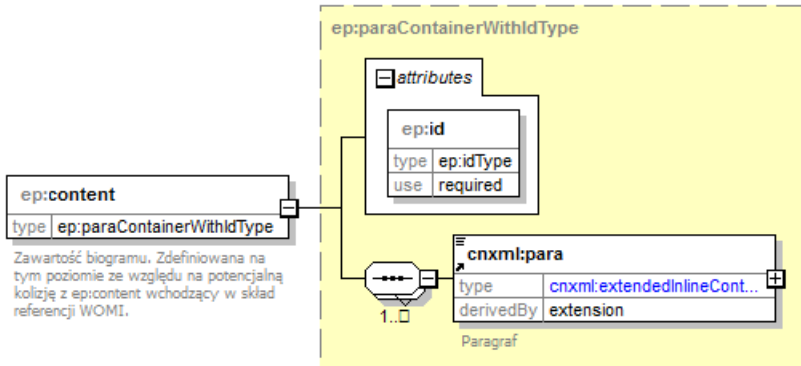
namespace	http://epodreczniki.pl/

type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

element **biographyType/sorting-key**

diagram	
namespace	http://epodreczniki.pl/
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Klucz sortowania
source	<pre><xs:element name="sorting-key" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Klucz sortowania</xs:documentation> </xs:annotation> </xs:element></pre>

element **biographyType/content**

diagram							
namespace	http://epodreczniki.pl/						
type	ep:paraContainerWithIdType						
properties	content complex						
children	cnxml:para						
used by	group contentGroup						
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead></table>	Name	Type	Use	Default	Fixed	Annotation
Name	Type	Use	Default	Fixed	Annotation		

	ep:id idType required
annotation	documentation Zawartość biogramu. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOMI.
source	<pre> <xs:element name="content" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Zawartość biogramu. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOMI.</xs:documentation> </xs:annotation> </xs:element> </pre>

complexType commandType

diagram						
namespace	http://epodreczniki.pl/					
children	cnxml:problem cnxml:note ep:work-area					
used by	element command					
attributes	Name ep:id ep:type	Type idType derived by: xs:string	Use required	Default	Fixed	Annotation documentation Typ polecenia. Narazie tylko dodany dla zdefiniowania debaty.

	ep:presentation-variant derived by: xs:string	documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Typ command (EP Polecenie)	
source	<pre> <xs:complexType name="commandType"> <xs:annotation> <xs:documentation>Typ command (EP Polecenie)</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>UWAGA: W commandType mogą wystąpić tylko notki typu: tip, important, warning</xs:documentation> </xs:annotation> <xs:element ref="cnxml:problem"/> <xs:element ref="cnxml:note"/> <xs:element ref="ep:work-area" minOccurs="0" maxOccurs="unbounded"/> </xs:choice> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="type"> <xs:annotation> <xs:documentation>Typ polecenia. Narazie tylko dodany dla zdefiniowania debaty.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="debate"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute ref="ep:presentation-variant"/> </xs:complexType> </pre>	

attribute **commandType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	if[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora utworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie utworzonych przez konwerter.

source	<xs:attribute name="id" type="ep:idType" use="required"/>

attribute **commandType/@type**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
facets	Kind enumeration	Value debate	Annotation
annotation	documentation Typ polecenia. Narazie tylko dodany dla zdefiniowania debaty.		
source	<pre> <xs:attribute name="type"> <xs:annotation> <xs:documentation>Typ polecenia. Narazie tylko dodany dla zdefiniowania debaty.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="debate"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

complexType configType

diagram	ep:behaviour <table border="1"> <tr> <td>type</td> <td>ep:behaviourType</td> </tr> </table> Element dla sposób przetwarzania odpowiedzi w zadaniu z elementami losowości. ep:presented-answers <table border="1"> <tr> <td>type</td> <td>xs:positiveInteger</td> </tr> <tr> <td>derivedBy</td> <td>restriction</td> </tr> <tr> <td>min/maxIncl</td> <td>2</td> </tr> </table> Element dla liczby prezentowanych odpowiedzi w zadaniu z elementami losowości. UWAGA: dozwolone wartości dla liczby prezentowanych odpowiedzi zależą od wartości ep:behaviour oraz count(q:item/q:answer). ep:correct-in-set <table border="1"> <tr> <td>type</td> <td>xs:string</td> </tr> <tr> <td>derivedBy</td> <td>restriction</td> </tr> <tr> <td>pattern</td> <td>(\d+)?[1-9]\d*</td> </tr> </table> Element dla liczby poprawnych odpowiedzi w zestawie w zadaniu z elementami losowości w momencie, gdy mamy doczynienia z pytaniem wielokrotnej odpowiedzi. UWAGA: zakres zależy od ep:presented-answers oraz count(q:item/q:answer). ep:presentation-style <table border="1"> <tr> <td>type</td> <td>xs:string</td> </tr> <tr> <td>derivedBy</td> <td>restriction</td> </tr> </table> Element określający typ prezentowania odpowiedzi w przypadku zadań z elementami losowości. Uwaga: ma zastosowanie w przypadku, gdy mamy do czynienia z q:item/@type='multiple-response'. configType Typ konfiguracji zadania z elementami losowości.	type	ep:behaviourType	type	xs:positiveInteger	derivedBy	restriction	min/maxIncl	2	type	xs:string	derivedBy	restriction	pattern	(\d+)?[1-9]\d*	type	xs:string	derivedBy	restriction
type	ep:behaviourType																		
type	xs:positiveInteger																		
derivedBy	restriction																		
min/maxIncl	2																		
type	xs:string																		
derivedBy	restriction																		
pattern	(\d+)?[1-9]\d*																		
type	xs:string																		
derivedBy	restriction																		
namespace	http://epodreczniki.pl/																		
children	ep:behaviour ep:presented-answers ep:correct-in-set ep:presentation-style																		
used by	element config																		
annotation	documentation Typ konfiguracji zadania z elementami losowości.																		
source	<pre> <xs:complexType name="configType"> <xs:annotation> <xs:documentation>Typ konfiguracji zadania z elementami losowości.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:behaviour"/> <xs:element ref="ep:presented-answers"/> <xs:element ref="ep:correct-in-set" minOccurs="0"/> <xs:element ref="ep:presentation-style" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>																		

complexType contentType

diagram						
namespace	http://epodreczniki.pl/					
properties	mixed true					
children	m:math cnxml:newline ep:nbspace cnxml:emphasis bib:entry					
used by	element content					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:format	derived by: xs:string	required			documentation Format dla którego przeznaczony jest tekst skojarzony.
annotation	documentation Tekst skojarzony z WOMI lub galerią WOMI.					
source	<pre> <xs:complexType name="contentType" mixed="true"> <xs:annotation> <xs:documentation>Tekst skojarzony z WOMI lub galerią WOMI.</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="mml:math"/> <xs:element ref="cnxml:newline"/> <xs:element ref="ep:nbspace"/> <xs:element ref="cnxml:emphasis"/> </xs:choice> </xs:complexType> </pre>					

	<pre> <xs:element ref="bib:entry"/> </xs:choice> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="format" use="required"> <xs:annotation> <xs:documentation>Format dla którego przeznaczony jest tekst skojarzony.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="classic"/> <xs:enumeration value="mobile"/> <xs:enumeration value="static"/> <xs:enumeration value="static-mono"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>

attribute **contentType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **contentType/@format**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	classic	
	enumeration	mobile	
	enumeration	static	
	enumeration	static-mono	
annotation	documentation Format dla którego przeznaczony jest tekst skojarzony.		
source	<pre> <xs:attribute name="format" use="required"> <xs:annotation> <xs:documentation>Format dla którego przeznaczony jest tekst skojarzony.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="classic"/> </pre>		

	<pre> <xs:enumeration value="mobile"/> <xs:enumeration value="static"/> <xs:enumeration value="static-mono"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

complexType core-curriculum-abilityType

diagram						
namespace	http://epodreczniki.pl/					
properties	mixed true					
children	m:math cnxml:sup cnxml:sub					
used by	element core-curriculum-ability					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:key	xs:string	required			
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre> <xs:complexType name="core-curriculum-abilityType" mixed="true"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="mml:math"/> <xs:element ref="cnxml:sup"/> <xs:element ref="cnxml:sub"/> </xs:choice> <xs:attribute name="key" type="xs:string" use="required"/> </xs:complexType> </pre>					

attribute core-curriculum-abilityType/@key

namespace	http://epodreczniki.pl/
type	xs:string
properties	use required

source	<code><xs:attribute name="key" type="xs:string" use="required"/></code>

complexType core-curriculum-entriesType

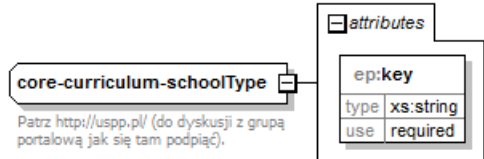
diagram	
namespace	http://epodreczniki.pl/
children	ep:core-curriculum-entry
used by	element core-curriculum-entries
annotation	documentation Typ dla grupy wpisów zgodnych z podstawą programową pochodzących z USPP
source	<pre> <xs:complexType name="core-curriculum-entriesType"> <xs:annotation> <xs:documentation>Typ dla grupy wpisów zgodnych z podstawą programową pochodzących z USPP</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:core-curriculum-entry" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>

complexType core-curriculum-entryType

diagram	
namespace	http://epodreczniki.pl/
children	ep:core-curriculum-stage ep:core-curriculum-school ep:core-curriculum-subject ep:core-curriculum-version ep:core-curriculum-ability

used by	element core-curriculum-entry
annotation	documentation Typ dla wpisu zgodnego z podstawą programową pochodzącą z USPP
source	<pre> <xs:complexType name="core-curriculum-entryType"> <xs:annotation> <xs:documentation>Typ dla wpisu zgodnego z podstawą programową pochodzącą z USPP</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:core-curriculum-stage"/> <xs:element ref="ep:core-curriculum-school"/> <xs:element ref="ep:core-curriculum-subject"/> <xs:element ref="ep:core-curriculum-version" minOccurs="0"/> <xs:element ref="ep:core-curriculum-ability" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

complexType **core-curriculum-schoolType**

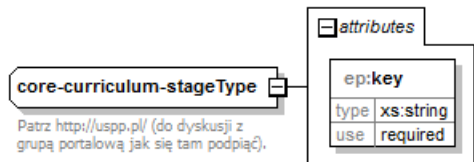
diagram						
namespace	http://epodreczniki.pl/					
type	extension of xs:string					
properties	base xs:string					
used by	element core-curriculum-school					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre> <xs:complexType name="core-curriculum-schoolType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="key" type="xs:string" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType> </pre>					

attribute **core-curriculum-schoolType/@key**

namespace	http://epodreczniki.pl/
type	xs:string
properties	use required

source	<code><xs:attribute name="key" type="xs:string" use="required"/></code>

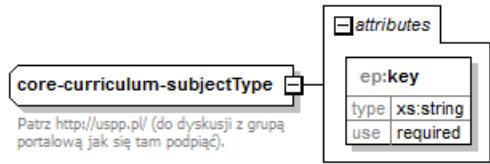
complexType core-curriculum-stageType

diagram						
namespace	http://epodreczniki.pl/					
type	extension of xs:string					
properties	base xs:string					
used by	element core-curriculum-stage					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre> <xs:complexType name="core-curriculum-stageType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="key" type="xs:string" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType> </pre>					

attribute core-curriculum-stageType/@key

namespace	http://epodreczniki.pl/
type	xs:string
properties	use required
source	<code><xs:attribute name="key" type="xs:string" use="required"/></code>

complexType core-curriculum-subjectType

diagram						
namespace	http://epodreczniki.pl/					
type	extension of xs:string					

properties	base xs:string					
used by	element core-curriculum-subject					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre><xs:complexType name="core-curriculum-subjectType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="key" type="xs:string" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType></pre>					

attribute **core-curriculum-subjectType/@key**

namespace	http://epodreczniki.pl/
type	xs:string
properties	use required
source	<pre><xs:attribute name="key" type="xs:string" use="required"/></pre>

complexType **core-curriculum-versionType**

diagram						
namespace	http://epodreczniki.pl/					
type	extension of xs:string					
properties	base xs:string					
used by	element core-curriculum-version					
attributes	Name ep:key	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).					
source	<pre><xs:complexType name="core-curriculum-versionType"> <xs:annotation> <xs:documentation>Patrz http://uspp.pl/ (do dyskusji z grupą portalową jak się tam podpiąć).</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="key" type="xs:string" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType></pre>					

	<code></xs:extension></code> <code></xs:simpleContent></code> <code></xs:complexType></code>

attribute **core-curriculum-versionType/@key**

namespace	http://epodreczniki.pl/
type	xs:string
properties	use required
source	<code><xs:attribute name="key" type="xs:string" use="required"/></code>

complexType **datePartType**

diagram	
namespace	http://epodreczniki.pl/
children	ep:year ep:month ep:day
used by	elements dateType/date-end dateType/date-start
annotation	documentation Typ składowa daty
source	<pre> <xs:complexType name="datePartType"> <xs:annotation> <xs:documentation>Typ składowa daty</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="year" type="xs:int"/> <xs:element name="month" minOccurs="0"> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="12"/> </xs:restriction> </xs:simpleType> </xs:element> <xs:element name="day" minOccurs="0"> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="31"/> </xs:restriction> </xs:simpleType> </xs:element> </xs:sequence> </xs:complexType> </pre>

	<code></xs:element></code> <code></xs:sequence></code> <code></xs:complexType></code>

element **datePartType/year**

diagram	 A diagram showing an element named 'ep:year' with a type of 'xs:int'.
namespace	http://epodreczniki.pl/
type	xs:int
properties	content simple
source	<code><xs:element name="year" type="xs:int"/></code>

element **datePartType/month**

diagram										
namespace	http://epodreczniki.pl/									
type	restriction of xs:positiveInteger									
properties	minOcc 0 maxOcc 1 content simple									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minInclusive</td><td>1</td><td></td></tr><tr><td>maxInclusive</td><td>12</td><td></td></tr></table>	Kind	Value	Annotation	minInclusive	1		maxInclusive	12	
Kind	Value	Annotation								
minInclusive	1									
maxInclusive	12									
source	<pre><xs:element name="month" minOccurs="0"> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="12"/> </xs:restriction> </xs:simpleType> </xs:element></pre>									

element **datePartType/day**

diagram	 A diagram showing an element named 'ep:day' with a type of 'xs:positiveInteger', derived by 'restriction', and min/maxIncl values of 1 and 31.
namespace	http://epodreczniki.pl/
type	restriction of xs:positiveInteger
properties	minOcc 0 maxOcc 1

	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 31
source	<pre><xs:element name="day" minOccurs="0"> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="31"/> </xs:restriction> </xs:simpleType> </xs:element></pre>

complexType dateType

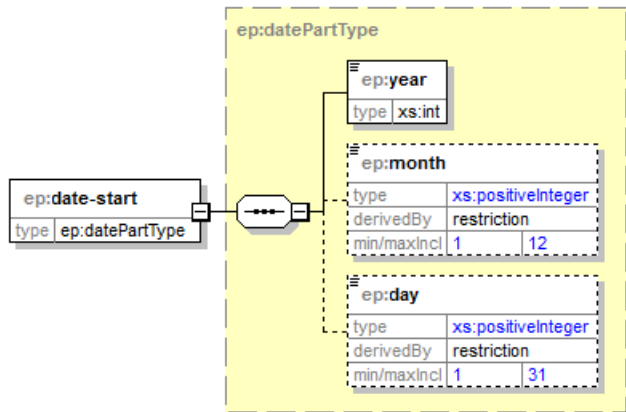
diagram						
namespace	http://epodreczniki.pl/					
children	ep:date-start ep:date-end					
used by	element date					
attributes	Name ep:type	Type derived by: xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Typ data					
source	<pre><xs:complexType name="dateType"> <xs:annotation> <xs:documentation>Typ data</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="date-start" type="ep:datePartType"/> <xs:element name="date-end" type="ep:datePartType" minOccurs="0"> <xs:annotation> <xs:documentation>End date musi być zdefiniowane dla opcji: century, beginning-of-century, end-of-century, middle-of-century, turn-of-century</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> <xs:attribute name="type" use="required"> <xs:simpleType></pre>					

	<pre> <xs:restriction base="xs:string"> <xs:enumeration value="century"/> <xs:enumeration value="year"/> <xs:enumeration value="date"/> <xs:enumeration value="around-year"/> <xs:enumeration value="beginning-of-century"/> <xs:enumeration value="end-of-century"/> <xs:enumeration value="middle-of-century"/> <xs:enumeration value="turn-of-century"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>

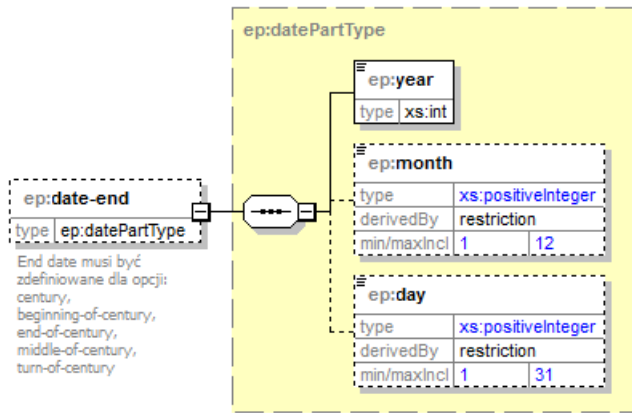
attribute **dateType/@type**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	century	
	enumeration	year	
	enumeration	date	
	enumeration	around-year	
	enumeration	beginning-of-century	
	enumeration	end-of-century	
	enumeration	middle-of-century	
	enumeration	turn-of-century	
source	<pre> <xs:attribute name="type" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="century"/> <xs:enumeration value="year"/> <xs:enumeration value="date"/> <xs:enumeration value="around-year"/> <xs:enumeration value="beginning-of-century"/> <xs:enumeration value="end-of-century"/> <xs:enumeration value="middle-of-century"/> <xs:enumeration value="turn-of-century"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

element **dateType/date-start**

diagram	
namespace	http://epodreczniki.pl/
type	ep:datePartType
properties	content complex
children	ep:year ep:month ep:day
source	<code><xs:element name="date-start" type="ep:datePartType"/></code>

element **dateType/date-end**

diagram	
namespace	http://epodreczniki.pl/
type	ep:datePartType
properties	minOcc 0 maxOcc 1 content complex
children	ep:year ep:month ep:day
annotation	documentation End date musi być zdefiniowane dla opcji: century, beginning-of-century, end-of-century, middle-of-century, turn-of-century
source	<pre> <xs:element name="date-end" type="ep:datePartType" minOccurs="0"> <xs:annotation> <xs:documentation>End date musi być zdefiniowane dla opcji: century, beginning-of-century, end-of-century, middle-of-century, turn-of-century</xs:documentation> </xs:annotation> </pre>

</xs:element>

complexType e-textbook-moduleType

diagram						
namespace	http://epodreczniki.pl/					
children	ep:references ep:generated-type ep:presentation ep:core-curriculum-entries					
used by	element e-textbook-module					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:version	xs:string	required		1.5	
annotation	documentation Typ dla rozszerzeń metadanych stworzonych na potrzeby e-podręczników.					
source	<pre><xs:complexType name="e-textbook-moduleType"> <xs:annotation> <xs:documentation>Typ dla rozszerzeń metadanych stworzonych na potrzeby e- podręczników.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:references" minOccurs="0"/> <xs:element ref="ep:generated-type" minOccurs="0"/> <xs:element ref="ep:presentation"/> <xs:element ref="ep:core-curriculum-entries" minOccurs="0"/> </xs:sequence> <xs:annotation> <xs:documentation>Element dla grupy wpisów zgodnych z podstawą programową pochodzących z USPP. UWAGA: W każdym module poza technicznymi jest potrzebne minimum jedno hasło podstawy programowej.</xs:documentation> </xs:annotation> </xs:complexType></pre>					

	<pre> </xs:element> </xs:sequence> <xs:attribute name="version" type="xs:string" use="required" fixed="1.5"/> </xs:complexType> </pre>

attribute **e-textbook-moduleType/@version**

namespace	http://epodreczniki.pl/				
type	xs:string				
properties	<table> <tr> <td>use</td><td>required</td></tr> <tr> <td>fixed</td><td>1.5</td></tr> </table>	use	required	fixed	1.5
use	required				
fixed	1.5				
source	<pre><xs:attribute name="version" type="xs:string" use="required" fixed="1.5"/></pre>				

complexType **effectType**

diagram						
namespace	http://epodreczniki.pl/					
type	extension of ep:paraContainerWithIdType					
properties	base ep:paraContainerWithIdType					
children	cnxml:para					
used by	element effect					
attributes	Name ep:id ep:type	Type idType derived by: xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Typ elementu effect (EP Nauczysz się). Typ służy do stworzenia labeli: Co wiem, Co potrafię, Co rozumiem					
source	<pre><xs:complexType name="effectType"> <xs:annotation> <xs:documentation>Typ elementu effect (EP Nauczysz się). Typ służy do stworzenia labeli: Co wiem, Co potrafię, Co rozumiem</xs:documentation> </xs:annotation> <xs:complexContent></pre>					

	<pre> <xs:extension base="ep:paraContainerWithIdType"> <xs:attribute name="type"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="skill"/> <xs:enumeration value="knowledge"/> <xs:enumeration value="understanding"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </pre>

attribute **effectType/@type**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	skill	
	enumeration	knowledge	
	enumeration	understanding	
source	<pre> <xs:attribute name="type"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="skill"/> <xs:enumeration value="knowledge"/> <xs:enumeration value="understanding"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

complexType eventType

diagram	ep:id type <code>ep:idType</code> use <code>required</code> ep:glossary type <code>xs:boolean</code> use <code>required</code> Oznaczenie, czy element ma trafić do słownika, czy nie ep:name type <code>cnxml:simplelineContentType</code> Nazwa (EP Nazwa) ep:sorting-key type <code>xs:string</code> Klucz sortowania ep:event-start type <code>ep:startEndType</code> Element początek wydarzenia ep:event-end type <code>ep:startEndType</code> Element koniec wydarzenia ep:reference type <code>ep:referenceType</code> Referencja do WOMI. UWAGA: Referencja WOMI w wydarzeniu ma ograniczoną liczbę właściwości. Elementy, które należy uwzględnić to: <code>ep:reading-room</code>, <code>ep:zoomable</code>, <code>ep:hide-caption</code> oraz <code>ep:content</code>. Uwaga ta dotyczy się również referencji do WOMI zawartych w <code>ep:gallery</code> w wydarzeniu. ep:gallery type <code>ep:galleryType</code> Galeria WOMI. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerie: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista video. Atrybuty galerii <code>slideshow (A)</code>: <code>id</code> [R], <code>start-on</code>, <code>thumbnails</code>, <code>titles</code>, <code>format-contents</code>. Atrybuty galerii <code>grid (B)</code>: <code>id</code> [R], <code>view-width</code> [R], <code>view-height</code> [R]. Atrybuty galerii <code>miniatures (C)</code>: <code>id</code> [R], <code>miniatures-only</code> [R]=true, <code>thumbnails</code>, <code>titles</code>, <code>format-contents</code>. Atrybuty galerii <code>playlist (D)</code>: <code>id</code> [R], <code>start-on</code>, <code>thumbnails</code>, <code>titles</code>, <code>format-contents</code>, <code>playlist</code> [R]. UWAGA: Galeria WOMI wewnątrz wydarzenia ma ograniczoną liczbę opcji. Atrybuty przyjmują stałe wartości: <code>ep:miniatures-only="true"</code>, <code>ep:format-contents="hide-no rml"</code>, a tytuł jest kopią zawartości <code>ep:name</code>. ep:content type <code>ep:paraContainerWithIdType</code> Zawartość wydarzenia. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z <code>ep:content</code> wchodzący w skład referencji WOMI.					
namespace	http://epodreczniki.pl/					
children	ep:name ep:sorting-key ep:event-start ep:event-end ep:reference ep:gallery ep:content					
used by	element event					
attributes	Name ep:id ep:glossary	Type idType xs:boolean	Use required required	Default	Fixed	Annotation documentation Oznaczenie, czy element ma trafić do słownika,

	czy nie
annotation	documentation Typ wydarzenie
source	<pre> <xs:complexType name="eventType"> <xs:annotation> <xs:documentation>Typ wydarzenie</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:name"> <xs:annotation> <xs:documentation>Nazwa (EP Nazwa)</xs:documentation> </xs:annotation> </xs:element> <xs:element name="sorting-key" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Klucz sortowania</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:event-start" minOccurs="0"/> <xs:element ref="ep:event-end" minOccurs="0"/> <xs:element ref="ep:reference" minOccurs="0"> <xs:annotation> <xs:documentation>Referencja do WOMI. UWAGA: Referencja WOMI w wydarzeniu ma ograniczoną liczbę właściwości. Elementy, które należy uwzględnić to: ep:reading-room, ep:zoomable, ep:hide-caption oraz ep:content. Uwaga ta dotyczy się również referencji do WOMI zawartych w ep:gallery w wydarzeniu.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:gallery" minOccurs="0"> <xs:annotation> <xs:documentation>Galeria WOMI. UWAGA: w zależności od typu galerii, wymagane są różne zestawy atrybutów ([R] - wymagany). Galerie: A - pokaz slajdów, B - siatka, C - pozioma, D - playlista wideo. Atrybuty galerii slideshow (A): id [R], start-on, thumbnails, titles, format-contents. Atrybuty galerii grid (B): id [R], view-width [R], view-height[R]. Atrybuty galerii miniatures (C): id [R], miniatures-only [R]=true, thumbnails, titles, format-contents. Atrybuty galerii playlist (D): id [R], start-on, thumbnails, titles, format-contents, playlist [R]. UWAGA: Galeria WOMI wewnątrz wydarzenia ma ograniczoną liczbę opcji. Atrybuty przyjmują stałe wartości: ep:miniatures-only="true", ep:format-contents="hide-normal", a tytuł jest kopią zawartości ep:name.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="content" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Zawartość wydarzenia. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOMI.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute ref="ep:glossary" use="required"/> </xs:complexType> </pre>

attribute **eventType**@id

namespace	http://epodreczniki.pl/

type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

element eventType/sorting-key

diagram	
namespace	http://epodreczniki.pl/
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Klucz sortowania
source	<pre><xs:element name="sorting-key" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Klucz sortowania</xs:documentation> </xs:annotation> </xs:element></pre>

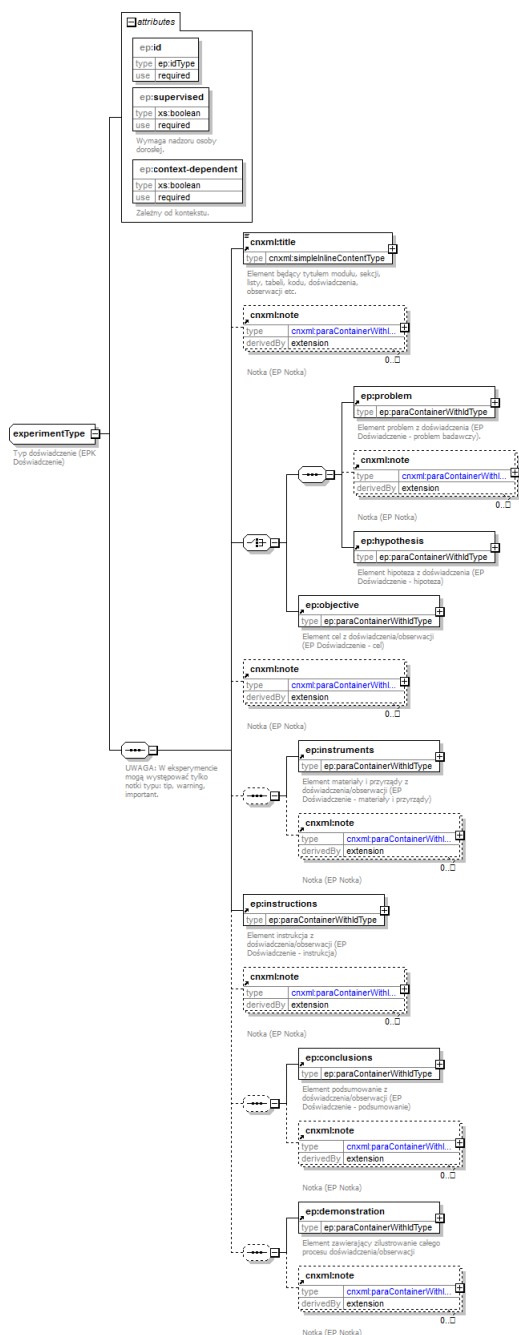
element eventType/content

diagram	ep:content type ep:paraContainerWithIdType Zawartość wydarzenia. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOM1. attributes ep:id type ep:idType use required cnxml:para type cnxml:extendedInlineCont... derivedBy extension 1..1 Paragraf						
namespace	http://epodreczniki.pl/						
type	ep:paraContainerWithIdType						
properties	content complex						
children	cnxml:para						
used by	group contentGroup						
attributes	<table><tr><td>Name</td><td>Type</td><td>Use</td><td>Default</td><td>Fixed</td><td>Annotation</td></tr></table>	Name	Type	Use	Default	Fixed	Annotation
Name	Type	Use	Default	Fixed	Annotation		

	ep:id idType required
annotation	documentation Zawartość wydarzenia. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOMI.
source	<pre> <xs:element name="content" type="ep:paraContainerWithIdType"> <xs:annotation> <xs:documentation>Zawartość wydarzenia. Zdefiniowana na tym poziomie ze względu na potencjalną kolizję z ep:content wchodzący w skład referencji WOMI.</xs:documentation> </xs:annotation> </xs:element> </pre>

complexType experimentType

diagram



namespace <http://epodreczniki.pl/>

children [cnxml:title](#) [cnxml:note](#) [ep:problem](#) [ep:hypothesis](#) [ep:objective](#) [ep:instruments](#) [ep:instructions](#) [ep:conclusions](#) [ep:demonstration](#)

used by element [experiment](#)

attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:supervised	xs:boolean	required			documentation Wymaga nadzoru osoby dorosłej.

	ep:context-dependent	xs:boolean	required	documentation Zależny od kontekstu.
annotation	documentation Typ doświadczenie (EPK Doświadczenie)			
source	<pre> <xs:complexType name="experimentType"> <xs:annotation> <xs:documentation>Typ doświadczenie (EPK Doświadczenie)</xs:documentation> </xs:annotation> <xs:sequence> <xs:annotation> <xs:documentation>UWAGA: W eksperymencie mogą występować tylko notki typu: tip, warning, important.</xs:documentation> </xs:annotation> <xs:element ref="cnxml:title"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> <xs:choice> <xs:sequence> <xs:element ref="ep:problem"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="ep:hypothesis"/> </xs:sequence> <xs:element ref="ep:objective"/> </xs:choice> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> <xs:sequence minOccurs="0"> <xs:element ref="ep:instruments"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:element ref="ep:instructions"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> <xs:sequence minOccurs="0"> <xs:element ref="ep:conclusions"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:sequence minOccurs="0"> <xs:element ref="ep:demonstration"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="supervised" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Wymaga nadzoru osoby dorosłej.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="context-dependent" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Zależny od kontekstu.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>			

attribute **experimentType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **experimentType/@supervised**

namespace	http://epodreczniki.pl/		
type	xs:boolean		
properties	use required		
annotation	documentation Wymaga nadzoru osoby dorosłej.		
source	<xs:attribute name="supervised" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Wymaga nadzoru osoby dorosłej.</xs:documentation> </xs:annotation> </xs:attribute>		

attribute **experimentType/@context-dependent**

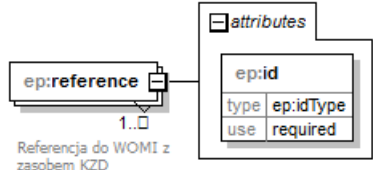
namespace	http://epodreczniki.pl/		
type	xs:boolean		
properties	use required		
annotation	documentation Zależny od kontekstu.		
source	<xs:attribute name="context-dependent" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Zależny od kontekstu.</xs:documentation> </xs:annotation> </xs:attribute>		

complexType **externalType**

diagram	<pre> classDiagram class externalType { } class ep_reference["ep:reference"] { } externalType -- "1" ep_reference </pre>		
namespace	http://epodreczniki.pl/		
children	ep:reference		
used by	element external		

annotation	documentation Powiązanie z modułem zasobów z KZD
source	<pre> <xs:complexType name="externalType"> <xs:annotation> <xs:documentation>Powiązanie z modułem zasobów z KZD</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="reference" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Referencja do WOMI z zasobem KZD</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </pre>

element **externalType/reference**

diagram						
namespace	http://epodreczniki.pl/					
properties	minOcc 1 maxOcc unbounded content complex					
used by	complexTypes alternativeType biographyType eventType exerciseType galleryType module-headerType group extendedInlineContentGroup					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Referencja do WOMI z zasobem KZD					
source	<pre> <xs:element name="reference" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Referencja do WOMI z zasobem KZD</xs:documentation> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> </xs:complexType> </xs:element> </pre>					

attribute **externalType/reference/@id**

namespace	http://epodreczniki.pl/				
type	idType				
properties	use required				
facets	Kind pattern	Value i[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	Annotation documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez		

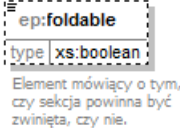
	pattern [a-zA-Z0-9_]+	konwerter. documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>	

complexType firstLevelSectionParametersType

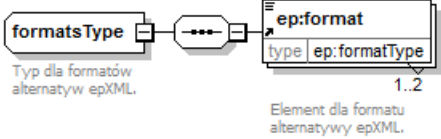
diagram		
namespace	http://epodreczniki.pl/	
children	ep:role ep:columns ep:start-new-page ep:foldable ep:stretch ep:stretch-title	
used by	element firstLevelSectionParametersGroup/parameters	
annotation	documentation Typ parametrów dla sekcji pierwszego stopnia	
source	<xs:complexType name="firstLevelSectionParametersType"> <xs:annotation>	

	<pre> <xs:documentation>Typ parametrów dla sekcji pierwszego stopnia</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:role" minOccurs="0"/> <xs:element ref="ep:columns"/> <xs:element ref="ep:start-new-page" minOccurs="0"/> <xs:element name="foldable" type="xs:boolean" minOccurs="0"> <xs:annotation> <xs:documentation>Element mówiący o tym, czy sekcja powinna być zwinięta, czy nie.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:stretch" minOccurs="0"/> <xs:element ref="ep:stretch-title" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

element **firstLevelSectionParametersType/foldable**

diagram	
namespace	http://epodreczniki.pl/
type	xs:boolean
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Element mówiący o tym, czy sekcja powinna być zwinięta, czy nie.
source	<pre> <xs:element name="foldable" type="xs:boolean" minOccurs="0"> <xs:annotation> <xs:documentation>Element mówiący o tym, czy sekcja powinna być zwinięta, czy nie.</xs:documentation> </xs:annotation> </xs:element> </pre>

complexType **formatsType**

diagram	
namespace	http://epodreczniki.pl/
children	ep:format
used by	element formats
annotation	documentation Typ dla formatów alternatyw epXML.
source	<pre> <xs:complexType name="formatsType"> </pre>

	<pre><xs:annotation> <xs:documentation>Typ dla formatów alternatyw epXML. </xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:format" maxOccurs="2"> <xs:annotation> <xs:documentation>Element dla formatu alternatywy epXML. </xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType></pre>

complexType galleryType

diagram						
namespace	http://epodreczniki.pl/					
children	cnxml:title ep:content ep:reference					
used by	element gallery					
attributes	Name ep:id ep:start-on	Type idType xs:positiveInteger	Use required	Default	Fixed	Annotation documentation Numer elementu, który ma być aktywnego po

	ep:miniatures-only xs:boolean ep:thumbnails ep:galleryOptionsVisibilityType ep:titles ep:galleryOptionsVisibilityType ep:format-contents ep:galleryOptionsVisibilityType ep:view-width derived by: xs:positiveInteger ep:view-height derived by: xs:positiveInteger ep:playlist derived by: xs:string	załadowaniu się galerii. documentation Oznaczenie, czy jest to galeria składająca się tylko z miniatur bez elementu głównego - galeria typu C. documentation Widoczność miniatur galerii. documentation Widoczność tytułów galerii oraz WOMI. documentation Widoczność tekstów skojarzonych z galerią oraz WOMI. documentation Szerokość siatki galerii. documentation Wysokość siatki galerii. documentation Sposób odtwarzania elementów playlisty
annotation	documentation Galeria WOMI.	
source	<pre> <xs:complexType name="galleryType"> <xs:annotation> <xs:documentation>Galeria WOMI.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:title" minOccurs="0"/> <xs:group ref="ep:contentGroup" minOccurs="0"/> <xs:element ref="ep:reference" minOccurs="0" maxOccurs="unbounded"> <xs:annotation> <xs:documentation>Referencja do WOMI. UWAGA: W galerii powinny być minimum 2 WOMI, ale ze względu na możliwość wstawiania nowych galerii trzeba to sprawdzić w momencie zapisywania modułów.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="start-on" type="xs:positiveInteger"> <xs:annotation> <xs:documentation>Numer elementu, który ma być aktywnego po załadowaniu się galerii.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="miniatures-only" type="xs:boolean"> <xs:annotation> <xs:documentation>Oznaczenie, czy jest to galeria składająca się tylko z miniatur bez </pre>	

```

elementu głównego - galeria typu C.</xs:documentation>
</xs:annotation>
</xs:attribute>
<xs:attribute name="thumbnails" type="ep:galleryOptionsVisibilityType">
  <xs:annotation>
    <xs:documentation>Widoczność miniatur galerii.</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="titles" type="ep:galleryOptionsVisibilityType">
  <xs:annotation>
    <xs:documentation>Widoczność tytułów galerii oraz WOMI.</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="format-contents" type="ep:galleryOptionsVisibilityType">
  <xs:annotation>
    <xs:documentation>Widoczność tekstów skojarzonych z galerią oraz
WOMI.</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="view-width">
  <xs:annotation>
    <xs:documentation>Szerokość siatki galerii.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:positiveInteger">
      <xs:minInclusive value="1"/>
      <xs:maxInclusive value="8"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="view-height">
  <xs:annotation>
    <xs:documentation>Wysokość siatki galerii.</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:positiveInteger">
      <xs:minInclusive value="1"/>
      <xs:maxInclusive value="8"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="playlist">
  <xs:annotation>
    <xs:documentation>Sposób odtwarzania elementów playlisty</xs:documentation>
  </xs:annotation>
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="autoplay"/>
      <xs:enumeration value="pause"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

attribute **galleryType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **galleryType/@start-on**

namespace	http://epodreczniki.pl/		
type	xs:positiveInteger		
annotation	documentation Numer elementu, który ma być aktywnego po załadowaniu się galerii.		
source	<xs:attribute name="start-on" type="xs:positiveInteger"> <xs:annotation> <xs:documentation>Numer elementu, który ma być aktywnego po załadowaniu się galerii.</xs:documentation> </xs:annotation> </xs:attribute>		

attribute **galleryType/@miniatures-only**

namespace	http://epodreczniki.pl/		
type	xs:boolean		
annotation	documentation Oznaczenie, czy jest to galeria składająca się tylko z miniatur bez elementu głównego - galeria typu C.		
source	<xs:attribute name="miniatures-only" type="xs:boolean"> <xs:annotation> <xs:documentation>Oznaczenie, czy jest to galeria składająca się tylko z miniatur bez elementu głównego - galeria typu C.</xs:documentation> </xs:annotation> </xs:attribute>		

attribute **galleryType/@thumbnails**

namespace	http://epodreczniki.pl/		
type	ep:galleryOptionsVisibilityType		
facets	Kind	Value	Annotation
	enumeration	all	
	enumeration	hide-fullscreen	
	enumeration	hide-normal	
	enumeration	hide	
annotation	documentation Widoczność miniaturek galerii.		

source	<pre> <xs:attribute name="thumbnails" type="ep:galleryOptionsVisibilityType"> <xs:annotation> <xs:documentation>Widoczność miniatur galerii.</xs:documentation> </xs:annotation> </xs:attribute> </pre>

attribute **galleryType/@titles**

namespace	http://epodreczniki.pl/		
type	ep:galleryOptionsVisibilityType		
facets	Kind	Value	Annotation
	enumeration	all	
	enumeration	hide-fullscreen	
	enumeration	hide-normal	
	enumeration	hide	
annotation	documentation Widoczność tytułów galerii oraz WOMI.		
source	<pre> <xs:attribute name="titles" type="ep:galleryOptionsVisibilityType"> <xs:annotation> <xs:documentation>Widoczność tytułów galerii oraz WOMI.</xs:documentation> </xs:annotation> </xs:attribute> </pre>		

attribute **galleryType/@format-contents**

namespace	http://epodreczniki.pl/		
type	ep:galleryOptionsVisibilityType		
facets	Kind	Value	Annotation
	enumeration	all	
	enumeration	hide-fullscreen	
	enumeration	hide-normal	
	enumeration	hide	
annotation	documentation Widoczność tekstów skojarzonych z galerią oraz WOMI.		
source	<pre> <xs:attribute name="format-contents" type="ep:galleryOptionsVisibilityType"> <xs:annotation> <xs:documentation>Widoczność tekstów skojarzonych z galerią oraz WOMI.</xs:documentation> </xs:annotation> </xs:attribute> </pre>		

attribute **galleryType/@view-width**

namespace	http://epodreczniki.pl/		
type	restriction of xs:positiveInteger		
facets	Kind	Value	Annotation
	minInclusive	1	
	maxInclusive	8	

annotation	documentation Szerokość siatki galerii.
source	<pre> <xs:attribute name="view-width"> <xs:annotation> <xs:documentation>Szerokość siatki galerii.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="8"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **galleryType/@view-height**

namespace	http://epodreczniki.pl/		
type	restriction of xs:positiveInteger		
facets	Kind	Value	Annotation
	minInclusive	1	
	maxInclusive	8	
annotation	documentation Wysokość siatki galerii.		
source	<pre><xs:attribute name="view-height"> <xs:annotation> <xs:documentation>Wysokość siatki galerii.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="8"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **galleryType/@playlist**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	autoplay	
	enumeration	pause	
annotation	documentation Sposób odtwarzania elementów playlisty		
source	<pre><xs:attribute name="playlist"> <xs:annotation> <xs:documentation>Sposób odtwarzania elementów playlisty</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="autoplay"/> <xs:enumeration value="pause"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

	</xs:restriction> </xs:simpleType> </xs:attribute>

complexType licenseType

diagram			
namespace	http://epodreczniki.pl/		
type	extension of ep:licenseBaseType		
properties	base ep:licenseBaseType		
used by	element license		
facets	Kind	Value	Annotation
	enumeration	E-podręczniki 1.0	
	enumeration	CC 0 1.0	
	enumeration	CC BY 1.0	
	enumeration	CC BY 2.0	
	enumeration	CC BY 2.5	
	enumeration	CC BY 3.0	
	enumeration	CC BY 4.0	
	enumeration	CC BY SA 1.0	
	enumeration	CC BY SA 2.0	
	enumeration	CC BY SA 2.5	
	enumeration	CC BY SA 3.0	
	enumeration	CC BY SA 4.0	
	enumeration	CC BY-ND 1.0	
	enumeration	CC BY-ND 2.0	
	enumeration	CC BY-ND 2.5	
	enumeration	CC BY-ND 3.0	
	enumeration	CC BY-ND 4.0	
	enumeration	CC BY-NC 1.0	
	enumeration	CC BY-NC 2.0	
	enumeration	CC BY-NC 2.5	
	enumeration	CC BY-NC 3.0	
	enumeration	CC BY-NC 4.0	
	enumeration	CC BY-NC-ND 2.0	
	enumeration	CC BY-NC-ND 2.5	
	enumeration	CC BY-NC-ND 3.0	
	enumeration	CC BY-NC-ND 4.0	
	enumeration	CC BY-NC-SA 1.0	
	enumeration	CC BY-NC-SA 2.0	
	enumeration	CC BY-NC-SA 2.5	

	enumeration	CC BY-NC-SA 3.0				
	enumeration	CC BY-NC-SA 4.0				
	enumeration	domena publiczna				
	enumeration	tylko do użytku edukacyjnego				
	enumeration	tylko do użytku edukacyjnego na epodreczniki.pl				
	enumeration	tylko do użytku niekomercyjnego				
attributes	Name ep:url	Type ep:licenseURLType	Use required	Default	Fixed	Annotation
annotation	documentation Kompletny typ licencji WOMI/cytatu					
source	<pre><xs:complexType name="licenseType"> <xs:annotation> <xs:documentation>Kompletny typ licencji WOMI/cytatu</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="ep:licenseBaseType"> <xs:attribute name="url" type="ep:licenseURLType" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType></pre>					

attribute **licenseType/@url**

namespace	http://epodreczniki.pl/					
type	ep:licenseURLType					
properties	use required					
facets	Kind	Value				Annotation
	enumeration					
	enumeration	http://www.epodreczniki.pl/licenses/e-podreczniki/1.0				
	enumeration	http://creativecommons.org/publicdomain/zero/1.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by/1.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by/2.0/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by/2.5/pl/legalcode				
	enumeration	http://creativecommons.org/licenses/by/3.0/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by/4.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by-sa/1.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by-sa/2.0/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by-sa/2.5/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by-sa/3.0/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by-sa/4.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nd/1.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nd/2.0/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nd/2.5/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nd/3.0/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nd/4.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nc/1.0/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nc/2.0/pl/legalcode				
	enumeration	https://creativecommons.org/licenses/by-nc/2.5/pl/legalcode				

	enumeration https://creativecommons.org/licenses/by-nc/3.0/pl/legalcode enumeration https://creativecommons.org/licenses/by-nc/4.0/legalcode enumeration https://creativecommons.org/licenses/by-nc-nd/2.0/pl/legalcode enumeration https://creativecommons.org/licenses/by-nc-nd/2.5/pl/legalcode enumeration https://creativecommons.org/licenses/by-nc-nd/3.0/pl/legalcode enumeration https://creativecommons.org/licenses/by-nc-nd/4.0/legalcode enumeration https://creativecommons.org/licenses/by-nc-sa/1.0/legalcode enumeration https://creativecommons.org/licenses/by-nc-sa/2.0/pl/legalcode enumeration https://creativecommons.org/licenses/by-nc-sa/2.5/pl/legalcode enumeration https://creativecommons.org/licenses/by-nc-sa/3.0/pl/legalcode enumeration https://creativecommons.org/licenses/by-nc-sa/4.0/legalcode enumeration http://www.epodreczniki.pl/licenses/domena-publiczna/1.0 enumeration http://www.epodreczniki.pl/licenses/tylko-do-uzytku-edukacyjnego/1.0 enumeration http://www.epodreczniki.pl/licenses/tylko-do-uzytku-edukacyjnego-na-epodreczniki_pl/1.0 enumeration http://www.epodreczniki.pl/licenses/tylko-do-uzytku-niekomercyjnego/1.0
source	<code><xs:attribute name="url" type="ep:licenseURLType" use="required"/></code>

complexType module-headerType

diagram						
namespace	http://epodreczniki.pl/					
children	ep:reference					
used by	element module-header					
attributes	Name ep:title-presentation ep:title-position	Type derived by: xs:string derived by: xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Powiązanie z modulem WOMI z nagłówkiem					
source	<pre> <xs:complexType name="module-headerType"> <xs:annotation> <xs:documentation>Powiązanie z modulem WOMI z nagłówkiem</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:reference"/> <!-- <xs:element name="reference"> <xs:annotation> <xs:documentation>Referencja do WOMI z nagłówkiem</xs:documentation> </pre>					

	<pre> </xs:annotation> <xs:complexType> <xs:attribute name="id" type="ep:idType" use="required"/> </xs:complexType> </xs:element> --> </xs:sequence> <xs:attribute name="title-presentation" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="dark"/> <xs:enumeration value="light"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="title-position"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="on-header"/> <xs:enumeration value="above-header"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>

attribute **module-headerType/@title-presentation**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	dark	
	enumeration	light	
source	<pre> <xs:attribute name="title-presentation" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="dark"/> <xs:enumeration value="light"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

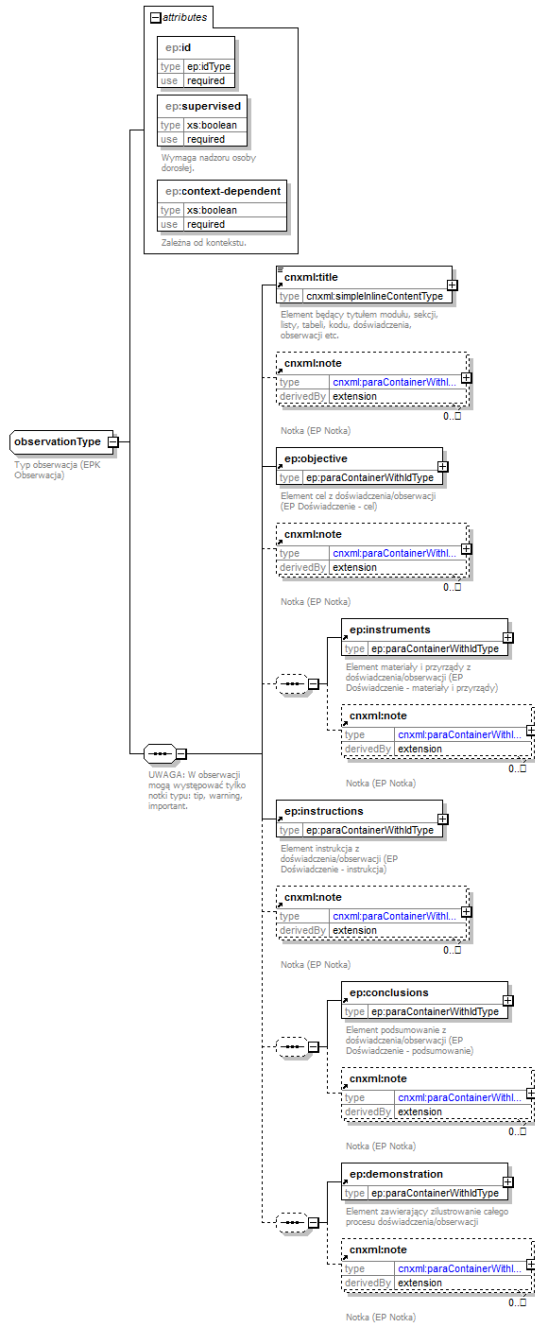
attribute **module-headerType/@title-position**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	on-header	
	enumeration	above-header	
source	<pre> <xs:attribute name="title-position"> <xs:simpleType> <xs:restriction base="xs:string"> </pre>		

```
<xs:enumeration value="on-header"/>
<xs:enumeration value="above-header"/>
</xs:restriction>
</xs:simpleType>
</xs:attribute>
```

complexType **observationType**

diagram



namespace	http://epodreczniki.pl/
children	cnxml:title cnxml:note ep:objective ep:instruments ep:instructions ep:conclusions ep:demonstration

used by	element observation					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
	ep:supervised	xs:boolean	required			documentation Wymaga nadzoru osoby dorosłej.
	ep:context-dependent	xs:boolean	required			documentation Zależna od kontekstu.
annotation	documentation Typ obserwacja (EPK Obserwacja)					
source	<pre> <xs:complexType name="observationType"> <xs:annotation> <xs:documentation>Typ obserwacja (EPK Obserwacja)</xs:documentation> </xs:annotation> <xs:sequence> <xs:annotation> <xs:documentation>UWAGA: W obserwacji mogą występować tylko notki typu: tip, warning, important.</xs:documentation> </xs:annotation> <xs:element ref="cnxml:title"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="ep:objective"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> <xs:sequence minOccurs="0"> <xs:element ref="ep:instruments"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:element ref="ep:instructions"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> <xs:sequence minOccurs="0"> <xs:element ref="ep:conclusions"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:sequence minOccurs="0"> <xs:element ref="ep:demonstration"/> <xs:element ref="cnxml:note" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="supervised" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Wymaga nadzoru osoby dorosłej.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="context-dependent" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Zależna od kontekstu.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>					

attribute **observationType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **observationType/@supervised**

namespace	http://epodreczniki.pl/		
type	xs:boolean		
properties	use required		
annotation	documentation Wymaga nadzoru osoby dorosłej.		
source	<xs:attribute name="supervised" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Wymaga nadzoru osoby dorosłej.</xs:documentation> </xs:annotation> </xs:attribute>		

attribute **observationType/@context-dependent**

namespace	http://epodreczniki.pl/		
type	xs:boolean		
properties	use required		
annotation	documentation Zależna od kontekstu.		
source	<xs:attribute name="context-dependent" type="xs:boolean" use="required"> <xs:annotation> <xs:documentation>Zależna od kontekstu.</xs:documentation> </xs:annotation> </xs:attribute>		

complexType paraContainerWithIdType

diagram						
namespace	http://epodreczniki.pl/					
type	extension of cnxml:paraContainerType					
properties	base cnxml:paraContainerType					
children	cnxml:para					
used by	elements comment conclusions demonstration tooltipType/content biographyType/content eventType/content hypothesis instructions instruments intro lead objective prerequisite problem revisal step technical-remarks complexType effectType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
annotation	documentation Kontener na paragrafy z ep:id					
source	<pre><xs:complexType name="paraContainerWithIdType"> <xs:annotation> <xs:documentation>Kontener na paragrafy z ep:id</xs:documentation> </xs:annotation> <xs:complexContent> <xs:extension base="cnxml:paraContainerType"> <xs:attribute name="id" type="ep:idType" use="required"/> </xs:extension> </xs:complexContent> </xs:complexType></pre>					

attribute paraContainerWithIdType/@id

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9)+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **play-and-learnType/reference/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	<code>i[a-zA-Z0-9]{9}(\[_a-zA-Z0-9\])?</code>	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	<code>[a-zA-Z0-9_]+</code>	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<code><xs:attribute name="id" type="ep:idType" use="required"/></code>		

complexType **presentationType**

diagram			
namespace	http://epodreczniki.pl/		
children	ep:numbering ep:type ep:template		
used by	element presentation		
annotation	documentation Atrybuty prezentacyjne dla modułu. UWAGA: nie dodaję width, height, fixed-tile-layout bo kafli nie wspieramy		
source	<pre> <xs:complexType name="presentationType"> <xs:annotation> <xs:documentation>Atrybuty prezentacyjne dla modułu. UWAGA: nie dodaję width, height, fixed- tile-layout bo kafli nie wspieramy</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:numbering" minOccurs="0"> <xs:annotation> <xs:documentation>Element numbering odpowiadający za "wyjęcie" modułu z numerowania. UWAGA: W przypadku, gdy odbiorcą treści jest nauczyciel (/document/metadata/epie-te xtbook-module/@ep:recipient) trzeba wstawić ten element.</xs:documentation> </xs:annotation> </xs:element> <xs:element type="ep:type"> <xs:annotation> <xs:documentation>Typ modułu nie jest wspierany, ale jest przepuszczany, tak, żeby nie było problemów z edycją i gdyby nagle okazało się, że wracamy do typów modułów i ról sekcji.</xs:documentation> </xs:annotation> </xs:element> <xs:element type="ep:template"> <xs:annotation> <xs:documentation>Jedyny wspierany rodzaj szablonu to "linear", gdyż nie wspieramy edycji kafli.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>		

	<pre> </xs:element> <xs:element ref="ep:type" minOccurs="0"> <xs:annotation> <xs:documentation>Typ modułu nie jest wspierany, ale jest przepuszczany, tak, żeby nie było problemów z edycją i gdyby nagle okazało się, że wracamy do typów modułów i ról sekcji.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:template"> <xs:annotation> <xs:documentation>Jedyny wspierany rodzaj szablonu to 'linear', gdyż nie wspieramy edycji kafli.</xs:documentation> </xs:annotation> </xs:element> </xs:sequence> </xs:complexType> </pre>

complexType **procedure-instructionsType**

diagram	<pre> classDiagram class procedure_instructionsType { +attributes { +ep:id ep:idType required } +cnxml:title cnxml:simpleInlineContentType +ep:step ep:paraContainerWithIdType 2..* } </pre> procedure-instructionsType Typ instrukcja postępowania (EP Instrukcja postępowania) cnxml:title type cnxml:simpleInlineContentType Element będący tytułem modułu, sekcji, listy, tabeli, kodu, doświadczenia, obserwacji etc. ep:step type ep:paraContainerWithIdType 2..* Element krok w instrukcji postępowania (EP Krok)					
namespace	http://epodreczniki.pl/					
children	cnxml:title ep:step					
used by	element procedure-instructions					
attributes	Name ep:id	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Typ instrukcja postępowania (EP Instrukcja postępowania)					
source	<pre> <xs:complexType name="procedure-instructionsType"> <xs:annotation> <xs:documentation>Typ instrukcja postępowania (EP Instrukcja postępowania)</xs:documentation> </xs:annotation> <xs:sequence> <!--<xs:group ref="cnxml:titleWithMathMLGroup"/>--> <xs:element ref="cnxml:title"/> <xs:element ref="ep:step" minOccurs="2" maxOccurs="unbounded"/> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> </pre>					

	</xs:complexType>

attribute **procedure-instructionsType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use	required	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

complexType **reading-roomType**

diagram						
namespace	http://epodreczniki.pl/					
type	extension of xs:boolean					
properties	base	xs:boolean				
used by	element	reading-room				
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:show-format-contents	xs:boolean	optional			documentation Informacja, czy WOMI powinno trafić do galerii razem z tekstem skojarzonym. Atrybut powinien być ustawiony tylko w momencie, gdy wartość reading-roomType jest ustawiona na true.
annotation	documentation Oznaczenie, czy WOMI powinno trafić do ogólnoe-podrecznikowej galerii WOMI.					
source	<xs:complexType name="reading-roomType"> <xs:annotation> <xs:documentation>Oznaczenie, czy WOMI powinno trafić do ogólnoe-podrecznikowej galerii					

	WOMI.</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="xs:boolean"> <xs:attribute name="show-format-contents" type="xs:boolean" use="optional"> <xs:annotation> <xs:documentation>Informacja, czy WOMI powinno trafić do galerii razem z tekstem skojarzonym. Atrybut powinien być ustawiony tylko w momencie, gdy wartość reading-roomType jest ustawiona na true.</xs:documentation> </xs:annotation> </xs:attribute> </xs:extension> </xs:simpleContent> </xs:complexType>

attribute reading-roomType/@show-format-contents

namespace	http://epodreczniki.pl/
type	xs:boolean
properties	use optional
annotation	documentation Informacja, czy WOMI powinno trafić do galerii razem z tekstem skojarzonym. Atrybut powinien być ustawiony tylko w momencie, gdy wartość reading-roomType jest ustawiona na true.
source	<xs:attribute name="show-format-contents" type="xs:boolean" use="optional"> <xs:annotation> <xs:documentation>Informacja, czy WOMI powinno trafić do galerii razem z tekstem skojarzonym. Atrybut powinien być ustawiony tylko w momencie, gdy wartość reading-roomType jest ustawiona na true.</xs:documentation> </xs:annotation> </xs:attribute>

complexType referencesType

diagram	
namespace	http://epodreczniki.pl/
children	ep:module-header ep:play-and-learn ep:external
used by	element references
annotation	documentation Powiązania modułu z WOMI (nagłówki, baw się i ucz, KZD).

source	<pre><xs:complexType name="referencesType"> <xs:annotation> <xs:documentation>Powiązania modułu z WOMI (nagłówek, baw się i ucz, KZD).</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:module-header" minOccurs="0"/> <xs:element ref="ep:play-and-learn" minOccurs="0"/> <xs:element ref="ep:external" minOccurs="0"/> </xs:sequence> </xs:complexType></pre>

complexType referenceType

diagram	attributes epid type: <code>ep:WOMidType</code> use: <code>required</code> Identyfikator WOMI pochodzący z RT epinstance-id type: <code>ep:idType</code> Identyfikator konkretnej instancji WOMI - wystąpienia WOMI w treści epwidth type: <code>ep:widthType</code> min/maxIncl: 1 / 100 Szerokość - jest wartością wyrażoną w procentach w odniesieniu do kolumny tekstu, w której umieszczone jest WOMI. UWAGA: ustawianie szerokości WOMI jest dopuszczalne tylko w przypadku WOMI wizualnych (video, ilustracja, ikona, aplikacja). epcontext type: <code>xs:boolean</code> default: <code>false</code> Oznaczenie, czy jest to WOMI kontekstu - prezentowane jako przypinka w portalu. epreading-room type: <code>ep:reading-roomType</code> default: <code>false</code> Oznaczenie, czy WOMI powinno trafić do ogólnie-podrecznikowej galerii WOMI. epzoomable type: <code>ep:zoomableType</code> default: <code>no</code> Oznaczenie, czy WOMI można przybliżyć oraz w jakim trybie (lupa/przybliżenie). UWAGA: atrybut dotyczy tylko WOMI typu ikona oraz ilustracja. epavatar type: <code>xs:boolean</code> default: <code>false</code> Oznaczenie, czy jest to WOMI typu awatar. UWAGA: wartość 'true' może być zastosowana tylko w połączeniu z WOMI typu aplikacja. epembedded type: <code>xs:boolean</code> default: <code>true</code> Oznaczenie, czy jest to WOMI osadzone w treści. UWAGA: stosowanie tego elementu i nadawanie mu wartości false ma sens tylko w połączeniu z elementem content ustawionym na true. ephide-caption type: <code>ep:hide-captionType</code> Oznaczenie, które z podpisów WOMI powinny być ukryte, a które nie. epaside type: <code>ep:asideType</code> Oznaczenie, czy WOMI powinno być wypchnięte na prawą lub lewą stronę. epdisabled-alternative-referen... Odwolanie do dymlka z tekstem alternatywnym (EPK Dymek - odwołanie). epcontentGroup Grupa tekstów skojarzonych z WOMI lub galerią WOMI. epcontent type: <code>ep:contentType</code> 1..4 Tekst skojarzony z WOMI lub galerią WOMI. UWAGA: maksymalnie mogą wystąpić 4 teksty skojarzone z WOMI / galerią WOMI - po jednym dla danego formatu.					
namespace	http://epodreczniki.pl/					
children	ep:width ep:context ep:reading-room ep:zoomable ep:avatar ep:embedded ep:hide-caption ep:aside ep:disabled-alternative-reference ep:content					
used by	element reference					
attributes	Name ep:id	Type WOMidType	Use required	Default	Fixed	Annotation documentation Identyfikator WOMI pochodzący z RT

	ep:instance-id idType	documentation Identyfikator konkretnej instancji WOMI - wystąpienia WOMI w treści
annotation	documentation Typ referencja do WOMI	
source	<pre> <xs:complexType name="referenceType"> <xs:annotation> <xs:documentation>Typ referencja do WOMI</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:width" minOccurs="0"> <xs:annotation> <xs:documentation>Szerokość - jest wartością wyrażoną w procentach w odniesieniu do kolumny tekstu, w której umieszczone jest WOMI. UWAGA: ustawianie szerokości WOMI jest dopuszczalne tylko w przypadku WOMI wizualnych (wideo, ilustracja, ikona, aplikacja).</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:context" minOccurs="0"/> <xs:element ref="ep:reading-room" minOccurs="0"/> <xs:element ref="ep:zoomable" minOccurs="0"> <xs:annotation> <xs:documentation>Oznaczenie, czy WOMI można przybliżyć oraz w jakim trybie (lupa/przybliżenie). UWAGA: atrybut dotyczy tylko WOMI typu ikona oraz ilustracja.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:avatar" minOccurs="0"> <xs:annotation> <xs:documentation>Oznaczenie, czy jest to WOMI typu awatar. UWAGA: wartość 'true' może być zastosowana tylko w połączeniu z WOMI typu aplikacja.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:embedded" minOccurs="0"> <xs:annotation> <xs:documentation>Oznaczenie, czy jest to WOMI osadzone w treści. UWAGA: stosowanie tego elementu i nadawanie mu wartości false ma sens tylko w połączeniu z elementem context ustawionym na true.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="ep:hide-caption" minOccurs="0"/> <xs:element ref="ep:aside" minOccurs="0"/> <xs:element ref="ep:disabled-alternative-reference" minOccurs="0"/> <xs:group ref="ep:contentGroup" minOccurs="0"/> </xs:sequence> <xs:attribute name="id" type="ep:WOMIidType" use="required"> <xs:annotation> <xs:documentation>Identyfikator WOMI pochodzący z RT</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="instance-id" type="ep:idType"> <xs:annotation> <xs:documentation>Identyfikator konkretnej instancji WOMI - wystąpienia WOMI w </pre>	

	<pre> treści</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </pre>

attribute **referenceType/@id**

namespace	http://epodreczniki.pl/		
type	WOMIdType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	[0-9]+	documentation Wyrażenie regularne pasujące do identyfikatora WOMI z RT.
annotation	documentation Identyfikator WOMI pochodzący z RT		
source	<pre><xs:attribute name="id" type="ep:WOMIdType" use="required"> <xs:annotation> <xs:documentation>Identyfikator WOMI pochodzący z RT</xs:documentation> </xs:annotation> </xs:attribute></pre>		

attribute **referenceType/@instance-id**

namespace	http://epodreczniki.pl/											
type	idType											
facets	<table><thead><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr></thead><tbody><tr><td>pattern</td><td>i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?</td><td>documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.</td></tr><tr><td>pattern</td><td>[a-zA-Z0-9_]+</td><td>documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.</td></tr></tbody></table>	Kind	Value	Annotation	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.		
Kind	Value	Annotation										
pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.										
pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.										
annotation	documentation Identyfikator konkretnej instancji WOMI - wystąpienia WOMI w treści											
source	<pre><xs:attribute name="instance-id" type="ep:idType"> <xs:annotation> <xs:documentation>Identyfikator konkretnej instancji WOMI - wystąpienia WOMI w treści</xs:documentation> </xs:annotation> </xs:attribute></pre>											

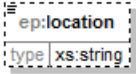
complexType secondLevelSectionParametersType

diagram	
namespace	http://epodreczniki.pl/
children	ep:width ep:stretch-title
used by	element secondLevelSectionParametersGroup/parameters
annotation	documentation Typ parametrów dla sekcji drugiego stopnia
source	<pre> <xs:complexType name="secondLevelSectionParametersType"> <xs:annotation> <xs:documentation>Typ parametrów dla sekcji drugiego stopnia</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:width"/> <xs:element ref="ep:stretch-title" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

complexType startEndType

diagram	
namespace	http://epodreczniki.pl/
children	ep:date ep:location
used by	elements birth death event-end event-start
annotation	documentation Typ początek / koniec (wydarzenia, biogramu, ...)
source	<pre> <xs:complexType name="startEndType"> <xs:annotation> <xs:documentation>Typ początek / koniec (wydarzenia, biogramu, ...)</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="ep:date" minOccurs="0"/> <xs:element name="location" type="xs:string" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

element **startEndType/location**

diagram	
namespace	http://epodreczniki.pl/
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
source	<code><xs:element name="location" type="xs:string" minOccurs="0"/></code>

complexType student-workType

diagram	attributes ep:id type: ep:idType use: required ep:type type: xs:string use: required Typ zestawu zadań. UWAGA: Jeżeli jest równy 'homework', w zestawie mogą występować polecenia, ćwiczenia, doświadczenia i obserwacje. Gdy type jest równy exercise-set, to zawartością bloku może być problem, po którym następuje wiele podrzędnych ćwiczeń. ep:presentation-variant type: xs:string Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa student-workType Typ zestawu zadań dla ucznia (EPK Praca domowa, EPK Zbiór zadań) cnxml:problem type: cnxml:problemType Definicja problemu w ćwiczeniu, poleceniu, etc. (EP Ćwiczenie problem, EP Polecenie w EPK Polecenie) cnxml:exercise type: cnxml:exerciseType 1..1 Element ćwiczenie ep:command type: ep:commandType derivedBy: extension Blok command (EP Polecenie) cnxml:exercise type: cnxml:exerciseType Element ćwiczenie ep:experiment type: ep:experimentType Element doświadczenie ep:observation type: ep:observationType Element obserwacja					
namespace	http://epodreczniki.pl/					
children	cnxml:problem cnxml:exercise ep:command ep:experiment ep:observation					
used by	element student-work					
attributes	Name ep:id ep:type	Type idType derived by: xs:string	Use required required	Default	Fixed	Annotation documentation Typ zestawu zadań. UWAGA: Jeżeli jest równy 'homework', w

	zestawie mogą występować polecenia, ćwiczenia, doświadczenia i obserwacje. Gdy type jest równy exercise-set, to zawartością bloku może być problem, po którym następuje wiele podrzędnych ćwiczeń. documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	ep:presentation-variant derived by: xs:string documentation Typ zestawu zadań dla ucznia (EPK Praca domowa, EPK Zbiór zadań)
source	<pre> <xs:complexType name="student-workType"> <xs:annotation> <xs:documentation>Typ zestawu zadań dla ucznia (EPK Praca domowa, EPK Zbiór zadań)</xs:documentation> </xs:annotation> <xs:choice> <xs:sequence> <xs:element ref="cnxml:problem"/> <xs:element ref="cnxml:exercise" maxOccurs="unbounded"/> </xs:sequence> <xs:choice maxOccurs="unbounded"> <xs:element ref="ep:command"/> <xs:element ref="cnxml:exercise"/> <xs:element ref="ep:experiment"/> <xs:element ref="ep:observation"/> </xs:choice> </xs:choice> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="type" use="required"/> <xs:annotation> <xs:documentation>Typ zestawu zadań. UWAGA: Jeżeli jest równy 'homework', w zestawie mogą występować polecenia, ćwiczenia, doświadczenia i obserwacje. Gdy type jest równy exercise-set, to zawartością bloku może być problem, po którym następuje wiele podrzędnych ćwiczeń.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="homework"/> <xs:enumeration value="exercise-set"/> </xs:restriction> </xs:simpleType> </xs:complexType> </pre>

	<pre> <xs:enumeration value="project"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute ref="ep:presentation-variant"/> </xs:complexType> </pre>

attribute **student-workType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_ a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **student-workType/@type**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	homework	
	enumeration	exercise-set	
	enumeration	project	
annotation	documentation Typ zestawu zadań. UWAGA: Jeżeli jest równy 'homework', w zestawie mogą występować polecenia, ćwiczenia, doświadczenia i obserwacje. Gdy type jest równy exercise-set, to zawartością bloku może być problem, po którym następuje wiele podrzędnych ćwiczeń.		
source	<pre> <xs:attribute name="type" use="required"> <xs:annotation> <xs:documentation>Typ zestawu zadań. UWAGA: Jeżeli jest równy 'homework', w zestawie mogą występować polecenia, ćwiczenia, doświadczenia i obserwacje. Gdy type jest równy exercise-set, to zawartością bloku może być problem, po którym następuje wiele podrzędnych ćwiczeń.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="homework"/> <xs:enumeration value="exercise-set"/> <xs:enumeration value="project"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

complexType tooltipType

diagram						
namespace	http://epodreczniki.pl/					
children	cnxml:title ep:content					
used by	element tooltip					
attributes	Name ep:id ep:type	Type idType derived by: xs:string	Use required	Default	Fixed	Annotation documentation Typ dymka
annotation	documentation Typ dymek (EP Dymek)					
source	<pre> <xs:complexType name="tooltipType"> <xs:annotation> <xs:documentation>Typ dymek (EP Dymek)</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="cnxml:title"/> <xs:element name="content" type="ep:paraContainerWithIdType"/> </xs:sequence> <xs:attribute name="id" type="ep:idType" use="required"/> <xs:attribute name="type"> <xs:annotation> <xs:documentation>Typ dymka</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="JPOL_E3_E4_glossary"/> <xs:enumeration value="JPOL_E3_E4_apposition"/> <xs:enumeration value="JPOL_E3_E4_curiosity"/> <xs:enumeration value="disabled-alternative"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </pre>					

attribute **tooltipType/@id**

namespace	http://epodreczniki.pl/		
type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="ep:idType" use="required"/>		

attribute **tooltipType/@type**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	JPOL_E3_E4_glossary	
	enumeration	JPOL_E3_E4_apposition	
	enumeration	JPOL_E3_E4_curiosity	
	enumeration	disabled-alternative	
annotation	documentation Typ dymka		
source	<pre> <xs:attribute name="type"> <xs:annotation> <xs:documentation>Typ dymka</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="JPOL_E3_E4_glossary"/> <xs:enumeration value="JPOL_E3_E4_apposition"/> <xs:enumeration value="JPOL_E3_E4_curiosity"/> <xs:enumeration value="disabled-alternative"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

element tooltipType/content

diagram						
namespace	http://epodreczniki.pl/					
type	ep:paraContainerWithIdType					
properties	content complex					
children	cnxml:para					
used by	group contentGroup					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:id	idType	required			
source	<xs:element name="content" type="ep:paraContainerWithIdType"/>					

simpleType asideType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base xs:string		
used by	element aside		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
annotation	documentation Oznaczenie, czy WOMI powinno być wypchnięte na prawą lub lewą stronę		
source	<pre><xs:simpleType name="asideType"> <xs:annotation> <xs:documentation>Oznaczenie, czy WOMI powinno być wypchnięte na prawą lub lewą stronę</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType></pre>		

simpleType behaviourType

namespace	http://epodreczniki.pl/

type	restriction of xs:string		
properties	base	xs:string	
used by	element	behaviour	
facets	Kind	Value	Annotation
	enumeration	randomize	
	enumeration	randomize-sets	
	enumeration	all-sets	
annotation	documentation	Typ dla sposób przetwarzania odpowiedzi w zadaniu z elementami losowości.	
source	<pre><xs:simpleType name="behaviourType"> <xs:annotation> <xs:documentation>Typ dla sposób przetwarzania odpowiedzi w zadaniu z elementami losowości.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="randomize"/> <xs:enumeration value="randomize-sets"/> <xs:enumeration value="all-sets"/> </xs:restriction> </xs:simpleType></pre>		

simpleType columnsType

namespace	http://epodreczniki.pl/		
type	restriction of xs:positiveInteger		
properties	base	xs:positiveInteger	
used by	element	columns	
facets	Kind	Value	Annotation
	minInclusive	1	
	maxInclusive	5	
annotation	documentation	Typ liczby kolumn. Wprowadziłem restrykcję na max. 5 kolumn (to i tak przesada).	
source	<pre><xs:simpleType name="columnsType"> <xs:annotation> <xs:documentation>Typ liczby kolumn. Wprowadziłem restrykcję na max. 5 kolumn (to i tak przesada).</xs:documentation> </xs:annotation> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="5"/> </xs:restriction> </xs:simpleType></pre>		

simpleType content-statusType

namespace	http://epodreczniki.pl/
type	restriction of xs:string
properties	base xs:string

used by	attribute content-status		
facets	Kind enumeration	Value canon expanding	Annotation
annotation	documentation Status treści		
source	<pre><xs:simpleType name="content-statusType"> <xs:annotation> <xs:documentation>Status treści</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="canon"/> <xs:enumeration value="expanding"/> </xs:restriction> </xs:simpleType></pre>		

simpleType formatType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base xs:string		
used by	element format		
facets	Kind	Value	Annotation
	enumeration	classicmobile	
	enumeration	static	
	enumeration	static-mono	
annotation	documentation Typ dla formatu alternatywy epXML.		
source	<pre><xs:simpleType name="formatType"> <xs:annotation> <xs:documentation>Typ dla formatu alternatywy epXML.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="classicmobile"/> <xs:enumeration value="static"/> <xs:enumeration value="static-mono"/> </xs:restriction> </xs:simpleType></pre>		

simpleType galleryOptionsVisibilityType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base	xs:string	
used by	attributes	galleryType/@format-contents galleryType/@thumbnails galleryType/@titles	
facets	Kind	Value	Annotation
	enumeration	all	
	enumeration	hide-fullscreen	
	enumeration	hide-normal	

	enumeration hide
annotation	documentation Widoczności poszczególnych atrybutów galerii.
source	<pre> <xs:simpleType name="galleryOptionsVisibilityType"> <xs:annotation> <xs:documentation>Widoczności poszczególnych atrybutów galerii.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="all"/> <xs:enumeration value="hide-fullscreen"/> <xs:enumeration value="hide-normal"/> <xs:enumeration value="hide"/> </xs:restriction> </xs:simpleType> </pre>

simpleType generated-typeType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base	xs:string	
used by	element	generated-type	
facets	Kind	Value	Annotation
	enumeration	glossary	
	enumeration	biography	
	enumeration	bibliography	
	enumeration	concept	
annotation	documentation	Typ modułu generowanego automatycznie (np. słowniczek, biogramy, etc).	
source	<pre><xs:simpleType name="generated-typeType"> <xs:annotation> <xs:documentation>Typ modułu generowanego automatycznie (np. słowniczek, biogramy, etc).</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="glossary"/> <xs:enumeration value="biography"/> <xs:enumeration value="bibliography"/> <xs:enumeration value="concept"/> </xs:restriction> </xs:simpleType></pre>		

simpleType hide-captionType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base	xs:string	
used by	element	hide-caption	
facets	Kind	Value	Annotation
	enumeration	none	

	enumeration title enumeration number enumeration all
annotation	documentation Oznaczenie, które z podpisów WOMI powinny być ukryte, a które nie.
source	<pre> <xs:simpleType name="hide-captionType"> <xs:annotation> <xs:documentation>Oznaczenie, które z podpisów WOMI powinny być ukryte, a które nie.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="none"/> <xs:enumeration value="title"/> <xs:enumeration value="number"/> <xs:enumeration value="all"/> </xs:restriction> </xs:simpleType> </pre>

simpleType licenseBaseType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base xs:string		
used by	complexType licenseType		
facets	Kind	Value	Annotation
	enumeration		
	enumeration	E-podreczniki 1.0	
	enumeration	CC 0 1.0	
	enumeration	CC BY 1.0	
	enumeration	CC BY 2.0	
	enumeration	CC BY 2.5	
	enumeration	CC BY 3.0	
	enumeration	CC BY 4.0	
	enumeration	CC BY SA 1.0	
	enumeration	CC BY SA 2.0	
	enumeration	CC BY SA 2.5	
	enumeration	CC BY SA 3.0	
	enumeration	CC BY SA 4.0	
	enumeration	CC BY-ND 1.0	
	enumeration	CC BY-ND 2.0	
	enumeration	CC BY-ND 2.5	
	enumeration	CC BY-ND 3.0	
	enumeration	CC BY-ND 4.0	
	enumeration	CC BY-NC 1.0	
	enumeration	CC BY-NC 2.0	
	enumeration	CC BY-NC 2.5	
	enumeration	CC BY-NC 3.0	
	enumeration	CC BY-NC 4.0	

	enumeration CC BY-NC-ND 2.0 enumeration CC BY-NC-ND 2.5 enumeration CC BY-NC-ND 3.0 enumeration CC BY-NC-ND 4.0 enumeration CC BY-NC-SA 1.0 enumeration CC BY-NC-SA 2.0 enumeration CC BY-NC-SA 2.5 enumeration CC BY-NC-SA 3.0 enumeration CC BY-NC-SA 4.0 enumeration domena publiczna enumeration tylko do użytku edukacyjnego enumeration tylko do użytku edukacyjnego na epodreczniki.pl enumeration tylko do użytku niekomercyjnego
annotation	documentation Bazowy typ licencji WOMI/cytatu z ograniczeniem na wartości
source	<pre> <xs:simpleType name="licenseBaseType"> <xs:annotation> <xs:documentation>Bazowy typ licencji WOMI/cytatu z ograniczeniem na wartości</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value=""/> <xs:enumeration value="E-podręczniki 1.0"/> <xs:enumeration value="CC 0 1.0"/> <xs:enumeration value="CC BY 1.0"/> <xs:enumeration value="CC BY 2.0"/> <xs:enumeration value="CC BY 2.5"/> <xs:enumeration value="CC BY 3.0"/> <xs:enumeration value="CC BY 4.0"/> <xs:enumeration value="CC BY SA 1.0"/> <xs:enumeration value="CC BY SA 2.0"/> <xs:enumeration value="CC BY SA 2.5"/> <xs:enumeration value="CC BY SA 3.0"/> <xs:enumeration value="CC BY SA 4.0"/> <xs:enumeration value="CC BY-ND 1.0"/> <xs:enumeration value="CC BY-ND 2.0"/> <xs:enumeration value="CC BY-ND 2.5"/> <xs:enumeration value="CC BY-ND 3.0"/> <xs:enumeration value="CC BY-ND 4.0"/> <xs:enumeration value="CC BY-NC 1.0"/> <xs:enumeration value="CC BY-NC 2.0"/> <xs:enumeration value="CC BY-NC 2.5"/> <xs:enumeration value="CC BY-NC 3.0"/> <xs:enumeration value="CC BY-NC 4.0"/> <xs:enumeration value="CC BY-NC-ND 2.0"/> <xs:enumeration value="CC BY-NC-ND 2.5"/> <xs:enumeration value="CC BY-NC-ND 3.0"/> <xs:enumeration value="CC BY-NC-ND 4.0"/> <xs:enumeration value="CC BY-NC-SA 1.0"/> <xs:enumeration value="CC BY-NC-SA 2.0"/> <xs:enumeration value="CC BY-NC-SA 2.5"/> <xs:enumeration value="CC BY-NC-SA 3.0"/> <xs:enumeration value="CC BY-NC-SA 4.0"/> </xs:restriction> </xs:simpleType> </pre>

	<pre> <xs:enumeration value="domena publiczna"/> <xs:enumeration value="tylko do użyciu edukacyjnego"/> <xs:enumeration value="tylko do użyciu edukacyjnego na epodreczniki.pl"/> <xs:enumeration value="tylko do użyciu niekomercyjnego"/> </xs:restriction> </xs:simpleType> </pre>

simpleType licenseURLType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base xs:string		
used by	attribute licenseType/@url		
facets	Kind	Value	Annotation
	enumeration		
	enumeration	http://www.epodreczniki.pl/licenses/e-podreczniki/1.0	
	enumeration	http://creativecommons.org/publicdomain/zero/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by/2.5/pl/legalcode	
	enumeration	http://creativecommons.org/licenses/by/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by/4.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-sa/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-sa/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-sa/2.5/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-sa/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-sa/4.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nd/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nd/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nd/2.5/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nd/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nd/4.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc/2.5/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc/4.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-nd/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-nd/2.5/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-nd/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-nd/4.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-sa/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-sa/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-sa/2.5/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-sa/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by-nc-sa/4.0/legalcode	
	enumeration	http://www.epodreczniki.pl/licenses/domena-publiczna/1.0	

	enumeration http://www.epodreczniki.pl/licenses/tylko-do-uzytku-edukacyjnego/1.0 enumeration http://www.epodreczniki.pl/licenses/tylko-do-uzytku-edukacyjnego-na-epodreczniki_pl/1.0 enumeration http://www.epodreczniki.pl/licenses/tylko-do-uzytku-niekomercyjnego/1.0
annotation	documentation Opcje dla URL licencji WOMI/cytatu
source	<pre> <xs:simpleType name="licenseURLType"> <xs:annotation> <xs:documentation>Opcje dla URL licencji WOMI/cytatu</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value=""/> <xs:enumeration value="http://www.epodreczniki.pl/licenses/e-podreczniki/1.0"/> <xs:enumeration value="http://creativecommons.org/publicdomain/zero/1.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by/1.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by/2.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by/2.5/pl/legalcode"/> <xs:enumeration value="http://creativecommons.org/licenses/by/3.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by/4.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-sa/1.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-sa/2.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-sa/2.5/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-sa/3.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-sa/4.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nd/1.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nd/2.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nd/2.5/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nd/3.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nd/4.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc/1.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc/2.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc/2.5/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc/3.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc/4.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-nd/2.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-nd/2.5/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-nd/3.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-nd/4.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-sa/1.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-sa/2.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-sa/2.5/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-sa/3.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by-nc-sa/4.0/legalcode"/> <xs:enumeration value="http://www.epodreczniki.pl/licenses/domena-publiczna/1.0"/> <xs:enumeration value="http://www.epodreczniki.pl/licenses/tylko-do-uzytku- edukacyjnego/1.0"/> <xs:enumeration value="http://www.epodreczniki.pl/licenses/tylko-do-uzytku-edukacyjnego-na- epodreczniki_pl/1.0"/> <xs:enumeration value="http://www.epodreczniki.pl/licenses/tylko-do-uzytku- niekomercyjnego/1.0"/> </xs:restriction> </xs:simpleType> </pre>

simpleType numberingType

Simple Type numberingType	
namespace	http://epodreczniki.pl/
type	restriction of xs:string
properties	base xs:string
used by	element numbering
facets	Kind Value Annotation enumeration skip
annotation	documentation Typ elementu numbering.
source	<xs:simpleType name="numberingType"> <xs:annotation> <xs:documentation>Typ elementu numbering.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="skip"/> </xs:restriction> </xs:simpleType>

simpleType origin-idType

namespace	http://epodreczniki.pl/						
type	restriction of xs:string						
properties	base xs:string						
used by	element origin-id						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minLength</td><td>1</td><td></td></tr></table>	Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation					
minLength	1						
annotation	documentation Typ id źródłowego modułu						
source	<pre><xs:simpleType name="origin-idType"> <xs:annotation> <xs:documentation>Typ id źródłowego modułu</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType></pre>						

simpleType origin-versionType

namespace	http://epodreczniki.pl/						
type	restriction of xs:string						
properties	base xs:string						
used by	element origin-version						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minLength</td><td>1</td><td></td></tr></table>	Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation					
minLength	1						
annotation	documentation Typ elementu wersji źródłowego modułu						
source	<xs:simpleType name="origin-versionType">						

	<pre> <xs:annotation> <xs:documentation>Typ elementu wersji źródłowego modułu</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </pre>

simpleType **recipientType**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base	xs:string	
used by	attribute	recipient	
facets	Kind	Value	Annotation
	enumeration	student	
	enumeration	teacher	
annotation	documentation	Odbiorca treści	
source	<pre><xs:simpleType name="recipientType"> <xs:annotation> <xs:documentation>Odbiorca treści</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="student"/> <xs:enumeration value="teacher"/> </xs:restriction> </xs:simpleType></pre>		

simpleType **stretchType**

simpleType stretchType											
namespace	http://epodreczniki.pl/										
type	restriction of xs:string										
properties	base xs:string										
used by	attribute stretch										
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>full-width</td><td></td></tr><tr><td>enumeration</td><td>extended-width</td><td></td></tr></table>		Kind	Value	Annotation	enumeration	full-width		enumeration	extended-width	
Kind	Value	Annotation									
enumeration	full-width										
enumeration	extended-width										
annotation	documentation Typ oznaczający powiększoną szerokość elementu										
source	<pre><xs:simpleType name="stretchType"> <xs:annotation> <xs:documentation>Typ oznaczający powiększoną szerokość elementu</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="full-width"/> <xs:enumeration value="extended-width"/> </xs:restriction> </xs:simpleType></pre>										

simpleType **templateType**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base	xs:string	
used by	element	template	
facets	Kind enumeration	Value linear	Annotation
annotation	documentation Typ szablon modułu. UWAGA: W edytorze nie wspieramy układu kaflowego, dlatego jedyną opcją jest 'linear'		
source	<pre><xs:simpleType name="templateType"> <xs:annotation> <xs:documentation>Typ szablon modułu. UWAGA: W edytorze nie wspieramy układu kaflowego, dlatego jedyną opcją jest 'linear'</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="linear"/> </xs:restriction> </xs:simpleType></pre>		

simpleType **widthType**

namespace	http://epodreczniki.pl/		
type	restriction of xs:positiveInteger		
properties	base	xs:positiveInteger	
used by	element	width	
facets	Kind	Value	Annotation
	minInclusive	1	
	maxInclusive	100	
annotation	documentation	Szerokość kolumny/szerokość WOMI wyrażona w procentach.	
source	<pre><xs:simpleType name="widthType"> <xs:annotation> <xs:documentation>Szerokość kolumny/szerokość WOMI wyrażona w procentach.</xs:documentation> </xs:annotation> <xs:restriction base="xs:positiveInteger"> <xs:minInclusive value="1"/> <xs:maxInclusive value="100"/> </xs:restriction> </xs:simpleType></pre>		

simpleType **zoomableType**

namespace	http://epodreczniki.pl/
type	restriction of xs:string
properties	base xs:string

used by	element zoomable												
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>no</td><td></td></tr><tr><td>enumeration</td><td>zoom</td><td></td></tr><tr><td>enumeration</td><td>magnifier</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	no		enumeration	zoom		enumeration	magnifier	
Kind	Value	Annotation											
enumeration	no												
enumeration	zoom												
enumeration	magnifier												
annotation	documentation Oznaczenie, czy WOMl można przybliżyć oraz w jakim trybie (lupa/przybliżenie).												
source	<pre><xs:simpleType name="zoomableType"> <xs:annotation> <xs:documentation>Oznaczenie, czy WOMl można przybliżyć oraz w jakim trybie (lupa/przybliżenie). </xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="no"/> <xs:enumeration value="zoom"/> <xs:enumeration value="magnifier"/> </xs:restriction> </xs:simpleType></pre>												

attribute **collection-id**

namespace	http://epodreczniki.pl/		
type	idType		
used by	element	link	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation Atrybut zawierający id kolekcji w łączy		
source	<pre><xs:attribute name="collection-id" type="ep:idType"> <xs:annotation> <xs:documentation>Atrybut zawierający id kolekcji w łączy</xs:documentation> </xs:annotation> </xs:attribute></pre>		

attribute **collection-recipient**

namespace	http://epodreczniki.pl/		
type	xs:string		
used by	element link		
annotation	documentation Atrybut zawierający odbiorcę treści kolekcji w łączy		
source	<pre> <xs:attribute name="collection-recipient" type="xs:string"> <xs:annotation> <xs:documentation>Atrybut zawierający odbiorcę treści kolekcji w łączy</xs:documentation> </xs:annotation> </xs:attribute> </pre>		

attribute **collection-version**

namespace	http://epodreczniki.pl/
type	xs:positiveInteger
used by	element link
annotation	documentation Atrybut zawierający wersję kolekcji w łączy
source	<pre><xs:attribute name="collection-version" type="xs:positiveInteger"> <xs:annotation> <xs:documentation>Atrybut zawierający wersję kolekcji w łączy</xs:documentation> </xs:annotation> </xs:attribute></pre>

attribute **content-status**

namespace	http://epodreczniki.pl/
type	ep:content-statusType
used by	element e-textbook-module complexTypes exerciseType quoteType attributeGroup firstLevelSectionAttributesGroup
facets	Kind Value Annotation enumeration canon enumeration expanding
annotation	documentation Status treści
source	<pre><xs:attribute name="content-status" type="ep:content-statusType"> <xs:annotation> <xs:documentation>Status treści</xs:documentation> </xs:annotation> </xs:attribute></pre>

attribute **foldable**

namespace	http://epodreczniki.pl/
type	xs:boolean
used by	element note complexTypes exerciseType quoteType
annotation	documentation Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true.
source	<pre><xs:attribute name="foldable" type="xs:boolean"> <xs:annotation> <xs:documentation>Atrybut pozwalający oznaczyć, że notka jest, lub nie jest zwijalna. UWAGA: Ma zastosowanie tylko i wyłącznie w przypadku notki typu curiosity i ma dla niej domyślną wartość true.</xs:documentation> </xs:annotation> </xs:attribute></pre>

attribute **glossary**

namespace	http://epodreczniki.pl/
type	xs:boolean
used by	complexTypes biographyType definitionType eventType ruleType
annotation	documentation Oznaczenie, czy element ma trafić do słowniczka, czy nie
source	<pre><xs:attribute name="glossary" type="xs:boolean"> <xs:annotation> <xs:documentation>Oznaczenie, czy element ma trafić do słowniczka, czy nie</xs:documentation> </xs:annotation> </xs:attribute></pre>

attribute **presentation-variant**

namespace	http://epodreczniki.pl/
type	restriction of xs:string
used by	element note complexTypes commandType definitionType ruleType student-workType attributeGroup exerciseAttributesGroup
facets	Kind Value Annotation enumeration exposed
annotation	documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
source	<pre><xs:attribute name="presentation-variant"> <xs:annotation> <xs:documentation>Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="exposed"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>

attribute **recipient**

namespace	http://epodreczniki.pl/
type	ep:recipientType
used by	elements e-textbook-module note attributeGroup firstLevelSectionAttributesGroup
facets	Kind Value Annotation enumeration student enumeration teacher
annotation	documentation Odbiorca treści
source	<pre><xs:attribute name="recipient" type="ep:recipientType"> <xs:annotation> <xs:documentation>Odbiorca treści</xs:documentation></pre>

	<code></xs:annotation></code> <code></xs:attribute></code>

attribute **stretch**

namespace	http://epodreczniki.pl/		
type	ep:stretchType		
used by	element complexType	para exerciseType	
facets	Kind enumeration enumeration	Value full-width extended-width	Annotation
annotation	documentation Atrybut oznaczający powiększoną szerokość elementu		
source	<code><xs:attribute name="stretch" type="ep:stretchType"></code> <code><xs:annotation></code> <code><xs:documentation>Atrybut oznaczający powiększoną szerokość elementu</xs:documentation></code> <code></xs:annotation></code> <code></xs:attribute></code>		

attribute **style**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
used by	complexType	tableType	
facets	Kind enumeration enumeration	Value zebra plain	Annotation
annotation	documentation atrybut styl dla cn:table		
source	<code><xs:attribute name="style"></code> <code><xs:annotation></code> <code><xs:documentation>atrybut styl dla cn:table</xs:documentation></code> <code></xs:annotation></code> <code><xs:simpleType></code> <code><xs:restriction base="xs:string"></code> <code><xs:enumeration value="zebra"/></code> <code><xs:enumeration value="plain"/></code> <code></xs:restriction></code> <code></xs:simpleType></code> <code></xs:attribute></code>		

attribute **target-name**

namespace	http://epodreczniki.pl/		
type	xs:string		
used by	complexType attributeGroup	baseGlossaryReferenceType bibtexmlEntryAttributesGroup	
annotation	documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych.		

source	<pre><xs:attribute name="target-name" type="xs:string"> <xs:annotation> <xs:documentation>Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych.</xs:documentation> </xs:annotation> </xs:attribute></pre>

attributeGroup **bibtexmlEntryAttributesGroup**

namespace	http://epodreczniki.pl/					
used by	complexType entryType					
attributes	Name ep:target-name	Type xs:string	Use required	Default	Fixed	Annotation documentation Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. documentation Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyslnie bibliography-and-module).
	ep:show-in	derived by: xs:string	optional			
annotation	documentation Atrybuty dla zapisu bibliograficznego.					
source	<pre><xs:attributeGroup name="bibtexmlEntryAttributesGroup"> <xs:annotation> <xs:documentation>Atrybuty dla zapisu bibliograficznego.</xs:documentation> </xs:annotation> <xs:attribute ref="ep:target-name" use="required"/> <xs:attribute name="show-in" use="optional"> <xs:annotation> <xs:documentation>Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyslnie bibliography-and- module).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="bibliography-and-module"/> <xs:enumeration value="bibliography-only"/> <xs:enumeration value="inline-only"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>					

	<code></xs:attributeGroup></code>

attribute **bibtexmlEntryAttributesGroup/@show-in**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	use optional		
facets	Kind	Value	Annotation
	enumeration	bibliography-and-module	
	enumeration	bibliography-only	
	enumeration	inline-only	
annotation	documentation Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyslnie bibliography-and-module).		
source	<pre><xs:attribute name="show-in" use="optional"> <xs:annotation> <xs:documentation>Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyslnie bibliography-and- module).</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="bibliography-and-module"/> <xs:enumeration value="bibliography-only"/> <xs:enumeration value="inline-only"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attributeGroup **exerciseAttributesGroup**

namespace	http://epodreczniki.pl/					
used by	complexType exerciseType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	ep:context-dependent ep:interactivity	xs:boolean derived by: xs:string	required			documentation Atrybut interactivity powinien być wykorzystany do podjęcia decyzji jakie podelementy są dozwolone w ramach exercise/alternatyw. Są to zależności niewyraźne w schemacie XML.
	ep:on-paper ep:presentation-variant	xs:boolean derived by: xs:string	optional optional	false		documentation Atrybut pozwalający oznaczyć, że blok semantyczny ma być wyeksponowany w

		warstwie prezentacyjnej np. Zadanie, Polecenie, Notka, Definicja, Reguła, Pojęcie, Praca domowa
annotation	documentation Atrybuty ćwiczenia	
source	<pre> <xs:attributeGroup name="exerciseAttributesGroup"> <xs:annotation> <xs:documentation>Atrybuty ćwiczenia</xs:documentation> </xs:annotation> <xs:attribute name="context-dependent" type="xs:boolean" use="required"/> <!-- TODO: OPIS--> <xs:attribute name="interactivity"> <xs:annotation> <xs:documentation>Atrybut interactivity powinien być wykorzystany do podjęcia decyzji jakie podelementy są dozwolone w ramach exercise/alternatyw. Są to zależności niewyrażalne w schemacie XML.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="static"/> <xs:enumeration value="random"/> <xs:enumeration value="interactive"/> <xs:enumeration value="womi_with_alternatives"/> <xs:enumeration value="quiz"/> <xs:enumeration value="random_quiz"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="on-paper" type="xs:boolean" use="optional" default="false"/> <xs:attribute ref="ep:presentation-variant" use="optional"/> </xs:attributeGroup> </pre>	

attribute **exerciseAttributesGroup/@context-dependent**

namespace	http://epodreczniki.pl/
type	xs:boolean
properties	use required
source	<xs:attribute name="context-dependent" type="xs:boolean" use="required"/>

attribute **exerciseAttributesGroup/@interactivity**

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
facets	Kind	Value	Annotation
	enumeration	static	
	enumeration	random	
	enumeration	interactive	
	enumeration	womi_with_alternatives	

	enumeration quiz enumeration random_quiz
annotation	documentation Atrybut interactivity powinien być wykorzystany do podjęcia decyzji jakie podelementy są dozwolone w ramach exercise/alternatyw. Są to zależności niewyrażalne w schemacie XML.
source	<pre> <xs:attribute name="interactivity"> <xs:annotation> <xs:documentation>Atrybut interactivity powinien być wykorzystany do podjęcia decyzji jakie podelementy są dozwolone w ramach exercise/alternatyw. Są to zależności niewyrażalne w schemacie XML.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="static"/> <xs:enumeration value="random"/> <xs:enumeration value="interactive"/> <xs:enumeration value="womi_with_alternatives"/> <xs:enumeration value="quiz"/> <xs:enumeration value="random_quiz"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **exerciseAttributesGroup/@on-paper**

namespace	http://epodreczniki.pl/
type	xs:boolean
properties	use optional default false
source	<pre><xs:attribute name="on-paper" type="xs:boolean" use="optional" default="false"/></pre>

attributeGroup **firstLevelSectionAttributesGroup**

namespace	http://epodreczniki.pl/					
used by	complexType firstLevelSectionType					
attributes	Name ep:recipient	Type ep:recipientType	Use optional	Default	Fixed	Annotation documentation UWAGA: ten atrybut sekcji może być używany tylko w momencie, gdy globalnie zadeklarowano moduł jako uczniowski, a jedyna wartość jaką może przyjąć to teacher documentation UWAGA: ten atrybut sekcji może być używany tylko w momencie,
	ep:content-status	ep:content-statusType	optional			

		gdy globalnie zadeklarowano moduł jako kanon, a jedyna wartość jaką może przyjąć to expanding
annotation	documentation Atrybuty ep sekcji pierwszego stopnia.	
source	<pre> <xs:attributeGroup name="firstLevelSectionAttributesGroup"> <xs:annotation> <xs:documentation>Atrybuty ep sekcji pierwszego stopnia.</xs:documentation> </xs:annotation> <xs:attribute ref="ep:recipient" use="optional"> <xs:annotation> <xs:documentation>UWAGA: ten atrybut sekcji może być używany tylko w momencie, gdy globalnie zadeklarowano moduł jako uczniowski, a jedyna wartość jaką może przyjąć to teacher</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute ref="ep:content-status" use="optional"> <xs:annotation> <xs:documentation>UWAGA: ten atrybut sekcji może być używany tylko w momencie, gdy globalnie zadeklarowano moduł jako kanon, a jedyna wartość jaką może przyjąć to expanding</xs:documentation> </xs:annotation> </xs:attribute> </xs:attributeGroup> </pre>	

attributeGroup qmlAnswerAttributesGroup

namespace	http://epodreczniki.pl/					
used by	complexType	answerType				
attributes	Name ep:in-set	Type xs:positiveInteger	Use	Default	Fixed	Annotation
annotation	documentation Atrybuty odpowiedzi qml					
source	<pre> <xs:attributeGroup name="qmlAnswerAttributesGroup"> <xs:annotation> <xs:documentation>Atrybuty odpowiedzi qml</xs:documentation> </xs:annotation> <xs:attribute name="in-set" type="xs:positiveInteger"/> </xs:attributeGroup> </pre>					

attribute qmlAnswerAttributesGroup/@in-set

namespace	http://epodreczniki.pl/
type	xs:positiveInteger
source	<pre><xs:attribute name="in-set" type="xs:positiveInteger"/></pre>

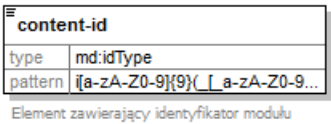
element **abstract**

diagram	
namespace	http://cnx.rice.edu/mdml
type	md:abstractType
properties	content complex mixed true
children	m:math
used by	complexType metadataType
annotation	documentation Element zawierający abstrakt modułu
source	<pre><xs:element name="abstract" type="md:abstractType"> <xs:annotation> <xs:documentation>Element zawierający abstrakt modułu</xs:documentation> </xs:annotation> </xs:element></pre>

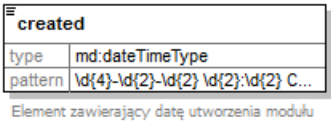
element **actors**

diagram	
namespace	http://cnx.rice.edu/mdml
type	md:actorsType
properties	content complex
children	md:person
used by	complexType metadataType
annotation	documentation Element listę autorów modułu
source	<pre><xs:element name="actors" type="md:actorsType"> <xs:annotation> <xs:documentation>Element listę autorów modułu</xs:documentation> </xs:annotation> </xs:element></pre>

element content-id

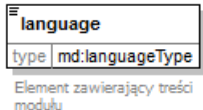
diagram	 <pre> content-id ├── type: md:idType └── pattern: i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]...) </pre> Element zawierający identyfikator modułu		
namespace	http://cnx.rice.edu/mdml		
type	idType		
properties	content simple		
used by	complexType metadataType		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation Element zawierający identyfikator modułu		
source	<pre> <xs:element name="content-id" type="md:idType"> <xs:annotation> <xs:documentation>Element zawierający identyfikator modułu</xs:documentation> </xs:annotation> </xs:element> </pre>		

element created

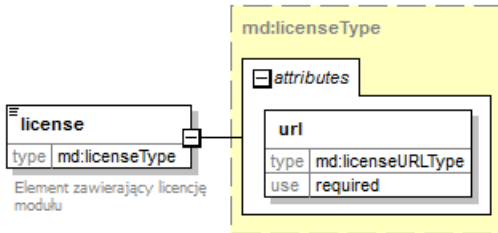
diagram	 <pre> created ├── type: md:dateTimeType └── pattern: \d{4}-\d{2}-\d{2} \d{2}:\d{2} C... </pre> Element zawierający datę utworzenia modułu		
namespace	http://cnx.rice.edu/mdml		
type	md:dateTimeType		
properties	content simple		
used by	complexType metadataType		
facets	Kind	Value	Annotation
	pattern	\d{4}-\d{2}-\d{2} \d{2}:\d{2} CES?T	
annotation	documentation Element zawierający datę utworzenia modułu		
source	<pre> <xs:element name="created" type="md:dateTimeType"> <xs:annotation> <xs:documentation>Element zawierający datę utworzenia modułu</xs:documentation> </xs:annotation> </xs:element> </pre>		

	<pre> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element ref="md:keyword" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </xs:element> </pre>

element language

diagram													
namespace	http://cnx.rice.edu/mdml												
type	md:languageType												
properties	content simple												
used by	complexType metadataType												
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>pl-PL</td><td></td></tr><tr><td>enumeration</td><td>en-US</td><td></td></tr><tr><td>enumeration</td><td>fr-FR</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	pl-PL		enumeration	en-US		enumeration	fr-FR	
Kind	Value	Annotation											
enumeration	pl-PL												
enumeration	en-US												
enumeration	fr-FR												
annotation	documentation Element zawierający treści modułu												
source	<pre><xs:element name="language" type="md:languageType"> <xs:annotation> <xs:documentation>Element zawierający treści modułu</xs:documentation> </xs:annotation> </xs:element></pre>												

element license

diagram										
namespace	http://cnx.rice.edu/mdml									
type	md:licenseType									
properties	content complex									
used by	complexType metadataType									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>CC BY 1.0</td><td></td></tr><tr><td>enumeration</td><td>CC BY 2.0</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	CC BY 1.0		enumeration	CC BY 2.0	
Kind	Value	Annotation								
enumeration	CC BY 1.0									
enumeration	CC BY 2.0									

	enumeration	CC BY 2.5				
	enumeration	CC BY 3.0				
	enumeration	CC BY 4.0				
attributes	Name	Type	Use	Default	Fixed	Annotation
	url	md:licenseURLType	required			
annotation	documentation Element zawierający licencję modułu					
source	<pre><xs:element name="license" type="md:licenseType"> <xs:annotation> <xs:documentation>Element zawierający licencję modułu</xs:documentation> </xs:annotation> </xs:element></pre>					

element person

diagram						
namespace	http://cnx.rice.edu/mdml					
type	md:personType					
properties	content complex					
children	md:fullname md:firstname md:surname md:email					
used by	complexType actorsType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	userid	idType	required			
annotation	documentation Element zawierający pojedynczego autora					
source	<pre><xs:element name="person" type="md:personType"></pre>					

	<pre> <xs:annotation> <xs:documentation>Element zawierający pojedynczego autora</xs:documentation> </xs:annotation> </xs:element> </pre>

element presentationTitle

diagram	
namespace	http://cnx.rice.edu/mdml
type	md:presentationTitleType
properties	content complex mixed true
children	cnxml:emphasis
used by	complexType metadataType
annotation	documentation Element zawierający tytuł modułu, w przypadku gdy potrzebne jest formatowanie przy pomocy emfaz, itp.
source	<pre> <xs:element name="presentationTitle" type="md:presentationTitleType"> <xs:annotation> <xs:documentation>Element zawierający tytuł modułu, w przypadku gdy potrzebne jest formatowanie przy pomocy emfaz, itp.</xs:documentation> </xs:annotation> </xs:element> </pre>

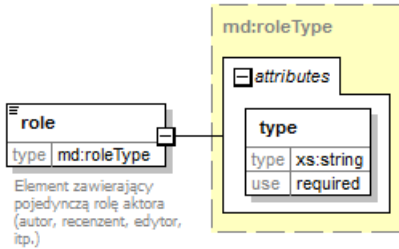
element repository

diagram	
namespace	http://cnx.rice.edu/mdml
type	xs:string
properties	content simple fixed https://epodreczniki.pcss.pl/
used by	complexType metadataType
annotation	documentation Element zawierający repozytorium źródłowe modułu (domyślnie zawsze https://epodreczniki.pcss.pl/)
source	<pre> <xs:element name="repository" type="xs:string" fixed="https://epodreczniki.pcss.pl/"> <xs:annotation> <xs:documentation>Element zawierający repozytorium źródłowe modułu (domyślnie zawsze https://epodreczniki.pcss.pl/)</xs:documentation> </xs:annotation> </xs:element> </pre>

element revised

diagram	revised type md:dateTimeType pattern \d{4}-\d{2}-\d{2} \d{2}:\d{2} C... Element zawierający datę modyfikacji modułu						
namespace	http://cnx.rice.edu/mdml						
type	md:dateTimeType						
properties	content simple						
used by	complexType metadataType						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>pattern</td><td>\d{4}-\d{2}-\d{2} \d{2}:\d{2} CES?T</td><td></td></tr></table>	Kind	Value	Annotation	pattern	\d{4}-\d{2}-\d{2} \d{2}:\d{2} CES?T	
Kind	Value	Annotation					
pattern	\d{4}-\d{2}-\d{2} \d{2}:\d{2} CES?T						
annotation	documentation Element zawierający datę modyfikacji modułu						
source	<pre><xs:element name="revised" type="md:dateTimeType"> <xs:annotation> <xs:documentation>Element zawierający datę modyfikacji modułu</xs:documentation> </xs:annotation> </xs:element></pre>						

element role

diagram													
namespace	http://cnx.rice.edu/mdml												
type	md:roleType												
properties	content complex												
used by	complexType rolesType												
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>type</td><td>xs:string</td><td>required</td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	type	xs:string	required			
Name	Type	Use	Default	Fixed	Annotation								
type	xs:string	required											
annotation	documentation Element zawierający pojedynczą rolę aktora (autor, recenzent, edytor, itp.)												
source	<pre><xs:element name="role" type="md:roleType"> <xs:annotation> <xs:documentation>Element zawierający pojedynczą rolę aktora (autor, recenzent, edytor, itp.)</xs:documentation> </xs:annotation> </xs:element></pre>												

element roles

diagram	The diagram illustrates the 'roles' element structure. It is a complex type containing a list of 'md:role' elements. The 'md:role' element is also a complex type containing a list of roles (actor, reviewer, editor, etc.).
namespace	http://cnx.rice.edu/mdml
type	md:rolesType
properties	content complex
children	md:role
used by	complexType metadataType
annotation	documentation Element zawierający listę ról aktorów
source	<pre><xs:element name="roles" type="md:rolesType"> <xs:annotation> <xs:documentation>Element zawierający listę ról aktorów</xs:documentation> </xs:annotation> </xs:element></pre>

element surname

diagram	The diagram illustrates the 'surname' element structure. It is a simple type containing a list of surnames (actor, reviewer, editor, etc.).
namespace	http://cnx.rice.edu/mdml
type	xs:string
properties	content simple
used by	complexType personType
annotation	documentation Element zawierający nazwisko aktora
source	<pre><xs:element name="surname" type="xs:string"> <xs:annotation> <xs:documentation>Element zawierający nazwisko aktora</xs:documentation> </xs:annotation> </xs:element></pre>

element title

diagram	The diagram illustrates the 'title' element structure. It is a complex type containing a list of titles (actor, reviewer, editor, etc.).
namespace	http://cnx.rice.edu/mdml
type	md:titleType
properties	content complex
children	md:role
used by	complexType metadataType
annotation	documentation Element zawierający tytuł modułu
source	<pre><xs:element name="title" type="md:titleType"> <xs:annotation> <xs:documentation>Element zawierający tytuł modułu</xs:documentation> </xs:annotation> </xs:element></pre>

namespace	http://cnx.rice.edu/mdml		
type	titleType		
properties	content	simple	
used by	complexType	metadataType	
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	140	
annotation	documentation Element zawierający tytuł modułu		
source	<pre><xs:element name="title" type="md:titleType"> <xs:annotation> <xs:documentation>Element zawierający tytuł modułu</xs:documentation> </xs:annotation> </xs:element></pre>		

element version

diagram	
namespace	http://cnx.rice.edu/mdml
type	xs:positiveInteger
properties	content simple
used by	complexType metadataType
annotation	documentation Element zawierający wersję modułu
source	<pre><xs:element name="version" type="xs:positiveInteger"> <xs:annotation> <xs:documentation>Element zawierający wersję modułu</xs:documentation> </xs:annotation> </xs:element></pre>

group presentationTitleContentGroup

diagram	
namespace	http://cnx.rice.edu/mdml
children	cnxml:emphasis
used by	complexType presentationTitleType
annotation	documentation Grupa bazowych elementów dozwolonych tytułu modułu
source	<pre><xs:group name="presentationTitleContentGroup"> <xs:annotation> <xs:documentation>Grupa bazowych elementów dozwolonych tytułu </pre>

	<pre> moduł</xs:documentation> </xs:annotation> <xs:choice> <xs:element ref="cnxml:emphasis"/> </xs:choice> </xs:group> </pre>

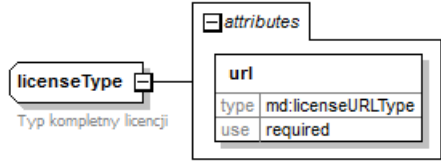
complexType abstractType

diagram	Typ elementu abstraktu/opisu modułu
namespace	http://cnx.rice.edu/mdml
properties	mixed true
children	m:math
used by	element abstract
annotation	documentation Typ elementu abstraktu/opisu modułu
source	<pre> <xs:complexType name="abstractType" mixed="true"> <xs:annotation> <xs:documentation>Typ elementu abstraktu/opisu modułu</xs:documentation> </xs:annotation> <xs:sequence minOccurs="0" maxOccurs="unbounded"> <xs:element ref="mml:math"/> </xs:sequence> </xs:complexType> </pre>

complexType actorsType

diagram	Typ elementu aktorów zaangażowanych w tworzenie dokumentu Element zawierający pojedynczego autora
namespace	http://cnx.rice.edu/mdml
children	md:person
used by	element actors
annotation	documentation Typ elementu aktorów zaangażowanych w tworzenie dokumentu
source	<pre> <xs:complexType name="actorsType"> <xs:annotation> <xs:documentation>Typ elementu aktorów zaangażowanych w tworzenie dokumentu</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="md:person" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>

complexType licenseType

diagram						
namespace	http://cnx.rice.edu/mdml					
type	extension of md:licenseBaseType					
properties	base md:licenseBaseType					
used by	element license					
facets	Kind	Value	Annotation			
	enumeration	CC BY 1.0				
	enumeration	CC BY 2.0				
	enumeration	CC BY 2.5				
	enumeration	CC BY 3.0				
	enumeration	CC BY 4.0				
attributes	Name	Type	Use	Default	Fixed	Annotation
	url	md:licenseURLType	required			
annotation	documentation Typ kompletny licencji					
source	<pre><xs:complexType name="licenseType"> <xs:annotation> <xs:documentation>Typ kompletny licencji</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="md:licenseBaseType"> <xs:attribute name="url" type="md:licenseURLType" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType></pre>					

attribute licenseType/@url

type	md:licenseURLType		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	https://creativecommons.org/licenses/by/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by/2.5/pl/legalcode	
	enumeration	http://creativecommons.org/licenses/by/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by/4.0/legalcode	
source	<xs:attribute name="url" type="md:licenseURLType" use="required"/>		

complexType personType

diagram						
namespace	http://cnx.rice.edu/mdml					
children	md:fullname md:firstname md:surname md:email					
used by	element person					
attributes	Name userid	Type idType	Use required	Default	Fixed	Annotation
annotation	documentation Typ elementu aktora					
source	<pre> <xs:complexType name="personType"> <xs:annotation> <xs:documentation>Typ elementu aktora</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="md:fullname"/> <xs:element ref="md:firstname"/> <xs:element ref="md:surname"/> <xs:element ref="md:email"/> </xs:sequence> <xs:attribute name="userid" type="md:idType" use="required"/> </xs:complexType> </pre>					

attribute personType/@userid

type	idType				
properties	use required				
facets	Kind pattern	Value i[a-zA-Z0-9]{9}([_ a-zA-Z0-9]+)?	Annotation documentation Wyrażenie regularne pasujące do identyfikatora utworzonego przez konwerter.		

	pattern [a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="userid" type="md:idType" use="required"/>	

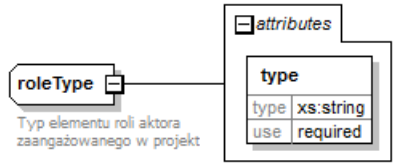
complexType presentationTitleType

diagram	presentationTitleType: Typ elementu tytuł modułu z formatowaniem w postaci emfaz, itp. md:presentationTitleContentGroup: Grupa bazowych elementów dozwolonych tytułu modułu cnxml:emphasis: INLINE Emfaza (EP Emfaza, EP Emfaza - podrubienie, EP Emfaza - kursywa + pogrubienie)	
namespace	http://cnx.rice.edu/mdml	
properties	mixed true	
children	cnxml:emphasis	
used by	element presentationTitle	
annotation	documentation Typ elementu tytuł modułu z formatowaniem w postaci emfaz, itp.	
source	<pre><xs:complexType name="presentationTitleType" mixed="true"> <xs:annotation> <xs:documentation>Typ elementu tytuł modułu z formatowaniem w postaci emfaz, itp.</xs:documentation> </xs:annotation> <xs:sequence minOccurs="0" maxOccurs="unbounded"> <xs:group ref="md:presentationTitleContentGroup"/> </xs:sequence> </xs:complexType></pre>	

complexType rolesType

diagram	rolesType: Typ elementu z rolami aktorów zaangażowanych w projekt md:role: Element zawierający pojedynczą rolę aktora (autor, recenzent, edytor, itp.)	
namespace	http://cnx.rice.edu/mdml	
children	md:role	
used by	element roles	
annotation	documentation Typ elementu z rolami aktorów zaangażowanych w projekt	
source	<pre><xs:complexType name="rolesType"> <xs:annotation> <xs:documentation>Typ elementu z rolami aktorów zaangażowanych w projekt</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="md:role" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType></pre>	

complexType **roleType**

diagram						
namespace	http://cnx.rice.edu/mdml					
type	extension of xs:string					
properties	base xs:string					
used by	element role					
attributes	Name type	Type xs:string	Use required	Default	Fixed	Annotation
annotation	documentation Typ elementu roli aktora zaangażowanego w projekt					
source	<pre><xs:complexType name="roleType"> <xs:annotation> <xs:documentation>Typ elementu roli aktora zaangażowanego w projekt</xs:documentation> </xs:annotation> <xs:simpleContent> <xs:extension base="xs:string"> <xs:attribute name="type" type="xs:string" use="required"/> </xs:extension> </xs:simpleContent> </xs:complexType></pre>					

attribute **roleType/@type**

type	xs:string
properties	use required
source	<pre><xs:attribute name="type" type="xs:string" use="required"/></pre>

simpleType **dateTimeType**

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		
properties	base xs:string		
used by	elements created revised		
facets	Kind pattern	Value \\d{4}-\\d{2}-\\d{2} \\d{2}:\\d{2} CES?T	Annotation
annotation	documentation Typ elementu data i czasu		
source	<xs:simpleType name="dateTimeType"> <xs:annotation> <xs:documentation>Typ elementu data i czasu</xs:documentation> </xs:annotation>		

	<pre> <xs:restriction base="xs:string"> <xs:pattern value="\d{4}-\d{2}-\d{2} \d{2}:\d{2} CES?T"/> </xs:restriction> </xs:simpleType> </pre>

simpleType emailType

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		
properties	base	xs:string	
used by	element	email	
facets	Kind	Value	Annotation
	minLength	1	
	pattern	[-0-9a-zA-Z._+]+@[-0-9a-zA-Z._+]+	
annotation	documentation Typ elementu adresu e-mail		
source	<pre><xs:simpleType name="emailType"> <xs:annotation> <xs:documentation>Typ elementu adresu e-mail</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:minLength value="1"/> <xs:pattern value="[-0-9a-zA-Z._+]+@[-0-9a-zA-Z._+]+"/> </xs:restriction> </xs:simpleType></pre>		

simpleType keywordType

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		
properties	base	xs:string	
used by	element	keyword	
facets	Kind	Value	Annotation
	minLength	1	
annotation	documentation Typ elementu słowa kluczowego modułu		
source	<pre> <xs:simpleType name="keywordType"> <xs:annotation> <xs:documentation>Typ elementu słowa kluczowego modułu</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </pre>		

simpleType languageType

namespace	http://cnx.rice.edu/mdml		

type	restriction of xs:string												
properties	base xs:string												
used by	element language												
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>pl-PL</td><td></td></tr><tr><td>enumeration</td><td>en-US</td><td></td></tr><tr><td>enumeration</td><td>fr-FR</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	pl-PL		enumeration	en-US		enumeration	fr-FR	
Kind	Value	Annotation											
enumeration	pl-PL												
enumeration	en-US												
enumeration	fr-FR												
annotation	documentation Typ elementu języka w zapisie zdefiniowanym przez IETF w BCP 47 - tylko wybrane, wspierane opcje												
source	<pre><xs:simpleType name="languageType"> <xs:annotation> <xs:documentation>Typ elementu języka w zapisie zdefiniowanym przez IETF w BCP 47 - tylko wybrane, wspierane opcje</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="pl-PL"/> <xs:enumeration value="en-US"/> <xs:enumeration value="fr-FR"/> </xs:restriction> </xs:simpleType></pre>												

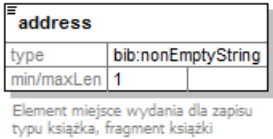
simpleType licenseBaseType

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		
properties	base xs:string		
used by	complexType licenseType		
facets	Kind	Value	Annotation
	enumeration	CC BY 1.0	
	enumeration	CC BY 2.0	
	enumeration	CC BY 2.5	
	enumeration	CC BY 3.0	
	enumeration	CC BY 4.0	
annotation	documentation Typ bazowy licencji z ograniczeniem na wartości		
source	<pre><xs:simpleType name="licenseBaseType"> <xs:annotation> <xs:documentation>Typ bazowy licencji z ograniczeniem na wartości</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="CC BY 1.0"/> <xs:enumeration value="CC BY 2.0"/> <xs:enumeration value="CC BY 2.5"/> <xs:enumeration value="CC BY 3.0"/> <xs:enumeration value="CC BY 4.0"/> </xs:restriction> </xs:simpleType></pre>		

simpleType licenseURLType

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		
properties	base	xs:string	
used by	attribute	licenseType/@url	
facets	Kind	Value	Annotation
	enumeration	https://creativecommons.org/licenses/by/1.0/legalcode	
	enumeration	https://creativecommons.org/licenses/by/2.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by/2.5/pl/legalcode	
	enumeration	http://creativecommons.org/licenses/by/3.0/pl/legalcode	
	enumeration	https://creativecommons.org/licenses/by/4.0/legalcode	
annotation	documentation Typ atrybutu url z adresem w elemencie licencji		
source	<pre> <xs:simpleType name="licenseURLType"> <xs:annotation> <xs:documentation>Typ atrybutu url z adresem w elemencie licencji</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="https://creativecommons.org/licenses/by/1.0/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by/2.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by/2.5/pl/legalcode"/> <xs:enumeration value="http://creativecommons.org/licenses/by/3.0/pl/legalcode"/> <xs:enumeration value="https://creativecommons.org/licenses/by/4.0/legalcode"/> </xs:restriction> </xs:simpleType> </pre>		

element address

diagram			
namespace	http://bibtexml.sf.net/		
type	bib:nonEmptyString		
properties	content	simple	
used by	complexType	incollectionType	
facets	Kind	Value	Annotation
	minLength	1	
annotation	documentation Element miejsce wydania dla zapisu typu książka, fragment książki		
source	<pre> <xs:element name="address" type="bib:nonEmptyString"> <xs:annotation> <xs:documentation>Element miejsce wydania dla zapisu typu książka, fragment książki</xs:documentation> </xs:annotation> </xs:element> </pre>		

element article

diagram	article type <code>bib:articleType</code> Element dla zapisu bibliograficznego typu artykuł. bib:articleType bib:author type <code>xs:string</code> Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title type <code>bib:nonEmptyString</code> min/maxLen <code>1</code> Element tytuł. bib:journal type <code>bib:nonEmptyString</code> min/maxLen <code>1</code> Element dla tytułu czasopisma w zapisie bibliograficznym typu artykuł. bib:year type <code>xs:string</code> derivedBy <code>restriction</code> pattern <code>[12]d\d\d</code> Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki. bib:number type <code>xs:positiveInteger</code> Element numer wydania w zapisie bibliograficznym typu artykuł. ep:bibliographyPattern type <code>ep:bibliographyPatternType</code> Element wzoru wstawiania bibliografii.
namespace	http://bibtexml.sf.net/
type	bib:articleType
properties	content complex
children	bib:author bib:title bib:journal bib:year bib:number ep:bibliographyPattern
used by	complexType entryType
annotation	documentation Element dla zapisu bibliograficznego typu artykuł.
source	<pre><xs:element name="article" type="bib:articleType"> <xs:annotation> <xs:documentation>Element dla zapisu bibliograficznego typu artykuł.</xs:documentation> </xs:annotation> </xs:element></pre>

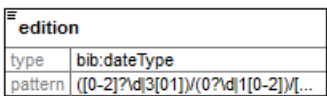
element **author**

diagram	 Element autor. UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami.
namespace	http://bibtexml.sf.net/
type	xs:string
properties	content simple
used by	complexTypes articleType incollectionFreeType incollectionType miscType unpublishedType
annotation	documentation Element autor. UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami.
source	<pre><xs:element name="author" type="xs:string"> <xs:annotation> <xs:documentation>Element autor. UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami.</xs:documentation> </xs:annotation> </xs:element></pre>

element **booktitle**

diagram	booktitle type bib:nonEmptyString min/maxLen 1 Element tytuł książki.						
namespace	http://bibtexml.sf.net/						
type	bib:nonEmptyString						
properties	content simple						
used by	complexType incollectionType						
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>minLength</td><td>1</td><td></td></tr></table>	Kind	Value	Annotation	minLength	1	
Kind	Value	Annotation					
minLength	1						
annotation	documentation Element tytuł książki.						
source	<xs:element name="booktitle" type="bib:nonEmptyString"> <xs:annotation> <xs:documentation>Element tytuł książki.</xs:documentation> </xs:annotation> </xs:element>						

element **edition**

diagram	 Element dla daty zapisu bibliograficznego typu ustawa
namespace	http://bibtexml.sf.net/

type	bib:dateType
properties	content simple
used by	complexType manualType
facets	Kind Value Annotation pattern ([0-2]?\\d 3[01])/(0?\\d 1[0-2])/[12]\\d\\d
annotation	documentation Element dla daty zapisu bibliograficznego typu ustawa
source	<pre><xs:element name="edition" type="bib:dateType"> <xs:annotation> <xs:documentation>Element dla daty zapisu bibliograficznego typu ustawa</xs:documentation> </xs:annotation> </xs:element></pre>

element editor

diagram	
namespace	http://bibtexml.sf.net/
type	xs:string
properties	content simple
used by	complexTypes incollectionFreeType incollectionType
annotation	documentation Element tłumacz w zapisie typu książka, fragment książki. Uwaga: podobnie jak w przypadku autora, kolejnych tłumaczy oddzielamy przecinkami.
source	<pre><xs:element name="editor" type="xs:string"> <xs:annotation> <xs:documentation>Element tłumacz w zapisie typu książka, fragment książki. Uwaga: podobnie jak w przypadku autora, kolejnych tłumaczy oddzielamy przecinkami.</xs:documentation> </xs:annotation> </xs:element></pre>

element entry

diagram	bib:entryType attributes id type: <code>bib:idType</code> use: <code>required</code> ep:target-name type: <code>xs:string</code> use: <code>required</code> Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. ep:show-in type: <code>xs:string</code> use: <code>optional</code> Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyślnie bibliography-and-module). entry type: <code>bib:entryType</code> Element entry odpowiadający pojedynczemu zapisowi bibliograficznemu bib:misc type: <code>bib:miscType</code> Element misc dla zapisu bibliograficznego typu zasób internetowy. bib:article type: <code>bib:articleType</code> Element dla zapisu bibliograficznego typu artykuł. bib:incollection type: <code>bib:incollectionType</code> Element dla zapisu bibliograficznego książki oraz fragment książki. bib:incollectionFree type: <code>bib:incollectionFreeType</code> Element dla zapisu bibliograficznego bez ograniczeń bib>manual type: <code>bib:manualType</code> Element dla zapisu bibliograficznego typu ustawa. bib:unpublished type: <code>bib:unpublishedType</code> Element dla zapisu bibliograficznego typu sprawozdanie.					
namespace	http://bibtexml.sf.net/					
type	bib:entryType					
properties	content complex					
children	bib:misc bib:article bib:incollection bib:incollectionFree bib>manual bib:unpublished					
used by	complexTypes contentType fileType					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	ep:target-name	<code>xs:string</code>	required			documentation

	ep:show-in derived by: optional xs:string	Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. <i>documentation</i> Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyslnie bibliography-and-module).
annotation	<i>documentation</i> Element entry odpowiadający pojedynczemu zapisowi bibliograficznemu	
source	<pre><xs:element name="entry" type="bib:entryType"> <xs:annotation> <xs:documentation>Element entry odpowiadający pojedynczemu zapisowi bibliograficznemu</xs:documentation> </xs:annotation> </xs:element></pre>	

element file

diagram	<pre> classDiagram class file { type bib:fileType } class bib_entry { type bib:entryType } file "1" -- "1..n" bib_entry </pre> The diagram illustrates the structure of the 'file' element. It is a complex type that contains one or more 'bib:entry' elements. The 'file' element is represented by a box with the label 'file' and 'type bib:fileType'. Below it, the text reads: 'Element file zawierający wszystkie zapisy bibliograficzne z modułu'. The 'bib:entry' element is represented by a box with the label 'bib:entry' and 'type bib:entryType'. Below it, the text reads: 'Element entry odpowiadający pojedynczemu zapisowi bibliograficznemu'. A dashed box encloses the 'bib:entry' element, indicating that it is contained within the 'file' element. A line with an open circle at the 'file' end and a solid line with an open circle at the 'bib:entry' end connects the two elements. The cardinality '1..n' is shown next to the 'bib:entry' element, indicating that there can be one or more 'bib:entry' elements within a 'file' element.	
namespace	http://bibtexml.sf.net/	
type	bib:fileType	
properties	content complex	
children	bib:entry	
used by	complexType documentType	
annotation	<i>documentation</i> Element file zawierający wszystkie zapisy bibliograficzne z modułu	
source	<pre><xs:element name="file" type="bib:fileType"> <xs:annotation> <xs:documentation>Element file zawierający wszystkie zapisy bibliograficzne z modułu</xs:documentation> </xs:annotation></pre>	

element incollection

diagram	bib:incollectionType bib:author type xs:string Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title type xs:string Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty. bib:edition type xs:string Redakcja książki bib:booktitle type bib:nonEmptyString min/maxLen 1 Element tytuł książki. bib:publisher type xs:string Element wydawca książki. bib:year type xs:string derivedBy restriction pattern [12]d/d/d Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki. bib:editor type xs:string Element tłumacz w zapisie typu książka, fragment książki. Uwaga: podobnie jak w przypadku autora, kolejnych tłumaczy oddzielamy przecinkami. bib:series type bib:nonEmptyString min/maxLen 1 Element dla serii wydawniczej w zapisie bibliograficznym typu książka oraz fragment książki. bib:pages type xs:string derivedBy restriction pattern [1-9]d*?-?[1-9]d* Element dla numerów stron w zapisie typu fragment książki. UWAGA: należy zwrócić uwagę, czy początek zakresu jest mniejszy lub równy końcowi. UWAGA: jeżeli występuje bib:title (tytuł fragmentu książki), wtedy ten element jest wymagany. bib:address type bib:nonEmptyString min/maxLen 1 Element miejsce wydania dla zapisu typu książka, fragment książki ep:bibliographyPattern type ep:bibliographyPatternType Element wzoru wstawiania bibliografii. incollection type bib:incollectionType Element dla zapisu bibliograficznego książki oraz fragment książki.
namespace	http://bibtexml.sf.net/
type	bib:incollectionType
properties	content complex
children	bib:author bib:title bib:edition bib:booktitle bib:publisher bib:year bib:editor bib:series bib:pages bib:address ep:bibliographyPattern
used by	complexType entryType
annotation	documentation Element dla zapisu bibliograficznego książki oraz fragment książki.

source	<pre><xs:element name="incollection" type="bib:incollectionType"> <xs:annotation> <xs:documentation>Element dla zapisu bibliograficznego książki oraz fragment książki.</xs:documentation> </xs:annotation> </xs:element></pre>

element incollectionFree

diagram	The diagram illustrates the structure of the <code>bib:incollectionFreeType</code>. It is a sequence of elements, each with a type and some have additional constraints like <code>derivedBy</code> or <code>pattern</code>. bib:author: type <code>xs:string</code>. Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title: type <code>xs:string</code>. Tytuł fragmentu książki, UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty. bib:edition: type <code>xs:string</code>. Redakcja książki. bib:booktitle: type <code>xs:string</code>. bib:publisher: type <code>xs:string</code>. Element wydawca książki. bib:year: type <code>xs:string</code>, derivedBy <code>restriction</code>, pattern <code>[12]d{4}</code>. Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki. bib:editor: type <code>xs:string</code>. Element tłumacz w zapisie typu książka, fragment książki. Uwaga: podobnie jak w przypadku autora, kolejnych tłumaczy oddzielamy przecinkami. bib:series: type <code>bib:nonEmptyString</code>, min/maxLen <code>1</code>. Element dla serii wydawniczej w zapisie bibliograficznym typu książka oraz fragment książki. bib:pages: type <code>xs:string</code>, derivedBy <code>restriction</code>, pattern <code>[1-9]d* 7- ?[1-9]d*</code>. Element dla numerów stron w zapisie typu fragment książki. UWAGA: należy zwrócić uwagę, czy początek zakresu jest mniejszy lub równy końcowi, UWAGA: jeżeli występuje bib:title (tytuł fragmentu książki), wtedy ten element jest wymagany. bib:address: type <code>xs:string</code>. ep:bibliographyPattern: type <code>ep:bibliographyPatternType</code>. Element wzoru wstawiania bibliografii.
namespace	http://bibtexml.sf.net/

source	<pre> <xs:element name="key" type="xs:string"> <xs:annotation> <xs:documentation>Element dla adresu publikacyjnego ustawy np. Dz.U. 2011 nr 21 poz. 112</xs:documentation> </xs:annotation> </xs:element> </pre>

element manual

diagram	
namespace	http://bibtexml.sf.net/
type	bib:manualType
properties	content complex
children	bib:title bib:organization bib:edition bib:key ep:bibliographyPattern
used by	complexType entryType
annotation	documentation Element dla zapisu bibliograficznego typu ustawa.
source	<pre> <xs:element name="manual" type="bib:manualType"> <xs:annotation> <xs:documentation>Element dla zapisu bibliograficznego typu ustawa.</xs:documentation> </xs:annotation> </xs:element> </pre>

element misc

diagram	misc type bib:miscType Element misc dla zapisu bibliograficznego typu zasób internetowy. bib:miscType bib:author type xs:string Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title type bib:nonEmptyString min/maxLen 1 Element tytuł. bib:howpublished type xs:string derivedBy restriction pattern https://[-a-zA-Z0-9.]+[a-... Element url dla zapisu typu źródło internetowe. bib:note type bib:dateType pattern ([0-2]?[d3[01]])(0?[d1[0-2]]/[... Element dla daty sprawdzenia ostatniego dostępu dla zapisu typu źródło internetowe. ep:bibliographyPattern type ep:bibliographyPatternType Element wzoru wstawiania bibliografii.
namespace	http://bibtexml.sf.net/
type	bib:miscType
properties	content complex
children	bib:author bib:title bib:howpublished bib:note ep:bibliographyPattern
used by	complexType entryType
annotation	documentation Element misc dla zapisu bibliograficznego typu zasób internetowy.
source	<pre><xs:element name="misc" type="bib:miscType"> <xs:annotation> <xs:documentation>Element misc dla zapisu bibliograficznego typu zasób internetowy.</xs:documentation> </xs:annotation> </xs:element></pre>

element note

diagram	note type bib:dateType pattern ([0-2]?[d3[01]])(0?[d1[0-2]]/[... Element dla daty sprawdzenia ostatniego dostępu dla zapisu typu źródło internetowe.
namespace	http://bibtexml.sf.net/
type	bib:dateType

source	<pre> <xs:element name="organization" type="bib:nonEmptyString"> <xs:annotation> <xs:documentation>Element dla typu aktu prawnego w zapisie typu ustawa.</xs:documentation> </xs:annotation> </xs:element> </pre>

element pages

diagram	<table><tr><td colspan="2">pages</td></tr><tr><td>type</td><td>xs:string</td></tr><tr><td>derivedBy</td><td>restriction</td></tr><tr><td>pattern</td><td>[1-9]\d* ?- ?[1-9]\d*</td></tr></table> Element dla numerów stron w zapisie typu fragment książki. UWAGA: należy zwrócić uwagę, czy początek zakresu jest mniejszy lub równy końcowi. UWAGA: jeżeli występuje bib:title (tytuł fragmentu książki), wtedy ten element jest wymagany.	pages		type	xs:string	derivedBy	restriction	pattern	[1-9]\d* ?- ?[1-9]\d*
pages									
type	xs:string								
derivedBy	restriction								
pattern	[1-9]\d* ?- ?[1-9]\d*								
namespace	http://bibtexml.sf.net/								
type	restriction of xs:string								
properties	content simple								
used by	complexTypes incollectionFreeType incollectionType								
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>pattern</td><td>[1-9]\d* ?- ?[1-9]\d*</td><td></td></tr></table>	Kind	Value	Annotation	pattern	[1-9]\d* ?- ?[1-9]\d*			
Kind	Value	Annotation							
pattern	[1-9]\d* ?- ?[1-9]\d*								
annotation	documentation Element dla numerów stron w zapisie typu fragment książki. UWAGA: należy zwrócić uwagę, czy początek zakresu jest mniejszy lub równy końcowi. UWAGA: jeżeli występuje bib:title (tytuł fragmentu książki), wtedy ten element jest wymagany.								
source	<pre><xs:element name="pages"> <xs:annotation> <xs:documentation>Element dla numerów stron w zapisie typu fragment książki. UWAGA: należy zwrócić uwagę, czy początek zakresu jest mniejszy lub równy końcowi. UWAGA: jeżeli występuje bib:title (tytuł fragmentu książki), wtedy ten element jest wymagany.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[1-9]\d* ?- ?[1-9]\d*" /> </xs:restriction> </xs:simpleType> </xs:element></pre>								

element publisher

diagram	 Element wydawca książki.
namespace	http://bibtexml.sf.net/
type	xs:string
properties	content simple


```
</xs:annotation>
</xs:element>
```

element unpublished

diagram	The diagram illustrates the structure of the <code>unpublished</code> element. It is a complex type defined by <code>bib:unpublishedType</code>. The element contains a sequence of five child elements: <code>bib:author</code>, <code>bib:title</code>, <code>bib:note</code>, <code>bib:year</code>, and <code>ep:bibliographyPattern</code>. Each child element has its own type and documentation. <code>bib:author</code> is of type <code>xs:string</code>. <code>bib:title</code> is of type <code>bib:nonEmptyString</code> with <code>min/maxLen</code> 1. <code>bib:note</code> is of type <code>bib:note</code>. <code>bib:year</code> is of type <code>xs:string</code> with <code>derivedBy</code> <code>restriction</code> and <code>pattern</code> <code>[12]d\d\d</code>. <code>ep:bibliographyPattern</code> is of type <code>ep:bibliographyPatternType</code>.
namespace	http://bibtexml.sf.net/
type	bib:unpublishedType
properties	content complex
children	bib:author bib:title bib:note bib:year ep:bibliographyPattern
used by	complexType entryType
annotation	documentation Element dla zapisu bibliograficznego typu sprawozdanie.
source	<pre><xs:element name="unpublished" type="bib:unpublishedType"> <xs:annotation> <xs:documentation>Element dla zapisu bibliograficznego typu sprawozdanie.</xs:documentation> </xs:annotation> </xs:element></pre>

element year

diagram	<table><tr><td colspan="2">year</td></tr><tr><td>type</td><td>xs:string</td></tr><tr><td>derivedBy</td><td>restriction</td></tr><tr><td>pattern</td><td>[12]\d\d\d</td></tr></table> Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki.	year		type	xs:string	derivedBy	restriction	pattern	[12]\d\d\d
year									
type	xs:string								
derivedBy	restriction								
pattern	[12]\d\d\d								
namespace	http://bibtexml.sf.net/								
type	restriction of xs:string								
properties	content simple								
used by	complexTypes articleType incollectionFreeType incollectionType unpublishedType								
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>pattern</td><td>[12]\d\d\d</td><td></td></tr></table>	Kind	Value	Annotation	pattern	[12]\d\d\d			
Kind	Value	Annotation							
pattern	[12]\d\d\d								
annotation	documentation Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki.								
source	<pre><xs:element name="year"> <xs:annotation> <xs:documentation>Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki.</xs:documentation> </xs:annotation> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="[12]\d\d\d"/> </xs:restriction> </xs:simpleType> </xs:element></pre>								

complexType articleType

diagram	articleType Typ dla zapisu bibliograficznego typu artykuł. bib:author type xs:string Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title type bib:nonEmptyString min/maxLen 1 Element tytuł. bib:journal type bib:nonEmptyString min/maxLen 1 Element dla tytułu czasopisma w zapisie bibliograficznym typu artykuł. bib:year type xs:string derivedBy restriction pattern [12]dvdvd Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki. bib:number type xs:positiveInteger Element numer wydania w zapisie bibliograficznym typu artykuł. ep:bibliographyPattern type ep:bibliographyPatternType Element wzoru wstawiania bibliografii.
namespace	http://bibtexml.sf.net/
children	bib:author bib:title bib:journal bib:year bib:number ep:bibliographyPattern
used by	element article
annotation	documentation Typ dla zapisu bibliograficznego typu artykuł.
source	<pre> <xs:complexType name="articleType"> <xs:annotation> <xs:documentation>Typ dla zapisu bibliograficznego typu artykuł.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="bib:author"/> <xs:element ref="bib:title"/> <xs:element ref="bib:journal"/> <xs:element ref="bib:year"/> <xs:element ref="bib:number" minOccurs="0"/> <xs:element ref="ep:bibliographyPattern" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

complexType entryType

diagram	entryType Typ entry odpowiadający pojedynczemu zapisowi bibliograficznemu Attributes: id type: bib:idType use: required Group: ep:bibtexmlEntryAttribute... ep:target-name type: xs:string use: required Nazwa dla referencji np. do wykorzystania jako indeks, który pojawi się w formatach statycznych. ep:show-in type: xs:string use: optional Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyślnie bibliography-and-module). Atrybuty dla zapisu bibliograficznego. Children: bib:misc type: bib:miscType Element misc dla zapisu bibliograficznego typu zasób internetowy. bib:article type: bib:articleType Element dla zapisu bibliograficznego typu artykuł. bib:incollection type: bib:incollectionType Element dla zapisu bibliograficznego książka oraz fragment książki. bib:incollectionFree type: bib:incollectionFreeType Element dla zapisu bibliograficznego bez ograniczeń bib>manual type: bib>manualType Element dla zapisu bibliograficznego typu ustawa. bib:unpublished type: bib:unpublishedType Element dla zapisu bibliograficznego typu sprawozdanie.					
namespace	http://bibtexml.sf.net/					
children	bib:misc bib:article bib:incollection bib:incollectionFree bib>manual bib:unpublished					
used by	element entry					
attributes	Name id ep:target-name	Type idType xs:string	Use required required	Default	Fixed	Annotation documentation Nazwa dla referencji np. do wykorzystania

	ep:show-in derived by: optional xs:string	jako indeks, który pojawi się w formatach statycznych. <i>documentation</i> Pozwala określić, czy zapis bibliograficzny ma się pojawić również w module, w którym jest zdefiniowany, czy tylko w bibliografii zbiorczej (domyslnie <i>bibliography-and-module</i>).
annotation	<i>documentation</i> Typ entry odpowiadający pojedynczemu zapisowi bibliograficznemu	
source	<pre><xs:complexType name="entryType"> <xs:annotation> <xs:documentation>Typ entry odpowiadający pojedynczemu zapisowi bibliograficznemu</xs:documentation> </xs:annotation> <xs:choice minOccurs="0"> <xs:element ref="bib:misc"/> <xs:element ref="bib:article"/> <xs:element ref="bib:incollection"/> <xs:element ref="bib:incollectionFree"/> <xs:element ref="bib:manual"/> <xs:element ref="bib:unpublished"/> </xs:choice> <xs:attribute name="id" type="bib:idType" use="required"/> <xs:attributeGroup ref="ep:bibtexmlEntryAttributesGroup"/> </xs:complexType></pre>	

attribute **entryType/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?	<i>documentation</i> Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	<i>documentation</i> Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<pre><xs:attribute name="id" type="bib:idType" use="required"/></pre>		

complexType fileType

diagram	Typ file zawierający wszystkie zapisy bibliograficzne z modułu Element entry odpowiadający pojedynczemu zapisowi bibliograficznemu
namespace	http://bibtexml.sf.net/
children	bib:entry
used by	element file
annotation	documentation Typ file zawierający wszystkie zapisy bibliograficzne z modułu
source	<pre> <xs:complexType name="fileType"> <xs:annotation> <xs:documentation>Typ file zawierający wszystkie zapisy bibliograficzne z modułu</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="bib:entry" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>

complexType incollectionFreeType

diagram	incollectionFreeType Typ dla zapisu bibliograficznego bez ograniczeń bib:author type xs:string Element autor. UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title type xs:string Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do tytułu, ponieważ ten element może być pusty. bib:edition type xs:string Redakcja książki bib:booktitle type xs:string bib:publisher type xs:string Element wydawca książki. bib:year type xs:string derivedBy restriction pattern [12]d\d\d Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki. bib:editor type xs:string Element tłumacz w zapisie typu książka, fragment książki. Uwaga: podobnie jak w przypadku autora, kolejnych tłumaczy oddzielamy przecinkami. bib:series type bib:nonEmptyString min/maxLen 1 Element dla serii wydawniczej w zapisie bibliograficznym typu książka oraz fragment książki. bib:pages type xs:string derivedBy restriction pattern [1-9]d* ?- ?[1-9]d* Element dla numerów stron w zapisie typu fragment książki. UWAGA: należy zwrócić uwagę, czy początek zakresu jest mniejszy lub równy końcowi. UWAGA: jeżeli występuje bib:title (tytuł fragmentu książki), wtedy ten element jest wymagany. bib:address type xs:string ep:bibliographyPattern type ep:bibliographyPatternType Element wzoru wstawiania bibliografii.
namespace	http://bibtexml.sf.net/
children	bib:author bib:title bib:edition bib:booktitle bib:publisher bib:year bib:editor bib:series bib:pages bib:address ep:bibliographyPattern
used by	element incollectionFree
annotation	documentation Typ dla zapisu bibliograficznego bez ograniczeń
source	<pre><xs:complexType name="incollectionFreeType"> <xs:annotation> <xs:documentation>Typ dla zapisu bibliograficznego bez ograniczeń</xs:documentation> </xs:annotation> <sequence> <element base="bib:author" type="xs:string"/> <element base="bib:title" type="xs:string"/> <element base="bib:edition" type="xs:string"/> <element base="bib:booktitle" type="xs:string"/> <element base="bib:publisher" type="xs:string"/> <element base="bib:year" type="xs:string" derivation="restriction" pattern="[12]d\d\d"/> <element base="bib:editor" type="xs:string"/> <element base="bib:series" type="bib:nonEmptyString" minLen="1" maxLen="1"/> <element base="bib:pages" type="xs:string" derivation="restriction" pattern="[1-9]d* ?- ?[1-9]d*"/> <element base="bib:address" type="xs:string"/> <element base="ep:bibliographyPattern" type="ep:bibliographyPatternType"/> </sequence> </xs:complexType></pre>

	<pre> </xs:annotation> <xs:sequence> <xs:element ref="bib:author"/> <xs:element name="title" type="xs:string"> <xs:annotation> <xs:documentation>Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="edition" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Redakcja książki</xs:documentation> </xs:annotation> </xs:element> <xs:element name="booktitle" type="xs:string"/> <xs:element ref="bib:publisher"/> <xs:element ref="bib:year" minOccurs="0"/> <xs:element ref="bib:editor" minOccurs="0"/> <xs:element ref="bib:series" minOccurs="0"/> <xs:element ref="bib:pages" minOccurs="0"/> <xs:element name="address" type="xs:string"/> <xs:element ref="ep:bibliographyPattern" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

element incollectionFreeType/title

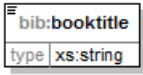
diagram	 Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.
namespace	http://bibtexml.sf.net/
type	xs:string
properties	content simple
used by	complexTypes articleType manualType miscType unpublishedType
annotation	documentation Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.
source	<pre> <xs:element name="title" type="xs:string"> <xs:annotation> <xs:documentation>Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.</xs:documentation> </xs:annotation> </xs:element> </pre>

element incollectionFreeType/edition

diagram	 Redakcja książki

namespace	http://bibtexml.sf.net/
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
used by	complexType manualType
annotation	documentation Redakcja książki
source	<pre><xs:element name="edition" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Redakcja książki</xs:documentation> </xs:annotation> </xs:element></pre>

element incollectionFreeType/booktitle

diagram	
namespace	http://bibtexml.sf.net/
type	xs:string
properties	content simple
used by	complexType incollectionType
source	<pre><xs:element name="booktitle" type="xs:string"/></pre>

element incollectionFreeType/address

diagram	
namespace	http://bibtexml.sf.net/
type	xs:string
properties	content simple
used by	complexType incollectionType
source	<pre><xs:element name="address" type="xs:string"/></pre>

complexType incollectionType

diagram	incollectionType Typ dla zapisu bibliograficznego książka oraz fragment książki. bib:author type xs:string Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title type xs:string Tytuł fragmentu książki, UWAGA: W tym miejscu nie ma referencji do tytułu, ponieważ ten element może być pusty. bib:edition type xs:string Redakcja książki bib:booktitle type bib:nonEmptyString min/maxLen 1 Element tytuł książki. bib:publisher type xs:string Element wydawca książki. bib:year type xs:string derivedBy restriction pattern [12]d{4} Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki. bib:editor type xs:string Element tłumacz w zapisie typu książka, fragment książki, Uwaga: podobnie jak w przypadku autora, kolejnych tłumaczy oddzielamy przecinkami. bib:series type bib:nonEmptyString min/maxLen 1 Element dla serii wydawniczej w zapisie bibliograficznym typu książka oraz fragment książki. bib:pages type xs:string derivedBy restriction pattern [1-9]d* ? - ?[1-9]d* Element dla numerów stron w zapisie typu fragment książki, UWAGA: należy zwrócić uwagę, czy początek zakresu jest mniejszy lub równy końcowi, UWAGA: jeżeli występuje bib:title (tytuł fragmentu książki), wtedy ten element jest wymagany. bib:address type bib:nonEmptyString min/maxLen 1 Element miejsce wydania dla zapisu typu książka, fragment książki ep:bibliographyPattern type ep:bibliographyPatternType Element wzoru wstawiania bibliografii.
namespace	http://bibtexml.sf.net/
children	bib:author bib:title bib:edition bib:booktitle bib:publisher bib:year bib:editor bib:series bib:pages bib:address ep:bibliographyPattern
used by	element incollection
annotation	documentation Typ dla zapisu bibliograficznego książka oraz fragment książki.
source	<pre> <xs:complexType name="incollectionType"> <xs:annotation> <xs:documentation>Typ dla zapisu bibliograficznego książka oraz fragment książki.</xs:documentation> </pre>

	<pre> </xs:annotation> <xs:sequence> <xs:element ref="bib:author"/> <xs:element name="title" type="xs:string"> <xs:annotation> <xs:documentation>Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.</xs:documentation> </xs:annotation> </xs:element> <xs:element name="edition" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Redakcja książki</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="bib:booktitle"/> <xs:element ref="bib:publisher"/> <xs:element ref="bib:year"/> <xs:element ref="bib:editor" minOccurs="0"/> <xs:element ref="bib:series" minOccurs="0"/> <xs:element ref="bib:pages" minOccurs="0"/> <xs:element ref="bib:address"/> <xs:element ref="ep:bibliographyPattern" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

element `incollectionType/title`

diagram	 Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.
namespace	http://bibtexml.sf.net/
type	xs:string
properties	content simple
used by	complexTypes articleType manualType miscType unpublishedType
annotation	documentation Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.
source	<pre> <xs:element name="title" type="xs:string"> <xs:annotation> <xs:documentation>Tytuł fragmentu książki. UWAGA: W tym miejscu nie ma referencji do title, ponieważ ten element może być pusty.</xs:documentation> </xs:annotation> </xs:element> </pre>

element `incollectionType/edition`

diagram	 Redakcja książki

namespace	http://bibtexml.sf.net/
type	xs:string
properties	minOcc 0 maxOcc 1 content simple
used by	complexType manualType
annotation	documentation Redakcja książki
source	<pre><xs:element name="edition" type="xs:string" minOccurs="0"> <xs:annotation> <xs:documentation>Redakcja książki</xs:documentation> </xs:annotation> </xs:element></pre>

complexType manualType

diagram	
namespace	http://bibtexml.sf.net/
children	bib:title bib:organization bib:edition bib:key ep:bibliographyPattern
used by	element manual
annotation	documentation Typ dla zapisu bibliograficznego typu ustawa.
source	<pre><xs:complexType name="manualType"> <xs:annotation> <xs:documentation>Typ dla zapisu bibliograficznego typu ustawa.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="bib:title"/> <xs:element ref="bib:organization"/> <xs:element ref="bib:edition"/></pre>

	<pre> <xs:element ref="bib:key"/> <xs:element ref="ep:bibliographyPattern" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

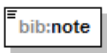
complexType miscType

diagram The diagram shows a sequence of five elements within the miscType complex type: bib:author: type <code>xs:string</code>. Description: Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title: type <code>bib:nonEmptyString</code>, min/maxLen <code>1</code>. Description: Element tytuł. bib:howpublished: type <code>xs:string</code>, derivedBy <code>restriction</code>, pattern <code>https?://[-a-zA-Z0-9.]+[a-...</code>. Description: Element url dla zapisu typu źródło internetowe. bib:note: type <code>bib:dateType</code>, pattern <code>{[0-2]?[d3[01]](0?[d1[0-2]]/[...}</code>. Description: Element dla daty sprawdzenia ostatniego dostępu dla zapisu typu źródło internetowe. ep:bibliographyPattern: type <code>ep:bibliographyPatternType</code>. Description: Element wzoru wstawiania bibliografii. The miscType is described as: Typ misc dla zapisu bibliograficznego typu zasób internetowy.	
namespace	http://bibtexml.sf.net/
children	bib:author bib:title bib:howpublished bib:note ep:bibliographyPattern
used by	element misc
annotation	documentation Typ misc dla zapisu bibliograficznego typu zasób internetowy.
source	<pre> <xs:complexType name="miscType"> <xs:annotation> <xs:documentation>Typ misc dla zapisu bibliograficznego typu zasób internetowy.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="bib:author" minOccurs="0"/> <xs:element ref="bib:title"/> <xs:element ref="bib:howpublished"/> <xs:element ref="bib:note"/> <xs:element ref="ep:bibliographyPattern" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

complexType unpublishedType

diagram	unpublishedType Typ dla zapisu bibliograficznego typu sprawozdanie. bib:author type xs:string Element autor, UWAGA: należy wstawić autorów oddzielonych od siebie przecinkami. bib:title type bib:nonEmptyString min/maxLen 1 Element tytuł. bib:note UWAGA: element występuje ze względu na kompatybilność z bibTexXML, ale jest pusty i nie ma znaczenia w tym typie zapisu. bib:year type xs:string derivedBy restriction pattern [12]y[d\d] Element rok wydania w zapisie bibliograficznym typu artykuł, książka, fragment książki. ep:bibliographyPattern type ep:bibliographyPatternType Element wzoru wstawiania bibliografii.
namespace	http://bibtexml.sf.net/
children	bib:author bib:title bib:note bib:year ep:bibliographyPattern
used by	element unpublished
annotation	documentation Typ dla zapisu bibliograficznego typu sprawozdanie.
source	<pre> <xs:complexType name="unpublishedType"> <xs:annotation> <xs:documentation>Typ dla zapisu bibliograficznego typu sprawozdanie.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="bib:author"/> <xs:element ref="bib:title"/> <xs:element name="note"> <xs:annotation> <xs:documentation>UWAGA: element występuje ze względu na kompatybilność z bibTexXML, ale jest pusty i nie ma znaczenia w tym typie zapisu.</xs:documentation> </xs:annotation> </xs:element> <xs:element ref="bib:year" minOccurs="0"/> <xs:element ref="ep:bibliographyPattern" minOccurs="0"/> </xs:sequence> </xs:complexType> </pre>

element **unpublishedType/note**

diagram	 UWAGA: element występuje ze względu na kompatybilność z bibTexXML, ale jest pusty i nie ma znaczenia w tym typie zapisu.
namespace	http://bibtexml.sf.net/
used by	complexType miscType
annotation	documentation UWAGA: element występuje ze względu na kompatybilność z bibTexXML, ale jest pusty i nie ma znaczenia w tym typie zapisu.
source	<pre><xs:element name="note"> <xs:annotation> <xs:documentation>UWAGA: element występuje ze względu na kompatybilność z bibTexXML, ale jest pusty i nie ma znaczenia w tym typie zapisu.</xs:documentation> </xs:annotation> </xs:element></pre>

simpleType **dateType**

namespace	http://bibtexml.sf.net/		
type	restriction of xs:string		
properties	base	xs:string	
used by	elements	edition note	
facets	Kind	Value	Annotation
	pattern	([0-2]?[d 3[01]])(0?[d 1[0-2]]/[12]\d\d\d	
annotation	documentation Typ prosty dla daty wykorzystywanej w ostatnim dostępie do źródła internetowego, czy też dacie ustawy.		
source	<pre><xs:simpleType name="dateType"> <xs:annotation> <xs:documentation>Typ prosty dla daty wykorzystywanej w ostatnim dostępie do źródła internetowego, czy też dacie ustawy.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="([0-2]?[d 3[01]])(0?[d 1[0-2]]/[12]\d\d\d"/> </xs:restriction> </xs:simpleType></pre>		

simpleType **nonEmptyString**

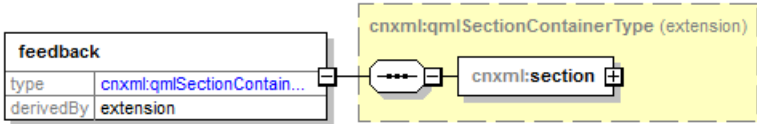
namespace	http://bibtexml.sf.net/		
type	restriction of xs:string		
properties	base	xs:string	
used by	elements	address booktitle journal organization series title	
facets	Kind	Value	Annotation
	minLength	1	
source	<xs:simpleType name="nonEmptyString"> <xs:restriction base="xs:string">		

	<pre> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </pre>

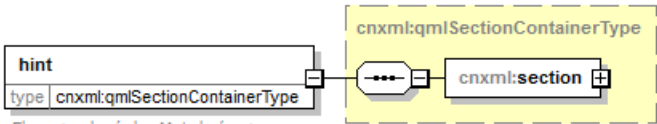
element **answer**

diagram						
namespace	http://cnx.rice.edu/qml/1.0					
type	q:answerType					
properties	content complex					
children	q:response q:hint					
used by	complexType itemType					
attributes	Name id ep:in-set	Type idType xs:positiveInteger	Use required	Default	Fixed	Annotation
annotation	documentation Element odpowiedź w quizie (EPQ Odpowiedź - poprawna, EPQ Odpowiedź - błędna)					
source	<pre> <xs:element name="answer" type="q:answerType"> <xs:annotation> <xs:documentation>Element odpowiedź w quizie (EPQ Odpowiedź - poprawna, EPQ Odpowiedź - błędna)</xs:documentation> </xs:annotation> </xs:element> </pre>					

element feedback

diagram	 Element wyjaśnienie (EPQ Wyjaśnienie).
namespace	http://cnx.rice.edu/qml/1.0
type	extension of cnxml:qmlSectionContainerType
properties	content complex
children	cnxml:section
used by	complexType itemType
annotation	documentation Element wyjaśnienie (EPQ Wyjaśnienie).
source	<pre><xs:element name="feedback"> <xs:annotation> <xs:documentation>Element wyjaśnienie (EPQ Wyjaśnienie).</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:qmlSectionContainerType"/> </xs:complexContent> </xs:complexType> </xs:element></pre>

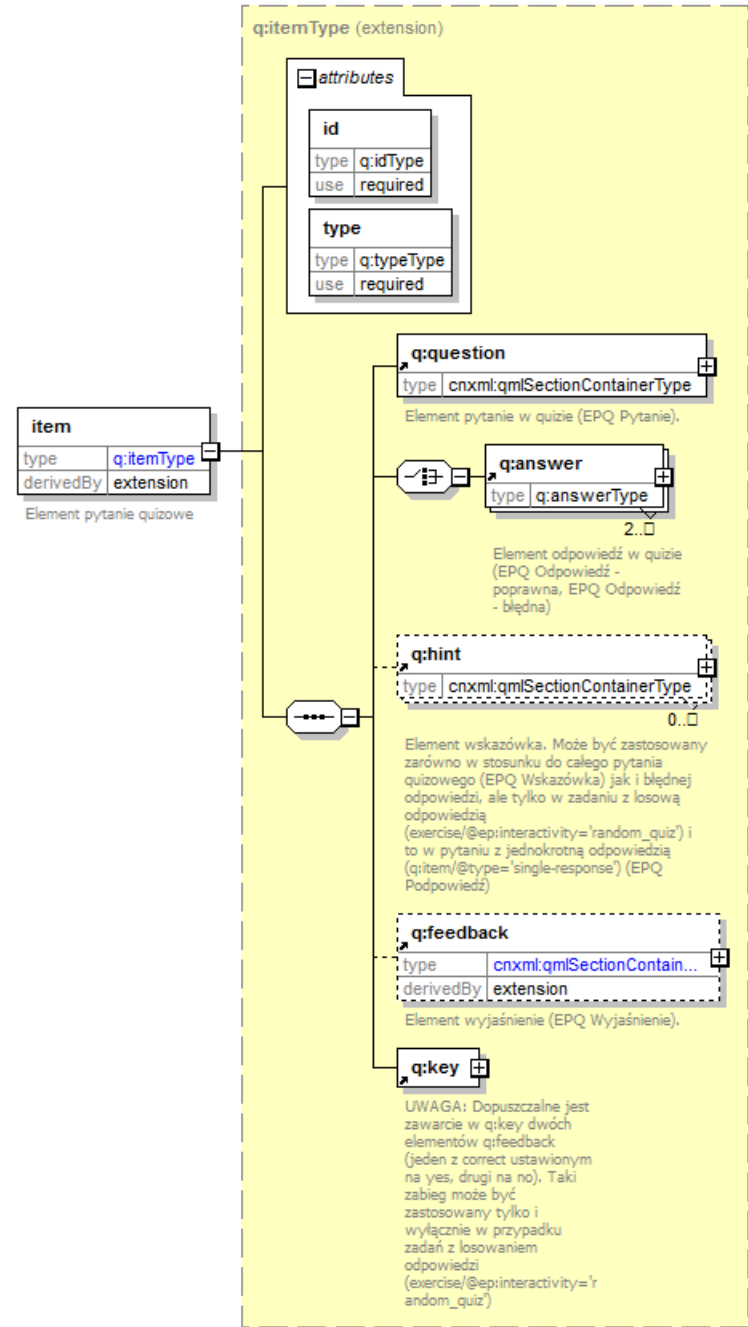
element hint

diagram	 Element wskazówka. Może być zastosowany zarówno w stosunku do całego pytania quizowego (EPQ Wskazówka) jak i błędnej odpowiedzi, ale tylko w zadaniu z losową odpowiedzią (exercise/@ep:interactivity='random_quiz') i to w pytaniu z jednokrotną odpowiedzią (q:item/@type='single-response') (EPQ Podpowiedź)
namespace	http://cnx.rice.edu/qml/1.0
type	cnxml:qmlSectionContainerType
properties	content complex
children	cnxml:section
used by	complexTypes answerType itemType
annotation	documentation Element wskazówka. Może być zastosowany zarówno w stosunku do całego pytania quizowego (EPQ Wskazówka) jak i błędnej odpowiedzi, ale tylko w zadaniu z losową odpowiedzią (exercise/@ep:interactivity='random_quiz') i to w pytaniu z jednokrotną odpowiedzią (q:item/@type='single-response') (EPQ Podpowiedź)
source	<pre><xs:element name="hint" type="cnxml:qmlSectionContainerType"> <xs:annotation> <xs:documentation>Element wskazówka. Może być zastosowany zarówno w stosunku do całego pytania quizowego (EPQ Wskazówka) jak i błędnej odpowiedzi, ale tylko w zadaniu z </xs:documentation> </xs:annotation> </xs:element></pre>

losową odpowiedzią (exercise/@ep:interactivity='random_quiz') i to w pytaniu z jednokrotną odpowiedzią (q:item/@type='single-response') (EPQ Podpowiedź)</xs:documentation>
</xs:annotation>
</xs:element>

element item

diagram



namespace http://cnx.rice.edu/qml/1.0

type extension of [q:itemType](#)

properties	content complex					
children	q:question q:answer q:hint q:feedback q:key					
used by	complexType	alternativeType exerciseType				
attributes	Name id type	Type idType q:typeType	Use required required	Default	Fixed	Annotation
annotation	documentation Element pytanie quizowe					
source	<xs:element name="item"> <xs:annotation> <xs:documentation>Element pytanie quizowe</xs:documentation> </xs:annotation> <xs:complexType> <xs:complexContent> <xs:extension base="q:itemType"/> </xs:complexContent> </xs:complexType> </xs:element>					

element key

diagram	key UWAGA: Dopuszczalne jest zawarcie w q:key dwóch elementów q:feedback (jeden z correct ustawionym na yes, drugi na no). Taki zabieg może być zastosowany tylko i wyłącznie w przypadku zadań z losowaniem odpowiedzi (exercise/@ep:interactivity='random_quiz') attributes answer type xs:string use required UWAGA: atrybut ten zawiera oddzielone przecinkiem (bez dodatkowych spacji) identyfikatory poprawnych odpowiedzi (q:answer). Dla zadania na kolejność odpowiedzi q:item/@type='ordered-response' kolejność identyfikatorów w tym atrybucie to poprawna kolejność odpowiedzi. q:feedback type cnxml:qmlSectionContain... derivedBy extension 0..2					
namespace	http://cnx.rice.edu/qml/1.0					
properties	content complex					
children	q:feedback					
used by	complexType itemType					
attributes	Name answer	Type xs:string	Use required	Default	Fixed	Annotation documentation UWAGA: atrybut ten zawiera oddzielone przecinkiem (bez dodatkowych spacji) identyfikatory poprawnych

		odpowiedzi (q:answer). Dla zadania na kolejność odpowiedzi q:item/@type='ordered-response' kolejność identyfikatorów w tym atrybucie to poprawna kolejność odpowiedzi.
annotation	documentation	UWAGA: Dopuszczalne jest zawarcie w q:key dwóch elementów q:feedback (jeden z correct ustawionym na yes, drugi na no). Taki zabieg może być zastosowany tylko i wyłącznie w przypadku zadań z losowaniem odpowiedzi (exercise/@ep:interactivity='random_quiz')
source		<pre> <xs:element name="key"> <xs:annotation> <xs:documentation>UWAGA: Dopuszczalne jest zawarcie w q:key dwóch elementów q:feedback (jeden z correct ustawionym na yes, drugi na no). Taki zabieg może być zastosowany tylko i wyłącznie w przypadku zadań z losowaniem odpowiedzi (exercise/@ep:interactivity='random_quiz')</xs:documentation> </xs:annotation> <xs:complexType> <xs:sequence> <xs:element name="feedback" minOccurs="0" maxOccurs="2"> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:qmlSectionContainerType"> <xs:attribute name="correct" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="yes"/> <xs:enumeration value="no"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </xs:sequence> <xs:attribute name="answer" type="xs:string" use="required"> <xs:annotation> <xs:documentation>UWAGA: atrybut ten zawiera oddzielone przecinkiem (bez dodatkowych spacji) identyfikatory poprawnych odpowiedzi (q:answer). Dla zadania na kolejność odpowiedzi q:item/@type='ordered-response' kolejność identyfikatorów w tym atrybucie to poprawna kolejność odpowiedzi.</xs:documentation> </xs:annotation> </xs:attribute> </xs:complexType> </xs:element> </pre>

attribute key/@answer

type	xs:string
properties	use required
annotation	documentation UWAGA: atrybut ten zawiera oddzielone przecinkiem (bez dodatkowych spacji) identyfikatory poprawnych odpowiedzi (q:answer). Dla zadania na kolejność odpowiedzi q:item/@type='ordered-response' kolejność identyfikatorów w tym atrybucie to poprawna kolejność odpowiedzi.

source	<pre> <xs:attribute name="answer" type="xs:string" use="required"> <xs:annotation> <xs:documentation>UWAGA: atrybut ten zawiera oddzielone przecinkiem (bez dodatkowych spacji) identyfikatory poprawnych odpowiedzi (q:answer). Dla zadania na kolejność odpowiedzi q:item/@type='ordered-response' kolejność identyfikatorów w tym atrybucie to poprawna kolejność odpowiedzi.</xs:documentation> </xs:annotation> </xs:attribute> </pre>

element **key/feedback**

diagram						
namespace	http://cnx.rice.edu/qml/1.0					
type	extension of cnxml:qmlSectionContainerType					
properties	minOcc	0	maxOcc	2	content	complex
children	cnxml:section					
used by	complexType	itemType				
attributes	Name	Type	Use	Default	Fixed	Annotation
	correct	derived by: xs:string	required			
source	<pre> <xs:element name="feedback" minOccurs="0" maxOccurs="2"> <xs:complexType> <xs:complexContent> <xs:extension base="cnxml:qmlSectionContainerType"> <xs:attribute name="correct" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="yes"/> <xs:enumeration value="no"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

attribute **key/feedback/@correct**

type	restriction of xs:string

properties	use required									
facets	<table><tr><td>Kind</td><td>Value</td><td>Annotation</td></tr><tr><td>enumeration</td><td>yes</td><td></td></tr><tr><td>enumeration</td><td>no</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	yes		enumeration	no	
Kind	Value	Annotation								
enumeration	yes									
enumeration	no									
source	<pre><xs:attribute name="correct" use="required"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="yes"/> <xs:enumeration value="no"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>									

element question

diagram	
namespace	http://cnx.rice.edu/qml/1.0
type	cnxml:qmlSectionContainerType
properties	content complex
children	cnxml:section
used by	complexType itemType
annotation	documentation Element pytanie w quizie (EPQ Pytanie).
source	<pre> <xs:element name="question" type="cnxml:qmlSectionContainerType"> <xs:annotation> <xs:documentation>Element pytanie w quizie (EPQ Pytanie).</xs:documentation> </xs:annotation> </xs:element> </pre>

element response

diagram	
namespace	http://cnx.rice.edu/qml/1.0
type	cnxml:qmlSectionContainerType
properties	content complex
children	cnxml:section
used by	complexType answerType
annotation	documentation Element zawierający treść odpowiedzi

source	<pre> <xs:element name="response" type="cnxml:qmlSectionContainerType"> <xs:annotation> <xs:documentation>Element zawierający treść odpowiedzi</xs:documentation> </xs:annotation> </xs:element> </pre>

complexType answerType

diagram																			
namespace	http://cnx.rice.edu/qml/1.0																		
children	q:response q:hint																		
used by	element answer																		
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>id</td><td>idType</td><td>required</td><td></td><td></td><td></td></tr><tr><td>ep:in-set</td><td>xs:positiveInteger</td><td></td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	id	idType	required				ep:in-set	xs:positiveInteger				
Name	Type	Use	Default	Fixed	Annotation														
id	idType	required																	
ep:in-set	xs:positiveInteger																		
annotation	documentation Typ dla odpowiedzi w quizie.																		
source	<pre><xs:complexType name="answerType"> <xs:annotation> <xs:documentation>Typ dla odpowiedzi w quizie.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element ref="q:response"/> <xs:element ref="q:hint" minOccurs="0"> <xs:annotation> <xs:documentation>Element wskazówka. Może być zastosowany zarówno w stosunku do całego pytania quizowego (EPQ Wskazówka) jak i błędnej odpowiedzi (wewnątrz q:answer), ale tylko w zadaniu z losową odpowiedzią (exercise/@ep:interactivity='random_quiz') i to w pytaniu z jednokrotną odpowiedzią (q:item/@type='single-response') (EPQ Podpowiedź)</xs:documentation> </xs:annotation> </xs:element> </xs:sequence></pre>																		

	<pre></xs:element> </xs:sequence> <xs:attribute name="id" type="q:idType" use="required"/> <xs:attributeGroup ref="ep:qmlAnswerAttributesGroup"/> </xs:complexType></pre>

attribute **answerType/@id**

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_a-zA-Z0-9)+?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<pre><xs:attribute name="id" type="q:idType" use="required"/></pre>		

complexType itemType

diagram						
namespace	http://cnx.rice.edu/qml/1.0					
children	q:question q:answer q:hint q:feedback q:key					
used by	element item					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	idType	required			
	type	q:typeType	required			
annotation	documentation Typ pytanie quizowe					
source	<pre><xs:complexType name="itemType"> <xs:annotation> <xs:documentation>Typ pytanie quizowe</xs:documentation></pre>					

	<pre> </xs:annotation> <xs:sequence> <xs:element ref="q:question"/> <xs:choice> <xs:element ref="q:answer" minOccurs="2" maxOccurs="unbounded"/> </xs:choice> <xs:element ref="q:hint" minOccurs="0" maxOccurs="unbounded"/> <xs:element ref="q:feedback" minOccurs="0"/> <xs:element ref="q:key"/> </xs:sequence> <xs:attribute name="id" type="q:idType" use="required"/> <xs:attribute name="type" type="q:typeType" use="required"/> </xs:complexType> </pre>

attribute itemType/@id

type	idType		
properties	use required		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}([_a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
source	<xs:attribute name="id" type="q:idType" use="required"/>		

attribute itemType/@type

type	q:typeType		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	single-response	
	enumeration	multiple-response	
	enumeration	ordered-response	
source	<xs:attribute name="type" type="q:typeType" use="required"/>		

simpleType typeType

namespace	http://cnx.rice.edu/qml/1.0		
type	restriction of xs:string		
properties	base xs:string		
used by	attribute itemType/@type		
facets	Kind	Value	Annotation
	enumeration	single-response	
	enumeration	multiple-response	
	enumeration	ordered-response	
annotation	documentation Typ quizu		

source	<pre> <xs:simpleType name="typeType"> <xs:annotation> <xs:documentation>Typ quizu</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:enumeration value="single-response"/> <xs:enumeration value="multiple-response"/> <xs:enumeration value="ordered-response"/> </xs:restriction> </xs:simpleType> </pre>

simpleType idType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base xs:string		
used by	attributes	collection-id disabled-alternative-reference/@id bookmark/@id fold-point/@id zebra-point/@id source/bibliography-reference/@id contentType/@id galleryType/@id play-and-learnType/reference/@id externalType/reference/@id paraContainerWithIdType/@id baseGlossaryReferenceType/@id commandType/@id procedure-instructionsType/@id tooltipType/@id student-workType/@id biographyType/@id eventType/@id experimentType/@id observationType/@id alternativeType/@id referenceType/@instance-id exerciseType/@id quoteType/@id codeType/@id	
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9])?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation Identyfikator		
source	<pre> <xs:simpleType name="idType"> <xs:annotation> <xs:documentation>Identyfikator</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="i[a-zA-Z0-9]{9}(_[a-zA-Z0-9])?"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> <xs:pattern value="[a-zA-Z0-9_]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType> </pre>		

simpleType titleType

namespace	http://epodreczniki.pl/

type	restriction of xs:string		
properties	base	xs:string	
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	140	
annotation	documentation Tytuł modułu, sekcji, kodu etc.		
source	<pre><xs:simpleType name="titleType"> <xs:annotation> <xs:documentation>Tytuł modułu, sekcji, kodu etc.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:maxLength value="140"/> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType></pre>		

simpleType WOMlidType

namespace	http://epodreczniki.pl/		
type	restriction of xs:string		
properties	base xs:string		
used by	attribute	referenceType/@id	
facets	Kind pattern	Value [0-9]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora WOMI z RT.
annotation	documentation Identyfikator WOMI		
source	<pre><xs:simpleType name="WOMlidType"> <xs:annotation> <xs:documentation>Identyfikator WOMI</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="[0-9]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora WOMI z RT.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType></pre>		

simpleType idType

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		
properties	base xs:string		
used by	element content-id attribute personType/@userid		
facets	Kind	Value	Annotation
	pattern	[a-zA-Z0-9]{9}([a-zA-Z0-	documentation

	9+)? pattern [a-zA-Z0-9_]+	Wyrażenie regularne pasujące do identyfikatora utworzonego przez konwerter. documentation Wyrażenie regularne na potrzeby identyfikatorów nie utworzonych przez konwerter.
annotation	documentation Identyfikator	
source	<pre> <xs:simpleType name="idType"> <xs:annotation> <xs:documentation>Identyfikator</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="i[a-zA-Z0-9]{9}([_a-zA-Z0-9]+)?"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora utworzonego przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> <xs:pattern value="[a-zA-Z0-9_]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne na potrzeby identyfikatorów nie utworzonych przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType> </pre>	

simpleType titleType

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		
properties	base	xs:string	
used by	element	title	
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	140	
annotation	documentation	Tytuł modułu, sekcji, kodu etc.	
source	<pre><xs:simpleType name="titleType"> <xs:annotation> <xs:documentation>Tytuł modułu, sekcji, kodu etc.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:maxLength value="140"/> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType></pre>		

simpleType WOMlidType

namespace	http://cnx.rice.edu/mdml		
type	restriction of xs:string		

properties	base xs:string		
facets	Kind pattern	Value [0-9]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora WOMI z RT.
annotation	documentation Identyfikator WOMI		
source	<pre><xs:simpleType name="WOMIdType"> <xs:annotation> <xs:documentation>Identyfikator WOMI</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="[0-9]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora WOMI z RT.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType></pre>		

simpleType idType

namespace	http://bibtexml.sf.net/		
type	restriction of xs:string		
properties	base xs:string		
used by	attribute entryType/@id		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation Identyfikator		
source	<pre><xs:simpleType name="idType"> <xs:annotation> <xs:documentation>Identyfikator</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> <xs:pattern value="[a-zA-Z0-9_]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType></pre>		

simpleType titleType

namespace	http://bibtexml.sf.net/		
type	restriction of xs:string		
properties	base	xs:string	
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	140	
annotation	documentation Tytuł modułu, sekcji, kodu etc.		
source	<pre><xs:simpleType name="titleType"> <xs:annotation> <xs:documentation>Tytuł modułu, sekcji, kodu etc.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:maxLength value="140"/> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType></pre>		

simpleType WOMIidType

namespace	http://bibtexml.sf.net/		
type	restriction of xs:string		
properties	base	xs:string	
facets	Kind pattern	Value [0-9]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora WOMI z RT.
annotation	documentation Identyfikator WOMI		
source	<pre><xs:simpleType name="WOMIidType"> <xs:annotation> <xs:documentation>Identyfikator WOMI</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="[0-9]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora WOMI z RT.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType></pre>		

simpleType idType

namespace	http://cnx.rice.edu/qml/1.0
type	restriction of xs:string
properties	base xs:string

used by	attributes answerType/@id itemType/@id		
facets	Kind	Value	Annotation
	pattern	i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?	documentation Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.
	pattern	[a-zA-Z0-9_]+	documentation Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.
annotation	documentation Identyfikator		
source	<pre> <xs:simpleType name="idType"> <xs:annotation> <xs:documentation>Identyfikator</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="i[a-zA-Z0-9]{9}(_[a-zA-Z0-9]+)?"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora wytworzonego przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> <xs:pattern value="[a-zA-Z0-9_]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne na potrzeby identyfikatorów nie wytworzonych przez konwerter.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType> </pre>		

simpleType titleType

namespace	http://cnx.rice.edu/qml/1.0		
type	restriction of xs:string		
properties	base	xs:string	
facets	Kind	Value	Annotation
	minLength	1	
	maxLength	140	
annotation	documentation Tytuł modułu, sekcji, kodu etc.		
source	<pre> <xs:simpleType name="titleType"> <xs:annotation> <xs:documentation>Tytuł modułu, sekcji, kodu etc.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:maxLength value="140"/> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </pre>		

simpleType WOMlidType

namespace	http://cnx.rice.edu/qml/1.0		

type	restriction of xs:string		
properties	base	xs:string	
facets	Kind pattern	Value [0-9]+	Annotation documentation Wyrażenie regularne pasujące do identyfikatora WOMI z RT.
annotation	documentation Identyfikator WOMI		
source	<pre><xs:simpleType name="WOMIidType"> <xs:annotation> <xs:documentation>Identyfikator WOMI</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="[0-9]+"> <xs:annotation> <xs:documentation>Wyrażenie regularne pasujące do identyfikatora WOMI z RT.</xs:documentation> </xs:annotation> </xs:pattern> </xs:restriction> </xs:simpleType></pre>		

element **abs**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
used by	group unary-arith.class

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre><xs:element name="abs"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

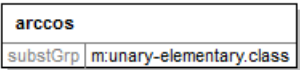
element and

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-logical.class
source	<pre><xs:element name="and" substitutionGroup="m:nary-logical.class"/></pre>

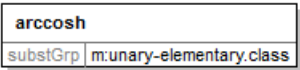
element **approx**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:binary-reln.class					
properties	content complex					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="approx" substitutionGroup="m:binary-reln.class"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

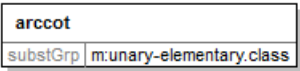
element arccos

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arccos" substitutionGroup="m:unary-elementary.class"/></code>

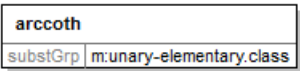
element arccosh

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arccosh" substitutionGroup="m:unary-elementary.class"/></code>

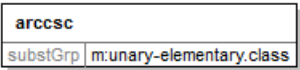
element arccot

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arccot" substitutionGroup="m:unary-elementary.class"/></code>

element arccoth

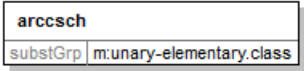
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arccoth" substitutionGroup="m:unary-elementary.class"/></code>

element arccsc

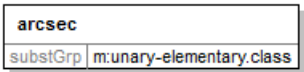
diagram	
namespace	http://www.w3.org/1998/Math/MathML

substitution group	m:unary-elementary.class
source	<code><xs:element name="arccsc" substitutionGroup="m:unary-elementary.class"/></code>

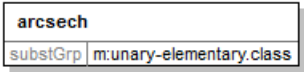
element arccsch

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arccsch" substitutionGroup="m:unary-elementary.class"/></code>

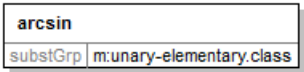
element arcsec

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arcsec" substitutionGroup="m:unary-elementary.class"/></code>

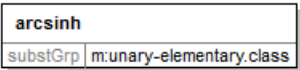
element arcsech

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arcsech" substitutionGroup="m:unary-elementary.class"/></code>

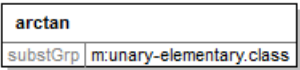
element arcsin

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arcsin" substitutionGroup="m:unary-elementary.class"/></code>

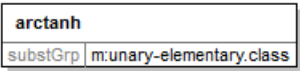
element **arcsinh**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arcsinh" substitutionGroup="m:unary-elementary.class"/></code>

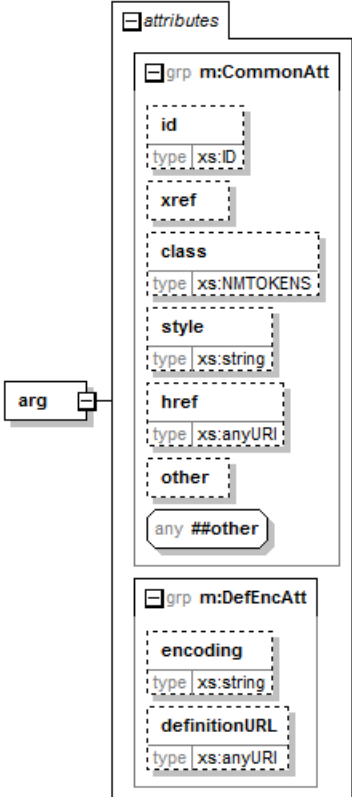
element **arctan**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arctan" substitutionGroup="m:unary-elementary.class"/></code>

element **arctanh**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="arctanh" substitutionGroup="m:unary-elementary.class"/></code>

element **arg**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group unary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="arg"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **binary-linalg.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre><xs:element name="binary-linalg.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

	<pre> </xs:complexType> </xs:element> </pre>

element **binary-logical.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre> <xs:element name="binary-logical.class" abstract="true"> <xs:complexType> </pre>					

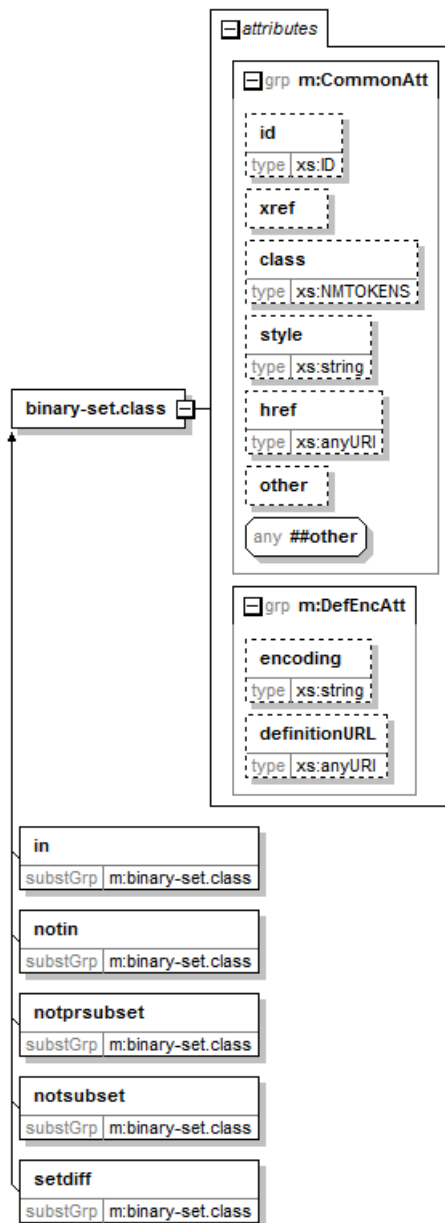
	<pre> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **binary-reln.class**

diagram <pre> classDiagram class binary_reln_class["binary-reln.class"] { <<abstract>> } class approx { substGrp m:binary-reln.class } class factorof { substGrp m:binary-reln.class } class neq { substGrp m:binary-reln.class } class tendsto { substGrp m:binary-reln.class } binary_reln_class < -- approx binary_reln_class < -- factorof binary_reln_class < -- neq binary_reln_class < -- tendsto </pre>	
namespace	http://www.w3.org/1998/Math/MathML
properties	abstract true
used by	group ContExp
source	<pre> <xs:element name="binary-reln.class" abstract="true"/> </pre>

element **binary-set.class**

diagram



namespace <http://www.w3.org/1998/Math/MathML>

properties
content complex
abstract true

used by
group [ContExp](#)

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				

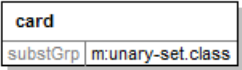
	definitionURL xs:anyURI
source	<pre> <xs:element name="binary-set.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **bvar**

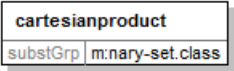
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:ci m:semantics m:degree					
used by	group BvarQ					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
source	<pre> <xs:element name="bvar"> <xs:complexType> </pre>					

	<pre> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:choice> <xs:element ref="m:ci"/> <xs:group ref="m:semantics-ci"/> </xs:choice> <xs:element ref="m:degree"/> </xs:choice> <xs:attributeGroup ref="m:CommonAtt"/> </xs:complexType> </xs:element> </pre>

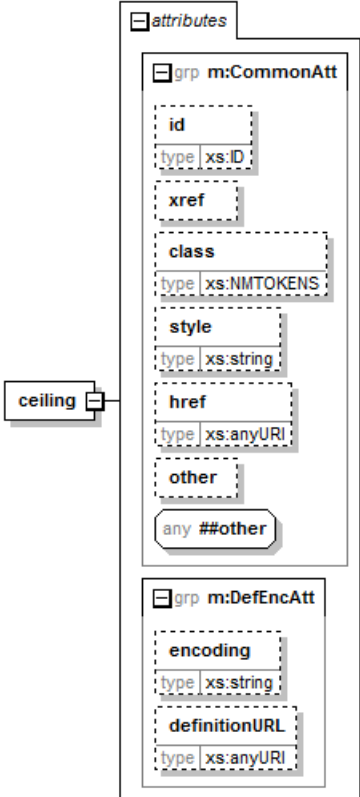
element card

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-set.class
source	<pre><xs:element name="card" substitutionGroup="m:unary-set.class"/></pre>

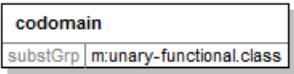
element cartesianproduct

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-set.class
source	<pre><xs:element name="cartesianproduct" substitutionGroup="m:nary-set.class"/></pre>

element **ceiling**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group unary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="ceiling"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

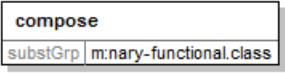
element **codomain**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<code><xs:element name="codomain" substitutionGroup="m:unary-functional.class"/></code>

element **complexes**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-set.class
source	<code><xs:element name="complexes" substitutionGroup="m:constant-set.class"/></code>

element **compose**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-functional.class
source	<code><xs:element name="compose" substitutionGroup="m:nary-functional.class"/></code>

element condition

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

used by	group DomainQ
source	<pre> <xs:element name="condition"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element> </pre>

element **conjugate**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group unary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="conjugate"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> </pre>					

	<pre> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **constant-arith.class**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex abstract true
used by	group ContExp

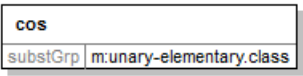
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<xs:element name="constant-arith.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element>					

element **constant-set.class**

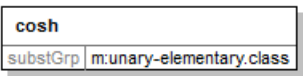
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex abstract true					
used by	group ContExp					
attributes	Name id xref class style	Type xs:ID xs:NMTOKENS xs:string	Use	Default	Fixed	Annotation

	href xs:anyURI other encoding xs:string definitionURL xs:anyURI
source	<pre><xs:element name="constant-set.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>

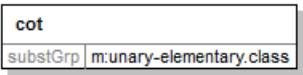
element **cos**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<pre><xs:element name="cos" substitutionGroup="m:unary-elementary.class"/></pre>

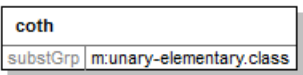
element **cosh**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<pre><xs:element name="cosh" substitutionGroup="m:unary-elementary.class"/></pre>

element **cot**

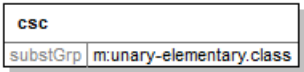
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<pre><xs:element name="cot" substitutionGroup="m:unary-elementary.class"/></pre>

element **coth**

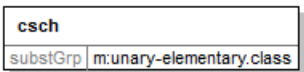
diagram	

namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="coth" substitutionGroup="m:unary-elementary.class"/></code>

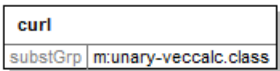
element **csc**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="csc" substitutionGroup="m:unary-elementary.class"/></code>

element **csch**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="csch" substitutionGroup="m:unary-elementary.class"/></code>

element **curl**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-veccalc.class
source	<code><xs:element name="curl" substitutionGroup="m:unary-veccalc.class"/></code>

element **declare**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:DeprecatedContExp
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-

	constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class					
attributes	Name type scope nargs occurrence encoding definitionURL	Type xs:string xs:string xs:nonNegativeInteger derived by: xs:token xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="declare" substitutionGroup="m:DeprecatedContExp"> <xs:complexType> <xs:group ref="m:ContExp" maxOccurs="unbounded"/> <xs:attribute name="type" type="xs:string"/> <xs:attribute name="scope" type="xs:string"/> <xs:attribute name="nargs" type="xs:nonNegativeInteger"/> <xs:attribute name="occurrence"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="prefix"/> <xs:enumeration value="infix"/> <xs:enumeration value="function-model"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

attribute **declare/@type**

type	xs:string
source	<code><xs:attribute name="type" type="xs:string"/></code>

attribute **declare/@scope**

type	xs:string
source	<code><xs:attribute name="scope" type="xs:string"/></code>

attribute **declare/@nargs**

type	xs:nonNegativeInteger
source	<code><xs:attribute name="nargs" type="xs:nonNegativeInteger"/></code>

attribute **declare/@occurrence**

type	restriction of xs:token		
facets	Kind enumeration	Value prefix	Annotation

	enumeration infix enumeration function-model
source	<pre><xs:attribute name="occurrence"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="prefix"/> <xs:enumeration value="infix"/> <xs:enumeration value="function-model"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>

element **degree**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

used by	element bvar group Qualifier
source	<pre><xs:element name="degree"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element></pre>

element **DeprecatedContExp**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	abstract true
used by	group ContExp
source	<pre><xs:element name="DeprecatedContExp" abstract="true"/></pre>

element **determinant**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-linalg.class
source	<pre><xs:element name="determinant" substitutionGroup="m:unary-linalg.class"/></pre>

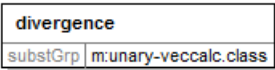
element **diff**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:Differential-Operator.class
source	<pre><xs:element name="diff" substitutionGroup="m:Differential-Operator.class"/></pre>

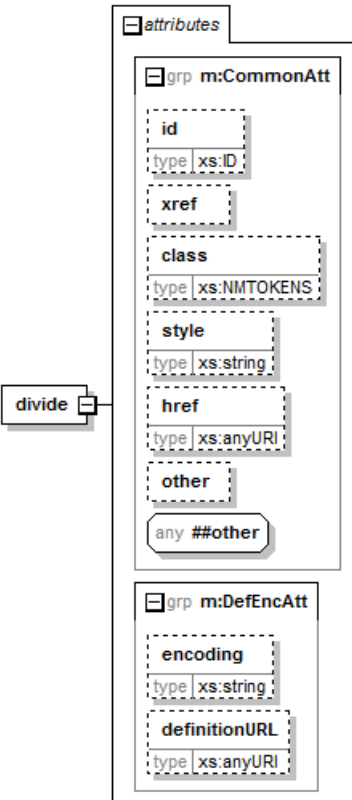
element **Differential-Operator.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre><xs:element name="Differential-Operator.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element **divergence**

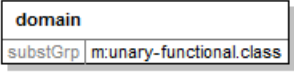
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-veccalc.class
source	<code><xs:element name="divergence" substitutionGroup="m:unary-veccalc.class"/></code>

element **divide**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group binary-arith.class					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				

source	<pre><xs:element name="divide"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>

element domain

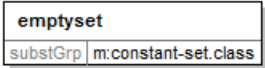
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<pre><xs:element name="domain" substitutionGroup="m:unary-functional.class"/></pre>

element domainofapplication

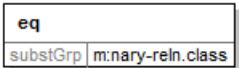
diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

used by	group DomainQ
source	<pre><xs:element name="domainofapplication"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element></pre>

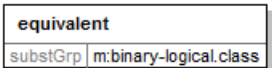
element **emptyset**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-set.class
source	<pre><xs:element name="emptyset" substitutionGroup="m:constant-set.class"/></pre>

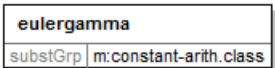
element **eq**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-reln.class
source	<pre><xs:element name="eq" substitutionGroup="m:nary-reln.class"/></pre>

element **equivalent**

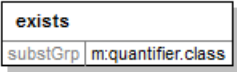
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-logical.class
source	<pre><xs:element name="equivalent" substitutionGroup="m:binary-logical.class"/></pre>

element **eulergamma**

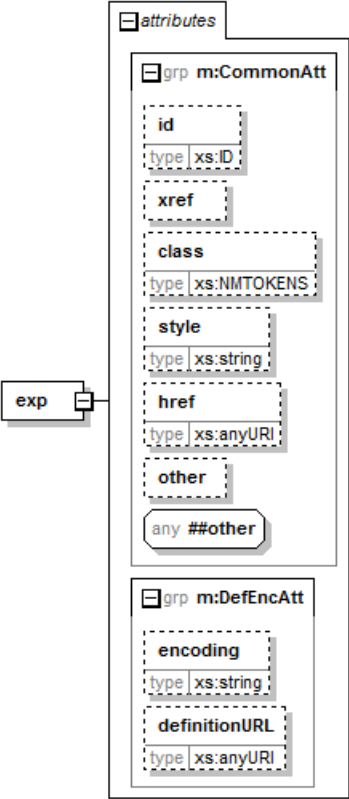
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class

source	<xs:element name="eulergamma" substitutionGroup="m:constant-arith.class"/>

element **exists**

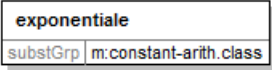
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:quantifier.class
source	<xs:element name="exists" substitutionGroup="m:quantifier.class"/>

element **exp**

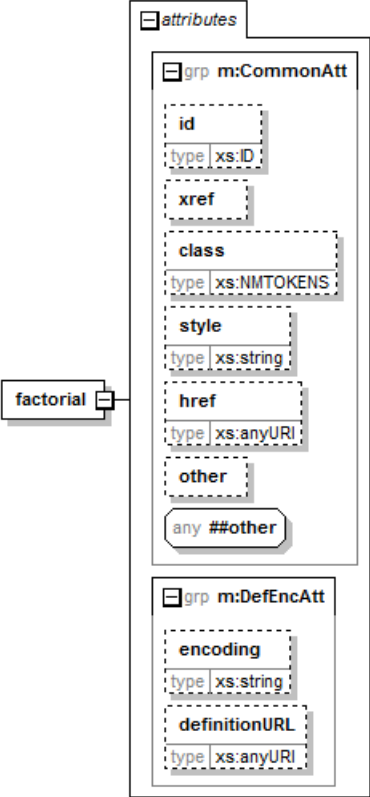
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group unary-arith.class					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				

	other encoding xs:string definitionURL xs:anyURI
source	<pre> <xs:element name="exp"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **exponentiale**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class
source	<pre> <xs:element name="exponentiale" substitutionGroup="m:constant-arith.class"/> </pre>

element **factorial**

diagram	
namespace	http://www.w3.org/1998/Math/MathML

properties	content	complex				
used by	group	unary-arith.class				
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="factorial"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **factorof**

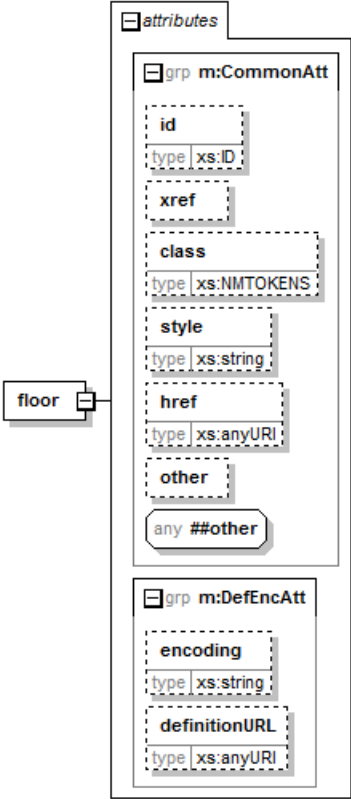
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-reln.class
properties	content complex

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre><xs:element name="factorof" substitutionGroup="m:binary-reln.class"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element false

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class
source	<pre><xs:element name="false" substitutionGroup="m:constant-arith.class"/></pre>

element **floor**

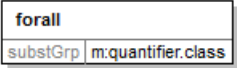
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group unary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="floor"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **fn**

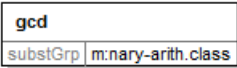
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:DeprecatedContExp
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class

	m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class
source	<pre><xs:element name="fn" substitutionGroup="m:DeprecatedContExp"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element></pre>

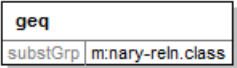
element forall

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:quantifier.class
source	<pre><xs:element name="forall" substitutionGroup="m:quantifier.class"/></pre>

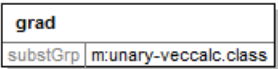
element gcd

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-arith.class
source	<pre><xs:element name="gcd" substitutionGroup="m:nary-arith.class"/></pre>

element geq

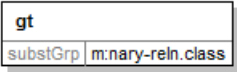
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-reln.class
source	<pre><xs:element name="geq" substitutionGroup="m:nary-reln.class"/></pre>

element grad

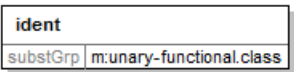
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution	m:unary-veccalc.class

group	
source	<code><xs:element name="grad" substitutionGroup="m:unary-veccalc.class"/></code>

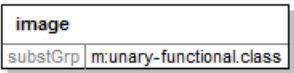
element **gt**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-reln.class
source	<code><xs:element name="gt" substitutionGroup="m:nary-reln.class"/></code>

element **ident**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<code><xs:element name="ident" substitutionGroup="m:unary-functional.class"/></code>

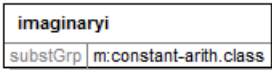
element **image**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<code><xs:element name="image" substitutionGroup="m:unary-functional.class"/></code>

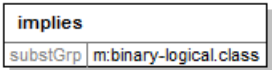
element **imaginary**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group unary-arith.class					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre><xs:element name="imaginary"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

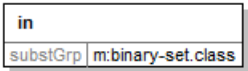
element **imaginaryi**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class
source	<code><xs:element name="imaginaryi" substitutionGroup="m:constant-arith.class"/></code>

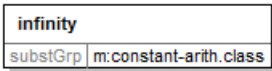
element **implies**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-logical.class
source	<code><xs:element name="implies" substitutionGroup="m:binary-logical.class"/></code>

element **in**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-set.class
source	<code><xs:element name="in" substitutionGroup="m:binary-set.class"/></code>

element **infinity**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class
source	<code><xs:element name="infinity" substitutionGroup="m:constant-arith.class"/></code>

element **int**

diagram	
namespace	http://www.w3.org/1998/Math/MathML

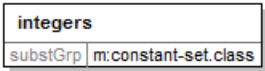
substitution group	m:int.class
source	<code><xs:element name="int" substitutionGroup="m:int.class"/></code>

element int.class

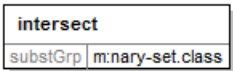
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre> <xs:element name="int.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> </pre>					

	<pre> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **integers**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-set.class
source	<pre><xs:element name="integers" substitutionGroup="m:constant-set.class"/></pre>

element **intersect**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-set.class
source	<pre><xs:element name="intersect" substitutionGroup="m:nary-set.class"/></pre>

element **interval**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:interval.class
source	<pre><xs:element name="interval" substitutionGroup="m:interval.class"/></pre>

element **interval.class**

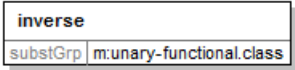
diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex abstract true
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

used by	group ContExp					
attributes	Name id xref class style href other encoding definitionURL closure	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="interval.class" abstract="true"> <xs:complexType> <xs:sequence> <xs:group ref="m:ContExp"/> <xs:group ref="m:ContExp"/> </xs:sequence> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="closure"/> </xs:complexType> </xs:element></pre>					

attribute **interval.class/@closure**

source	<pre><xs:attribute name="closure"/></pre>

element **inverse**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<pre><xs:element name="inverse" substitutionGroup="m:unary-functional.class"/></pre>

element **lambda**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:lambda.class
source	<pre><xs:element name="lambda" substitutionGroup="m:lambda.class"/></pre>

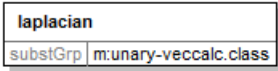
element **lambda.class**

diagram

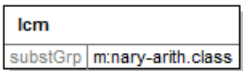


namespace	http://www.w3.org/1998/Math/MathML					
properties	content abstract	complex true				
children	m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:ccerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class					
used by	group	ContExp				
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="lambda.class" abstract="true"> <xs:complexType> <xs:sequence> <xs:group ref="m:BvarQ"/> <xs:group ref="m:DomainQ"/> <xs:group ref="m:ContExp"/> </xs:sequence> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element laplacian

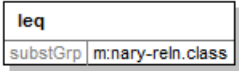
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-veccalc.class
source	<pre><xs:element name="laplacian" substitutionGroup="m:unary-veccalc.class"/></pre>

element lcm

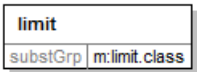
diagram	
namespace	http://www.w3.org/1998/Math/MathML

substitution group	m:nary-arith.class
source	<code><xs:element name="lcm" substitutionGroup="m:nary-arith.class"/></code>

element **leq**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-reln.class
source	<code><xs:element name="leq" substitutionGroup="m:nary-reln.class"/></code>

element **limit**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:limit.class
source	<code><xs:element name="limit" substitutionGroup="m:limit.class"/></code>

element **limit.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre> <xs:element name="limit.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **list**

diagram



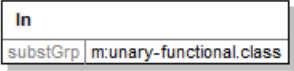
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:nary-setlist-constructor.class					
properties	content complex					
children	m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:ccerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class					
attributes	Name id xref class style href other encoding definitionURL order	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="list" substitutionGroup="m:nary-setlist-constructor.class"> <xs:complexType> <xs:sequence> <xs:group ref="m:BvarQ" minOccurs="0" maxOccurs="unbounded"/> <xs:group ref="m:DomainQ" minOccurs="0" maxOccurs="unbounded"/> <xs:group ref="m:ContExp" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="order"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="numeric"/> <xs:enumeration value="lexicographic"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:complexType> </xs:element> </pre>					

attribute **list/@order**

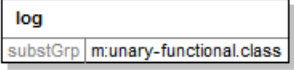
type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	numeric	
	enumeration	lexicographic	
source	<pre> <xs:attribute name="order"> <xs:simpleType> </pre>		

	<pre> <xs:restriction base="xs:token"> <xs:enumeration value="numeric"/> <xs:enumeration value="lexicographic"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

element **ln**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<pre><xs:element name="ln" substitutionGroup="m:unary-functional.class"/></pre>

element **log**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<pre><xs:element name="log" substitutionGroup="m:unary-functional.class"/></pre>

element logbase

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

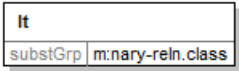
used by	group Qualifier
source	<pre><xs:element name="logbase"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element></pre>

element **lowlimit**

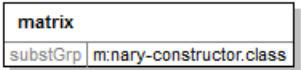
diagram	

namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class
used by	group DomainQ
source	<pre><xs:element name="lowlimit"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element></pre>

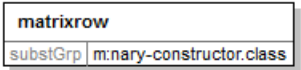
element It

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-reln.class
source	<pre><xs:element name="It" substitutionGroup="m:nary-reln.class"/></pre>

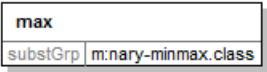
element matrix

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-constructor.class
source	<pre><xs:element name="matrix" substitutionGroup="m:nary-constructor.class"/></pre>

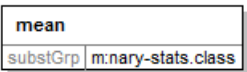
element matrixrow

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-constructor.class
source	<pre><xs:element name="matrixrow" substitutionGroup="m:nary-constructor.class"/></pre>

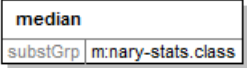
element max

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-minmax.class
source	<code><xs:element name="max" substitutionGroup="m:nary-minmax.class"/></code>

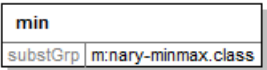
element mean

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-stats.class
source	<code><xs:element name="mean" substitutionGroup="m:nary-stats.class"/></code>

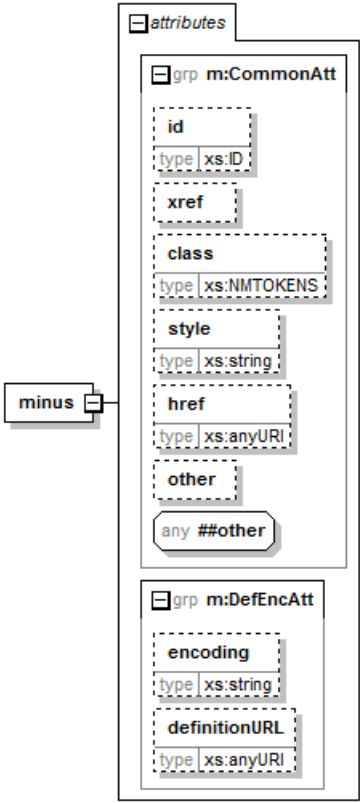
element median

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-stats.class
source	<code><xs:element name="median" substitutionGroup="m:nary-stats.class"/></code>

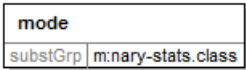
element min

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-minmax.class
source	<code><xs:element name="min" substitutionGroup="m:nary-minmax.class"/></code>

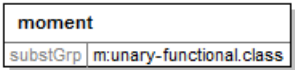
element minus

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group binary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="minus"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

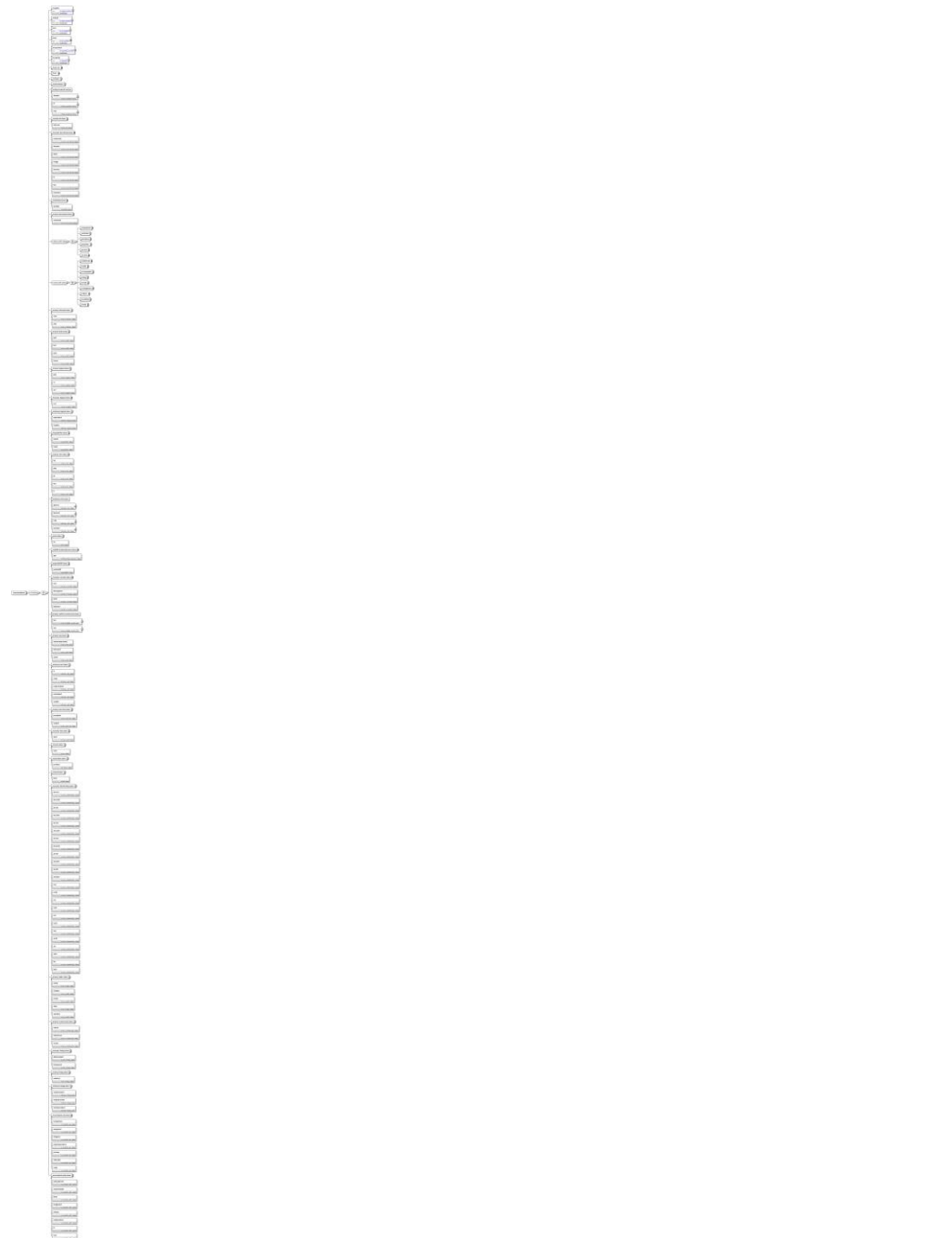
element **mode**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-stats.class
source	<code><xs:element name="mode" substitutionGroup="m:nary-stats.class"/></code>

element **moment**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-functional.class
source	<code><xs:element name="moment" substitutionGroup="m:unary-functional.class"/></code>

element **momentabout**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

used by	group Qualifier
source	<pre> <xs:element name="momentabout"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element> </pre>

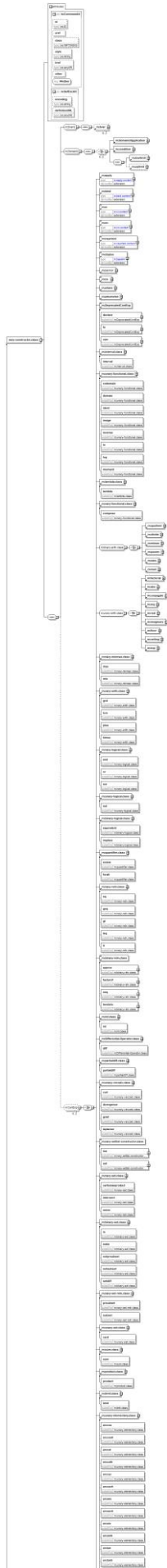
element **nary-arith.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				

	xref class style href other encoding definitionURL xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI
source	<pre><xs:element name="nary-arith.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>

element **nary-structor.class**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content abstract	complex true				
children	m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class					
used by	group	ContExp				
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="nary-constructor.class" abstract="true"> <xs:complexType> <xs:sequence> <xs:group ref="m:BvarQ"/> <xs:group ref="m:DomainQ"/> <xs:group ref="m:ContExp" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element **nary-functional.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre> <xs:element name="nary-functional.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **nary-linalg.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre> <xs:element name="nary-linalg.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **nary-logical.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre><xs:element name="nary-logical.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

	<pre> </xs:complexType> </xs:element> </pre>

element **nary-minmax.class**

diagram	The diagram illustrates the structure of the <code>nary-minmax.class</code> element. It is a complex type with the following attributes and subgroups: Attributes: <code>id</code>: type <code>xs:ID</code> <code>xref</code> <code>class</code>: type <code>xs:NMTOKENS</code> <code>style</code>: type <code>xs:string</code> <code>href</code>: type <code>xs:anyURI</code> <code>other</code>: any ##other Subgroups: <code>max</code>: substGrp <code>m:nary-minmax.class</code> <code>min</code>: substGrp <code>m:nary-minmax.class</code>					
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex	abstract	true		
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<xs:element name="nary-minmax.class" abstract="true"> <xs:complexType>					

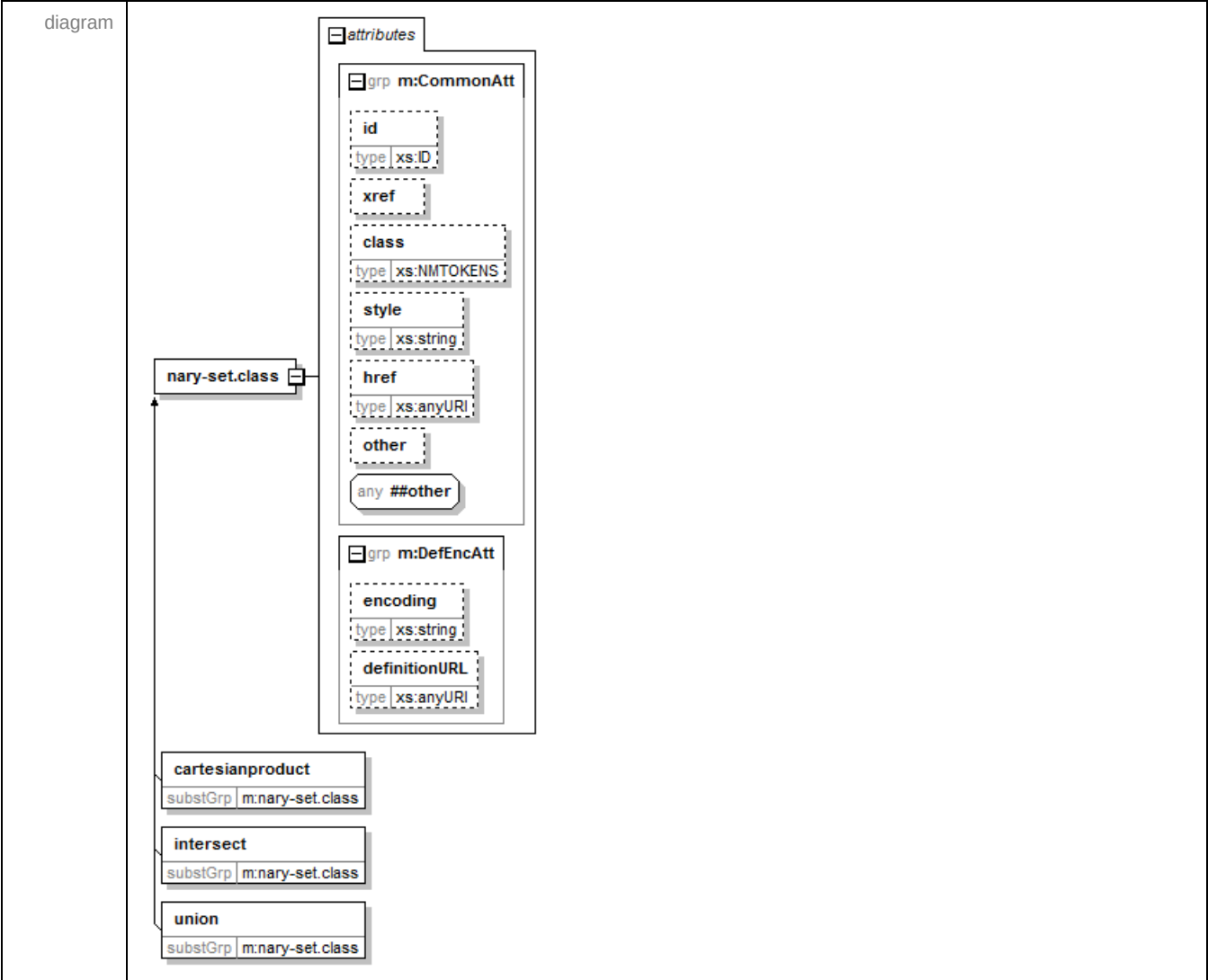
	xref class xs:NMTOKENS style xs:string href xs:anyURI other encoding xs:string definitionURL xs:anyURI
source	<pre> <xs:element name="nary-reln.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **nary-set-reln.class**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex abstract true
used by	group ContExp

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre><xs:element name="nary-set-reln.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element **nary-set.class**



namespace	http://www.w3.org/1998/Math/MathML					
properties	content abstract	complex true				
used by	group	ContExp				
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="nary-set.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element **nary-setlist-creator.class**

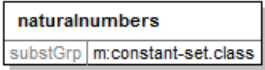
diagram	<pre>classDiagram class nary_setlist_creator_class["nary-setlist-creator.class"] class list class set nary_setlist_creator_class < -- list nary_setlist_creator_class < -- set class list_substGrp["substGrp m.nary-setlist-creator...."] class set_substGrp["substGrp m.nary-setlist-creator...."] list --> list_substGrp set --> set_substGrp</pre>
namespace	http://www.w3.org/1998/Math/MathML
properties	abstract true
used by	group ContExp
source	<xs:element name="nary-setlist-creator.class" abstract="true"/>

element **nary-stats.class**

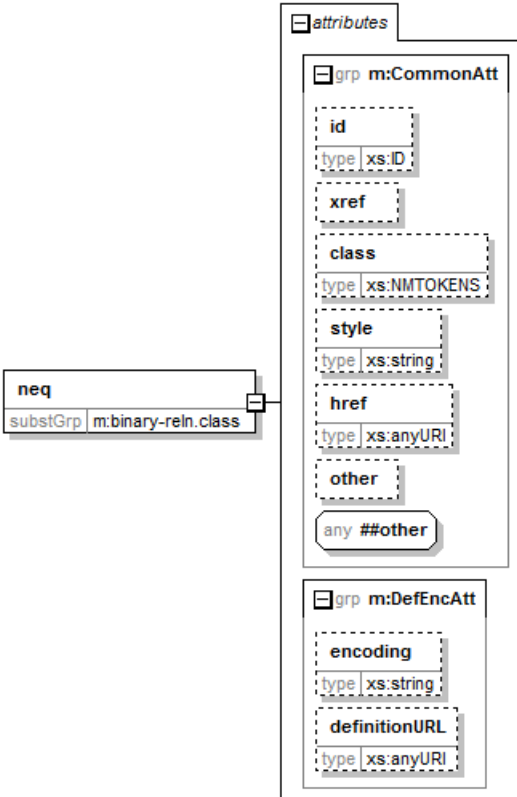
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex abstract true					
used by	group ContExp					
attributes	Name id xref class style href other encoding	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string	Use 	Default 	Fixed 	Annotation

	definitionURL xs:anyURI
source	<pre> <xs:element name="nary-stats.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **naturalnumbers**

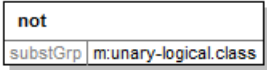
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-set.class
source	<pre> <xs:element name="naturalnumbers" substitutionGroup="m:constant-set.class"/> </pre>

element **neq**

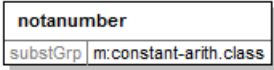
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-reln.class

properties	content complex					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="neq" substitutionGroup="m:binary-reln.class"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

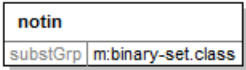
element not

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-logical.class
source	<pre><xs:element name="not" substitutionGroup="m:unary-logical.class"/></pre>

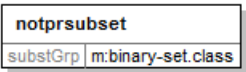
element notanumber

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class
source	<pre><xs:element name="notanumber" substitutionGroup="m:constant-arith.class"/></pre>

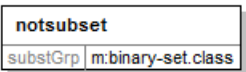
element notin

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-set.class
source	<pre><xs:element name="notin" substitutionGroup="m:binary-set.class"/></pre>

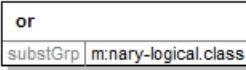
element notprsubset

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-set.class
source	<code><xs:element name="notprsubset" substitutionGroup="m:binary-set.class"/></code>

element notsubset

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-set.class
source	<code><xs:element name="notsubset" substitutionGroup="m:binary-set.class"/></code>

element or

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-logical.class
source	<code><xs:element name="or" substitutionGroup="m:nary-logical.class"/></code>

element **otherwise**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class					
used by	element	piecewise				
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="otherwise"> <xs:complexType> <xs:group ref="m:ContExp"/> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element **outerproduct**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:binary-linalg.class					
source	<pre><xs:element name="outerproduct" substitutionGroup="m:binary-linalg.class"/></pre>					

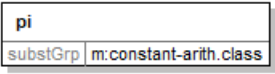
element **partialdiff**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:partialdiff.class					
source	<pre><xs:element name="partialdiff" substitutionGroup="m:partialdiff.class"/></pre>					

element **partialdiff.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex abstract true					
used by	group ContExp					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="partialdiff.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **pi**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class
source	<xs:element name="pi" substitutionGroup="m:constant-arith.class"/>

element **piece**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-creator.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

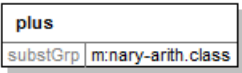
used by	element piecewise					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="piece"> <xs:complexType> <xs:sequence> <xs:group ref="m:ContExp"/> <xs:group ref="m:ContExp"/> </xs:sequence> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>					

element **piecewise**

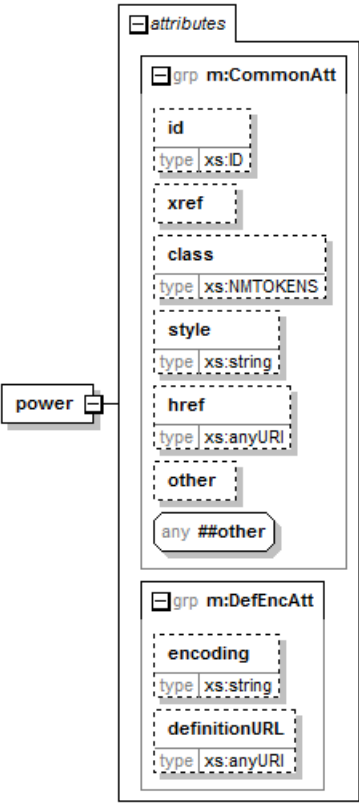
diagram	The diagram illustrates the structure of the piecewise element. It is a container element that can contain zero or more child elements, which are either m:piece or m:otherwise. The piecewise element has two attribute groups: m:CommonAtt and m:DefEncAtt. The m:CommonAtt group includes attributes id (type xs:ID), xref, class (type xs:NMTOKENS), style (type xs:string), href (type xs:anyURI), and other (type any ##other). The m:DefEncAtt group includes attributes encoding (type xs:string) and definitionURL (type xs:anyURI).					
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:piece m:otherwise					
used by	group ContExp					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre> <xs:element name="piecewise"> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:piece"/> <xs:element ref="m:otherwise"/> </xs:choice> <xs:attributeGroup ref="m:CommonAtt"/> </xs:complexType> </pre>					

	<pre> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **plus**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-arith.class
source	<pre> <xs:element name="plus" substitutionGroup="m:nary-arith.class"/> </pre>

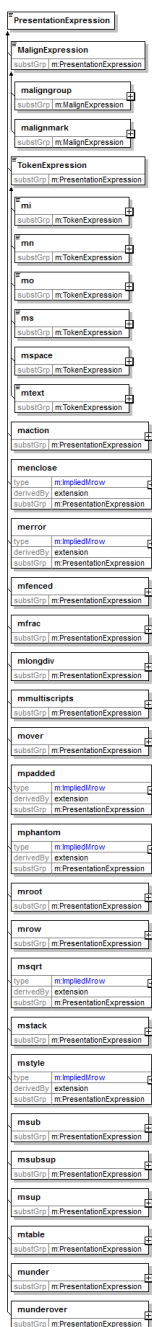
element **power**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group binary-arith.class					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				

	style href other encoding definitionURL xs:string xs:anyURI xs:string xs:anyURI
source	<xs:element name="power"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element>

element PresentationExpression

diagram



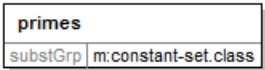
namespace <http://www.w3.org/1998/Math/MathML>

properties abstract true

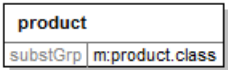
used by complexTypes [ci.content](#) [cn.content](#) [csymbol.content](#)
group [MathExpression](#)

source `<xs:element name="PresentationExpression" abstract="true"/>`

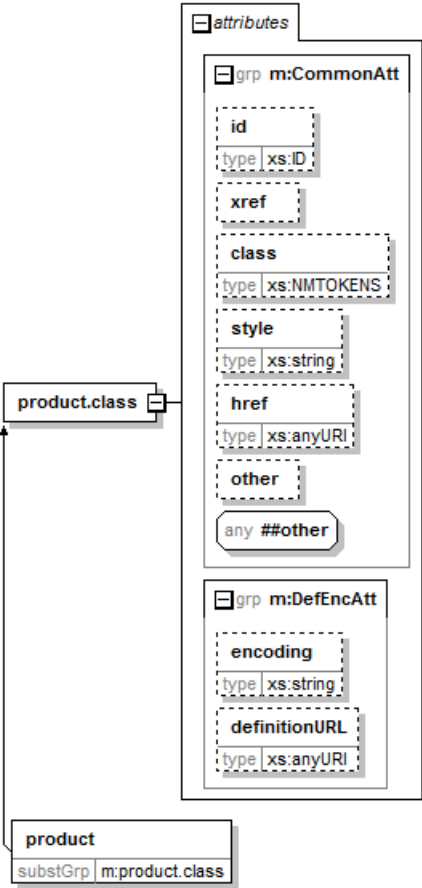
element **primes**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-set.class
source	<code><xs:element name="primes" substitutionGroup="m:constant-set.class"/></code>

element **product**

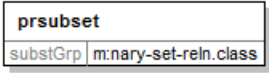
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:product.class
source	<code><xs:element name="product" substitutionGroup="m:product.class"/></code>

element **product.class**

diagram	

namespace	http://www.w3.org/1998/Math/MathML					
properties	content abstract	complex true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<xs:element name="product.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element>					

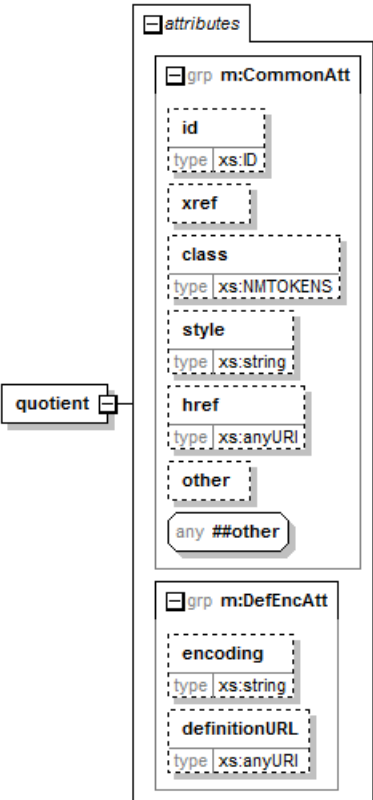
element prsubset

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-set-reln.class
source	<pre><xs:element name="prsubset" substitutionGroup="m:nary-set-reln.class"/></pre>

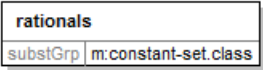
element **quantifier.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex abstract true					
used by	group ContExp					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="quantifier.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

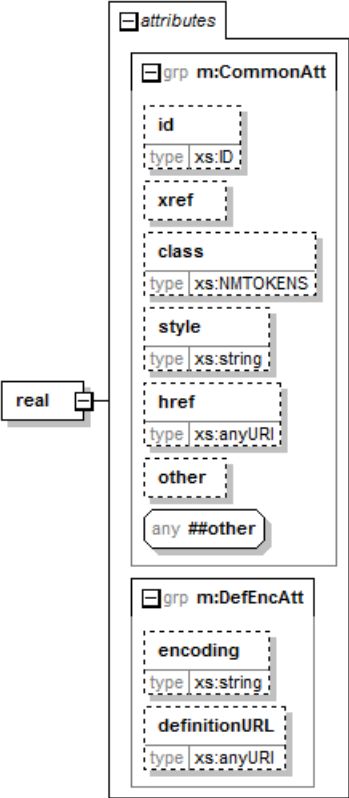
element **quotient**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group binary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="quotient"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

element **rational**s

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-set.class
source	<xs:element name="rationals" substitutionGroup="m:constant-set.class"/>

element **real**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group unary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation

source	<pre><xs:element name="real"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>

element `reals`

diagram	
namespace	<code>http://www.w3.org/1998/Math/MathML</code>
substitution group	<code>m:constant-set.class</code>
source	<pre><xs:element name="reals" substitutionGroup="m:constant-set.class"/></pre>

element reln

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:DeprecatedContExp
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class

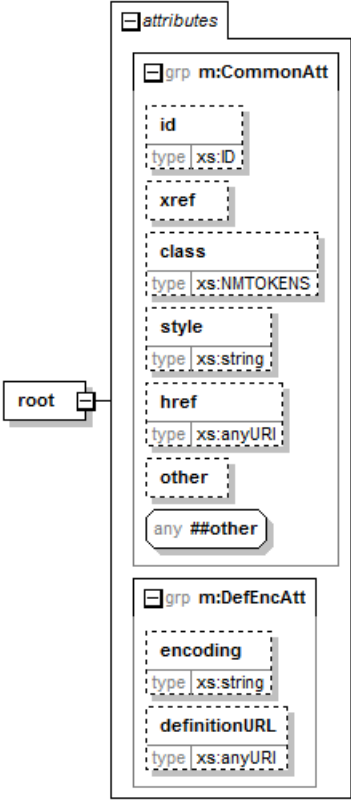
	m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class
source	<pre> <xs:element name="reln" substitutionGroup="m:DeprecatedContExp"> <xs:complexType> <xs:group ref="m:ContExp" minOccurs="0" maxOccurs="unbounded"/> </xs:complexType> </xs:element> </pre>

element rem

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group binary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="rem"> </pre>					

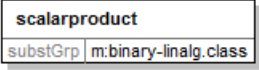
	<pre> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **root**

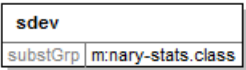
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group binary-arith.class					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="root"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </pre>					

	</xs:complexType> </xs:element>

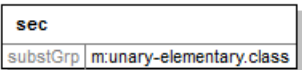
element **scalarproduct**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-linalg.class
source	$\text{<xs:element name="scalarproduct" substitutionGroup="m:binary-linalg.class"/>}$

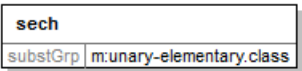
element **sdev**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-stats.class
source	$\text{<xs:element name="sdev" substitutionGroup="m:nary-stats.class"/>}$

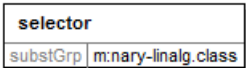
element **sec**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	$\text{<xs:element name="sec" substitutionGroup="m:unary-elementary.class"/>}$

element **sech**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	$\text{<xs:element name="sech" substitutionGroup="m:unary-elementary.class"/>}$

element **selector**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-linalg.class
source	<code><xs:element name="selector" substitutionGroup="m:nary-linalg.class"/></code>

element **sep**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
used by	complexType cn.content
source	<code><xs:element name="sep"> <xs:complexType/> </xs:element></code>

element **set**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:nary-setlist-constructor.class					
properties	content complex					
children	m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class					
attributes	Name id xref class style href other encoding definitionURL type	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="set" substitutionGroup="m:nary-setlist-constructor.class"> <xs:complexType> <xs:sequence> <xs:group ref="m:BvarQ" minOccurs="0" maxOccurs="unbounded"/> <xs:group ref="m:DomainQ" minOccurs="0" maxOccurs="unbounded"/> <xs:group ref="m:ContExp" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="type"/> </xs:complexType> </xs:element></pre>					

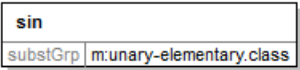
attribute **set/@type**

source	<code><xs:attribute name="type"/></code>

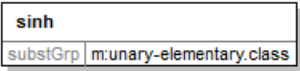
element **setdiff**

diagram	<pre> graph TD setdiff[setdiff] setdiff --- substGrp[m:binary-set.class] </pre>
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-set.class
source	<code><xs:element name="setdiff" substitutionGroup="m:binary-set.class"/></code>

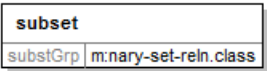
element sin

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="sin" substitutionGroup="m:unary-elementary.class"/></code>

element sinh

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="sinh" substitutionGroup="m:unary-elementary.class"/></code>

element subset

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-set-reln.class
source	<code><xs:element name="subset" substitutionGroup="m:nary-set-reln.class"/></code>

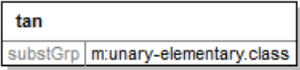
element sum

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:sum.class
source	<code><xs:element name="sum" substitutionGroup="m:sum.class"/></code>

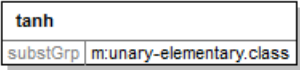
element **sum.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<pre> <xs:element name="sum.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>					

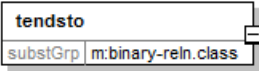
element tan

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="tan" substitutionGroup="m:unary-elementary.class"/></code>

element tanh

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-elementary.class
source	<code><xs:element name="tanh" substitutionGroup="m:unary-elementary.class"/></code>

element tendsto

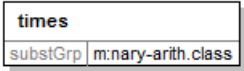
diagram	 attributes grp m:CommonAtt id type xs:ID xref class type xs:NMTOKENS style type xs:string href type xs:anyURI other any ##other grp m:DefEncAtt encoding type xs:string definitionURL type xs:anyURI type

namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:binary-reln.class					
properties	content complex					
attributes	Name id xref class style href other encoding definitionURL type	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="tendsto" substitutionGroup="m:binary-reln.class"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="type"/> </xs:complexType> </xs:element></pre>					

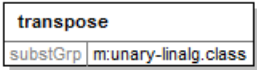
attribute **tendsto/@type**

source	<pre><xs:attribute name="type"/></pre>

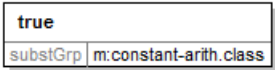
element **times**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-arith.class
source	<pre><xs:element name="times" substitutionGroup="m:nary-arith.class"/></pre>

element **transpose**

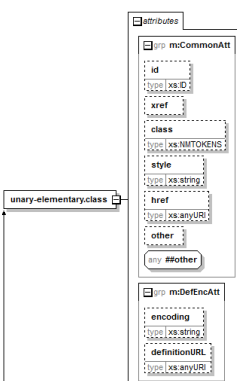
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:unary-linalg.class
source	<pre><xs:element name="transpose" substitutionGroup="m:unary-linalg.class"/></pre>

element true

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:constant-arith.class
source	<code><xs:element name="true" substitutionGroup="m:constant-arith.class"/></code>

element unary-elementary.class

diagram



arccos
arccosh
arccot
arccoth
arccsc
arccsch
arcsec
arcsech
arcsin
arcsinh
arctan
arctanh
cos
cosh
cot
coth
csc
csch
sec
sech
sin
sinh
tan
tanh

namespace	http://www.w3.org/1998/Math/MathML					
properties	content abstract	complex true				
used by	group	ContExp				
attributes	Name id xref class style	Type xs:ID xs:NMTOKENS xs:string	Use	Default	Fixed	Annotation

	href other encoding definitionURL xs:anyURI xs:string xs:anyURI
source	<pre><xs:element name="unary-elementary.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>

element unary-functional.class

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex abstract true					
used by	group ContExp					
attributes	Name id xref class style	Type xs:ID xs:NMTOKENS xs:string	Use	Default	Fixed	Annotation

	href xs:anyURI other encoding xs:string definitionURL xs:anyURI
source	<pre> <xs:element name="unary-functional.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **unary-linalg.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					

	class xs:NMTOKENS style xs:string href xs:anyURI other encoding xs:string definitionURL xs:anyURI
source	<pre> <xs:element name="unary-linalg.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element **unary-logical.class**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					

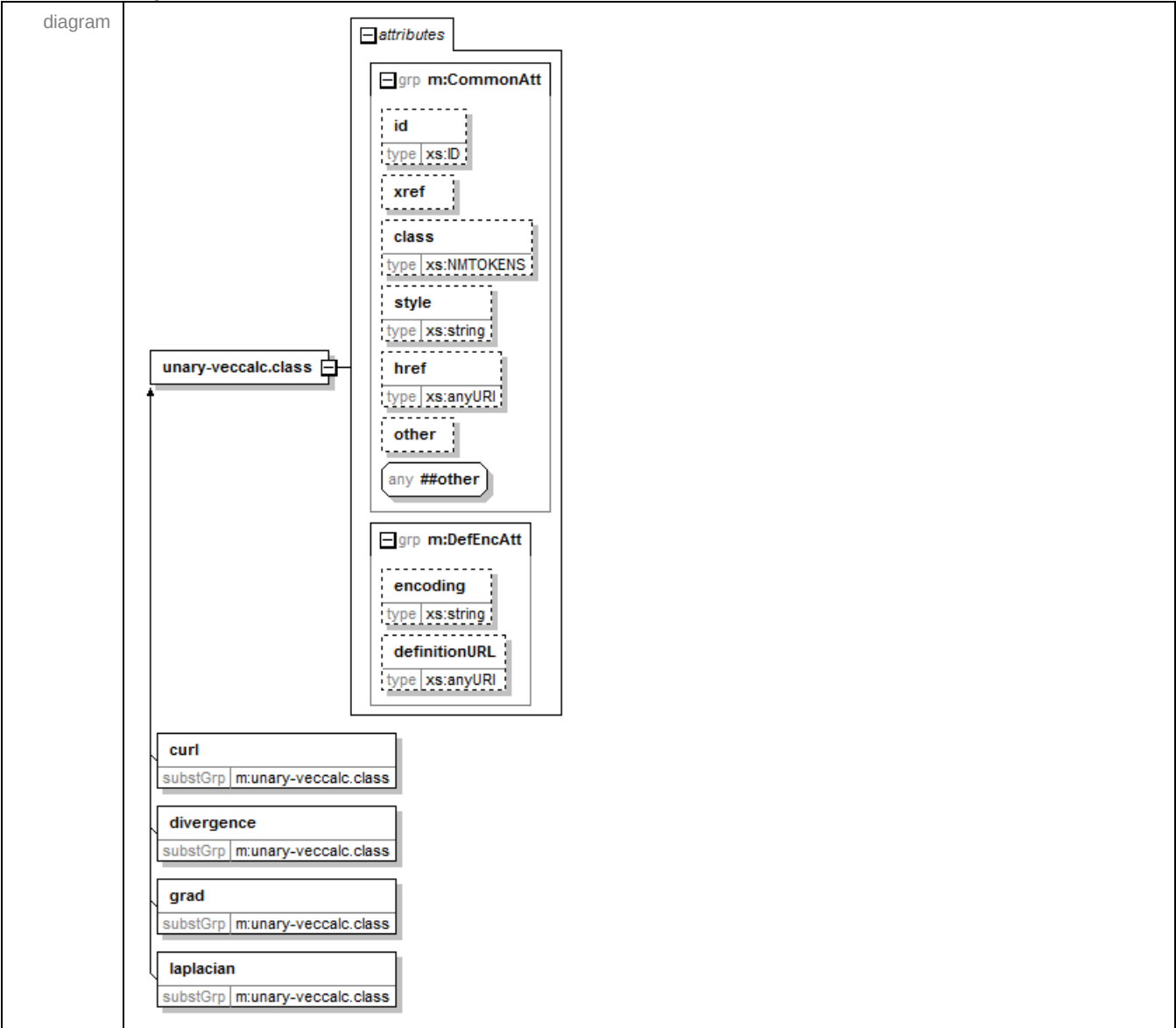
	class xs:NMTOKENS style xs:string href xs:anyURI other encoding xs:string definitionURL xs:anyURI
source	<pre> <xs:element name="unary-logical.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element> </pre>

element unary-set.class

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	abstract	true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					

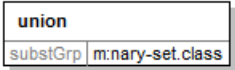
	class style href other encoding definitionURL xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI
source	<pre><xs:element name="unary-set.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element></pre>

element unary-veccalc.class



namespace	http://www.w3.org/1998/Math/MathML					
properties	content abstract	complex true				
used by	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
source	<xs:element name="unary-veccalc.class" abstract="true"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:complexType> </xs:element>					

element union

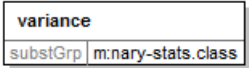
diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-set.class
source	<pre><xs:element name="union" substitutionGroup="m:nary-set.class"/></pre>

element **uplimit**

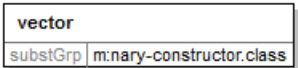
diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class

used by	group DomainQ
source	<pre><xs:element name="uplimit"> <xs:complexType> <xs:group ref="m:ContExp"/> </xs:complexType> </xs:element></pre>

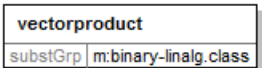
element **variance**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-stats.class
source	<pre><xs:element name="variance" substitutionGroup="m:nary-stats.class"/></pre>

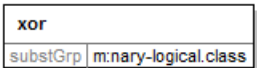
element **vector**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-constructor.class
source	<pre><xs:element name="vector" substitutionGroup="m:nary-constructor.class"/></pre>

element **vectorproduct**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:binary-linalg.class
source	<pre><xs:element name="vectorproduct" substitutionGroup="m:binary-linalg.class"/></pre>

element **xor**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:nary-logical.class

source	<code><xs:element name="xor" substitutionGroup="m:nary-logical.class"/></code>

group **binary-arith.class**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:quotient m:divide m:minus m:power m:rem m:root
used by	group ContExp
source	<pre> <xs:group name="binary-arith.class"> <xs:choice> <xs:element ref="m:quotient"/> <xs:element ref="m:divide"/> <xs:element ref="m:minus"/> <xs:element ref="m:power"/> <xs:element ref="m:rem"/> <xs:element ref="m:root"/> </xs:choice> </xs:group> </pre>

group **DomainQ**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:domainofapplication m:condition m:lowlimit m:uplimit
used by	elements lambda.class list nary-constructor.class set group Qualifier
source	<pre> <xs:group name="DomainQ"> <xs:sequence> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:domainofapplication"/> <xs:element ref="m:condition"/> <!--Ambiguous content model altered (interval)--> </pre>

	<pre> <xs:sequence> <xs:element ref="m:lowlimit"/> <xs:element ref="m:uplimit" minOccurs="0"/> </xs:sequence> </xs:choice> </xs:sequence> </xs:group> </pre>

group **Qualifier**

diagram	<pre> graph LR Qualifier[Qualifier] -- choice --> DomainQ[m:DomainQ] Qualifier -- choice --> Seq1[Sequence] Seq1 -- sequence --> Degree[m:degree] Seq1 -- sequence --> Momentabout[m:momentabout] Seq1 -- sequence --> Logbase[m:logbase] DomainQ -- choice --> Domainofapplication[m:domainofapplication] DomainQ -- choice --> Condition[m:condition] DomainQ -- choice --> Seq2[Sequence] Seq2 -- sequence --> Lowlimit[m:lowlimit] Seq2 -- sequence --> Uplimit[m:uplimit] </pre>
namespace	http://www.w3.org/1998/Math/MathML
children	m:domainofapplication m:condition m:lowlimit m:uplimit m:degree m:momentabout m:logbase
used by	complexType apply.content
source	<pre> <xs:group name="Qualifier"> <xs:choice> <xs:group ref="m:DomainQ"/> <xs:element ref="m:degree"/> <xs:element ref="m:momentabout"/> <xs:element ref="m:logbase"/> </xs:choice> </xs:group> </pre>

group unary-arith.class

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp
used by	group ContExp
source	<pre> <xs:group name="unary-arith.class"> <xs:choice> <xs:element ref="m:factorial"/> <!--Ambiguous content model altered (minus)--> <!--Ambiguous content model altered (root)--> <xs:element ref="m:abs"/> <xs:element ref="m:conjugate"/> <xs:element ref="m:arg"/> <xs:element ref="m:real"/> <xs:element ref="m:imaginary"/> <xs:element ref="m:floor"/> <xs:element ref="m:ceiling"/> <xs:element ref="m:exp"/> </xs:choice> </xs:group> </pre>

complexType **apply.content**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-creator.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:degree m:momentabout m:logbase
used by	element apply complexType bind.content

source	<pre><xs:complexType name="apply.content"> <xs:sequence> <xs:group ref="m:ContExp"/> <xs:group ref="m:BvarQ"/> <xs:group ref="m:Qualifier" minOccurs="0" maxOccurs="unbounded"/> <xs:group ref="m:ContExp" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType></pre>

complexType **bind.content**

diagram	

namespace	http://www.w3.org/1998/Math/MathML
type	extension of m:apply.content
properties	base m:apply.content
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:degree m:momentabout m:logbase
used by	element bind
source	<pre> <xs:complexType name="bind.content"> <xs:complexContent> <xs:extension base="m:apply.content"/> </xs:complexContent> </xs:complexType> </pre>

complexType ci.content

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	mixed true
children	m:mglyph m:PresentationExpression
used by	element ci
source	<pre> <xs:complexType name="ci.content" mixed="true"> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:mglyph"/> <xs:element ref="m:PresentationExpression"/> </xs:choice> </pre>

</xs:complexType>

complexType cn.content

diagram



namespace <http://www.w3.org/1998/Math/MathML>

properties mixed true

children [m:mglyph](#) [m:sep](#) [m:PresentationExpression](#)

used by element [cn](#)

source `<xs:complexType name="cn.content" mixed="true">`

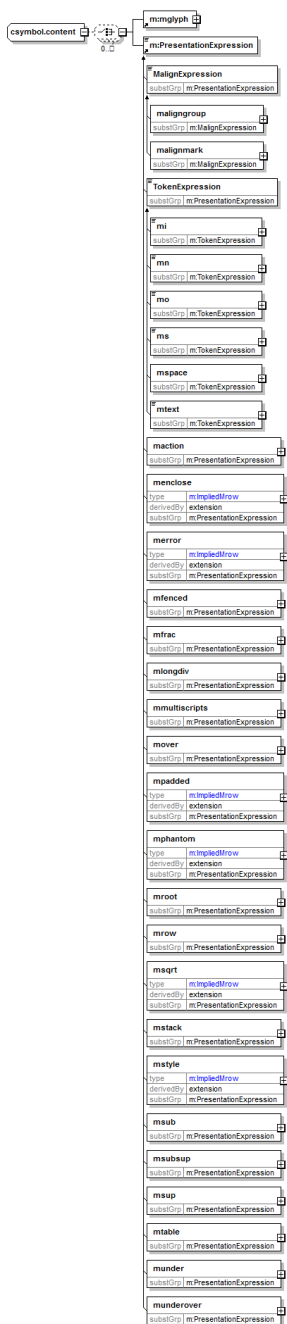
```

<xs:choice minOccurs="0" maxOccurs="unbounded">
  <xs:element ref="m:mglyph"/>
  <xs:element ref="m:sep"/>
  <xs:element ref="m:PresentationExpression"/>
</xs:choice>
</xs:complexType>

```

complexType **csymbol.content**

diagram



namespace

<http://www.w3.org/1998/Math/MathML>

properties	mixed true
children	m:mglyph m:PresentationExpression
used by	element csymbol
source	<pre> <xs:complexType name="csymbol.content" mixed="true"> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:mglyph"/> <xs:element ref="m:PresentationExpression"/> </xs:choice> </xs:complexType> </pre>

attributeGroup base

namespace	http://www.w3.org/1998/Math/MathML					
attributes	Name base	Type	Use required	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="base"> <xs:attribute name="base" use="required"/> </xs:attributeGroup> </pre>					

attribute base/@base

properties	use required
source	<pre> <xs:attribute name="base" use="required"/> </pre>

attributeGroup cbytes.attributes

namespace	http://www.w3.org/1998/Math/MathML					
used by	element cbytes					
attributes	Name id xref class style href other encoding definitionURL	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="cbytes.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:attributeGroup> </pre>					

attributeGroup ci.attributes

namespace	http://www.w3.org/1998/Math/MathML					

used by	element ci					
attributes	Name id xref class style href other encoding definitionURL type	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="ci.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="type"/> </xs:attributeGroup></pre>					

attribute **ci.attributes/@type**

source	<pre><xs:attribute name="type"/></pre>

attributeGroup **ci.type**

namespace	http://www.w3.org/1998/Math/MathML					
attributes	Name type	Type	Use required	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="ci.type"> <xs:attribute name="type" use="required"/> </xs:attributeGroup></pre>					

attribute **ci.type/@type**

properties	use required
source	<pre><xs:attribute name="type" use="required"/></pre>

attributeGroup **closure**

namespace	http://www.w3.org/1998/Math/MathML					
attributes	Name closure	Type	Use required	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="closure"> <xs:attribute name="closure" use="required"/> </xs:attributeGroup></pre>					

attribute **closure/@closure**

properties	use required
source	<code><xs:attribute name="closure" use="required"/></code>

attributeGroup **cn.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element cn					
attributes	Name id xref class style href other encoding definitionURL type base	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="cn.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="type"/> <xs:attribute name="base"/> </xs:attributeGroup></pre>					

attribute **cn.attributes/@type**

source	<code><xs:attribute name="type"/></code>

attribute **cn.attributes/@base**

source	<code><xs:attribute name="base"/></code>

attributeGroup **cs.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element cs					
attributes	Name id xref class style href other encoding	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string	Use	Default	Fixed	Annotation

	definitionURL xs:anyURI
source	<pre><xs:attributeGroup name="cs.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> </xs:attributeGroup></pre>

attributeGroup **csymbol.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element csymbol					
attributes	Name id xref class style href other encoding definitionURL type cd	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI xs:NCName	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="csymbol.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="type"/> <xs:attribute name="cd" type="xs:NCName"/> </xs:attributeGroup></pre>					

attribute **csymbol.attributes/@type**

source	<pre><xs:attribute name="type"/></pre>

attribute **csymbol.attributes/@cd**

type	xs:NCName
source	<pre><xs:attribute name="cd" type="xs:NCName"/></pre>

attributeGroup **order**

namespace	http://www.w3.org/1998/Math/MathML					
attributes	Name order	Type derived by: xs:token	Use required	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="order"> <xs:attribute name="order" use="required"> <xs:simpleType> <xs:restriction base="xs:token"></pre>					

	<pre> <xs:enumeration value="numeric"/> <xs:enumeration value="lexicographic"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **order/@order**

type	restriction of xs:token		
properties	use required		
facets	Kind	Value	Annotation
	enumeration	numeric	
	enumeration	lexicographic	
source	<pre> <xs:attribute name="order" use="required"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="numeric"/> <xs:enumeration value="lexicographic"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attributeGroup **type**

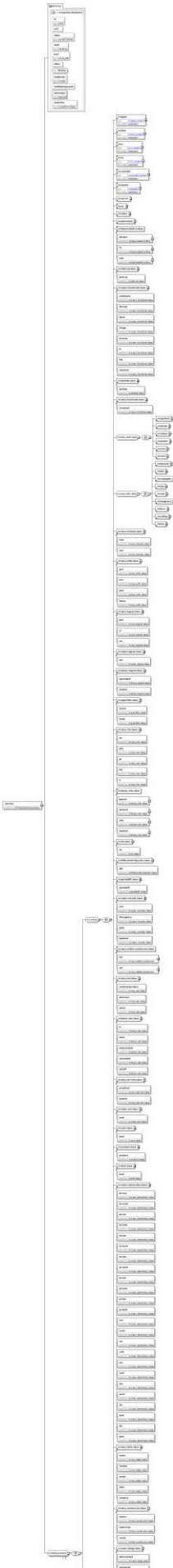
namespace	http://www.w3.org/1998/Math/MathML					
attributes	Name	Type	Use	Default	Fixed	Annotation
	type		required			
source	<pre> <xs:attributeGroup name="type"> <xs:attribute name="type" use="required"/> </xs:attributeGroup> </pre>					

attribute **type/@type**

properties	use required
source	<pre> <xs:attribute name="type" use="required"/> </pre>

element **maction**

diagram

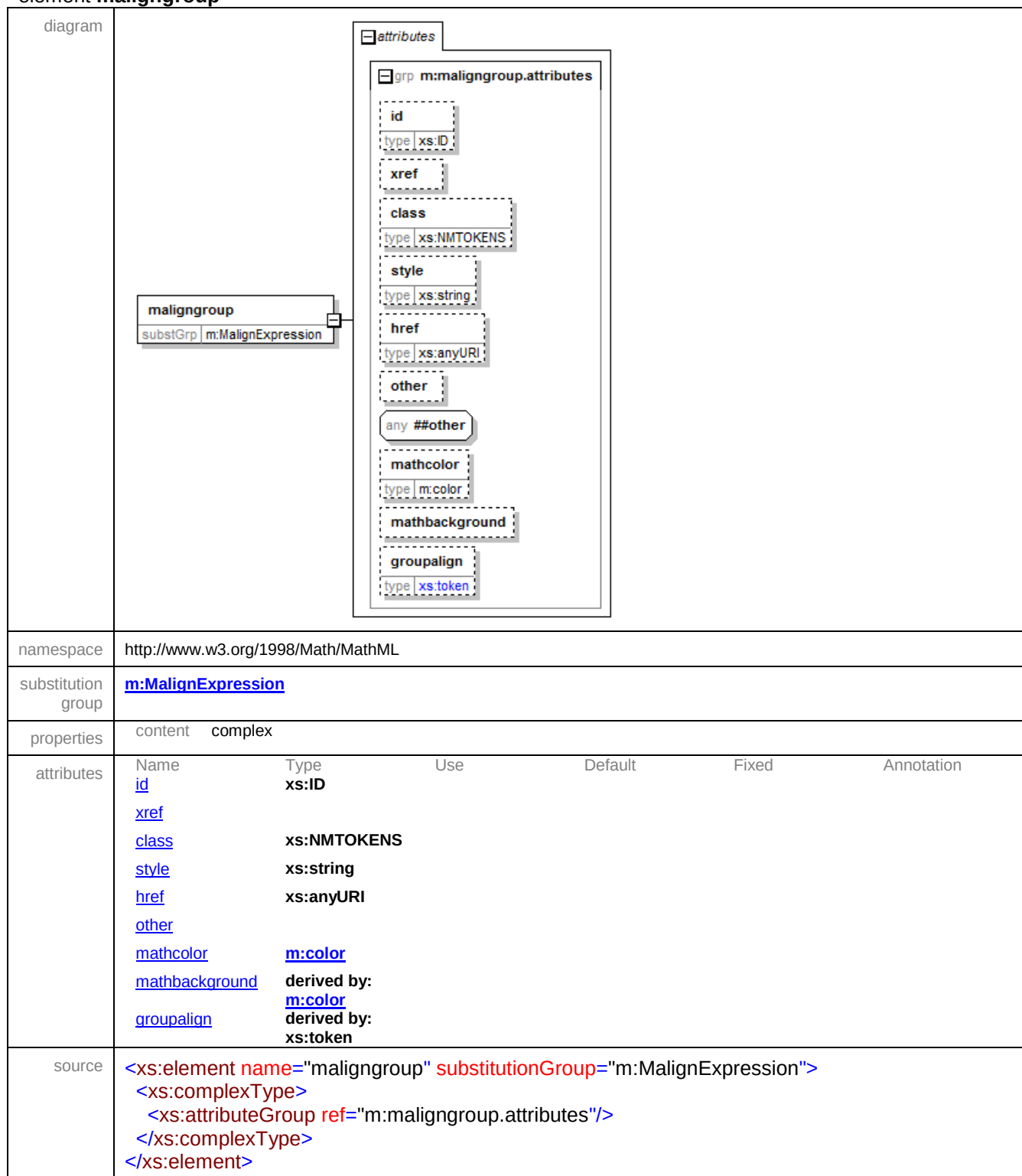


namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground actiontype selection	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:positive-integer	Use required	Default	Fixed	Annotation
source	<pre><xs:element name="maction" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:group ref="m:MathExpression" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:maction.attributes"/> </xs:complexType> </xs:element></pre>					

element **MalignExpression**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	abstract true					
source	<pre><xs:element name="MalignExpression" abstract="true" substitutionGroup="m:PresentationExpression"/></pre>					

element **maligngroup**

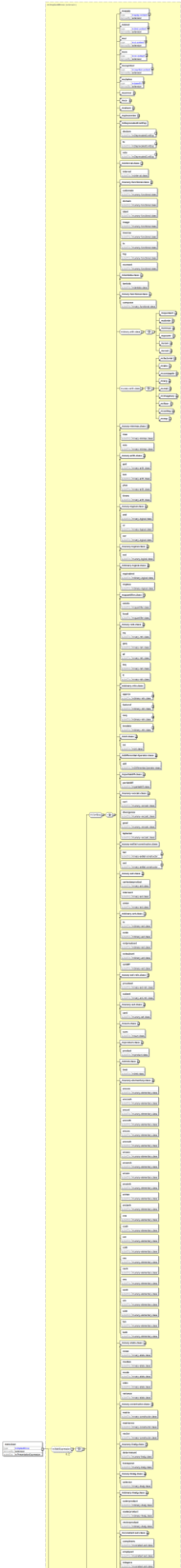


element **malignmark**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:MalignExpression					
properties	content complex					
used by	group token.content					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	edge	derived by: xs:token				
source	<pre><xs:element name="malignmark" substitutionGroup="m:MalignExpression"> <xs:complexType> <xs:attributeGroup ref="m:malignmark.attributes"/> </xs:complexType> </xs:element></pre>					

element **mencluse**

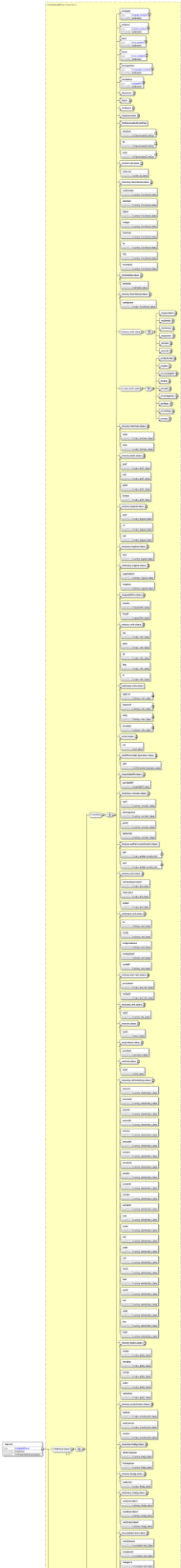
diagram



namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:ImpliedMrow					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground notation	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="menclose" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ImpliedMrow"> <xs:attributeGroup ref="m:menclose.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

element **merror**

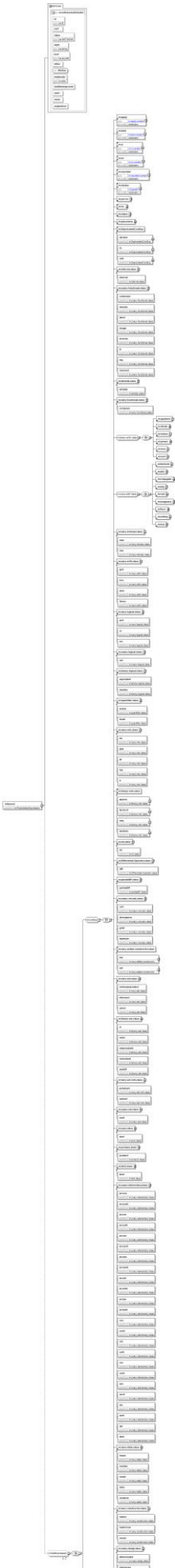
diagram



namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:ImpliedMrow					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="merror" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ImpliedMrow"> <xs:attributeGroup ref="m:merror.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

element **mfenced**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground open close separators	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mfenced" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:group ref="m:MathExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mfenced.attributes"/> </xs:complexType> </xs:element> </pre>					

element **mfrac**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground linethickness numalign denomalign bevelled	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mfrac" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:mfrac.attributes"/> </xs:complexType> </xs:element> </pre>					

element **mglyph**

diagram	attributes grp m:mglyph.attributes id type xs:ID xref class type xs:NMTOKENS style type xs:string href type xs:anyURI other any ##other mathcolor type m:color mathbackground src type xs:anyURI width type m:length height type m:length valign type m:length alt grp m:mglyph.deprecatedattri... index type m:integer mathvariant type xs:token mathsize fontfamily fontweight type xs:token fontstyle type xs:token fontsize type m:length color type m:color background mglyph																														
namespace	http://www.w3.org/1998/Math/MathML																														
properties	content complex																														
used by	complexTypes ci.content cn.content csymbol.content token.content																														
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>id</td><td>xs:ID</td><td></td><td></td><td></td><td></td></tr><tr><td>xref</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>class</td><td>xs:NMTOKENS</td><td></td><td></td><td></td><td></td></tr><tr><td>style</td><td>xs:string</td><td></td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	id	xs:ID					xref						class	xs:NMTOKENS					style	xs:string				
Name	Type	Use	Default	Fixed	Annotation																										
id	xs:ID																														
xref																															
class	xs:NMTOKENS																														
style	xs:string																														

	href other mathcolor mathbackground src width height valign alt index mathvariant mathsize fontfamily fontweight fontstyle fontsize color background xs:anyURI m:color derived by: m:color xs:anyURI m:length m:length m:length m:integer derived by: xs:token derived by: m:length derived by: xs:token derived by: xs:token m:length m:color derived by: m:color

element mi

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:TokenExpression					
properties	content	complex				
	mixed	true				
children	m:mglyph m:malignmark					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					

	class xs:NMTOKENS style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color mathvariant derived by: xs:token mathsize derived by: m:length dir derived by: xs:token fontfamily fontweight derived by: xs:token fontstyle derived by: xs:token fontsize m:length color m:color background derived by: m:color
source	<xs:element name="mi" substitutionGroup="m:TokenExpression"> <xs:complexType mixed="true"> <xs:group ref="m:token.content" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mi.attributes"/> </xs:complexType> </xs:element>

element **mlabeledtr**

diagram	The diagram illustrates the structure of the mlabeledtr element. It consists of a container for attributes and a sequence of m:TableCellExpression elements. The attributes container includes id (type xs:ID), xref, class (type xs:NMTOKENS), style (type xs:string), href (type xs:anyURI), other (any ##other), mathcolor (type m:color), mathbackground, rowalign (type xs:token), columnalign, and groupalign (type m:group-alignment-list-list). The m:TableCellExpression element has a type of m:ImpliedMrow and is derived by extension from mtd. The mtd element has a substitution group of m:TableCellExpression.					
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:TableRowExpression					
properties	content complex					
children	m:TableCellExpression					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				

	mathbackground rowalign columnalign groupalign derived by: m:color derived by: xs:token derived by: xs:list m:group-alignment-list-list
source	<xs:element name="mlabeledtr" substitutionGroup="m:TableRowExpression"> <xs:complexType> <xs:sequence> <xs:element ref="m:TableCellExpression" maxOccurs="unbounded"/> </xs:sequence> <xs:attributeGroup ref="m:mlabeledtr.attributes"/> </xs:complexType> </xs:element>

element **mlongdiv**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:PresentationExpression
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class

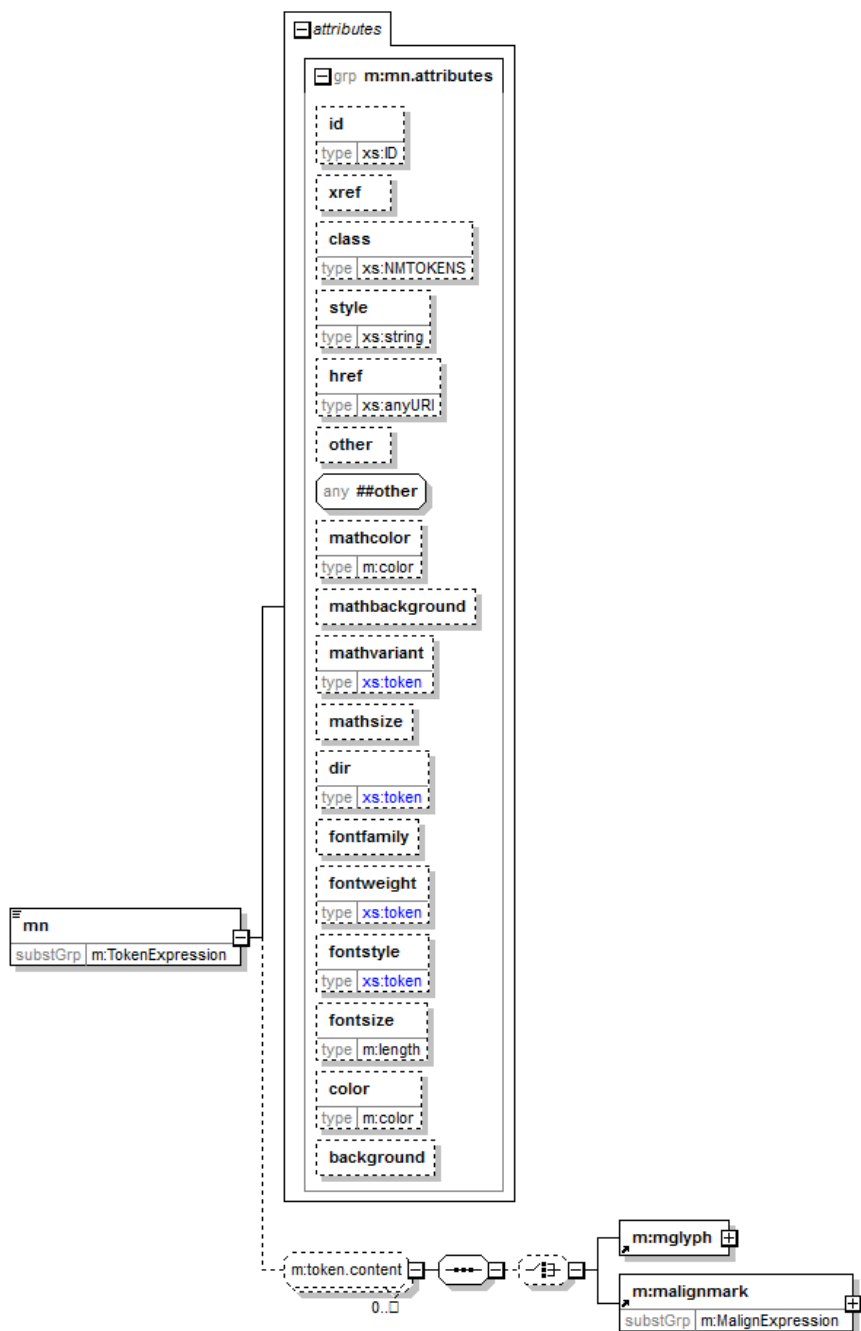
	m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics m:mscarries m:msline m:msrow m:msgroup					
attributes	Name id xref class style href other mathcolor mathbackground position shift longdivstyle	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer m:integer derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mlongdiv" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MstackExpression"/> <xs:group ref="m:MstackExpression"/> <xs:group ref="m:MstackExpression" maxOccurs="unbounded"/> </xs:sequence> <xs:attributeGroup ref="m:mlongdiv.attributes"/> </xs:complexType> </xs:element> </pre>					

element **mmultiscripts**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:PresentationExpression
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-

	constructor.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics m:none m:mprescripts					
attributes	Name id xref class style href other mathcolor mathbackground subscriptshift superscriptshift	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:length m:length	Use	Default	Fixed	Annotation
source	<pre><xs:element name="mmultiscripts" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MultiScriptExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:sequence minOccurs="0"> <xs:element ref="m:mprescripts"/> <xs:group ref="m:MultiScriptExpression" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:sequence> <xs:attributeGroup ref="m:mmultiscripts.attributes"/> </xs:complexType> </xs:element></pre>					

element mn

diagram																			
namespace	http://www.w3.org/1998/Math/MathML																		
substitution group	m:TokenExpression																		
properties	content complex mixed true																		
children	m:mglyph m:malignmark																		
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>id</td><td>xs:ID</td><td></td><td></td><td></td><td></td></tr><tr><td>xref</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	id	xs:ID					xref					
Name	Type	Use	Default	Fixed	Annotation														
id	xs:ID																		
xref																			

	class style href other mathcolor mathbackground mathvariant mathsize dir fontfamily fontweight fontstyle fontsize color background xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token m:length m:color derived by: m:color
source	<xs:element name="mn" substitutionGroup="m:TokenExpression"> <xs:complexType mixed="true"> <xs:group ref="m:token.content" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mn.attributes"/> </xs:complexType> </xs:element>

element mo

diagram	The diagram illustrates the structure of the <code>mo</code> element. It features a comprehensive list of attributes, including <code>id</code> (type <code>xs:ID</code>), <code>xref</code>, <code>class</code> (type <code>xs:NMTOKENS</code>), <code>style</code> (type <code>xs:string</code>), <code>href</code> (type <code>xs:anyURI</code>), <code>other</code>, <code>#other</code>, <code>mathcolor</code> (type <code>xs:color</code>), <code>mathbackground</code>, <code>mathvariant</code> (type <code>xs:token</code>), <code>mathsize</code> (type <code>xs:token</code>), <code>dir</code> (type <code>xs:token</code>), <code>fontfamily</code>, <code>fontweight</code> (type <code>xs:token</code>), <code>fontstyle</code> (type <code>xs:token</code>), <code>fontsize</code> (type <code>xs:token</code>), <code>color</code> (type <code>xs:color</code>), <code>background</code>, <code>form</code> (type <code>xs:token</code>), <code>fence</code> (type <code>xs:token</code>), <code>separator</code> (type <code>xs:token</code>), <code>lspace</code> (type <code>xs:token</code>), <code>rspace</code> (type <code>xs:token</code>), <code>stretchy</code> (type <code>xs:token</code>), <code>symmetric</code> (type <code>xs:token</code>), <code>maxsize</code> (type <code>xs:token</code>), <code>minsize</code> (type <code>xs:token</code>), <code>largeop</code> (type <code>xs:token</code>), <code>movablelimits</code> (type <code>xs:token</code>), <code>accent</code> (type <code>xs:token</code>), <code>linebreak</code> (type <code>xs:token</code>), <code>lineleading</code> (type <code>xs:token</code>), <code>linebreakstyle</code> (type <code>xs:token</code>), <code>linebreakmultchar</code> (type <code>xs:token</code>), <code>indentalign</code> (type <code>xs:token</code>), <code>indentshift</code> (type <code>xs:token</code>), <code>indenttarget</code> (type <code>xs:token</code>), <code>indentalignfirst</code> (type <code>xs:token</code>), <code>indentalignlast</code> (type <code>xs:token</code>), <code>indentshiftfirst</code> (type <code>xs:token</code>), and <code>indentshiftlast</code> (type <code>xs:token</code>). The content model is defined as a sequence of <code>mtoken content</code> (0 or 1), followed by a choice between <code>mmglyph</code> and <code>mmalignmark</code>.					
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:TokenExpression					
properties	content mixed	complex true				
children	m:mglyph m:malignmark					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				

	style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color mathvariant derived by: xs:token mathsize derived by: m:length dir derived by: xs:token fontfamily fontweight derived by: xs:token fontstyle derived by: xs:token fontsize m:length color m:color background derived by: m:color form derived by: xs:token fence derived by: xs:token separator derived by: xs:token lspace m:length rspace m:length stretchy derived by: xs:token symmetric derived by: xs:token maxsize derived by: m:length minsize m:length largeop derived by: xs:token movablelimits derived by: xs:token accent derived by: xs:token linebreak derived by: xs:token lineleading m:length linebreakstyle derived by: xs:token linebreakmultchar indentalign derived by: xs:token indentshift m:length indenttarget indentalignfirst derived by: xs:token indentshiftfirst derived by: m:length indentalignlast derived by: xs:token indentshiftlast derived by: m:length
source	<xs:element name="mo" substitutionGroup="m:TokenExpression"> <xs:complexType mixed="true">

	<pre><xs:group ref="m:token.content" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mo.attributes"/> </xs:complexType> </xs:element></pre>

element **mover**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground accent align	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mover" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:mover.attributes"/> </xs:complexType> </xs:element> </pre>					

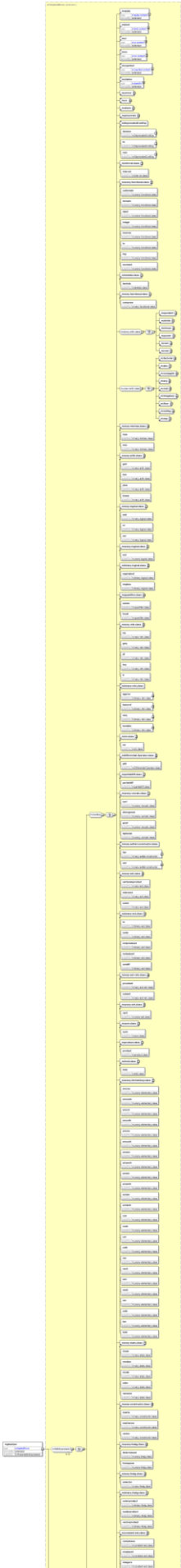
element **mpadded**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
type	extension of m:ImpliedMrow
substitution group	m:PresentationExpression
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class

	m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground height depth width lspace voffset	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:mpadded- length m:mpadded- length m:mpadded- length m:mpadded- length m:mpadded- length	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mpadded" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ImpliedMrow"> <xs:attributeGroup ref="m:mpadded.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

element **mphantom**

diagram



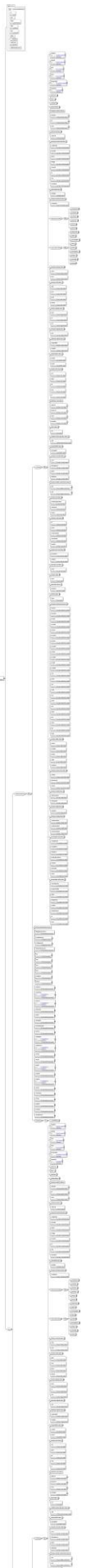
namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:ImpliedMrow					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre><xs:element name="mphantom" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ImpliedMrow"> <xs:attributeGroup ref="m:mphantom.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element></pre>					

element mprescripts

diagram																																																							
namespace	http://www.w3.org/1998/Math/MathML																																																						
properties	content complex																																																						
used by	element mmultiscripts																																																						
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>id</td><td>xs:ID</td><td></td><td></td><td></td><td></td></tr><tr><td>xref</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>class</td><td>xs:NMTOKENS</td><td></td><td></td><td></td><td></td></tr><tr><td>style</td><td>xs:string</td><td></td><td></td><td></td><td></td></tr><tr><td>href</td><td>xs:anyURI</td><td></td><td></td><td></td><td></td></tr><tr><td>other</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>mathcolor</td><td>m:color</td><td></td><td></td><td></td><td></td></tr><tr><td>mathbackground</td><td>derived by: m:color</td><td></td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	id	xs:ID					xref						class	xs:NMTOKENS					style	xs:string					href	xs:anyURI					other						mathcolor	m:color					mathbackground	derived by: m:color				
Name	Type	Use	Default	Fixed	Annotation																																																		
id	xs:ID																																																						
xref																																																							
class	xs:NMTOKENS																																																						
style	xs:string																																																						
href	xs:anyURI																																																						
other																																																							
mathcolor	m:color																																																						
mathbackground	derived by: m:color																																																						
source	<pre><xs:element name="mprescripts"> <xs:complexType> <xs:attributeGroup ref="m:mprescripts.attributes"/> </xs:complexType> </xs:element></pre>																																																						

element **mroot**

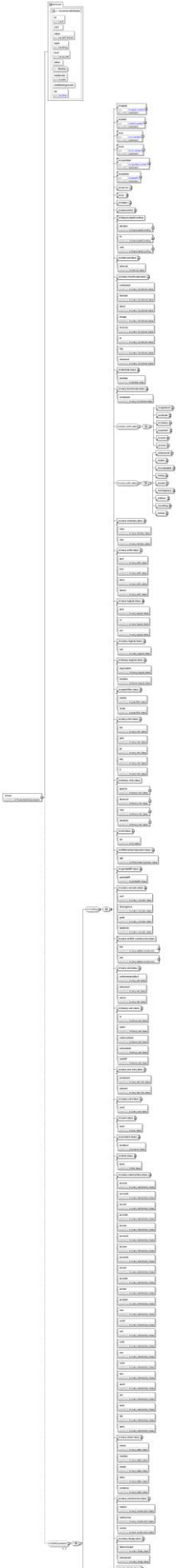
diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mroot" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:mroot.attributes"/> </xs:complexType> </xs:element> </pre>					

element **mrow**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground dir	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mrow" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:group ref="m:MathExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mrow.attributes"/> </xs:complexType> </xs:element> </pre>					

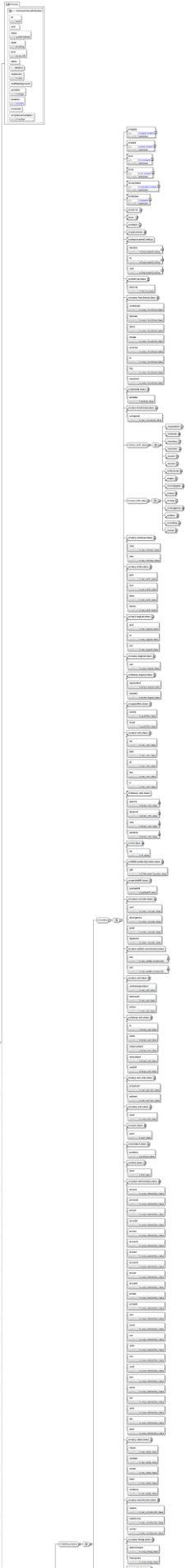
element ms

diagram																			
namespace	http://www.w3.org/1998/Math/MathML																		
substitution group	m:TokenExpression																		
properties	content complex mixed true																		
children	m:mglyph m:malignmark																		
attributes	<table><thead><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr></thead><tbody><tr><td>id</td><td>xs:ID</td><td></td><td></td><td></td><td></td></tr><tr><td>xref</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>	Name	Type	Use	Default	Fixed	Annotation	id	xs:ID					xref					
Name	Type	Use	Default	Fixed	Annotation														
id	xs:ID																		
xref																			

	class style href other mathcolor mathbackground mathvariant mathsize dir fontfamily fontweight fontstyle fontsize color background lquote rquote xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token m:length m:color derived by: m:color
source	<xs:element name="ms" substitutionGroup="m:TokenExpression"> <xs:complexType mixed="true"> <xs:group ref="m:token.content" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:ms.attributes"/> </xs:complexType> </xs:element>

element **mscarries**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics m:none m:mscopy					
used by	group MstackExpression					
attributes	Name id xref class style href other mathcolor mathbackground position location crossout scriptsizemultiplier	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer derived by: xs:token derived by: xs:token m:number	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mscarries"> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:group ref="m:MsrowExpression"/> <xs:element ref="m:mscopy"/> </xs:choice> <xs:attributeGroup ref="m:mscarries.attributes"/> </xs:complexType> </xs:element> </pre>					

element **mscarry**

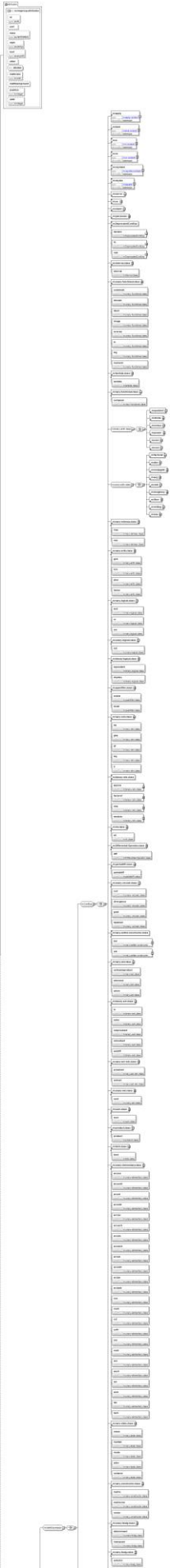
diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerrror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics m:none					
used by	element mscarries					
attributes	Name id xref class style href other mathcolor mathbackground location crossout	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mscarry"> <xs:complexType> <xs:group ref="m:MsrowExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mscarry.attributes"/> </xs:complexType> </xs:element> </pre>					

element **msgroup**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics m:mscarries m:msline m:msrow m:msgroup					
used by	group MstackExpression					
attributes	Name id xref class style href other mathcolor mathbackground position shift	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer m:integer	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="msgroup"> <xs:complexType> <xs:group ref="m:MstackExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:msgroup.attributes"/> </xs:complexType> </xs:element> </pre>					

element **msline**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group MstackExpression					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	position	m:integer				
	length	m:unsigned-integer				
	leftoverhang	m:length				
	rightoverhang	m:length				
	mslinethickness					

	rightoverhang m:length mslinethickness derived by: m:length
source	<pre><xs:element name="msline"> <xs:complexType> <xs:attributeGroup ref="m:msline.attributes"/> </xs:complexType> </xs:element></pre>

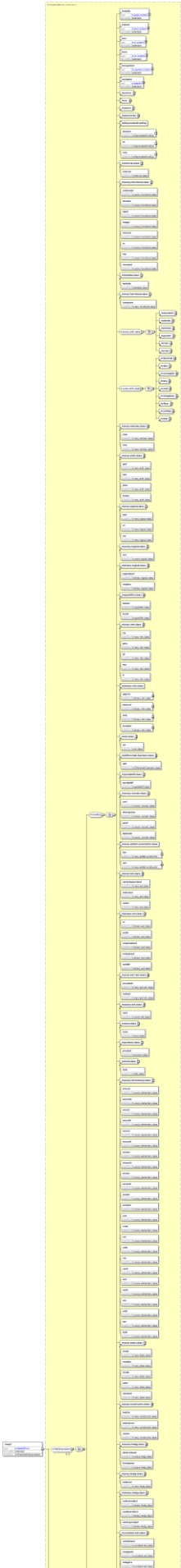
element **mspace**

diagram	The diagram illustrates the structure of the <code>mspace</code> element. On the left, a box labeled <code>mspace</code> is shown with a small square icon and the text <code>substGrp m:TokenExpression</code> below it. To the right, a large dashed box represents the <code>attributes</code> group, titled <code>attributes</code> and <code>mspace.attributes</code>. This group contains a list of attributes, each in a dashed box with its type specified below it: <code>id</code> (type <code>xs:ID</code>) <code>xref</code> <code>class</code> (type <code>xs:NMTOKENS</code>) <code>style</code> (type <code>xs:string</code>) <code>href</code> (type <code>xs:anyURI</code>) <code>other</code> (type <code>any ##other</code>) <code>mathcolor</code> (type <code>m:color</code>) <code>mathbackground</code> <code>mathvariant</code> (type <code>xs:token</code>) <code>mathsize</code> <code>dir</code> (type <code>xs:token</code>) <code>fontfamily</code> <code>fontweight</code> (type <code>xs:token</code>) <code>fontstyle</code> (type <code>xs:token</code>) <code>fontsize</code> (type <code>m:length</code>) <code>color</code> (type <code>m:color</code>) <code>background</code> <code>width</code> (type <code>m:length</code>) <code>height</code> (type <code>m:length</code>) <code>depth</code> (type <code>m:length</code>) <code>linebreak</code> (type <code>xs:token</code>) <code>indentalign</code> (type <code>xs:token</code>) <code>indentshift</code> (type <code>m:length</code>) <code>indenttarget</code> <code>indentalignfirst</code> (type <code>xs:token</code>) <code>indentshiftfirst</code> <code>indentalignlast</code> (type <code>xs:token</code>) <code>indentshiftlast</code>

namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:TokenExpression					
properties	content complex					
attributes	Name id xref class style href other mathcolor mathbackground mathvariant mathsize dir fontfamily fontweight fontstyle fontsize color background width height depth linebreak indentalign indentshift indenttarget indentalignfirst indentshiftfirst indentalignlast indentshiftlast	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token derived by: m:length m:color derived by: m:color m:length m:length m:length derived by: xs:token derived by: xs:token m:length derived by: xs:token derived by: xs:token derived by: m:length	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mspace" substitutionGroup="m:TokenExpression"> <xs:complexType> <xs:attributeGroup ref="m:mspace.attributes"/> </xs:complexType> </xs:element> </pre>					

element **msqrt**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:ImpliedMrow					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-structor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="msqrt" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ImpliedMrow"> <xs:attributeGroup ref="m:msqrt.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

element **msrow**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics m:none					
used by	group MstackExpression					
attributes	Name id xref class style href other mathcolor mathbackground position	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="msrow"> <xs:complexType> <xs:group ref="m:MsrowExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:msrow.attributes"/> </xs:complexType> </xs:element> </pre>					

element mstack

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:PresentationExpression
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class

	m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics m:mscarries m:msline m:msrow m:msgroup					
attributes	Name id xref class style href other mathcolor mathbackground align stackalign charalign charspacing	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:string derived by: xs:token derived by: xs:token derived by: m:length	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mstack" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:group ref="m:MstackExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mstack.attributes"/> </xs:complexType> </xs:element> </pre>					

element **mstyle**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
type	extension of m:ImpliedMrow
substitution group	m:PresentationExpression
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class

	m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	scriptlevel	m:integer				
	displaystyle	derived by: xs:token				
	scriptsizemultiplier	m:number				
	scriptminsize	m:length				
	infixlinebreakstyle	derived by: xs:token				
	decimalpoint	m:character				
	accent	derived by: xs:token				
	accentunder	derived by: xs:token				
	align	derived by: xs:token				
	alignmentscope	derived by: xs:token				
	bevelled	derived by: xs:token				
	charalign	derived by: xs:token				
	charspacing	derived by: m:length				
	close					
	columnalign	derived by: xs:list				
	columnlines	derived by: xs:list				
	columnspacing	derived by: xs:list				
	columnspan	m:positive-integer				
	columnwidth	derived by: m:length				
	crossout	derived by: xs:token				
	denomalign	derived by: xs:token				
	depth	m:length				
	dir	derived by: xs:token				
	edge	derived by: xs:token				
	equalcolumns	derived by: xs:token				
	equalrows	derived by: xs:token				
	fence	derived by: xs:token				

form	derived by: xs:token
frame	m:linestyle
framespacing	derived by: m:length
groupalign	m:group- alignment-list- list
height	m:length
indentalign	derived by: xs:token
indentalignfirst	derived by: xs:token
indentalignlast	derived by: xs:token
indentshift	m:length
indentshiftfirst	derived by: m:length
indentshiftlast	derived by: m:length
indenttarget	
largeop	derived by: xs:token
leftoverhang	m:length
length	m:unsigned- integer
linebreak	derived by: xs:token
linebreakmultchar	
linebreakstyle	derived by: xs:token
lineleading	m:length
linethickness	derived by: m:length
location	derived by: xs:token
longdivstyle	derived by: xs:token
lquote	
lspace	m:length
mathsize	derived by: m:length
mathvariant	derived by: xs:token
maxsize	derived by: m:length
minlabelspacing	m:length
minsize	m:length
movablelimits	derived by: xs:token
mslinethickness	derived by: m:length
notation	
numalign	derived by: xs:token
open	
position	m:integer
rightoverhang	m:length
rowalign	derived by: xs:list
rowlines	derived by: xs:list

	rowspacing derived by: xs:list rowspan m:positive-integer rquote rspace m:length selection m:positive-integer separator derived by: xs:token separators shift m:integer side derived by: xs:token stackalign derived by: xs:token stretchy derived by: xs:token subscriptshift m:length superscriptshift m:length symmetric derived by: xs:token valign m:length width m:length fontfamily fontweight derived by: xs:token fontstyle derived by: xs:token fontsize m:length color m:color background derived by: m:color veryverythinmathspace m:length verythinmathspace m:length thinmathspace m:length mediummathspace m:length thickmathspace m:length verythickmathspace m:length veryverythickmathspace m:length
source	<pre> <xs:element name="mstyle" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ImpliedMrow"> <xs:attributeGroup ref="m:mstyle.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>

element **msub**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground subscriptshift	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:length	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="msub" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:msub.attributes"/> </xs:complexType> </xs:element> </pre>					

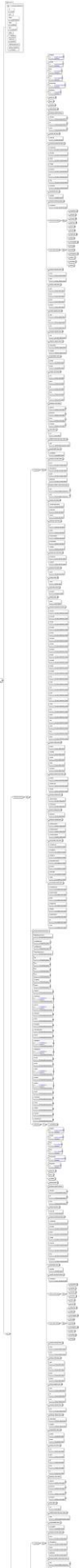
element **msubsup**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:PresentationExpression
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class

	m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground subscriptshift superscriptshift	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:length m:length	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="msubsup" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:msubsup.attributes"/> </xs:complexType> </xs:element> </pre>					

element **msup**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground superscriptshift	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:length	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="msup" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:msup.attributes"/> </xs:complexType> </xs:element> </pre>					

element mtable

diagram	The diagram illustrates the structure of the <code>mtable</code> element. It is a container for a sequence of <code>m:TableRowExpression</code> elements. The <code>mtable</code> element itself has a substitution group <code>m:PresentationExpression</code>. Inside the <code>mtable</code>, there is an <code>attributes</code> group (labeled <code>m:mtable.attributes</code>) which contains various attributes such as <code>id</code>, <code>xref</code>, <code>class</code>, <code>style</code>, <code>href</code>, <code>mathcolor</code>, <code>mathbackground</code>, <code>align</code>, <code>rowalign</code>, <code>columnalign</code>, <code>groupalign</code>, <code>alignment</code>, <code>alignmentscope</code>, <code>columnwidth</code>, <code>width</code>, <code>rowspacing</code>, <code>columnspacing</code>, <code>rowlines</code>, <code>columnlines</code>, <code>frame</code>, <code>framespacing</code>, <code>equalrows</code>, <code>equalcolumns</code>, <code>displaystyle</code>, <code>side</code>, <code>minlabelspacing</code>, etc. Below the attributes group, there is a sequence of <code>m:TableRowExpression</code> elements, each with a substitution group <code>m:TableRowExpression</code> containing <code>m:mlabeledtr</code> and <code>m:mttr</code> elements.					
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:TableRowExpression					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					

source	<code><xs:element name="mtd" substitutionGroup="m:TableCellExpression"/></code>

element **mtext**

diagram	The diagram illustrates the structure of the mtext element. It is defined with a substitution group of m:TokenExpression. The element contains a set of attributes grouped under m:mtext.attributes, including id (type xs:ID), xref, class (type xs:NMTOKENS), style (type xs:string), href (type xs:anyURI), other, any ##other, mathcolor (type m:color), mathbackground, mathvariant (type xs:token), mathsize, dir (type xs:token), fontfamily, fontweight (type xs:token), fontstyle (type xs:token), fontsize (type m:length), color (type m:color), and background. The content model is a sequence: zero or more m:token.content elements, followed by an m:mglyph element, and then an m:malignmark element (which has a substitution group of m:MalignExpression).
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:TokenExpression
properties	content mixed complex true

children	m:mglyph m:malignmark					
attributes	Name id xref class style href other mathcolor mathbackground mathvariant mathsize dir fontfamily fontweight fontstyle fontsize color background	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token m:length m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="mtext" substitutionGroup="m:TokenExpression"> <xs:complexType mixed="true"> <xs:group ref="m:token.content" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:mtext.attributes"/> </xs:complexType> </xs:element> </pre>					

element mtr

diagram	The diagram illustrates the structure of the <code>mtr</code> element. It is a container for a group of attributes and a sequence of <code>m:TableCellExpression</code> elements. The attributes group, labeled <code>m:tr.attributes</code>, includes the following attributes: <code>id</code> (type <code>xs:ID</code>) <code>xref</code> <code>class</code> (type <code>xs:NMTOKENS</code>) <code>style</code> (type <code>xs:string</code>) <code>href</code> (type <code>xs:anyURI</code>) <code>other</code> <code>mathcolor</code> (type <code>m:color</code>) <code>mathbackground</code> <code>rowalign</code> (type <code>xs:token</code>) <code>columnalign</code> <code>groupalign</code> (type <code>m:group-alignment-list-list</code>) The <code>m:TableCellExpression</code> element is derived by extension from <code>m:ImpliedMrow</code> and contains an <code>mtd</code> element (type <code>m:TableCellExpression</code>). The <code>mtd</code> element is a substitution group for <code>m:TableCellExpression</code>.					
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:TableRowExpression					
properties	content complex					
children	m:TableCellExpression					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	<code>xs:ID</code>				
	xref					
	class	<code>xs:NMTOKENS</code>				
	style	<code>xs:string</code>				
	href	<code>xs:anyURI</code>				
	other					
	mathcolor	<code>m:color</code>				

	mathbackground rowalign columnalign groupalign derived by: m:color derived by: xs:token derived by: xs:list m:group-alignment-list-list
source	<xs:element name="mtr" substitutionGroup="m:TableRowExpression"> <xs:complexType> <xs:sequence> <xs:element ref="m:TableCellExpression" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attributeGroup ref="m:mtr.attributes"/> </xs:complexType> </xs:element>

element **munder**

diagram



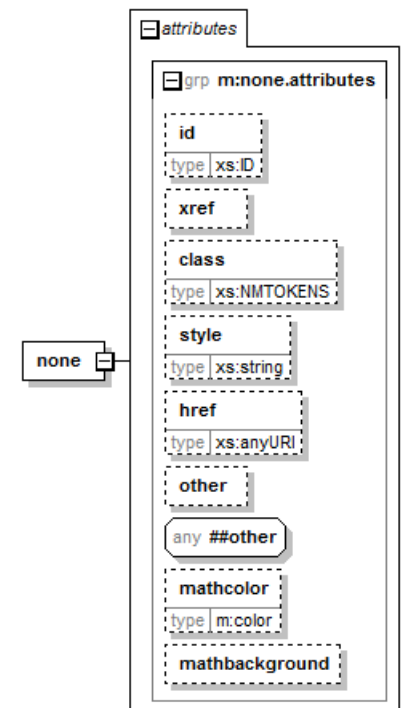
namespace	http://www.w3.org/1998/Math/MathML					
substitution group	m:PresentationExpression					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground accentunder align	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="munder" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:munder.attributes"/> </xs:complexType> </xs:element> </pre>					

element **munderover**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:PresentationExpression
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class

	m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
attributes	Name id xref class style href other mathcolor mathbackground accent accentunder align	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: xs:token derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre><xs:element name="munderover" substitutionGroup="m:PresentationExpression"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> <xs:group ref="m:MathExpression"/> </xs:sequence> <xs:attributeGroup ref="m:munderover.attributes"/> </xs:complexType> </xs:element></pre>					

element **none**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	groups MsrowExpression MultiScriptExpression					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
source	<pre><xs:element name="none"> <xs:complexType> <xs:attributeGroup ref="m:none.attributes"/> </xs:complexType> </xs:element></pre>					

element TableCellExpression

diagram	
namespace	http://www.w3.org/1998/Math/MathML
type	extension of m:ImpliedMrow
properties	content complex abstract true
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-

	constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics					
used by	elements mlabeledtr mtr					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	rowspan	m:positive-integer				
	columnspan	m:positive-integer				
	rowalign	derived by: xs:token				
	columnalign	m:columnalignstyle				
groupalign	m:group-alignment-list					
source	<pre><xs:element name="TableCellExpression" abstract="true"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ImpliedMrow"> <xs:attributeGroup ref="m:mtd.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element></pre>					

element **TableRowExpression**

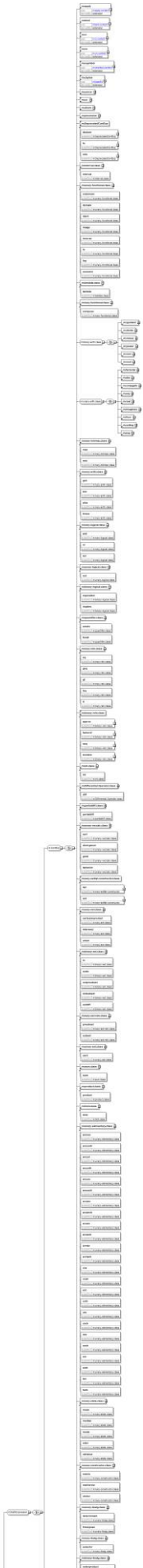
diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	abstract true					
used by	element mtable					
source	<pre><xs:element name="TableRowExpression" abstract="true"/></pre>					

element **TokenExpression**

diagram	<pre> classDiagram class TokenExpression { +substGrp m:PresentationExpression } class mi { +substGrp m:TokenExpression } class mn { +substGrp m:TokenExpression } class mo { +substGrp m:TokenExpression } class ms { +substGrp m:TokenExpression } class mspace { +substGrp m:TokenExpression } class mtext { +substGrp m:TokenExpression } TokenExpression < -- mi TokenExpression < -- mn TokenExpression < -- mo TokenExpression < -- ms TokenExpression < -- mspace TokenExpression < -- mtext </pre>
namespace	http://www.w3.org/1998/Math/MathML
substitution group	m:PresentationExpression
properties	abstract true
source	<pre> <xs:element name="TokenExpression" abstract="true" substitutionGroup="m:PresentationExpression"/> </pre>

group **MsrowExpression**

diagram



namespace	http://www.w3.org/1998/Math/MathML
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics m:none
used by	elements mscarries mscarry msrow
source	<pre> <xs:group name="MsrowExpression"> <xs:choice> <xs:group ref="m:MathExpression"/> <xs:element ref="m:none"/> </xs:choice> </xs:group> </pre>

group **MstackExpression**

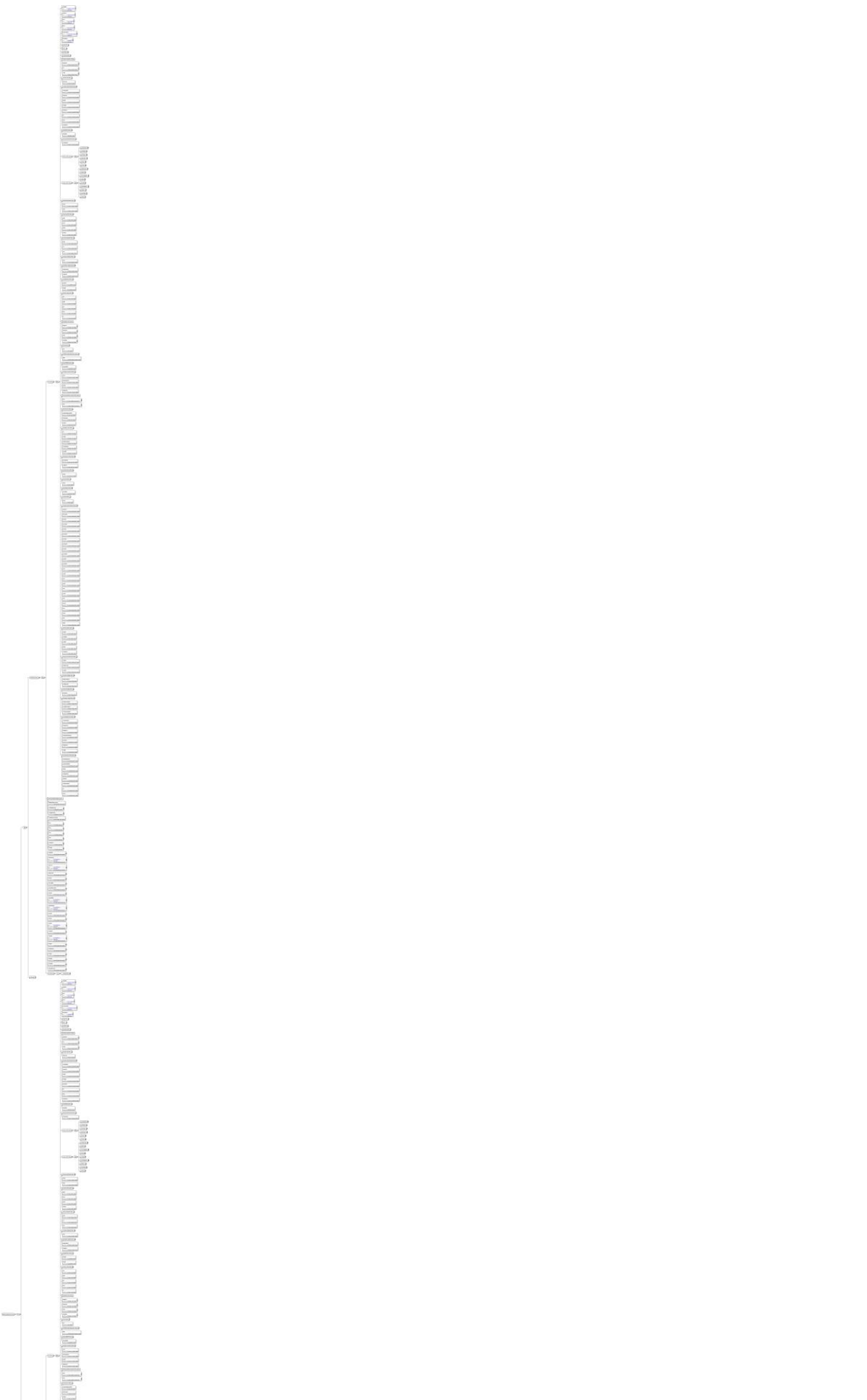
diagram



namespace	http://www.w3.org/1998/Math/MathML
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics m:mscarries m:msline m:msrow m:msgroup
used by	elements mlongdiv msgroup mstack
source	<pre> <xs:group name="MstackExpression"> <xs:choice> <xs:group ref="m:MathExpression"/> <xs:element ref="m:mscarries"/> <xs:element ref="m:msline"/> <xs:element ref="m:msrow"/> <xs:element ref="m:msgroup"/> </xs:choice> </xs:group> </pre>

group **MultiScriptExpression**

diagram



namespace	http://www.w3.org/1998/Math/MathML
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerrord m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics m:none
used by	element mmultiscripts
source	<pre> <xs:group name="MultiScriptExpression"> <xs:sequence> <xs:choice> <xs:group ref="m:MathExpression"/> <xs:element ref="m:none"/> </xs:choice> <xs:choice> <xs:group ref="m:MathExpression"/> <xs:element ref="m:none"/> </xs:choice> </xs:sequence> </xs:group> </pre>

group token.content

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:mglyph m:malignmark
used by	elements mi mn mo ms mtext
source	<pre> <xs:group name="token.content"> <xs:sequence> <xs:choice minOccurs="0"> <xs:element ref="m:mglyph"/> <xs:element ref="m:malignmark"/> </xs:choice> </xs:sequence> </xs:group> </pre>

complexType **ImpliedMrow**

diagram



namespace	http://www.w3.org/1998/Math/MathML
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constant-arith.class m:PresentationExpression m:semantics
used by	elements menclose merror mpadded mphantom msqrt mstyle TableCellExpression
source	<pre><xs:complexType name="ImpliedMrow"> <xs:group ref="m:MathExpression" minOccurs="0" maxOccurs="unbounded"/> </xs:complexType></pre>

simpleType character

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:string		
properties	base	xs:string	
used by	attribute	mstyle.specificattributes/@decimalpoint	
facets	Kind	Value	Annotation
	pattern	\s*\S\s*	
source	<xs:simpleType name="character"> <xs:restriction base="xs:string"> <xs:pattern value="\s*\S\s*" /> </xs:restriction> </xs:simpleType>		

simpleType color

name space	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:string		
properties	base xs:string		
used by	attributes DeprecatedTokenAtt/@background DeprecatedTokenAtt/@color CommonPresAtt/@mathbackground CommonPresAtt/@mathcolor		
facets	Kind	Value	Annotation
	pattern	\s*((#[0-9a-fA-F]{3}){0-9a-fA-F}{3})?[aA][qQ][uU][aA][bB][lL][aA][cC][kK][bB][lL][uU][eE][fF][uU][cC][hH][sS][iI][aA][gG][rR][aA][yY][gG][rR][eE][eE][nN][iI][mM][eE][mM][aA][rR][oO][oO][nN][nN][aA][vV][yY][oO][lL][iI][vV][eE][pP][uU][rR][pP][lL][eE][rR][eE][dD][sS][iI][lL][vV][eE][rR][tT][eE][aA][lL][wW][hH][iI][tT][eE][yY][eE][lL][lL][oO][wW])\s*	
source	<xs:simpleType name="color">		

rce	<pre> <xs:restriction base="xs:string"> <xs:pattern value="\s*((#[0-9a-fA-F]{3}([0-9a-fA-F]{3})?) F){3})?)[aA][qQ][uU][aA][bB][lL][aA][cC][kK][bB][lL][uU][eE][fF][uU][cC][hH][sS][iI][aA][gG][rR][aA][yY][g G][rR][eE][eE][nN][lL][iI][mM][eE][mM][aA][rR][oO][oO][nN][nN][aA][vV][yY][oO][lL][iI][vV][eE][pP][uU][rR]][pP][lL][eE][rR][eE][dD][sS][iI][lL][vV][eE][rR][tT][eE][aA][lL][wW][hH][iI][tT][eE][yY][eE][lL][lL][oO][wW])\ s*" /> </xs:restriction> </xs:simpleType> </pre>

simpleType columnalignstyle

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:token		
properties	base xs:token		
used by	attributes	mstyle.generalattributes/@columnalign mtable.attributes/@columnalign mtr.attributes/@columnalign mtd.attributes/@columnalign	
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
source	<pre><xs:simpleType name="columnalignstyle"> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType></pre>		

simpleType group-alignment

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:token		
properties	base	xs:token	
used by	simpleType	group-alignment-list	
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	decimalpoint	
source	<pre><xs:simpleType name="group-alignment"> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="decimalpoint"/> </xs:restriction> </xs:simpleType></pre>		

simpleType group-alignment-list

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of (list of m:group-alignment)		
used by	attribute	mtd.attributes/@groupalign	
facets	Kind	Value	Annotation
	minLength	1	
source	<pre><xs:simpleType name="group-alignment-list"> <xs:restriction> <xs:simpleType> <xs:list itemType="m:group-alignment"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType></pre>		

simpleType group-alignment-list-list

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:string		
properties	base	xs:string	
used by	attributes	mstyle.generalattributes/@groupalign mtable.attributes/@groupalign mtr.attributes/@groupalign	
facets	Kind	Value	Annotation
	pattern	(\s*\{\s*(left center right decimalpoint)(\s+(\left center right decimalpoint))*\})*\s*	
source	<pre><xs:simpleType name="group-alignment-list-list"> <xs:restriction base="xs:string"> <xs:pattern value="(\s*\{\s*(left center right decimalpoint)(\s+(\left center right decimalpoint))*\})*\s*" /> </xs:restriction> </xs:simpleType></pre>		

simpleType integer

simpleType integer	
namespace	http://www.w3.org/1998/Math/MathML
type	xs:integer
properties	base xs:integer
used by	attributes mglyph.deprecatedattributes/@index msline.attributes/@position mstyle.generalattributes/@position msgroup.attributes/@position msrow.attributes/@position mscarries.attributes/@position mstyle.specificattributes/@scriptlevel mstyle.generalattributes/@shift msgroup.attributes/@shift
source	<xs:simpleType name="integer"> <xs:restriction base="xs:integer"/> </xs:simpleType>

simpleType linestyle

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:token		

properties	base	xs:token
used by	attributes	mstyle.generalattributes/@columnlines mtable.attributes/@columnlines mstyle.generalattributes/@frame mtable.attributes/@frame mstyle.generalattributes/@rowlines mtable.attributes/@rowlines
facets	Kind	Value Annotation
	enumeration	none
	enumeration	solid
	enumeration	dashed
source	<pre><xs:simpleType name="linestyle"> <xs:restriction base="xs:token"> <xs:enumeration value="none"/> <xs:enumeration value="solid"/> <xs:enumeration value="dashed"/> </xs:restriction> </xs:simpleType></pre>	

simpleType mpadded-length

namespace	http://www.w3.org/1998/Math/MathML	
type	restriction of xs:string	
properties	base	xs:string
used by	attributes	mpadded.attributes/@depth mpadded.attributes/@height mpadded.attributes/@lspace mpadded.attributes/@voffset mpadded.attributes/@width
facets	Kind	Value Annotation
	pattern	<code>\s*([+-]?[0-9]*([0-9]\.?[0-9])?[0-9]*\s*((%?\s*(height depth width)?)[e[mx]]in cm mm p[xtc])(((negative)?((very){0,2}thi(n ck) medium)m athspace))?)\s*</code>
source	<pre><xs:simpleType name="mpadded-length"> <xs:restriction base="xs:string"> <xs:pattern value="\s*([+-]?[0-9]*([0-9]\.?[0-9])?[0-9]*\s*((%?\s*(height depth width)?)[e[mx]]in cm mm p[xtc])(((negative)?((very){0,2}thi(n ck) medium)m athspace))?)\s*" /> </xs:restriction> </xs:simpleType></pre>	

simpleType notationstyle

namespace	http://www.w3.org/1998/Math/MathML	
type	restriction of xs:token	
properties	base	xs:token
facets	Kind	Value Annotation
	enumeration	longdiv
	enumeration	actuarial
	enumeration	radical
	enumeration	box
	enumeration	roundedbox
	enumeration	circle
	enumeration	left

	enumeration right enumeration top enumeration bottom enumeration updiagonalstrike enumeration downdiagonalstrike enumeration verticalstrike enumeration horizontalstrike enumeration madruwb
source	<pre> <xs:simpleType name="notationstyle"> <xs:restriction base="xs:token"> <xs:enumeration value="longdiv"/> <xs:enumeration value="actuarial"/> <xs:enumeration value="radical"/> <xs:enumeration value="box"/> <xs:enumeration value="roundedbox"/> <xs:enumeration value="circle"/> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="top"/> <xs:enumeration value="bottom"/> <xs:enumeration value="updiagonalstrike"/> <xs:enumeration value="downdiagonalstrike"/> <xs:enumeration value="verticalstrike"/> <xs:enumeration value="horizontalstrike"/> <xs:enumeration value="madruwb"/> </xs:restriction> </xs:simpleType> </pre>

simpleType number

namespace	http://www.w3.org/1998/Math/MathML
type	xs:decimal
properties	base xs:decimal
used by	attributes mstyle.specificattributes/@scriptsizeMultiplier mscarries.attributes/@scriptsizeMultiplier
source	<pre> <xs:simpleType name="number"> <xs:restriction base="xs:decimal"/> </xs:simpleType> </pre>

simpleType positive-integer

namespace	http://www.w3.org/1998/Math/MathML
type	xs:positiveInteger
properties	base xs:positiveInteger
used by	attributes mstyle.generalattributes/@columnspan mtd.attributes/@columnspan mstyle.generalattributes/@rowspan mtd.attributes/@rowspan mstyle.generalattributes/@selection maction.attributes/@selection
source	<pre> <xs:simpleType name="positive-integer"> <xs:restriction base="xs:positiveInteger"/> </pre>

	<code></xs:simpleType></code>

simpleType unsigned-integer

namespace	http://www.w3.org/1998/Math/MathML
type	xs:unsignedLong
properties	base xs:unsignedLong
used by	attributes msline.attributes/@length mstyle.generalattributes/@length
source	<pre> <xs:simpleType name="unsigned-integer"> <xs:restriction base="xs:unsignedLong"/> </xs:simpleType> </pre>

simpleType verticalalign

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:token		
properties	base xs:token		
used by	attributes mstyle.generalattributes/@rowalign mtable.attributes/@rowalign		
facets	Kind	Value	Annotation
	enumeration	top	
	enumeration	bottom	
	enumeration	center	
	enumeration	baseline	
	enumeration	axis	
source	<pre><xs:simpleType name="verticalalign"> <xs:restriction base="xs:token"> <xs:enumeration value="top"/> <xs:enumeration value="bottom"/> <xs:enumeration value="center"/> <xs:enumeration value="baseline"/> <xs:enumeration value="axis"/> </xs:restriction> </xs:simpleType></pre>		

attributeGroup CommonPresAtt

namespace	http://www.w3.org/1998/Math/MathML					
used by	attributeGroups maction.attributes maligngroup.attributes malignmark.attributes math.attributes menclose.attributes merror.attributes mfenced.attributes mfrac.attributes mglyph.attributes mi.attributes mn.attributes mo.attributes mover.attributes mpadded.attributes mphantom.attributes mprescripts.attributes mroot.attributes mrow.attributes ms.attributes mscarries.attributes mscarry.attributes msgroup.attributes msline.attributes mspace.attributes msqrt.attributes msrow.attributes mstack.attributes mstyle.attributes msub.attributes msubsup.attributes msup.attributes mtable.attributes mtd.attributes mtext.attributes mtr.attributes munder.attributes munderover.attributes none.attributes					
attributes	Name mathcolor mathbackground	Type m:color derived by: m:color	Use	Default	Fixed	Annotation

source	<pre> <xs:attributeGroup name="CommonPresAtt"> <xs:attribute name="mathcolor" type="m:color"/> <xs:attribute name="mathbackground"> <xs:simpleType> <xs:union memberTypes="m:color"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="transparent"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **CommonPresAtt/@mathcolor**

ty pe	m:color				
fa ce ts	Ki nd	Value			An not atio n
	pa tte rn	\s*((#[0-9a-fA-F]{3}{0-9a-fA-F}{3})?)[aA][qQ][uU][aA][bB][lL][aA][cC][kK][bB][lL][uU][eE][fF][uU][cC][hH][sS][iI][aA][gG][rR][aA][yY][gG][rR][eE][eE][nN][lL][iI][mM][eE][mM][aA][rR][oO][oO][nN][nN][aA][vV][yY][oO][lL][iI][vV][eE][pP][uU][rR][pP][lL][eE][rR][eE][dD][sS][iI][lL][vV][eE][rR][tT][eE][aA][lL][wW][hH][iI][tT][eE][yY][eE][lL][lL][oO][wW])\s*			
	<xs:attribute name="mathcolor" type="m:color"/>				
so ur ce					

attribute **CommonPresAtt/@mathbackground**

type	union of (m:color , restriction of xs:token)				
source	<pre> <xs:attribute name="mathbackground"> <xs:simpleType> <xs:union memberTypes="m:color"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="transparent"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>				

attributeGroup **DeprecatedTokenAtt**

namespace	http://www.w3.org/1998/Math/MathML					
used by	attributeGroups	mglyph.deprecatedattributes mstyle.deprecatedattributes TokenAtt				
attributes	Name	Type	Use	Default	Fixed	Annotation
	fontfamily					
	fontweight	derived by:				

	fontstyle fontsize color background xs:token derived by: xs:token m:length m:color derived by: m:color
source	<pre> <xs:attributeGroup name="DeprecatedTokenAtt"> <xs:attribute name="fontfamily"/> <xs:attribute name="fontweight"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="bold"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="fontstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="italic"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="fontsize" type="m:length"/> <xs:attribute name="color" type="m:color"/> <xs:attribute name="background"> <xs:simpleType> <xs:union memberTypes="m:color"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="transparent"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **DeprecatedTokenAtt/@fontfamily**

source	<pre><xs:attribute name="fontfamily"/></pre>

attribute **DeprecatedTokenAtt/@fontweight**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	normal	
	enumeration	bold	
source	<pre> <xs:attribute name="fontweight"> <xs:simpleType> <xs:restriction base="xs:token"> </pre>		

	<pre> <xs:enumeration value="normal"/> <xs:enumeration value="bold"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **DeprecatedTokenAtt/@fontstyle**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	normal	
	enumeration	italic	
source	<pre> <xs:attribute name="fontstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="italic"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **DeprecatedTokenAtt/@fontsize**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9])?[0-9]*(e[mmx] in cm mm p xtc) %)?)((negative)?((very){0,2}thin ck) medium mathspace)\s*	
source	<xs:attribute name="fontsize" type="m:length"/>		

attribute **DeprecatedTokenAtt/@color**

ty pe	m:color		
fa ce ts	Ki nd	Value	An not atio n
	pa tte rn	\s*((#[0-9a-fA-F]{3}([0-9a-fA-F]{3})?) [aA][qQ][uU][aA][bB][lL][aA][cC][kK][bB][lL][uU][eE][fF][uU][cC][hH][sS][iI][aA][gG][rR][aA][yY][gG][rR][eE][eE][nN][lL][iI][mM][eE][mM][aA][rR][oO][oO][nN][nN][aA][vV][yY][oO][lL][iI][vV][eE][pP][uU][rR][pP][lL][eE][rR][eE][dD][sS][iI][lL][vV][eE][rR][tT][eE][aA][lL][wW][hH][iI][tT][eE][yY][eE][lL][lL][oO][wW])\s*	
so ur ce	<xs:attribute name="color" type="m:color"/>		

attribute **DeprecatedTokenAtt/@background**

type	union of (m:color , restriction of xs:token)		
source	<pre> <xs:attribute name="background"> <xs:simpleType> <xs:union memberTypes="m:color"> <xs:simpleType> </pre>		

	<pre> <xs:restriction base="xs:token"> <xs:enumeration value="transparent"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attributeGroup **maction.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element maction					
attributes	Name id xref class style href other mathcolor mathbackground actiontype selection	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:positive-integer	Use required	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="maction.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="actiontype" use="required"/> <xs:attribute name="selection" type="m:positive-integer"/> </xs:attributeGroup> </pre>					

attribute **maction.attributes/@actiontype**

properties	use required
source	<pre> <xs:attribute name="actiontype" use="required"/> </pre>

attribute **maction.attributes/@selection**

type	m:positive-integer
source	<pre> <xs:attribute name="selection" type="m:positive-integer"/> </pre>

attributeGroup **maligngroup.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element maligngroup					
attributes	Name id	Type xs:ID	Use	Default	Fixed	Annotation

	xref class xs:NMTOKENS style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color groupalign derived by: xs:token
source	<pre> <xs:attributeGroup name="maligngroup.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="groupalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="decimalpoint"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **maligngroup.attributes/@groupalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	decimalpoint	
source	<pre> <xs:attribute name="groupalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="decimalpoint"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attributeGroup **malignmark.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	malignmark				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					

	class xs:NMTOKENS style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color edge derived by: xs:token
source	<pre> <xs:attributeGroup name="malignmark.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="edge"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **malignmark.attributes/@edge**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
source	<pre> <xs:attribute name="edge"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attributeGroup **math.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	math				
attributes	Name	Type	Use	Default	Fixed	Annotation
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	scriptlevel	m:integer				
	displaystyle	derived by: xs:token				
	scriptsizemultiplier	m:number				
	scriptminsize	m:length				
	infixlinebreakstyle	derived by: xs:token				

decimalpoint	m:character
accent	derived by: xs:token
accentunder	derived by: xs:token
align	derived by: xs:token
alignmentscope	derived by: xs:token
bevelled	derived by: xs:token
charalign	derived by: xs:token
charspacing	derived by: m:length
close	
columnalign	derived by: xs:list
columnlines	derived by: xs:list
columnspacing	derived by: xs:list
columnspan	m:positive-integer
columnwidth	derived by: m:length
crossout	derived by: xs:token
denomalign	derived by: xs:token
depth	m:length
dir	derived by: xs:token
edge	derived by: xs:token
equalcolumns	derived by: xs:token
equalrows	derived by: xs:token
fence	derived by: xs:token
form	derived by: xs:token
frame	m:linestyle
framespacing	derived by: m:length
groupalign	m:group-alignment-list-list
height	m:length
indentalign	derived by: xs:token
indentalignfirst	derived by: xs:token
indentalignlast	derived by: xs:token
indentshift	m:length
indentshiftfirst	derived by: m:length
indentshiftlast	derived by: m:length
indenttarget	
largeop	derived by: xs:token
leftoverhang	m:length

length	m:unsigned-integer
linebreak	derived by: xs:token
linebreakmultchar	
linebreakstyle	derived by: xs:token
lineleading	m:length
linethickness	derived by: m:length
location	derived by: xs:token
longdivstyle	derived by: xs:token
lquote	
lspace	m:length
mathsize	derived by: m:length
mathvariant	derived by: xs:token
maxsize	derived by: m:length
minlabelspacing	m:length
minsize	m:length
movablelimits	derived by: xs:token
mslinethickness	derived by: m:length
notation	
numalign	derived by: xs:token
open	
position	m:integer
rightoverhang	m:length
rowalign	derived by: xs:list
rowlines	derived by: xs:list
rowspacing	derived by: xs:list
rowspan	m:positive-integer
rquote	
rspace	m:length
selection	m:positive-integer
separator	derived by: xs:token
separators	
shift	m:integer
side	derived by: xs:token
stackalign	derived by: xs:token
stretchy	derived by: xs:token
subscriptshift	m:length
superscriptshift	m:length
symmetric	derived by: xs:token
valign	m:length

	width id xref class style href other display maxwidth overflow altimg altimg-width altimg-height altimg-valign alttext cdgroup mode macros m:length xs:ID xs:NMTOKENS xs:string xs:anyURI derived by: xs:token m:length derived by: xs:token xs:anyURI m:length m:length derived by: m:length xs:anyURI xs:string xs:string
source	<pre> <xs:attributeGroup name="math.attributes"> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attributeGroup ref="m:mstyle.specificattributes"/> <xs:attributeGroup ref="m:mstyle.generalattributes"/> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attribute name="display"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="block"/> <xs:enumeration value="inline"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="maxwidth" type="m:length"/> <xs:attribute name="overflow"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="linebreak"/> <xs:enumeration value="scroll"/> <xs:enumeration value="elide"/> <xs:enumeration value="truncate"/> <xs:enumeration value="scale"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="altimg" type="xs:anyURI"/> <xs:attribute name="altimg-width" type="m:length"/> <xs:attribute name="altimg-height" type="m:length"/> <xs:attribute name="altimg-valign"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> </pre>

	<pre> <xs:enumeration value="top"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="middle"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="bottom"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> <xs:attribute name="alttext"/> <xs:attribute name="cdgroup" type="xs:anyURI"/> <xs:attributeGroup ref="m:math.deprecatedattributes"/> </xs:attributeGroup> </pre>

attribute **math.attributes/@display**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	block	
	enumeration	inline	
source	<pre> <xs:attribute name="display"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="block"/> <xs:enumeration value="inline"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **math.attributes/@maxwidth**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9])[0-9]*([e[mx] in cm mm p xtc] %?)))(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="maxwidth" type="m:length"/>		

attribute **math.attributes/@overflow**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	linebreak	
	enumeration	scroll	
	enumeration	elide	

	enumeration truncate enumeration scale
source	<pre> <xs:attribute name="overflow"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="linebreak"/> <xs:enumeration value="scroll"/> <xs:enumeration value="elide"/> <xs:enumeration value="truncate"/> <xs:enumeration value="scale"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **math.attributes/@altimg**

type	xs:anyURI
source	<pre><xs:attribute name="altimg" type="xs:anyURI"/></pre>

attribute **math.attributes/@altimg-width**

attribute mathspace@altimg-width				
type	m:length			
facets	Kind	Value	Annotation	
	pattern	\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*		
source	<xs:attribute name="altimg-width" type="m:length"/>			

attribute **math.attributes/@altimg-height**

type	m:length		
facets	Kind	Value	Annotation
	pattern	<code>\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code>	
source	<code><xs:attribute name="altimg-height" type="m:length"/></code>		

attribute **math.attributes/@altimg-valign**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)
source	<pre> <xs:attribute name="altimg-valign"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="top"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="middle"/> </xs:restriction> </pre>

	<pre> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="bottom"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **math.attributes/@alttext**

source	<pre><xs:attribute name="alttext"/></pre>

attribute **math.attributes/@cdgroup**

type	xs:anyURI
source	<pre><xs:attribute name="cdgroup" type="xs:anyURI"/></pre>

attributeGroup **menclose.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element menclose					
attributes	Name Type Use Default Fixed Annotation id xs:ID xref class xs:NMTOKENS style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color notation					
source	<pre><xs:attributeGroup name="menclose.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="notation"/> </xs:attributeGroup></pre>					

attribute **menclose.attributes/@notation**

source	<pre><xs:attribute name="notation"/></pre>

attributeGroup **merror.attributes**

namespace	http://www.w3.org/1998/Math/MathML

used by	element merror					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
source	<pre><xs:attributeGroup name="merror.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> </xs:attributeGroup></pre>					

attributeGroup mfenced.attributes

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mfenced					
attributes	Name id xref class style href other mathcolor mathbackground open close separators	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="mfenced.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="open"/> <xs:attribute name="close"/> <xs:attribute name="separators"/> </xs:attributeGroup></pre>					

attribute mfenced.attributes/@open

source	<pre><xs:attribute name="open"/></pre>

attribute mfenced.attributes/@close

source	<pre><xs:attribute name="close"/></pre>

attribute **mfenced.attributes/@separators**

source	<code><xs:attribute name="separators"/></code>

attributeGroup **mfrac.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mfrac					
attributes	Name id xref class style href other mathcolor mathbackground linethickness numalign denomalign bevelled	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="mfrac.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="linethickness"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thin"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thick"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> <xs:attribute name="numalign"> <xs:simpleType> <xs:restriction base="xs:token"></pre>					

	<pre> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="denomalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="bevelled"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **mfrac.attributes/@linethickness**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)
source	<pre> <xs:attribute name="linethickness"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thin"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thick"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mfrac.attributes/@numalign**

type	restriction of xs:token

facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
source	<pre> <xs:attribute name="numalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mfrac.attributes/@denomalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
source	<pre> <xs:attribute name="denomalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mfrac.attributes/@bevelled**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="bevelled"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attributeGroup **mglyph.attributes**

namespace	http://www.w3.org/1998/Math/MathML

used by	element mglyph					
attributes	Name id xref class style href other mathcolor mathbackground src width height valign alt	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color xs:anyURI m:length m:length m:length	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="mglyph.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="src" type="xs:anyURI"/> <xs:attribute name="width" type="m:length"/> <xs:attribute name="height" type="m:length"/> <xs:attribute name="valign" type="m:length"/> <xs:attribute name="alt"/> </xs:attributeGroup></pre>					

attribute **mglyph.attributes/@src**

type	xs:anyURI
source	<pre><xs:attribute name="src" type="xs:anyURI"/></pre>

attribute **mglyph.attributes/@width**

type	m:length		
facets	Kind	Value	Annotation
	pattern	<code>\s*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mm] in cm mm p[xtc] %?))((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code>	
source	<code><xs:attribute name="width" type="m:length"/></code>		

attribute **mglyph.attributes/@height**

attribute: m:length				
type	m:length			
facets	Kind	Value	Annotation	
	pattern	\s*((-?[0-9]*([0-9]\.?\.[0-9])[0-9]*([e[mx] in cm mm p[xtc] %)?))((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*		
source	<xs:attribute name="height" type="m:length"/>			

attribute **mglyph.attributes/@valign**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[fm] in cm mm p[xtc] %?))((negative)?((very){0,2}thi(n)ck) medium)mathspace)\s*	
source	<xs:attribute name="valign" type="m:length"/>		

attribute **mglyph.attributes/@alt**

source	<xs:attribute name="alt"/>

attributeGroup **mglyph.deprecatedattributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mglyph				
attributes	Name	Type	Use	Default	Fixed	Annotation
	index	m:integer				
	mathvariant	derived by: xs:token				
	mathsize	derived by: m:length				
	fontfamily					
	fontweight	derived by: xs:token				
	fontstyle	derived by: xs:token				
	fontsize	m:length				
	color	m:color				
	background	derived by: m:color				
source	<xs:attributeGroup name="mglyph.deprecatedattributes"> <xs:attribute name="index" type="m:integer"/> <xs:attribute name="mathvariant"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="bold"/> <xs:enumeration value="italic"/> <xs:enumeration value="bold-italic"/> <xs:enumeration value="double-struck"/> <xs:enumeration value="bold-fraktur"/> <xs:enumeration value="script"/> <xs:enumeration value="bold-script"/> <xs:enumeration value="fraktur"/> <xs:enumeration value="sans-serif"/> <xs:enumeration value="bold-sans-serif"/> <xs:enumeration value="sans-serif-italic"/> <xs:enumeration value="sans-serif-bold-italic"/> <xs:enumeration value="monospace"/> <xs:enumeration value="initial"/> <xs:enumeration value="tailed"/> <xs:enumeration value="looped"/> <xs:enumeration value="stretched"/> </xs:restriction>					

	<pre> </xs:simpleType> </xs:attribute> <xs:attribute name="mathsize"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="small"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="big"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> <xs:attributeGroup ref="m:DeprecatedTokenAtt"/> </xs:attributeGroup> </pre>

attribute **mglyph.deprecatedattributes/@index**

type	m:integer
source	<code><xs:attribute name="index" type="m:integer"/></code>

attribute **mglyph.deprecatedattributes/@mathvariant**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	normal	
	enumeration	bold	
	enumeration	italic	
	enumeration	bold-italic	
	enumeration	double-struck	
	enumeration	bold-fraktur	
	enumeration	script	
	enumeration	bold-script	
	enumeration	fraktur	
	enumeration	sans-serif	
	enumeration	bold-sans-serif	
	enumeration	sans-serif-italic	
	enumeration	sans-serif-bold-italic	
	enumeration	monospace	
	enumeration	initial	

	enumeration tailed enumeration looped enumeration stretched
source	<pre> <xs:attribute name="mathvariant"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="bold"/> <xs:enumeration value="italic"/> <xs:enumeration value="bold-italic"/> <xs:enumeration value="double-struck"/> <xs:enumeration value="bold-fraktur"/> <xs:enumeration value="script"/> <xs:enumeration value="bold-script"/> <xs:enumeration value="fraktur"/> <xs:enumeration value="sans-serif"/> <xs:enumeration value="bold-sans-serif"/> <xs:enumeration value="sans-serif-italic"/> <xs:enumeration value="sans-serif-bold-italic"/> <xs:enumeration value="monospace"/> <xs:enumeration value="initial"/> <xs:enumeration value="tailed"/> <xs:enumeration value="looped"/> <xs:enumeration value="stretched"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mglyph.deprecatedattributes/@mathsize**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)
source	<pre> <xs:attribute name="mathsize"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="small"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="big"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attributeGroup **mi.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mi					
attributes	Name id xref class style href other mathcolor mathbackground mathvariant mathsize dir fontfamily fontweight fontstyle fontsize color background	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token derived by: m:length m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="mi.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attributeGroup ref="m:TokenAtt"/> </xs:attributeGroup></pre>					

attributeGroup **mlabeledtr.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mlabeledtr					
attributes	Name id xref class style href other mathcolor mathbackground rowalign columnalign	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: xs:list	Use	Default	Fixed	Annotation

	groupalign m:group-alignment-list-list
source	<pre> <xs:attributeGroup name="mlabeledtr.attributes"> <xs:attributeGroup ref="m:mtr.attributes"/> </xs:attributeGroup> </pre>

attributeGroup **mlongdiv.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mlongdiv					
attributes	Name id xref class style href other mathcolor mathbackground position shift longdivstyle	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer derived by: m:integer derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="mlongdiv.attributes"> <xs:attributeGroup ref="m:msgroup.attributes"/> <xs:attribute name="longdivstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="lefttop"/> <xs:enumeration value="stackedrightright"/> <xs:enumeration value="mediumstackedrightright"/> <xs:enumeration value="shortstackedrightright"/> <xs:enumeration value="righttop"/> <xs:enumeration value="left\right"/> <xs:enumeration value="left)(right"/> <xs:enumeration value=":right=right"/> <xs:enumeration value="stackedleftleft"/> <xs:enumeration value="stackedleftlinetop"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>					

attribute **mlongdiv.attributes/@longdivstyle**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	lefttop	
	enumeration	stackedrightright	

	enumeration mediumstackedrightright enumeration shortstackedrightright enumeration rightright enumeration left\right enumeration left)(right enumeration :right=right enumeration stackedleftleft enumeration stackedleftlinetop
source	<pre> <xs:attribute name="longdivstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="lefttop"/> <xs:enumeration value="stackedrightright"/> <xs:enumeration value="mediumstackedrightright"/> <xs:enumeration value="shortstackedrightright"/> <xs:enumeration value="rightright"/> <xs:enumeration value="left\right"/> <xs:enumeration value="left)(right"/> <xs:enumeration value=":right=right"/> <xs:enumeration value="stackedleftleft"/> <xs:enumeration value="stackedleftlinetop"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attributeGroup **mmultiscripts.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mmultiscripts				
attributes	Name id xref class style href other mathcolor mathbackground subscriptshift superscriptshift	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:length m:length	Use	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="mmultiscripts.attributes"> <xs:attributeGroup ref="m:msubsup.attributes"/> </xs:attributeGroup> </pre>					

attributeGroup **mn.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mn				

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	mathvariant	derived by: xs:token				
	mathsize	derived by: m:length				
	dir	derived by: xs:token				
	fontfamily					
	fontweight	derived by: xs:token				
	fontstyle	derived by: xs:token				
	fontsize	m:length				
	color	m:color				
	background	derived by: m:color				
source	<pre> <xs:attributeGroup name="mn.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attributeGroup ref="m:TokenAtt"/> </xs:attributeGroup> </pre>					

attributeGroup **mo.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mo				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	mathvariant	derived by: xs:token				
	mathsize	derived by: m:length				
	dir	derived by: xs:token				
	fontfamily					
	fontweight	derived by: xs:token				
	fontstyle	derived by: xs:token				

	fontsize m:length color m:color background derived by: m:color form derived by: xs:token fence derived by: xs:token separator derived by: xs:token lspace m:length rspace m:length stretchy derived by: xs:token symmetric derived by: xs:token maxsize derived by: m:length minsize m:length largeop derived by: xs:token movablelimits derived by: xs:token accent derived by: xs:token linebreak derived by: xs:token lineleading m:length linebreakstyle derived by: xs:token linebreakmultchar indentalign derived by: xs:token indentshift m:length indenttarget indentalignfirst derived by: xs:token indentshiftfirst derived by: m:length indentalignlast derived by: xs:token indentshiftlast derived by: m:length
source	<pre> <xs:attributeGroup name="mo.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attributeGroup ref="m:TokenAtt"/> <xs:attribute name="form"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="prefix"/> <xs:enumeration value="infix"/> <xs:enumeration value="postfix"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="fence"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> </pre>

```

        <xs:enumeration value="false"/>
    </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="separator">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="lspace" type="m:length"/>
<xs:attribute name="rspace" type="m:length"/>
<xs:attribute name="stretchy">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="symmetric">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="maxsize">
    <xs:simpleType>
        <xs:union memberTypes="m:length">
            <xs:simpleType>
                <xs:restriction base="xs:token">
                    <xs:enumeration value="infinity"/>
                </xs:restriction>
            </xs:simpleType>
        </xs:union>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="minsize" type="m:length"/>
<xs:attribute name="largeop">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="movablelimits">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>

```

```

</xs:simpleType>
</xs:attribute>
<xs:attribute name="accent">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="linebreak">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="auto"/>
      <xs:enumeration value="newline"/>
      <xs:enumeration value="nobreak"/>
      <xs:enumeration value="goodbreak"/>
      <xs:enumeration value="badbreak"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="lineleading" type="m:length"/>
<xs:attribute name="linebreakstyle">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="before"/>
      <xs:enumeration value="after"/>
      <xs:enumeration value="duplicate"/>
      <xs:enumeration value="infixlinebreakstyle"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="linebreakmultchar"/>
<xs:attribute name="indentalign">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="auto"/>
      <xs:enumeration value="id"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentshift" type="m:length"/>
<xs:attribute name="indenttarget"/>
<xs:attribute name="indentalignfirst">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="auto"/>
      <xs:enumeration value="id"/>
      <xs:enumeration value="indentalign"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

```

	<pre> </xs:simpleType> </xs:attribute> <xs:attribute name="indentshiftfirst"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> <xs:attribute name="indentalignlast"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="indentshiftlast"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **mo.attributes/@form**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	prefix	
	enumeration	infix	
	enumeration	postfix	
source	<pre><xs:attribute name="form"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="prefix"/> <xs:enumeration value="infix"/> <xs:enumeration value="postfix"/> </xs:restriction> </xs:simpleType></pre>		

	<code></xs:attribute></code>

attribute **mo.attributes/@fence**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="fence"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mo.attributes/@separator**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="separator"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mo.attributes/@lspace**

attribute: <code>xmlns:mathspace="lspace"</code>				
type	m:length			
facets	Kind	Value	Annotation	
	pattern	\s*((-[0-9]*([0-9]\.?\.[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*		
source	<xs:attribute name="lspace" type="m:length"/>			

attribute **mo.attributes/@rspace**

attribute: m:mathspace@rspace			
type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?\.[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="rspace" type="m:length"/>		

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="stretchy"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="symmetric"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

type	union of (m:length , restriction of xs:token)
source	<pre> <xs:attribute name="maxsize"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="infinity"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

type	m:length		
facets	Kind pattern	Value <code>\s*((-?[0-9]*([0-9]\.?[0-9])?[0-9]*([e mx] in cm mm p xtc) %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code>	Annotation

source	<code><xs:attribute name="minsize" type="m:length"/></code>

attribute **mo.attributes/@largeop**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="largeop"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mo.attributes/@movablelimits**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="movablelimits"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mo.attributes/@accent**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="accent"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mo.attributes/@linebreak**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	auto	
	enumeration	newline	
	enumeration	nobreak	
	enumeration	goodbreak	
	enumeration	badbreak	
source	<pre> <xs:attribute name="linebreak"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="auto"/> <xs:enumeration value="newline"/> <xs:enumeration value="nobreak"/> <xs:enumeration value="goodbreak"/> <xs:enumeration value="badbreak"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mo.attributes/@lineleading**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*([e][m x] i[n] c[m] m[m] p[xtc] %?))((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="lineleading" type="m:length"/>		

attribute **mo.attributes/@linebreakstyle**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	before	
	enumeration	after	
	enumeration	duplicate	
	enumeration	infixlinebreakstyle	
source	<pre> <xs:attribute name="linebreakstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="before"/> <xs:enumeration value="after"/> <xs:enumeration value="duplicate"/> <xs:enumeration value="infixlinebreakstyle"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mo.attributes/@linebreakmultchar**

source	<xs:attribute name="linebreakmultchar"/>

attribute **mo.attributes/@indentalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	auto	
	enumeration	id	
source	<pre><xs:attribute name="indentalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mo.attributes/@indentshift**

type	m:length		
facets	Kind pattern	Value \s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[<i>mxj</i>] in cm mm p[<i>xtc</i>] %?))((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	Annotation
source	<xs:attribute name="indentshift" type="m:length"/>		

attribute **mo.attributes/@indenttarget**

source	<xs:attribute name="indenttarget"/>

attribute **mo.attributes/@indentalignfirst**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	auto	
	enumeration	id	
	enumeration	indentalign	
source	<xs:attribute name="indentalignfirst"> <xs:simpleType>		

	<pre> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mo.attributes/@indentshiftfirst**

type	union of (m:length , restriction of xs:token)
source	<pre> <xs:attribute name="indentshiftfirst"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mo.attributes/@indentalignlast**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	auto	
	enumeration	id	
	enumeration	indentalign	
source	<pre><xs:attribute name="indentalignlast"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mo.attributes/@indentshiftlast**

type	union of (m:length , restriction of xs:token)
source	<pre> <xs:attribute name="indentshiftlast"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attributeGroup **mover.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mover					
attributes	Name id Type xs:ID Use Default Fixed Annotation					
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	accent	derived by: xs:token				
	align	derived by: xs:token				
source	<pre> <xs:attributeGroup name="mover.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="accent"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="center"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>					

	</xs:attributeGroup>

attribute **mover.attributes/@accent**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="accent"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mover.attributes/@align**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
	enumeration	center	
source	<pre><xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="center"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attributeGroup **mpadded.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mpadded					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color m:mpadded-length				
	height					

	depth width lspace voffset	m:mpadded-length m:mpadded-length m:mpadded-length m:mpadded-length
source	<pre><xs:attributeGroup name="mpadded.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="height" type="m:mpadded-length"/> <xs:attribute name="depth" type="m:mpadded-length"/> <xs:attribute name="width" type="m:mpadded-length"/> <xs:attribute name="lspace" type="m:mpadded-length"/> <xs:attribute name="voffset" type="m:mpadded-length"/> </xs:attributeGroup></pre>	

attribute **mpadded.attributes/@height**

type	m:mpadded-length		
facets	Kind	Value	Annotation
	pattern	$\backslash s^*([\backslash -]?[0-9]^*([0-9]\backslash .?[\backslash .[0-9]])[0-9]^*\backslash s^*((\%?\backslash s^*(height depth width)?)[e[mx]] in cm mm p[xtc]) ((negative)?((very){0,2}thi(n ck) medium)maths\pace))^?)\backslash s^*$	
source	<code><xs:attribute name="height" type="m:mpadded-length"/></code>		

attribute **mpadded.attributes/@depth**

type	m:mpadded-length		
facets	Kind	Value	Annotation
	pattern	\s*([+-]?[0-9]*([0-9]\.?[0-9])? 0-9]\s*((%?\s*(height depth width)?)[e[mx]] in cm mm p[xtc]) ((negative)?((very){0,2}thin ck) medium)mathspace))?\s*	
source	<xs:attribute name="depth" type="m:mpadded-length"/>		

attribute **mpadded.attributes/@width**

type	m:mpadded-length		
facets	Kind	Value	Annotation
	pattern	\s*([+-]?[0-9]*([0-9]\.?\.[0-9])[0-9]*\s*((%?\s*(height depth width)?)[e[mx] in cm mm p[xtc]) ((negative)?((very){0,2}thi(n ck) medium)mathspace))?\s*	
source	<xs:attribute name="width" type="m:mpadded-length"/>		

attribute **mpadded.attributes/@lspace**

type	m:mpadded-length		

facets	Kind	Value	Annotation
	pattern	<code>\s*([+-]?[0-9]*([0-9]\.?[0-9])?[0-9]*\s*((%?\s*(height depth width pace))?)\s*</code>	
source	<code><xs:attribute name="lspace" type="m:mpadded-length"/></code>		

attribute **mpadded.attributes/@voffset**

type	m:mpadded-length		
facets	Kind	Value	Annotation
	pattern	<code>\s*([+-]?[0-9]*([0-9]\.?[0-9])?[0-9]*\s*((%?\s*(height depth width pace))?)\s*</code>	
source	<code><xs:attribute name="voffset" type="m:mpadded-length"/></code>		

attributeGroup **mphantom.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mphantom				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
source	<code><xs:attributeGroup name="mphantom.attributes"></code> <code><xs:attributeGroup ref="m:CommonAtt"/></code> <code><xs:attributeGroup ref="m:CommonPresAtt"/></code> <code></xs:attributeGroup></code>					

attributeGroup **mprescripts.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mprescripts				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				

	mathbackground derived by: m:color
source	<pre> <xs:attributeGroup name="mprescripts.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> </xs:attributeGroup> </pre>

attributeGroup mroot.attributes

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mroot					
attributes	Name id xref class style href other mathcolor mathbackground	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color	Use	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="mroot.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> </xs:attributeGroup> </pre>					

attributeGroup mrow.attributes

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mrow					
attributes	Name id xref class style href other mathcolor mathbackground dir	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="mrow.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="dir"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="ltr"/> <xs:enumeration value="rtl"/> </pre>					

	</xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup>

attribute **mrow.attributes/@dir**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	ltr	
	enumeration	rtl	
source	<pre><xs:attribute name="dir"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="ltr"/> <xs:enumeration value="rtl"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attributeGroup **ms.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element ms					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	mathvariant	derived by: xs:token				
	mathsize	derived by: m:length				
	dir	derived by: xs:token				
	fontfamily					
	fontweight	derived by: xs:token				
	fontstyle	derived by: xs:token				
	fontsize	m:length				
	color	m:color				
	background	derived by: m:color				
	lquote					
	rquote					
source	<xs:attributeGroup name="ms.attributes">					

	<pre> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attributeGroup ref="m:TokenAtt"/> <xs:attribute name="lquote"/> <xs:attribute name="rquote"/> </xs:attributeGroup> </pre>

attribute **ms.attributes/@lquote**

source	<pre><xs:attribute name="lquote"/></pre>

attribute **ms.attributes/@rquote**

source	<pre><xs:attribute name="rquote"/></pre>

attributeGroup **mscarries.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mscarries					
attributes	Name id xref class style href other mathcolor mathbackground position location crossout scriptsize multiplier	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer derived by: xs:token derived by: xs:token m:number	Use	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="mscarries.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="position" type="m:integer"/> <xs:attribute name="location"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="w"/> <xs:enumeration value="nw"/> <xs:enumeration value="n"/> <xs:enumeration value="ne"/> <xs:enumeration value="e"/> <xs:enumeration value="se"/> <xs:enumeration value="s"/> <xs:enumeration value="sw"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>					

	<pre> </xs:simpleType> </xs:attribute> <xs:attribute name="crossout"> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="none"/> <xs:enumeration value="updiagonalstrike"/> <xs:enumeration value="downdiagonalstrike"/> <xs:enumeration value="verticalstrike"/> <xs:enumeration value="horizontalstrike"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> </xs:attribute> <xs:attribute name="scriptsizemultiplier" type="m:number"/> </xs:attributeGroup> </pre>

attribute **mscarries.attributes/@position**

type	m:integer
source	<pre><xs:attribute name="position" type="m:integer"/></pre>

attribute **mscarries.attributes/@location**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	w	
	enumeration	nw	
	enumeration	n	
	enumeration	ne	
	enumeration	e	
	enumeration	se	
	enumeration	s	
enumeration	sw		
source	<pre><xs:attribute name="location"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="w"/> <xs:enumeration value="nw"/> <xs:enumeration value="n"/> <xs:enumeration value="ne"/> <xs:enumeration value="e"/> <xs:enumeration value="se"/> <xs:enumeration value="s"/> <xs:enumeration value="sw"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute mscarries.attributes/@crossout

type	list of (restriction of xs:token)
source	<pre> <xs:attribute name="crossout"> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="none"/> <xs:enumeration value="updiagonalstrike"/> <xs:enumeration value="downdiagonalstrike"/> <xs:enumeration value="verticalstrike"/> <xs:enumeration value="horizontalstrike"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> </xs:attribute> </pre>

attribute mscarries.attributes/@scriptsizemultiplier

type	m:number
source	<pre> <xs:attribute name="scriptsizemultiplier" type="m:number"/> </pre>

attributeGroup mscarry.attributes

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mscarry					
attributes	Name id xref class style href other mathcolor mathbackground location crossout	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: xs:token	Use	Default	Fixed	Annotation
source	<pre> <xs:attributeGroup name="mscarry.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="location"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="w"/> <xs:enumeration value="nw"/> </pre>					

	<pre> <xs:enumeration value="n"/> <xs:enumeration value="ne"/> <xs:enumeration value="e"/> <xs:enumeration value="se"/> <xs:enumeration value="s"/> <xs:enumeration value="sw"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="crossout"> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="none"/> <xs:enumeration value="updiagonalstrike"/> <xs:enumeration value="downdiagonalstrike"/> <xs:enumeration value="verticalstrike"/> <xs:enumeration value="horizontalstrike"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **mscarry.attributes/@location**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	w	
	enumeration	nw	
	enumeration	n	
	enumeration	ne	
	enumeration	e	
	enumeration	se	
	enumeration	s	
	enumeration	sw	
source	<pre> <xs:attribute name="location"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="w"/> <xs:enumeration value="nw"/> <xs:enumeration value="n"/> <xs:enumeration value="ne"/> <xs:enumeration value="e"/> <xs:enumeration value="se"/> <xs:enumeration value="s"/> <xs:enumeration value="sw"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mscarry.attributes/@crossout**

type	list of (restriction of xs:token)
source	<pre> <xs:attribute name="crossout"> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="none"/> <xs:enumeration value="updiagonalstrike"/> <xs:enumeration value="downdiagonalstrike"/> <xs:enumeration value="verticalstrike"/> <xs:enumeration value="horizontalstrike"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> </xs:attribute> </pre>

attributeGroup **msgroup.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element msgroup attributeGroup mlongdiv.attributes					
attributes	Name id xref class style href other mathcolor mathbackground position shift	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer m:integer	Use	Default	Fixed	Annotation
source	<xs:attributeGroup name="msgroup.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="position" type="m:integer"/> <xs:attribute name="shift" type="m:integer"/> </xs:attributeGroup>					

attribute **msgroup.attributes/@position**

type	m:integer
source	<pre><xs:attribute name="position" type="m:integer"/></pre>

attribute **msgroup.attributes/@shift**

type	m:integer
source	<code><xs:attribute name="shift" type="m:integer"/></code>

attributeGroup **msline.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element msline					
attributes	Name id Type xs:ID Use Default Fixed Annotation					
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	position	m:integer				
	length	m:unsigned-integer				
	leftoverhang	m:length				
	rightoverhang	m:length				
	mslinethickness	derived by: m:length				
source	<pre> <xs:attributeGroup name="msline.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="position" type="m:integer"/> <xs:attribute name="length" type="m:unsigned-integer"/> <xs:attribute name="leftoverhang" type="m:length"/> <xs:attribute name="rightoverhang" type="m:length"/> <xs:attribute name="mslinethickness"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thin"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thick"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>					

	<code></xs:attribute></code> <code></xs:attributeGroup></code>

attribute **msline.attributes/@position**

type	m:integer
source	<code><xs:attribute name="position" type="m:integer"/></code>

attribute **msline.attributes/@length**

type	m:unsigned-integer
source	<code><xs:attribute name="length" type="m:unsigned-integer"/></code>

attribute **msline.attributes/@leftoverhang**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx]i in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="leftoverhang" type="m:length"/>		

attribute **msline.attributes/@rightoverhang**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[fm] in cm mm p[xtc] %?))(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="rightoverhang" type="m:length"/>		

attribute **msline.attributes/@mslinethickness**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)		
source	<code><xs:attribute name="mslinethickness"></code> <code><xs:simpleType></code> <code><xs:union memberTypes="m:length"></code> <code><xs:simpleType></code> <code><xs:restriction base="xs:token"></code> <code><xs:enumeration value="thin"/></code> <code></xs:restriction></code> <code></xs:simpleType></code> <code><xs:simpleType></code> <code><xs:restriction base="xs:token"></code> <code><xs:enumeration value="medium"/></code> <code></xs:restriction></code> <code></xs:simpleType></code> <code><xs:simpleType></code> <code><xs:restriction base="xs:token"></code> <code><xs:enumeration value="thick"/></code> <code></xs:restriction></code>		

	</xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute>

attributeGroup **mSPACE.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mSPACE					
attributes	Name id xref class style href other mathcolor mathbackground mathvariant mathsize dir fontfamily fontweight fontstyle fontsize color background width height depth linebreak indentalign indentshift indenttarget indentalignfirst indentshiftfirst indentalignlast indentshiftlast	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color derived by: xs:token derived by: m:length derived by: xs:token derived by: xs:token derived by: xs:token m:length m:color derived by: m:color m:length m:length m:length derived by: xs:token derived by: xs:token m:length derived by: xs:token derived by: m:length derived by: xs:token derived by: m:length	Use	Default	Fixed	Annotation
source	$\text{<xs:attributeGroup name="mSPACE.attributes">}$ $\text{<xs:attributeGroup ref="m:CommonAtt"/>}$ $\text{<xs:attributeGroup ref="m:CommonPresAtt"/>}$ $\text{<xs:attributeGroup ref="m:TokenAtt"/>}$ $\text{<xs:attribute name="width" type="m:length"/>}$					

```

<xs:attribute name="height" type="m:length"/>
<xs:attribute name="depth" type="m:length"/>
<xs:attribute name="linebreak">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="auto"/>
      <xs:enumeration value="newline"/>
      <xs:enumeration value="nobreak"/>
      <xs:enumeration value="goodbreak"/>
      <xs:enumeration value="badbreak"/>
      <xs:enumeration value="indentingnewline"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentalign">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="auto"/>
      <xs:enumeration value="id"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentshift" type="m:length"/>
<xs:attribute name="indenttarget"/>
<xs:attribute name="indentalignfirst">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="auto"/>
      <xs:enumeration value="id"/>
      <xs:enumeration value="indentalign"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentshiftfirst">
  <xs:simpleType>
    <xs:union memberTypes="m:length">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="indentshift"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentalignlast">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>

```

	<pre> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="indentshiftlast"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **mspace.attributes/@width**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx]i[n]cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n)ck medium)mathspace)\s*	
source	<xs:attribute name="width" type="m:length"/>		

attribute **mspace.attributes/@height**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx]i[n]cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n)ck medium)mathspace)\s*	
source	<xs:attribute name="height" type="m:length"/>		

attribute **mspace.attributes/@depth**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n)ck medium)mathspace)\s*	
source	<xs:attribute name="depth" type="m:length"/>		

attribute **mspace.attributes/@linebreak**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	auto	
	enumeration	newline	
	enumeration	nobreak	
	enumeration	goodbreak	

	enumeration badbreak enumeration indentingnewline
source	<pre> <xs:attribute name="linebreak"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="auto"/> <xs:enumeration value="newline"/> <xs:enumeration value="nobreak"/> <xs:enumeration value="goodbreak"/> <xs:enumeration value="badbreak"/> <xs:enumeration value="indentingnewline"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mspace.attributes/@indentalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	auto	
	enumeration	id	
source	<pre> <xs:attribute name="indentalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mspace.attributes/@indentshift**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9])?[0-9]*([e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="indentshift" type="m:length"/>		

attribute **mspace.attributes/@indenttarget**

source	<pre> <xs:attribute name="indenttarget"/> </pre>

attribute **mspace.attributes/@indentalignfirst**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	auto	
	enumeration	id	
	enumeration	indentalign	
source	<pre><xs:attribute name="indentalignfirst"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mspace.attributes/@indentshiftfirst**

type	union of (m:length , restriction of xs:token)
source	<pre> <xs:attribute name="indentshiftfirst"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mspace.attributes/@indentalignlast**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	auto	
	enumeration	id	
	enumeration	indentalign	
source	<xs:attribute name="indentalignlast"> <xs:simpleType> <xs:restriction base="xs:token">		

	<pre> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mspace.attributes/@indentshiftlast**

type	union of (m:length , restriction of xs:token)
source	<pre> <xs:attribute name="indentshiftlast"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attributeGroup **msqrt.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element msqrt					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
source	<xs:attributeGroup name="msqrt.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> </xs:attributeGroup>					

attributeGroup **msrow.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element msrow					
attributes	Name Type Use Default Fixed Annotation					

	id xs:ID xref class xs:NMTOKENS style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color m:integer position m:integer
source	<pre><xs:attributeGroup name="msrow.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="position" type="m:integer"/> </xs:attributeGroup></pre>

attribute **msrow.attributes/@position**

type	m:integer
source	<pre><xs:attribute name="position" type="m:integer"/></pre>

attributeGroup **mstack.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mstack				
attributes	Name id xs:ID xref class xs:NMTOKENS style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color align derived by: xs:string stackalign derived by: xs:token charalign derived by: xs:token charspacing derived by: m:length	Type	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="mstack.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="\s*(top bottom center baseline axis)(\s+-?[0-9]+)?\s*" /> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup></pre>					

	<pre> </xs:simpleType> </xs:attribute> <xs:attribute name="stackalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="decimalpoint"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="charalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="charspacing"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="loose"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="tight"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **mstack.attributes/@align**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	pattern	\s*(top bottom center baseline axis)(\s+-?[0-9]+)?\s*	
source	<xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="\s*(top bottom center baseline axis)(\s+-?[0-9]+)?\s*" /> </xs:restriction> </xs:simpleType> </xs:attribute>		

	<code></xs:simpleType></code> <code></xs:attribute></code>

attribute **mstack.attributes/@stackalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	decimalpoint	
source	<code><xs:attribute name="stackalign"></code> <code><xs:simpleType></code> <code><xs:restriction base="xs:token"></code> <code><xs:enumeration value="left"/></code> <code><xs:enumeration value="center"/></code> <code><xs:enumeration value="right"/></code> <code><xs:enumeration value="decimalpoint"/></code> <code></xs:restriction></code> <code></xs:simpleType></code> <code></xs:attribute></code>		

attribute **mstack.attributes/@charalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
source	<code><xs:attribute name="charalign"></code> <code><xs:simpleType></code> <code><xs:restriction base="xs:token"></code> <code><xs:enumeration value="left"/></code> <code><xs:enumeration value="center"/></code> <code><xs:enumeration value="right"/></code> <code></xs:restriction></code> <code></xs:simpleType></code> <code></xs:attribute></code>		

attribute **mstack.attributes/@charspacing**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)		
source	<code><xs:attribute name="charspacing"></code> <code><xs:simpleType></code> <code><xs:union memberTypes="m:length"></code> <code><xs:simpleType></code> <code><xs:restriction base="xs:token"></code> <code><xs:enumeration value="loose"/></code> <code></xs:restriction></code> <code></xs:simpleType></code>		

	<pre> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="tight"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attributeGroup **mstyle.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mstyle					
attributes	Name id xref class style href other mathcolor mathbackground scriptlevel displaystyle scriptsizemultiplier scriptminsize infixlinebreakstyle decimalpoint accent accentunder align alignmentscope bevelled charalign charspacing close columnalign columnlines columnspacing	Type xs:ID xs:NMTOKENS xs:string xs:anyURI m:color derived by: m:color m:integer derived by: xs:token m:number m:length derived by: xs:token m:character derived by: xs:token derived by: xs:token derived by: xs:token derived by: xs:token derived by: xs:token derived by: m:length derived by: xs:list derived by: xs:list derived by: xs:list	Use	Default	Fixed	Annotation

columnspan	m:positive-integer
columnwidth	derived by: m:length
crossout	derived by: xs:token
denomalign	derived by: xs:token
depth	m:length
dir	derived by: xs:token
edge	derived by: xs:token
equalcolumns	derived by: xs:token
equalrows	derived by: xs:token
fence	derived by: xs:token
form	derived by: xs:token
frame	m:linestyle
framespacing	derived by: m:length
groupalign	m:group-alignment-list-list
height	m:length
indentalign	derived by: xs:token
indentalignfirst	derived by: xs:token
indentalignlast	derived by: xs:token
indentshift	m:length
indentshiftfirst	derived by: m:length
indentshiftlast	derived by: m:length
indenttarget	
largeop	derived by: xs:token
leftoverhang	m:length
length	m:unsigned-integer
linebreak	derived by: xs:token
linebreakmultchar	
linebreakstyle	derived by: xs:token
lineleading	m:length
linethickness	derived by: m:length
location	derived by: xs:token
longdivstyle	derived by: xs:token
lquote	
lspace	m:length
mathsize	derived by: m:length
mathvariant	derived by: xs:token
maxsize	derived by: m:length

	minlabelspacing	m:length
	minsize	m:length
	movablelimits	derived by: xs:token
	mslinethickness	derived by: m:length
	notation	
	numalign	derived by: xs:token
	open	
	position	m:integer
	rightoverhang	m:length
	rowalign	derived by: xs:list
	rowlines	derived by: xs:list
	rowspacing	derived by: xs:list
	rowspan	m:positive-integer
	rquote	
	rspace	m:length
	selection	m:positive-integer
	separator	derived by: xs:token
	separators	
	shift	m:integer
	side	derived by: xs:token
	stackalign	derived by: xs:token
	stretchy	derived by: xs:token
	subscriptshift	m:length
	superscriptshift	m:length
	symmetric	derived by: xs:token
	valign	m:length
	width	m:length
	fontfamily	
	fontweight	derived by: xs:token
	fontstyle	derived by: xs:token
	fontsize	m:length
	color	m:color
	background	derived by: m:color
	veryverythinmathspace	m:length
	verythinmathspace	m:length
	thinmathspace	m:length
	mediummathspace	m:length
	thickmathspace	m:length
	verythickmathspace	m:length
	veryverythickmathspace	m:length
source	<xs:attributeGroup name="mstyle.attributes">	

	<pre> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attributeGroup ref="m:mstyle.specificattributes"/> <xs:attributeGroup ref="m:mstyle.generalattributes"/> <xs:attributeGroup ref="m:mstyle.deprecatedattributes"/> </xs:attributeGroup> </pre>

attributeGroup **mstyle.deprecatedattributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	attributeGroup mstyle.attributes					
attributes	Name	Type	Use	Default	Fixed	Annotation
	fontfamily					
	fontweight	derived by: xs:token				
	fontstyle	derived by: xs:token				
	fontsize	m:length				
	color	m:color				
	background	derived by: m:color				
	veryverythinmathspace	m:length				
	verythinmathspace	m:length				
	thinmathspace	m:length				
	mediummathspace	m:length				
	thickmathspace	m:length				
	verythickmathspace	m:length				
	veryverythickmathspace	m:length				
source	<pre><xs:attributeGroup name="mstyle.deprecatedattributes"> <xs:attributeGroup ref="m:DeprecatedTokenAtt"/> <xs:attribute name="veryverythinmathspace" type="m:length"/> <xs:attribute name="verythinmathspace" type="m:length"/> <xs:attribute name="thinmathspace" type="m:length"/> <xs:attribute name="mediummathspace" type="m:length"/> <xs:attribute name="thickmathspace" type="m:length"/> <xs:attribute name="verythickmathspace" type="m:length"/> <xs:attribute name="veryverythickmathspace" type="m:length"/> </xs:attributeGroup></pre>					

attribute **mstyle.deprecatedattributes/@veryverythinmathspace**

type	m:length		
facets	Kind	Value	Annotation
	pattern	ls*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mxj]i[n]c[m]m[p]xtc]%)?)(negative)?((very){0,2}thin medium)mathspace)ls*	
source	<xs:attribute name="veryverythinmathspace" type="m:length"/>		

attribute **mstyle.deprecatedattributes/@verythinmathspace**

type	m:length

facets	Kind pattern	Value $\backslash s^*((-?[0-9]^*([0-9]\backslash.?\backslash.[0-9]))[0-9]^*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\backslash s^*$	Annotation
source	<xs:attribute name="verythinmathspace" type="m:length"/>		

attribute **mstyle.deprecatedattributes/@thinmathspace**

type	m:length		
facets	Kind pattern	Value $\backslash s^*((-?[0-9]^*([0-9]\backslash.?\backslash.[0-9]))[0-9]^*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\backslash s^*$	Annotation
source	<xs:attribute name="thinmathspace" type="m:length"/>		

attribute **mstyle.deprecatedattributes/@mediummathspace**

type	m:length		
facets	Kind pattern	Value $\backslash s^*((-?[0-9]^*([0-9]\backslash.?\backslash.[0-9]))[0-9]^*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\backslash s^*$	Annotation
source	<xs:attribute name="mediummathspace" type="m:length"/>		

attribute **mstyle.deprecatedattributes/@thickmathspace**

type	m:length		
facets	Kind pattern	Value $\backslash s^*((-?[0-9]^*([0-9]\backslash.?\backslash.[0-9]))[0-9]^*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\backslash s^*$	Annotation
source	<xs:attribute name="thickmathspace" type="m:length"/>		

attribute **mstyle.deprecatedattributes/@verythickmathspace**

type	m:length		
facets	Kind pattern	Value $\backslash s^*((-?[0-9]^*([0-9]\backslash.?\backslash.[0-9]))[0-9]^*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\backslash s^*$	Annotation
source	<xs:attribute name="verythickmathspace" type="m:length"/>		

attribute **mstyle.deprecatedattributes/@veryverythickmathspace**

type	m:length		
facets	Kind pattern	Value $\backslash s^*((-?[0-9]^*([0-9]\backslash.?\backslash.[0-9]))[0-9]^*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\backslash s^*$	Annotation
source	<xs:attribute name="veryverythickmathspace" type="m:length"/>		

attributeGroup **mstyle.generalattributes**

namespace	http://www.w3.org/1998/Math/MathML		
used by	attributeGroups	math.attributes mstyle.attributes	

attributes	Name	Type	Use	Default	Fixed	Annotation
	accent	derived by: xs:token				
	accentunder	derived by: xs:token				
	align	derived by: xs:token				
	alignmentscope	derived by: xs:token				
	bevelled	derived by: xs:token				
	charalign	derived by: xs:token				
	charspacing	derived by: m:length				
	close					
	columnalign	derived by: xs:list				
	columnlines	derived by: xs:list				
	columnspacing	derived by: xs:list				
	columnspan	m:positive-integer				
	columnwidth	derived by: m:length				
	crossout	derived by: xs:token				
	denomalign	derived by: xs:token				
	depth	m:length				
	dir	derived by: xs:token				
	edge	derived by: xs:token				
	equalcolumns	derived by: xs:token				
	equalrows	derived by: xs:token				
	fence	derived by: xs:token				
	form	derived by: xs:token				
	frame	m:linestyle				
	framespacing	derived by: m:length				
	groupalign	m:group-alignment-list-list				
	height	m:length				
	indentalign	derived by: xs:token				
	indentalignfirst	derived by: xs:token				
	indentalignlast	derived by: xs:token				
	indentshift	m:length				
	indentshiftfirst	derived by: m:length				
	indentshiftlast	derived by: m:length				
	indenttarget					
	largeop	derived by: xs:token				
	leftoverhang	m:length				
	length	m:unsigned-				

linebreak	integer derived by: xs:token
linebreakmultchar	
linebreakstyle	derived by: xs:token
lineleading	m:length
linethickness	derived by: m:length
location	derived by: xs:token
longdivstyle	derived by: xs:token
lquote	
lspace	m:length
mathsize	derived by: m:length
mathvariant	derived by: xs:token
maxsize	derived by: m:length
minlabelspacing	m:length
minsize	m:length
movablelimits	derived by: xs:token
mslinethickness	derived by: m:length
notation	
numalign	derived by: xs:token
open	
position	m:integer
rightoverhang	m:length
rowalign	derived by: xs:list
rowlines	derived by: xs:list
rowspacing	derived by: xs:list
rowspan	m:positive-integer
rquote	
rspace	m:length
selection	m:positive-integer
separator	derived by: xs:token
separators	
shift	m:integer
side	derived by: xs:token
stackalign	derived by: xs:token
stretchy	derived by: xs:token
subscriptshift	m:length
superscriptshift	m:length
symmetric	derived by: xs:token
valign	m:length
width	m:length

source

```
<xs:attributeGroup name="mstyle.generalattributes">
  <xs:attribute name="accent">
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="true"/>
        <xs:enumeration value="false"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="accentunder">
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="true"/>
        <xs:enumeration value="false"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="align">
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="left"/>
        <xs:enumeration value="right"/>
        <xs:enumeration value="center"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="alignmentscope">
    <xs:simpleType>
      <xs:restriction>
        <xs:simpleType>
          <xs:list>
            <xs:simpleType>
              <xs:restriction base="xs:token">
                <xs:enumeration value="true"/>
                <xs:enumeration value="false"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:list>
        </xs:simpleType>
        <xs:minLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="bevelled">
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="true"/>
        <xs:enumeration value="false"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="charalign">
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="left"/>

```

```

        <xs:enumeration value="center"/>
        <xs:enumeration value="right"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="charspacing">
    <xs:simpleType>
      <xs:union memberTypes="m:length">
        <xs:simpleType>
          <xs:restriction base="xs:token">
            <xs:enumeration value="loose"/>
          </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
          <xs:restriction base="xs:token">
            <xs:enumeration value="medium"/>
          </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
          <xs:restriction base="xs:token">
            <xs:enumeration value="tight"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="close"/>
  <xs:attribute name="columnalign">
    <xs:simpleType>
      <xs:restriction>
        <xs:simpleType>
          <xs:list itemType="m:columnalignstyle"/>
        </xs:simpleType>
        <xs:minLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="columnlines">
    <xs:simpleType>
      <xs:restriction>
        <xs:simpleType>
          <xs:list itemType="m:linestyle"/>
        </xs:simpleType>
        <xs:minLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="columnspacing">
    <xs:simpleType>
      <xs:restriction>
        <xs:simpleType>
          <xs:list itemType="m:length"/>
        </xs:simpleType>
        <xs:minLength value="1"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>

```

```

</xs:attribute>
<xs:attribute name="columnspan" type="m:positive-integer"/>
<xs:attribute name="columnwidth">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list>
          <xs:simpleType>
            <xs:union memberTypes="m:length">
              <xs:simpleType>
                <xs:restriction base="xs:token">
                  <xs:enumeration value="auto"/>
                </xs:restriction>
              </xs:simpleType>
              <xs:simpleType>
                <xs:restriction base="xs:token">
                  <xs:enumeration value="fit"/>
                </xs:restriction>
              </xs:simpleType>
            </xs:union>
          </xs:simpleType>
        </xs:list>
      </xs:simpleType>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="crossout">
  <xs:simpleType>
    <xs:list>
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="none"/>
          <xs:enumeration value="updiagonalstrike"/>
          <xs:enumeration value="downdiagonalstrike"/>
          <xs:enumeration value="verticalstrike"/>
          <xs:enumeration value="horizontalstrike"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:list>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="denomalign">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="depth" type="m:length"/>
<xs:attribute name="dir">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="ltr"/>

```

```

        <xs:enumeration value="rtl"/>
    </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="edge">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="left"/>
            <xs:enumeration value="right"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="equalcolumns">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="equalrows">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="fence">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="true"/>
            <xs:enumeration value="false"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="form">
    <xs:simpleType>
        <xs:restriction base="xs:token">
            <xs:enumeration value="prefix"/>
            <xs:enumeration value="infix"/>
            <xs:enumeration value="postfix"/>
        </xs:restriction>
    </xs:simpleType>
</xs:attribute>
<xs:attribute name="frame" type="m:linestyle"/>
<xs:attribute name="framespacing">
    <xs:simpleType>
        <xs:restriction>
            <xs:simpleType>
                <xs:list>
                    <xs:simpleType>
                        <xs:union memberTypes="m:length m:length"/>
                    </xs:simpleType>
                </xs:list>
            </xs:simpleType>
        </xs:restriction>
    </xs:simpleType>

```

```

    <xs:length value="2"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="groupalign" type="m:group-alignment-list-list"/>
<xs:attribute name="height" type="m:length"/>
<xs:attribute name="indentalign">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="auto"/>
      <xs:enumeration value="id"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentalignfirst">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="auto"/>
      <xs:enumeration value="id"/>
      <xs:enumeration value="indentalign"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentalignlast">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="auto"/>
      <xs:enumeration value="id"/>
      <xs:enumeration value="indentalign"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentshift" type="m:length"/>
<xs:attribute name="indentshiftfirst">
  <xs:simpleType>
    <xs:union memberTypes="m:length">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="indentshift"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="indentshiftlast">
  <xs:simpleType>
    <xs:union memberTypes="m:length">

```



```

<xs:simpleType>
  <xs:restriction base="xs:token">
    <xs:enumeration value="indentshift"/>
  </xs:restriction>
</xs:simpleType>
</xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="indenttarget"/>
<xs:attribute name="largeop">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="leftoverhang" type="m:length"/>
<xs:attribute name="length" type="m:unsigned-integer"/>
<xs:attribute name="linebreak">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="auto"/>
      <xs:enumeration value="newline"/>
      <xs:enumeration value="nobreak"/>
      <xs:enumeration value="goodbreak"/>
      <xs:enumeration value="badbreak"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="linebreakmultchar"/>
<xs:attribute name="linebreakstyle">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="before"/>
      <xs:enumeration value="after"/>
      <xs:enumeration value="duplicate"/>
      <xs:enumeration value="infixlinebreakstyle"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="lineleading" type="m:length"/>
<xs:attribute name="linethickness">
  <xs:simpleType>
    <xs:union memberTypes="m:length">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="thin"/>
        </xs:restriction>
      </xs:simpleType>
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="medium"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>

```

```

<xs:restriction base="xs:token">
  <xs:enumeration value="thick"/>
</xs:restriction>
</xs:simpleType>
</xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="location">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="w"/>
      <xs:enumeration value="nw"/>
      <xs:enumeration value="n"/>
      <xs:enumeration value="ne"/>
      <xs:enumeration value="e"/>
      <xs:enumeration value="se"/>
      <xs:enumeration value="s"/>
      <xs:enumeration value="sw"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="longdivstyle">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="lefttop"/>
      <xs:enumeration value="stackedrightright"/>
      <xs:enumeration value="mediumstackedrightright"/>
      <xs:enumeration value="shortstackedrightright"/>
      <xs:enumeration value="righttop"/>
      <xs:enumeration value="left/right"/>
      <xs:enumeration value="left)(right"/>
      <xs:enumeration value=":right=right"/>
      <xs:enumeration value="stackedleftleft"/>
      <xs:enumeration value="stackedleftlinetop"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="lquote"/>
<xs:attribute name="lspace" type="m:length"/>
<xs:attribute name="mathsize">
  <xs:simpleType>
    <xs:union memberTypes="m:length">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="small"/>
        </xs:restriction>
      </xs:simpleType>
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="normal"/>
        </xs:restriction>
      </xs:simpleType>
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="big"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>

```

```

    </xs:simpleType>
  </xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="mathvariant">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="normal"/>
      <xs:enumeration value="bold"/>
      <xs:enumeration value="italic"/>
      <xs:enumeration value="bold-italic"/>
      <xs:enumeration value="double-struck"/>
      <xs:enumeration value="bold-fraktur"/>
      <xs:enumeration value="script"/>
      <xs:enumeration value="bold-script"/>
      <xs:enumeration value="fraktur"/>
      <xs:enumeration value="sans-serif"/>
      <xs:enumeration value="bold-sans-serif"/>
      <xs:enumeration value="sans-serif-italic"/>
      <xs:enumeration value="sans-serif-bold-italic"/>
      <xs:enumeration value="monospace"/>
      <xs:enumeration value="initial"/>
      <xs:enumeration value="tailed"/>
      <xs:enumeration value="looped"/>
      <xs:enumeration value="stretched"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="maxsize">
  <xs:simpleType>
    <xs:union memberTypes="m:length">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="infinity"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="minlabelspacing" type="m:length"/>
<xs:attribute name="minsize" type="m:length"/>
<xs:attribute name="movablelimits">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="mslinethickness">
  <xs:simpleType>
    <xs:union memberTypes="m:length">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="thin"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>

```

```

</xs:simpleType>
<xs:simpleType>
  <xs:restriction base="xs:token">
    <xs:enumeration value="medium"/>
  </xs:restriction>
</xs:simpleType>
<xs:simpleType>
  <xs:restriction base="xs:token">
    <xs:enumeration value="thick"/>
  </xs:restriction>
</xs:simpleType>
</xs:union>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="notation"/>
<xs:attribute name="numalign">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="open"/>
<xs:attribute name="position" type="m:integer"/>
<xs:attribute name="rightoverhang" type="m:length"/>
<xs:attribute name="rowalign">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list itemType="m:verticalalign"/>
      </xs:simpleType>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="rowlines">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list itemType="m:linestyle"/>
      </xs:simpleType>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="rowspacing">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list itemType="m:length"/>
      </xs:simpleType>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>

```

```

</xs:attribute>
<xs:attribute name="rowspan" type="m:positive-integer"/>
<xs:attribute name="rquote"/>
<xs:attribute name="rspace" type="m:length"/>
<xs:attribute name="selection" type="m:positive-integer"/>
<xs:attribute name="separator">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="separators"/>
<xs:attribute name="shift" type="m:integer"/>
<xs:attribute name="side">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="leftoverlap"/>
      <xs:enumeration value="rightoverlap"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="stackalign">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="left"/>
      <xs:enumeration value="center"/>
      <xs:enumeration value="right"/>
      <xs:enumeration value="decimalpoint"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="stretchy">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="subscriptshift" type="m:length"/>
<xs:attribute name="superscriptshift" type="m:length"/>
<xs:attribute name="symmetric">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="valign" type="m:length"/>
<xs:attribute name="width" type="m:length"/>

```

	</xs:attributeGroup>

attribute **mstyle.generalattributes/@accent**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="accent"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@accentunder**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="accentunder"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@align**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
	enumeration	center	
source	<pre><xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="center"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@alignmentscope**

type	restriction (of (list of (restriction of xs:token)))		
facets	Kind	Value	Annotation
	minLength	1	
source	<pre><xs:attribute name="alignmentscope"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> </xs:restriction> <xs:minLength value="1"/> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@bevelled**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="bevelled"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@charalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
source	<pre><xs:attribute name="charalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

	<pre> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@charspacing**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)
source	<pre> <xs:attribute name="charspacing"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="loose"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="tight"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@close**

source	<pre> <xs:attribute name="close"/> </pre>

attribute **mstyle.generalattributes/@columnalign**

type	restriction of (list of m:columnalignstyle)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="columnalign"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:columnalignstyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@columnlines**

type	restriction of (list of m:linestyle)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="columnlines"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:linestyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@columnspacing**

type	restriction of (list of m:length)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="columnspacing"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:length"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@columnspan**

type	m:positive-integer
source	<pre> <xs:attribute name="columnspan" type="m:positive-integer"/> </pre>

attribute **mstyle.generalattributes/@columnwidth**

type	restriction of (list of (union of (m:length , restriction of xs:token, restriction of xs:token)))		
facets	Kind	Value	Annotation
	minLength	1	
source	<pre><xs:attribute name="columnwidth"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"></pre>		

	<pre> <xs:enumeration value="auto"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="fit"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:list> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@crossout**

type	list of (restriction of xs:token)
source	<pre> <xs:attribute name="crossout"> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="none"/> <xs:enumeration value="updiagonalstrike"/> <xs:enumeration value="downdiagonalstrike"/> <xs:enumeration value="verticalstrike"/> <xs:enumeration value="horizontalstrike"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@denomalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
source	<pre><xs:attribute name="denomalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@depth**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-[0-9]*([0-9]\.?[0-9])) 0-9)*(e[mx] in cm mm p[xtc] %?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="depth" type="m:length"/>		

attribute **mstyle.generalattributes/@dir**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	ltr	
	enumeration	rtl	
source	<xs:attribute name="dir"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="ltr"/> <xs:enumeration value="rtl"/> </xs:restriction> </xs:simpleType> </xs:attribute>		

attribute **mstyle.generalattributes/@edge**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
source	<xs:attribute name="edge"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute>		

attribute **mstyle.generalattributes/@equalcolumns**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<xs:attribute name="equalcolumns"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> </xs:restriction> </xs:simpleType> </xs:attribute>		

	<pre> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@equalrows**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="equalrows"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mstyle.generalattributes/@fence**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="fence"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mstyle.generalattributes/@form**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	prefix	
	enumeration	infix	
	enumeration	postfix	
source	<pre> <xs:attribute name="form"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="prefix"/> <xs:enumeration value="infix"/> <xs:enumeration value="postfix"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

	<code></xs:attribute></code>

attribute **mstyle.generalattributes/@frame**

type	m:linestyle		
facets	Kind	Value	Annotation
	enumeration	none	
	enumeration	solid	
	enumeration	dashed	
source	<code><xs:attribute name="frame" type="m:linestyle"/></code>		

attribute **mstyle.generalattributes/@framespacing**

type	restriction of (list of (union of (m:length , m:length))))		
facets	Kind	Value	Annotation
	length	2	
source	<pre> <xs:attribute name="framespacing"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> <xs:union memberTypes="m:length m:length"/> </xs:simpleType> </xs:list> </xs:simpleType> <xs:length value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mstyle.generalattributes/@groupalign**

type	m:group-alignment-list-list		
facets	Kind	Value	Annotation
	pattern	(\s*\{(\s*(left center right decimalpoint)(\s+(\s*(left center right decimalpoint))*\s*))*\})*\s*	
source	<xs:attribute name="groupalign" type="m:group-alignment-list-list"/>		

attribute **mstyle.generalattributes/@height**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx]j in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="height" type="m:length"/>		

attribute **mstyle.generalattributes/@indentalign**

type	restriction of xs:token																		
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>left</td><td></td></tr><tr><td>enumeration</td><td>center</td><td></td></tr><tr><td>enumeration</td><td>right</td><td></td></tr><tr><td>enumeration</td><td>auto</td><td></td></tr><tr><td>enumeration</td><td>id</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	left		enumeration	center		enumeration	right		enumeration	auto		enumeration	id	
Kind	Value	Annotation																	
enumeration	left																		
enumeration	center																		
enumeration	right																		
enumeration	auto																		
enumeration	id																		
source	<pre><xs:attribute name="indentalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>																		

attribute **mstyle.generalattributes/@indentalignfirst**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	auto	
	enumeration	id	
	enumeration	indentalign	
source	<pre><xs:attribute name="indentalignfirst"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@indentalignlast**

attribute firstStyle : general attributes: @indenting: must			
type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	

	enumeration auto enumeration id enumeration indentalign
source	<pre> <xs:attribute name="indentalignlast"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="auto"/> <xs:enumeration value="id"/> <xs:enumeration value="indentalign"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@indentshift**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %?))((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="indentshift" type="m:length"/>		

attribute **mstyle.generalattributes/@indentshiftfirst**

type	union of (m:length , restriction of xs:token)		
source	<pre> <xs:attribute name="indentshiftfirst"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>		

attribute **mstyle.generalattributes/@indentshiftlast**

type	union of (m:length , restriction of xs:token)		
source	<pre> <xs:attribute name="indentshiftlast"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="indentshift"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>		

	<pre> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@indenttarget**

source	<pre><xs:attribute name="indenttarget"/></pre>

attribute **mstyle.generalattributes/@largeop**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="largeop"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mstyle.generalattributes/@leftoverhang**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9])([0-9]*([e[mx]]in cm mm p[xtc] %)?))((negative)?((very){0,2}thi(n ck) medium)mathspace))\s*	
source	<xs:attribute name="leftoverhang" type="m:length"/>		

attribute **mstyle.generalattributes/@length**

type	m:unsigned-integer
source	<pre><xs:attribute name="length" type="m:unsigned-integer"/></pre>

attribute **mstyle.generalattributes/@linebreak**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	auto	
	enumeration	newline	
	enumeration	nobreak	
	enumeration	goodbreak	
	enumeration	badbreak	
source	<pre> <xs:attribute name="linebreak"> <xs:simpleType> <xs:restriction base="xs:token"> </pre>		

	<pre> <xs:enumeration value="auto"/> <xs:enumeration value="newline"/> <xs:enumeration value="nobreak"/> <xs:enumeration value="goodbreak"/> <xs:enumeration value="badbreak"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@linebreakmultchar**

source	<pre><xs:attribute name="linebreakmultchar"/></pre>

attribute **mstyle.generalattributes/@linebreakstyle**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	before	
	enumeration	after	
	enumeration	duplicate	
	enumeration	infixlinebreakstyle	
source	<pre> <xs:attribute name="linebreakstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="before"/> <xs:enumeration value="after"/> <xs:enumeration value="duplicate"/> <xs:enumeration value="infixlinebreakstyle"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mstyle.generalattributes/@lineleading**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?\.\.[0-9])[0-9]*([e[mx] in cm mm p[xtc] %)?))((negative)?((very){0,2}thin ck) medium)mathspace)\s*	
source	<xs:attribute name="lineleading" type="m:length"/>		

attribute **mstyle.generalattributes/@linethickness**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)		
source	<pre> <xs:attribute name="linethickness"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thin"/> </xs:restriction> </pre>		

	<pre> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thick"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@location**

type	restriction of xs:token																											
facets	<table><tr><th>Kind</th><th>Value</th><th>Annotation</th></tr><tr><td>enumeration</td><td>w</td><td></td></tr><tr><td>enumeration</td><td>nw</td><td></td></tr><tr><td>enumeration</td><td>n</td><td></td></tr><tr><td>enumeration</td><td>ne</td><td></td></tr><tr><td>enumeration</td><td>e</td><td></td></tr><tr><td>enumeration</td><td>se</td><td></td></tr><tr><td>enumeration</td><td>s</td><td></td></tr><tr><td>enumeration</td><td>sw</td><td></td></tr></table>	Kind	Value	Annotation	enumeration	w		enumeration	nw		enumeration	n		enumeration	ne		enumeration	e		enumeration	se		enumeration	s		enumeration	sw	
Kind	Value	Annotation																										
enumeration	w																											
enumeration	nw																											
enumeration	n																											
enumeration	ne																											
enumeration	e																											
enumeration	se																											
enumeration	s																											
enumeration	sw																											
source	<pre><xs:attribute name="location"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="w"/> <xs:enumeration value="nw"/> <xs:enumeration value="n"/> <xs:enumeration value="ne"/> <xs:enumeration value="e"/> <xs:enumeration value="se"/> <xs:enumeration value="s"/> <xs:enumeration value="sw"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>																											

attribute **mstyle.generalattributes/@longdivstyle**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	lefttop	
	enumeration	stackedrightright	
	enumeration	mediumstackedrightright	
	enumeration	shortstackedrightright	
	enumeration	righttop	

	enumeration left/right enumeration left)(right enumeration :right=right enumeration stackedleftleft enumeration stackedleftlinetop
source	<pre> <xs:attribute name="longdivstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="lefttop"/> <xs:enumeration value="stackedrightright"/> <xs:enumeration value="mediumstackedrightright"/> <xs:enumeration value="shortstackedrightright"/> <xs:enumeration value="righttop"/> <xs:enumeration value="left/right"/> <xs:enumeration value="left)(right"/> <xs:enumeration value=":right=right"/> <xs:enumeration value="stackedleftleft"/> <xs:enumeration value="stackedleftlinetop"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@lquote**

source	<pre> <xs:attribute name="lquote"/> </pre>

attribute **mstyle.generalattributes/@lspace**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?\.\.[0-9]))[0-9]*(e[mx] in cm mm p xtc)[%]?)((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="lspace" type="m:length"/>		

attribute **mstyle.generalattributes/@mathsize**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)		
source	<pre> <xs:attribute name="mathsize"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="small"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> </xs:restriction> </xs:simpleType> <xs:simpleType> </pre>		

	<pre> <xs:restriction base="xs:token"> <xs:enumeration value="big"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@mathvariant**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	normal	
	enumeration	bold	
	enumeration	italic	
	enumeration	bold-italic	
	enumeration	double-struck	
	enumeration	bold-fraktur	
	enumeration	script	
	enumeration	bold-script	
	enumeration	fraktur	
	enumeration	sans-serif	
	enumeration	bold-sans-serif	
	enumeration	sans-serif-italic	
	enumeration	sans-serif-bold-italic	
	enumeration	monospace	
	enumeration	initial	
	enumeration	tailed	
	enumeration	looped	
	enumeration	stretched	
source	<pre><xs:attribute name="mathvariant"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="bold"/> <xs:enumeration value="italic"/> <xs:enumeration value="bold-italic"/> <xs:enumeration value="double-struck"/> <xs:enumeration value="bold-fraktur"/> <xs:enumeration value="script"/> <xs:enumeration value="bold-script"/> <xs:enumeration value="fraktur"/> <xs:enumeration value="sans-serif"/> <xs:enumeration value="bold-sans-serif"/> <xs:enumeration value="sans-serif-italic"/> <xs:enumeration value="sans-serif-bold-italic"/> <xs:enumeration value="monospace"/> <xs:enumeration value="initial"/> <xs:enumeration value="tailed"/> <xs:enumeration value="looped"/> <xs:enumeration value="stretched"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

	</xs:restriction> </xs:simpleType> </xs:attribute>

attribute **mstyle.generalattributes/@maxsize**

type	union of (m:length , restriction of xs:token)
source	<xs:attribute name="maxsize"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="infinity"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute>

attribute **mstyle.generalattributes/@minlabelspacing**

attributes: minlabelspacing			
type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?\.\.[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %?))((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="minlabelspacing" type="m:length"/>		

attribute **mstyle.generalattributes/@minsize**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?\.\.[0-9]))[0-9]*(e[<i>mx</i>] in cm mm p[<i>xtc</i>] %?))((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="minsize" type="m:length"/>		

attribute **mstyle.generalattributes/@movablelimits**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="movablelimits"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@mslinethickness**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)
source	<pre> <xs:attribute name="mslinethickness"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thin"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="medium"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="thick"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mstyle.generalattributes/@notation**

source	<pre> <xs:attribute name="notation"/> </pre>

attribute **mstyle.generalattributes/@numalign**

type	restriction of xs:token		
facets	Kind enumeration	Value left center right	Annotation
source	<pre><xs:attribute name="numalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@open**

source	<pre> <xs:attribute name="open"/> </pre>

attribute **mstyle.generalattributes/@position**

type	m:integer
source	<code><xs:attribute name="position" type="m:integer"/></code>

attribute **mstyle.generalattributes/@rightoverhang**

type	m:length							
facets	<table> <tr> <th>Kind</th><th>Value</th><th>Annotation</th></tr> <tr> <td>pattern</td><td><code>\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code></td><td></td></tr> </table>	Kind	Value	Annotation	pattern	<code>\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code>		
Kind	Value	Annotation						
pattern	<code>\s*((-[0-9]*([0-9]\.?[0-9]))[0-9]*(e[mx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code>							
source	<code><xs:attribute name="rightoverhang" type="m:length"/></code>							

attribute **mstyle.generalattributes/@rowalign**

type	restriction of (list of m:verticalalign)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="rowalign"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:verticalalign"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@rowlines**

attribute <code>xmlns:rowlines="http://www.w3.org/2001/XMLSchema-instance#rowlines"</code>			
type	restriction of (list of m:linestyle)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="rowlines"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:linestyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@rowspacing**

type	restriction of (list of m:length)		
facets	Kind	Value	Annotation

	minLength 1
source	<pre><xs:attribute name="rowspacing"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:length"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>

attribute **mstyle.generalattributes/@rowspan**

type	m:positive-integer
source	<pre><xs:attribute name="rowspan" type="m:positive-integer"/></pre>

attribute **mstyle.generalattributes/@rquote**

source	<pre><xs:attribute name="rquote"/></pre>

attribute **mstyle.generalattributes/@rspace**

type	m:length		
facets	Kind pattern	Value <code>\s*((-?[0-9]*([0-9]\.?[0-9] \.?[0-9])[0-9]* (e[<i>mxjlin</i> cm mm p <i>xtc</i>] %?))(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code>	Annotation
source	<code><xs:attribute name="rspace" type="m:length"/></code>		

attribute **mstyle.generalattributes/@selection**

type	m:positive-integer
source	<pre><xs:attribute name="selection" type="m:positive-integer"/></pre>

attribute **mstyle.generalattributes/@separator**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="separator"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType></pre>		

	</xs:attribute>

attribute **mstyle.generalattributes/@separators**

source	<xs:attribute name="separators"/>

attribute **mstyle.generalattributes/@shift**

type	m:integer
source	<xs:attribute name="shift" type="m:integer"/>

attribute **mstyle.generalattributes/@side**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
	enumeration	leftoverlap	
	enumeration	rightoverlap	
source	<pre><xs:attribute name="side"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="leftoverlap"/> <xs:enumeration value="rightoverlap"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@stackalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	center	
	enumeration	right	
	enumeration	decimalpoint	
source	<pre><xs:attribute name="stackalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="center"/> <xs:enumeration value="right"/> <xs:enumeration value="decimalpoint"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@stretchy**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="stretchy"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@subscriptshift**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*([e[mx] in cm mm p[xtc] %)?)((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="subscriptshift" type="m:length"/>		

attribute **mstyle.generalattributes/@superscriptshift**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*([e[mx] in cm mm p[xtc] %?)))(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="superscriptshift" type="m:length"/>		

attribute **mstyle.generalattributes/@symmetric**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="symmetric"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.generalattributes/@align**

Attribute: <code>type="m:length"</code>			
type	<code>m:length</code>		
facets	Kind	Value	Annotation
	pattern	<code>\s*((-?[0-9]*([0-9]\.?\.[0-9]))[0-9]*(e[<i>mx</i>] in cm mm p[<i>xtc</i>] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*</code>	
source	<code><xs:attribute name="valign" type="m:length"/></code>		

attribute **mstyle.generalattributes/@width**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?\.[0-9]))[0-9]*(e[rx] in cm mm p[xtc] %)?)(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="width" type="m:length"/>		

attributeGroup **mstyle.specificattributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	attributeGroups	math.attributes mstyle.attributes				
attributes	Name	Type	Use	Default	Fixed	Annotation
	scriptlevel	m:integer				
	displaystyle	derived by: xs:token				
	scriptsizemultiplier	m:number				
	scriptminsize	m:length				
	infixlinebreakstyle	derived by: xs:token				
	decimalpoint	m:character				
source	<pre> <xs:attributeGroup name="mstyle.specificattributes"> <xs:attribute name="scriptlevel" type="m:integer"/> <xs:attribute name="displaystyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="scriptsizemultiplier" type="m:number"/> <xs:attribute name="scriptminsize" type="m:length"/> <xs:attribute name="infixlinebreakstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="before"/> <xs:enumeration value="after"/> <xs:enumeration value="duplicate"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="decimalpoint" type="m:character"/> </xs:attributeGroup> </pre>					

attribute **mstyle.specificattributes/@scriptlevel**

type	m:integer
source	<code><xs:attribute name="scriptlevel" type="m:integer"/></code>

attribute **mstyle.specificattributes/@displaystyle**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="displaystyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mstyle.specificattributes/@scriptsizemultiplier**

type	m:number
source	<code><xs:attribute name="scriptsizemultiplier" type="m:number"/></code>

attribute **mstyle.specificattributes/@scriptminsize**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9])?[0-9]*([e]([m]([c]([m]([p]([x]([t]([c]([%])?) (negative)?((very){0,2}thi(n)ck) medium)mathspace))\s*	
source	<xs:attribute name="scriptminsize" type="m:length"/>		

attribute **mstyle.specificattributes/@infixlinebreakstyle**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	before	
	enumeration	after	
	enumeration	duplicate	
source	<pre><xs:attribute name="infixlinebreakstyle"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="before"/> <xs:enumeration value="after"/> <xs:enumeration value="duplicate"/> </xs:restriction> </xs:simpleType></pre>		

	href xs:anyURI other mathcolor m:color mathbackground derived by: m:color subscriptshift m:length superscriptshift m:length
source	<pre><xs:attributeGroup name="msubsup.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="subscriptshift" type="m:length"/> <xs:attribute name="superscriptshift" type="m:length"/> </xs:attributeGroup></pre>

attribute **msubsup.attributes/@subscriptshift**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?\. [0-9]))[0-9]*([e[m x] i n c m m m p [x t c] %) ?) ((n e g a t i v e) ? ((v e r y) { 0 , 2 } t h i (n c k) m e d i u m) m a t h s p a c e) \s*	
source	<xs:attribute name="subscriptshift" type="m:length"/>		

attribute **msubsup.attributes/@superscriptshift**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?[0-9]))[0-9]*([e mx] in cm mm p xtc %)?)((negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="superscriptshift" type="m:length"/>		

attributeGroup **msup.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	msup				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by:				
		m:color				
	superscriptshift	m:length				
source	<pre><xs:attributeGroup name="msup.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="superscriptshift" type="m:length"/> </xs:attributeGroup></pre>					

	</xs:attributeGroup>

attribute **msup.attributes/@superscriptshift**

type	m:length		
facets	Kind	Value	Annotation
	pattern	\s*((-?[0-9]*([0-9]\.?\.\.[0-9])[0-9]*(e[mmx] in cm mm p[xtc] %))?(negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	
source	<xs:attribute name="superscriptshift" type="m:length"/>		

attributeGroup **mtable.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	mtable				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	align	derived by: xs:string				
	rowalign	derived by: xs:list				
	columnalign	derived by: xs:list				
	groupalign	m:group-alignment-list-list				
	alignmentscope	derived by: xs:token				
	columnwidth	derived by: m:length				
	width	derived by: m:length				
	rowspacing	derived by: xs:list				
	columnspacing	derived by: xs:list				
	rowlines	derived by: xs:list				
	columnlines	derived by: xs:list				
	frame	m:linestyle				
	framespacing	derived by: m:length				
	equalrows	derived by: xs:token				
	equalcolumns	derived by: xs:token				
	displaystyle	derived by: xs:token				
	side	derived by: xs:token				

	minlabelspacing m:length
source	<pre> <xs:attributeGroup name="mtable.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="\s*(top bottom center baseline axis)(\s+-?[0-9]+)?\s*" /> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="rowalign"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:verticalalign"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="columnalign"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:columnalignstyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="groupalign" type="m:group-alignment-list-list"/> <xs:attribute name="alignmentscope"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="columnwidth"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> </pre>


```

<xs:union memberTypes="m:length">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="auto"/>
    </xs:restriction>
  </xs:simpleType>
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="fit"/>
    </xs:restriction>
  </xs:simpleType>
</xs:union>
</xs:simpleType>
</xs:list>
</xs:simpleType>
<xs:minLength value="1"/>
</xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="width">
  <xs:simpleType>
    <xs:union memberTypes="m:length">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="auto"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="rowspacing">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list itemType="m:length"/>
      </xs:simpleType>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="columnspacing">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list itemType="m:length"/>
      </xs:simpleType>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="rowlines">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list itemType="m:linestyle"/>
      </xs:simpleType>
    </xs:restriction>
  </xs:simpleType>

```

```

    <xs:minLength value="1"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
<xs:attribute name="columnlines">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list itemType="m:linestyle"/>
      </xs:simpleType>
      <xs:minLength value="1"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="frame" type="m:linestyle"/>
<xs:attribute name="framespacing">
  <xs:simpleType>
    <xs:restriction>
      <xs:simpleType>
        <xs:list>
          <xs:simpleType>
            <xs:union memberTypes="m:length m:length"/>
          </xs:simpleType>
        </xs:list>
      </xs:simpleType>
      <xs:length value="2"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="equalrows">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="equalcolumns">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="displaystyle">
  <xs:simpleType>
    <xs:restriction base="xs:token">
      <xs:enumeration value="true"/>
      <xs:enumeration value="false"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
<xs:attribute name="side">
  <xs:simpleType>
    <xs:restriction base="xs:token">

```

	<pre> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="leftoverlap"/> <xs:enumeration value="rightoverlap"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="minlabelspacing" type="m:length"/> </xs:attributeGroup> </pre>

attribute **mtable.attributes/@align**

type	restriction of xs:string		
facets	Kind	Value	Annotation
	pattern	\s*(top bottom center baseline axis)(\s+-?[0-9]+)?\s*	
source	<pre><xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:pattern value="\s*(top bottom center baseline axis)(\s+-?[0-9]+)?\s*" /> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mtable.attributes/@rowalign**

type	restriction of (list of m:verticalalign)		
facets	Kind	Value	Annotation
	minLength	1	
source	<pre> <xs:attribute name="rowalign"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:verticalalign" /> </xs:simpleType> <xs:minLength value="1" /> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mtable.attributes/@columnalign**

type	restriction of (list of m:columnalignstyle)		
facets	Kind	Value	Annotation
	minLength	1	
source	<pre> <xs:attribute name="columnalign"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:columnalignstyle" /> </xs:simpleType> <xs:minLength value="1" /> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

	<pre> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **htable.attributes/@groupalign**

type	m:group-alignment-list-list		
facets	Kind	Value	Annotation
	pattern	\s*\{\s*(left center right decimalpoint)\s+(\s+(left center right decimalpoint))*\}\s*	
source	<xs:attribute name="groupalign" type="m:group-alignment-list-list"/>		

attribute **htable.attributes/@alignmentscope**

type	restriction of (list of (restriction of xs:token))		
facets	Kind	Value	Annotation
	minLength	1	
source	<pre> <xs:attribute name="alignmentscope"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:list> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **htable.attributes/@columnwidth**

type	restriction of (list of (union of (m:length , restriction of xs:token , restriction of xs:token)))		
facets	Kind	Value	Annotation
	minLength	1	
source	<pre> <xs:attribute name="columnwidth"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="auto"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:list> </xs:restriction> </xs:simpleType> </xs:restriction> </xs:attribute> </pre>		

	<pre> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="fit"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:list> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mtable.attributes/@width**

type	union of (m:length , restriction of xs:token)
source	<pre> <xs:attribute name="width"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="auto"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **mtable.attributes/@rowspacing**

type	restriction of (list of m:length)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="rowspacing"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:length"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **mtable.attributes/@columnspacing**

attribute inttable:attributes/@columnspacing			
type	restriction of (list of m:length)		
facets	Kind	Value	Annotation
	minLength	1	
source	<xs:attribute name="columnspacing">		

	<pre> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:length"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **htable.attributes/@rowlines**

type	restriction of (list of m:linestyle)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="rowlines"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:linestyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **htable.attributes/@columnlines**

type	restriction of (list of m:linestyle)		
facets	Kind minLength	Value 1	Annotation
source	<pre><xs:attribute name="columnlines"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:linestyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **htable.attributes/@frame**

type	m:linestyle		
facets	Kind	Value	Annotation
	enumeration	none	
	enumeration	solid	
	enumeration	dashed	
source	<xs:attribute name="frame" type="m:linestyle"/>		

attribute **htable.attributes/@framespacing**

type	restriction of (list of (union of (m:length , m:length))))		
facets	Kind	Value	Annotation
	length	2	
source	<pre><xs:attribute name="framespacing"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list> <xs:simpleType> <xs:union memberTypes="m:length m:length"/> </xs:simpleType> </xs:list> </xs:simpleType> <xs:length value="2"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **htable.attributes/@equalrows**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="equalrows"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

attribute **htable.attributes/@equalcolumns**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre><xs:attribute name="equalcolumns"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

	xref class xs:NMTOKENS style xs:string href xs:anyURI other mathcolor m:color mathbackground derived by: m:color rowspan m:positive-integer columnspan m:positive-integer rowalign derived by: xs:token columnalign m:columnalignstyle groupalign m:group-alignment-list
source	<pre> <xs:attributeGroup name="mtd.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="rowspan" type="m:positive-integer"/> <xs:attribute name="columnspan" type="m:positive-integer"/> <xs:attribute name="rowalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="top"/> <xs:enumeration value="bottom"/> <xs:enumeration value="center"/> <xs:enumeration value="baseline"/> <xs:enumeration value="axis"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="columnalign" type="m:columnalignstyle"/> <xs:attribute name="groupalign" type="m:group-alignment-list"/> </xs:attributeGroup> </pre>

attribute **mtd.attributes/@rowspan**

type	m:positive-integer
source	<pre><xs:attribute name="rowspan" type="m:positive-integer"/></pre>

attribute **mtd.attributes/@columnspan**

type	m:positive-integer
source	<pre><xs:attribute name="columnspan" type="m:positive-integer"/></pre>

attribute **mtd.attributes/@rowalign**

type	restriction of xs:token		
facets	Kind enumeration	Value top	Annotation

	enumeration bottom enumeration center enumeration baseline enumeration axis
source	<pre> <xs:attribute name="rowalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="top"/> <xs:enumeration value="bottom"/> <xs:enumeration value="center"/> <xs:enumeration value="baseline"/> <xs:enumeration value="axis"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **mtd.attributes/@columnalign**

type	m:columnalignstyle		
facets	Kind enumeration	Value left center right	Annotation
source	<xs:attribute name="columnalign" type="m:columnalignstyle"/>		

attribute **mtd.attributes/@groupalign**

type	m:group-alignment-list		
facets	Kind	Value	Annotation
	minLength	1	
source	<xs:attribute name="groupalign" type="m:group-alignment-list"/>		

attributeGroup **mtext.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element mtext					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	mathvariant	derived by: xs:token				

	<pre> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:columnalignstyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="groupalign" type="m:group-alignment-list-list"/> </xs:attributeGroup> </pre>

attribute **mtr.attributes/@rowalign**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	top	
	enumeration	bottom	
	enumeration	center	
	enumeration	baseline	
	enumeration	axis	
source	<pre> <xs:attribute name="rowalign"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="top"/> <xs:enumeration value="bottom"/> <xs:enumeration value="center"/> <xs:enumeration value="baseline"/> <xs:enumeration value="axis"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mtr.attributes/@columnalign**

type	restriction of (list of m:columnalignstyle)		
facets	Kind	Value	Annotation
	minLength	1	
source	<pre> <xs:attribute name="columnalign"> <xs:simpleType> <xs:restriction> <xs:simpleType> <xs:list itemType="m:columnalignstyle"/> </xs:simpleType> <xs:minLength value="1"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **mtr.attributes/@groupalign**

type	m:group-alignment-list-list		
facets	Kind	Value	Annotation
	pattern	$(\{s^*\}(\{s^*(\text{left} \text{center} \text{right} \text{decimalpoint})(\{s^+(\text{left} \text{center} \text{right} \text{decimalpoint})\})^*)\})^*s^*$	
source	<xs:attribute name="groupalign" type="m:group-alignment-list-list"/>		

attributeGroup **munder.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element	munder				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	accentunder	derived by: xs:token				
	align	derived by: xs:token				
source	<xs:attributeGroup name="munder.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="accentunder"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="center"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup>					

attribute **munder.attributes/@accentunder**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	

	enumeration false
source	<pre> <xs:attribute name="accentunder"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **munder.attributes/@align**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
source	enumeration	center	
	<pre> <xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="center"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attributeGroup **munderover.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element munderover					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	accent	derived by: xs:token				
	accentunder	derived by: xs:token				
	align	derived by: xs:token				
source	<pre> <xs:attributeGroup name="munderover.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:CommonPresAtt"/> <xs:attribute name="accent"> </pre>					

	<pre> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="accentunder"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="align"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="left"/> <xs:enumeration value="right"/> <xs:enumeration value="center"/> </xs:restriction> </xs:simpleType> </xs:attribute> </xs:attributeGroup> </pre>

attribute **munderover.attributes/@accent**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="accent"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

attribute **munderover.attributes/@accentunder**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	true	
	enumeration	false	
source	<pre> <xs:attribute name="accentunder"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="true"/> <xs:enumeration value="false"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

	</xs:restriction> </xs:simpleType> </xs:attribute>

attribute **munderover.attributes/@align**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	left	
	enumeration	right	
	enumeration	center	
source	$\text{<xs:attribute name="align">}$ <xs:simpleType> $\text{<xs:restriction base="xs:token">}$ $\text{<xs:enumeration value="left"/>}$ $\text{<xs:enumeration value="right"/>}$ $\text{<xs:enumeration value="center"/>}$ </xs:restriction> </xs:simpleType> </xs:attribute>		

attributeGroup **none.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element none					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	mathcolor	m:color				
source	mathbackground	derived by: m:color				
	$\text{<xs:attributeGroup name="none.attributes">}$ $\text{<xs:attributeGroup ref="m:CommonAtt"/>}$ $\text{<xs:attributeGroup ref="m:CommonPresAtt"/>}$ $\text{</xs:attributeGroup>}$					

attributeGroup **TokenAtt**

namespace	http://www.w3.org/1998/Math/MathML					
used by	attributeGroups mi.attributes mn.attributes mo.attributes ms.attributes mspace.attributes mtext.attributes					
attributes	Name	Type	Use	Default	Fixed	Annotation
	mathvariant	derived by: xs:token				
	mathsize	derived by: m:length				
	dir	derived by:				

	xs:token fontfamily fontweight derived by: xs:token fontstyle derived by: xs:token fontsize m:length color m:color background derived by: m:color
source	<pre> <xs:attributeGroup name="TokenAtt"> <xs:attribute name="mathvariant"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="bold"/> <xs:enumeration value="italic"/> <xs:enumeration value="bold-italic"/> <xs:enumeration value="double-struck"/> <xs:enumeration value="bold-fraktur"/> <xs:enumeration value="script"/> <xs:enumeration value="bold-script"/> <xs:enumeration value="fraktur"/> <xs:enumeration value="sans-serif"/> <xs:enumeration value="bold-sans-serif"/> <xs:enumeration value="sans-serif-italic"/> <xs:enumeration value="sans-serif-bold-italic"/> <xs:enumeration value="monospace"/> <xs:enumeration value="initial"/> <xs:enumeration value="tailed"/> <xs:enumeration value="looped"/> <xs:enumeration value="stretched"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attribute name="mathsize"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="small"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="big"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

	<pre> <xs:attribute name="dir"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="ltr"/> <xs:enumeration value="rtl"/> </xs:restriction> </xs:simpleType> </xs:attribute> <xs:attributeGroup ref="m:DeprecatedTokenAtt"/> </xs:attributeGroup> </pre>

attribute **TokenAtt/@mathvariant**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	normal	
	enumeration	bold	
	enumeration	italic	
	enumeration	bold-italic	
	enumeration	double-struck	
	enumeration	bold-fraktur	
	enumeration	script	
	enumeration	bold-script	
	enumeration	fraktur	
	enumeration	sans-serif	
	enumeration	bold-sans-serif	
	enumeration	sans-serif-italic	
	enumeration	sans-serif-bold-italic	
	enumeration	monospace	
	enumeration	initial	
	enumeration	tailed	
	enumeration	looped	
	enumeration	stretched	
source	<pre><xs:attribute name="mathvariant"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> <xs:enumeration value="bold"/> <xs:enumeration value="italic"/> <xs:enumeration value="bold-italic"/> <xs:enumeration value="double-struck"/> <xs:enumeration value="bold-fraktur"/> <xs:enumeration value="script"/> <xs:enumeration value="bold-script"/> <xs:enumeration value="fraktur"/> <xs:enumeration value="sans-serif"/> <xs:enumeration value="bold-sans-serif"/> <xs:enumeration value="sans-serif-italic"/> <xs:enumeration value="sans-serif-bold-italic"/> <xs:enumeration value="monospace"/> <xs:enumeration value="initial"/> </xs:restriction> </xs:simpleType> </xs:attribute></pre>		

	<pre> <xs:enumeration value="tailed"/> <xs:enumeration value="looped"/> <xs:enumeration value="stretched"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>

attribute **TokenAtt/@mathsize**

type	union of (m:length , restriction of xs:token , restriction of xs:token , restriction of xs:token)
source	<pre> <xs:attribute name="mathsize"> <xs:simpleType> <xs:union memberTypes="m:length"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="small"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="normal"/> </xs:restriction> </xs:simpleType> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="big"/> </xs:restriction> </xs:simpleType> </xs:union> </xs:simpleType> </xs:attribute> </pre>

attribute **TokenAtt/@dir**

type	restriction of xs:token		
facets	Kind	Value	Annotation
	enumeration	ltr	
	enumeration	rtl	
source	<pre> <xs:attribute name="dir"> <xs:simpleType> <xs:restriction base="xs:token"> <xs:enumeration value="ltr"/> <xs:enumeration value="rtl"/> </xs:restriction> </xs:simpleType> </xs:attribute> </pre>		

element **annotation**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content	complex				
	mixed	true				
used by	elements	semantics-ci/semantics semantics-contexp/semantics semantics/semantics				
attributes	Name id xref class style href other cd name encoding definitionURL src	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:NCName xs:NCName xs:string xs:anyURI xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:element name="annotation"> <xs:complexType mixed="true"> <xs:attributeGroup ref="m:annotation.attributes"/> </xs:complexType> </xs:element></pre>					

	<pre></xs:complexType> </xs:element></pre>

element **annotation-xml**

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:annotation-xml.model					
properties	content complex					
used by	elements semantics-ci/semantics semantics-contexp/semantics semantics/semantics					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				

	other cd name encoding definitionURL src xs:NCName xs:NCName xs:string xs:anyURI xs:anyURI
source	<xs:element name="annotation-xml"> <xs:complexType> <xs:complexContent> <xs:extension base="m:annotation-xml.model"> <xs:attributeGroup ref="m:annotation.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element>

element **math**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-

	arith.class m:PresentationExpression m:semantics					
used by	complexTypes group	abstractType contentType core-curriculum-abilityType equationType linkInlineContentGroup				
attributes	Name	Type	Use	Default	Fixed	Annotation
	mathcolor	m:color				
	mathbackground	derived by: m:color				
	scriptlevel	m:integer				
	displaystyle	derived by: xs:token				
	scriptsizemultiplier	m:number				
	scriptminsize	m:length				
	infixlinebreakstyle	derived by: xs:token				
	decimalpoint	m:character				
	accent	derived by: xs:token				
	accentunder	derived by: xs:token				
	align	derived by: xs:token				
	alignmentscope	derived by: xs:token				
	bevelled	derived by: xs:token				
	charalign	derived by: xs:token				
	charspacing	derived by: m:length				
	close					
	columnalign	derived by: xs:list				
	columnlines	derived by: xs:list				
	columnspacing	derived by: xs:list				
	columnspan	m:positive-integer				
	columnwidth	derived by: m:length				
	crossout	derived by: xs:token				
	denomalign	derived by: xs:token				
	depth	m:length				
	dir	derived by: xs:token				
	edge	derived by: xs:token				
	equalcolumns	derived by: xs:token				
	equalrows	derived by: xs:token				
	fence	derived by: xs:token				
	form	derived by: xs:token				
	frame	m:linestyle				
	framespacing	derived by: m:length				
	groupalign	m:group-alignment-list				
	height	m:length				

indentalign	derived by: xs:token
indentalignfirst	derived by: xs:token
indentalignlast	derived by: xs:token
indentshift	m:length
indentshiftfirst	derived by: m:length
indentshiftlast	derived by: m:length
indenttarget	
largeop	derived by: xs:token
leftoverhang	m:length
length	m:unsigned-integer
linebreak	derived by: xs:token
linebreakmultchar	
linebreakstyle	derived by: xs:token
lineleading	m:length
linethickness	derived by: m:length
location	derived by: xs:token
longdivstyle	derived by: xs:token
lquote	
lspace	m:length
mathsize	derived by: m:length
mathvariant	derived by: xs:token
maxsize	derived by: m:length
minlabelspacing	m:length
minsize	m:length
movablelimits	derived by: xs:token
mslinethickness	derived by: m:length
notation	
numalign	derived by: xs:token
open	
position	m:integer
rightoverhang	m:length
rowalign	derived by: xs:list
rowlines	derived by: xs:list
rowspacing	derived by: xs:list
rowspan	m:positive-integer
rquote	
rspace	m:length
selection	m:positive-integer
separator	derived by:

	separators shift side stackalign stretchy subscriptshift superscriptshift symmetric valign width id xref class style href other display maxwidth overflow altimg altimg-width altimg-height altimg-valign alttext cdgroup mode macros xs:token m:integer derived by: xs:token derived by: xs:token derived by: xs:token m:length m:length derived by: xs:token m:length m:length xs:ID xs:NMTOKENS xs:string xs:anyURI derived by: xs:token m:length derived by: xs:token xs:anyURI m:length m:length derived by: m:length xs:anyURI xs:string xs:string
source	<pre> <xs:element name="math"> <xs:complexType> <xs:group ref="m:MathExpression" minOccurs="0" maxOccurs="unbounded"/> <xs:attributeGroup ref="m:math.attributes"/> </xs:complexType> </xs:element> </pre>

group anyElement

diagram	<pre> graph LR A[anyElement] -- choice --> B[any ##other] A -- choice --> C[any ##local] </pre>
namespace	http://www.w3.org/1998/Math/MathML
source	<pre> <xs:group name="anyElement"> <xs:choice> <xs:any namespace="##other" processContents="skip"/> </pre>

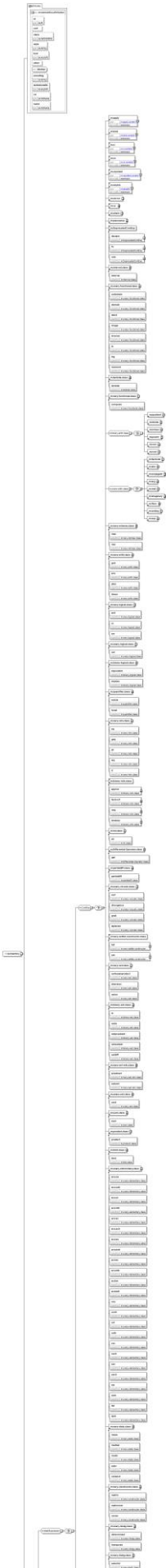
	<pre> <xs:any namespace="###local" processContents="skip"/> </xs:choice> </xs:group> </pre>

group semantics

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:semantics
used by	group MathExpression
source	<pre> <xs:group name="semantics"> <xs:sequence> <xs:element name="semantics"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:annotation"/> <xs:element ref="m:annotation-xml"/> </xs:choice> </xs:sequence> <xs:attributeGroup ref="m:semantics.attributes"/> </xs:complexType> </xs:element> </xs:sequence> </xs:group> </pre>

element **semantics/semantics**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics m:annotation m:annotation-xml					
attributes	Name id xref class style href other encoding definitionURL cd name	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI xs:NCName xs:NCName	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="semantics"> <xs:complexType> <xs:sequence> <xs:group ref="m:MathExpression"/> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:annotation"/> <xs:element ref="m:annotation-xml"/> </xs:choice> </xs:sequence> <xs:attributeGroup ref="m:semantics.attributes"/> </xs:complexType> </xs:element> </pre>					

complexType annotation-xml.model

diagram	<pre> classDiagram class "annotation-xml.model" { any } </pre>					
namespace	http://www.w3.org/1998/Math/MathML					
used by	element annotation-xml					
source	<pre> <xs:complexType name="annotation-xml.model"> <xs:sequence> <xs:any processContents="lax"/> </xs:sequence> <!--content model altered for libxml (annotation-xml)--> </xs:complexType> </pre>					

simpleType length

namespace	http://www.w3.org/1998/Math/MathML		
type	restriction of xs:string		
properties	base xs:string		
used by	attributes	math.attributes/@altimg-height math.attributes/@altimg-valign math.attributes/@altimg-width mstack.attributes/@charspacing mstyle.generalattributes/@charspacing mtable.attributes/@columnspacing mstyle.generalattributes/@columnspacing mtable.attributes/@columnwidth mstyle.generalattributes/@columnwidth mspace.attributes/@depth mstyle.generalattributes/@depth DeprecatedTokenAtt/@fontsize mtable.attributes/@framespacing mstyle.generalattributes/@framespacing mspace.attributes/@height mstyle.generalattributes/@height mglyph.attributes/@height mstyle.generalattributes/@indentshift mo.attributes/@indentshift mspace.attributes/@indentshift mstyle.generalattributes/@indentshiftfirst mo.attributes/@indentshiftfirst mspace.attributes/@indentshiftfirst mo.attributes/@indentshiftlast mstyle.generalattributes/@indentshiftlast mspace.attributes/@indentshiftlast msline.attributes/@leftoverhang mstyle.generalattributes/@leftoverhang mo.attributes/@lineleading mstyle.generalattributes/@lineleading mstyle.generalattributes/@linethickness mfrac.attributes/@linethickness mstyle.generalattributes/@lspace mo.attributes/@lspace mstyle.generalattributes/@mathsize TokenAtt/@mathsize mglyph.deprecatedattributes/@mathsize mo.attributes/@maxsize mstyle.generalattributes/@maxsize math.attributes/@maxwidth mstyle.deprecatedattributes/@mediummathspace mstyle.generalattributes/@minlabelspacing mtable.attributes/@minlabelspacing mo.attributes/@minsize mstyle.generalattributes/@minsize mstyle.generalattributes/@mslinethickness msline.attributes/@mslinethickness msline.attributes/@rightoverhang mstyle.generalattributes/@rightoverhang mstyle.generalattributes/@rowspacing mtable.attributes/@rowspacing mo.attributes/@rspace mstyle.generalattributes/@rspace mstyle.specificattributes/@scriptminsize msub.attributes/@subscriptshift mstyle.generalattributes/@subscriptshift msubsup.attributes/@subscriptshift msup.attributes/@superscriptshift msubsup.attributes/@superscriptshift mstyle.generalattributes/@superscriptshift mstyle.deprecatedattributes/@thickmathspace mstyle.deprecatedattributes/@thinmathspace mglyph.attributes/@valign mstyle.generalattributes/@valign mstyle.deprecatedattributes/@verythickmathspace mstyle.deprecatedattributes/@verythinmathspace mstyle.deprecatedattributes/@veryverythickmathspace mstyle.deprecatedattributes/@veryverythinmathspace mglyph.attributes/@width mspace.attributes/@width mtable.attributes/@width mstyle.generalattributes/@width	
facets	Kind pattern	Value \s*((-?[0-9]*([0-9]\.?[0-9])?[0-9]*([e[fx]] in cm mm p[xtc] %)?)) (negative)?((very){0,2}thi(n ck) medium)mathspace)\s*	Annotation
source	<pre><xs:simpleType name="length"> <xs:restriction base="xs:string"> <xs:pattern value="\s*((-?[0-9]*([0-9]\.?[0-9])?[0-9]*([e[fx]] in cm mm p[xtc] %)?)) (negative)?((very){0,2}thi(n ck) medium)mathspace)\s*" /> </xs:restriction> </xs:simpleType></pre>		

attributeGroup annotation.attributes

namespace	http://www.w3.org/1998/Math/MathML					
used by	elements	annotation annotation-xml				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	cd	xs:NCName				

	name xs:NCName encoding xs:string definitionURL xs:anyURI src xs:anyURI
source	<pre><xs:attributeGroup name="annotation.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attribute name="cd" type="xs:NCName"/> <xs:attribute name="name" type="xs:NCName"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attributeGroup ref="m:src"/> </xs:attributeGroup></pre>

attribute **annotation.attributes/@cd**

type	xs:NCName
source	<pre><xs:attribute name="cd" type="xs:NCName"/></pre>

attribute **annotation.attributes/@name**

type	xs:NCName
source	<pre><xs:attribute name="name" type="xs:NCName"/></pre>

attributeGroup **cd**

namespace	http://www.w3.org/1998/Math/MathML					
attributes	Name cd	Type xs:NCName	Use required	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="cd"> <xs:attribute name="cd" type="xs:NCName" use="required"/> </xs:attributeGroup></pre>					

attribute **cd/@cd**

type	xs:NCName
properties	use required
source	<pre><xs:attribute name="cd" type="xs:NCName" use="required"/></pre>

attributeGroup **CommonAtt**

namespace	http://www.w3.org/1998/Math/MathML	
used by	elements	abs apply approx arg binary-linalg.class binary-logical.class binary-set.class bind bvar ceiling conjugate constant-arith.class constant-set.class Differential-Operator.class divide exp factorial factorof floor imaginary int.class interval.class lambda.class limit.class list minus nary-arith.class nary-constructor.class nary-functional.class nary-linalg.class nary-logical.class nary-minmax.class nary-reln.class nary-set-reln.class nary-set.class nary-stats.class neg otherwise partialdiff.class piece piecewise power product.class quantifier.class quotient real rem root set share sum.class tendsto unary-elementary.class unary-functional.class unary-linalg.class unary-logical.class unary-set.class unary-veccalc.class

	attributeGroups	annotation.attributes cbytes.attributes cerror.attributes ci.attributes cn.attributes cs.attributes csymbol.attributes maction.attributes maligngroup.attributes malignmark.attributes math.attributes menclose.attributes merror.attributes mfenced.attributes mfrac.attributes mglyph.attributes mi.attributes mn.attributes mo.attributes mover.attributes mpadded.attributes mphantom.attributes mprescripts.attributes mroot.attributes mrow.attributes ms.attributes mscarries.attributes mscarry.attributes msgroup.attributes msline.attributes mspace.attributes msqrt.attributes msrow.attributes mstack.attributes mstyle.attributes msub.attributes msubsup.attributes msup.attributes mtable.attributes mtd.attributes mtext.attributes mtr.attributes munder.attributes munderover.attributes none.attributes semantics.attributes				
attributes	Name id xref class style href other	Type xs:ID xs:NMTOKENS xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="CommonAtt"> <xs:attribute name="id" type="xs:ID"/> <xs:attribute name="xref"/> <xs:attribute name="class" type="xs:NMTOKENS"/> <xs:attribute name="style" type="xs:string"/> <xs:attribute name="href" type="xs:anyURI"/> <xs:attributeGroup ref="m:CommonDeprecatedAtt"/> <xs:anyAttribute namespace="##other" processContents="skip"/> </xs:attributeGroup></pre>					

attribute **CommonAtt/@id**

type	xs:ID
source	<pre><xs:attribute name="id" type="xs:ID"/></pre>

attribute **CommonAtt/@xref**

source	<pre><xs:attribute name="xref"/></pre>

attribute **CommonAtt/@class**

type	xs:NMTOKENS
source	<pre><xs:attribute name="class" type="xs:NMTOKENS"/></pre>

attribute **CommonAtt/@style**

type	xs:string
source	<pre><xs:attribute name="style" type="xs:string"/></pre>

attribute **CommonAtt/@href**

type	xs:anyURI

source	<code><xs:attribute name="href" type="xs:anyURI"/></code>

attributeGroup **CommonDeprecatedAtt**

namespace	http://www.w3.org/1998/Math/MathML					
used by	attributeGroup	CommonAtt				
attributes	Name other	Type	Use	Default	Fixed	Annotation
source	<code><xs:attributeGroup name="CommonDeprecatedAtt"></code> <code> <xs:attribute name="other"/></code> <code></xs:attributeGroup></code>					

attribute **CommonDeprecatedAtt/@other**

source	<code><xs:attribute name="other"/></code>

attributeGroup **DefEncAtt**

namespace	http://www.w3.org/1998/Math/MathML					
used by	elements	abs approx arg binary-linalg.class binary-logical.class binary-set.class ceiling conjugate constant-arith.class constant-set.class declare Differential-Operator.class divide exp factorial factorof floor imaginary int.class interval.class lambda.class limit.class list minus nary-arith.class nary-constructor.class nary-functional.class nary-linalg.class nary-logical.class nary-minmax.class nary-reln.class nary-set-reln.class nary-set.class nary-stats.class neg otherwise partialdiff.class piece piecewise power product.class quantifier.class quotient real rem root set sum.class tendsto unary-elementary.class unary-functional.class unary-linalg.class unary-logical.class unary-set.class unary-veccalc.class				
	attributeGroups	annotation.attributes cbytes.attributes ci.attributes cn.attributes cs.attributes csymbol.attributes semantics.attributes				
attributes	Name encoding definitionURL	Type xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<code><xs:attributeGroup name="DefEncAtt"></code> <code> <xs:attribute name="encoding" type="xs:string"/></code> <code> <xs:attribute name="definitionURL" type="xs:anyURI"/></code> <code></xs:attributeGroup></code>					

attribute **DefEncAtt/@encoding**

type	xs:string
source	<code><xs:attribute name="encoding" type="xs:string"/></code>

attribute **DefEncAtt/@definitionURL**

type	xs:anyURI
source	<code><xs:attribute name="definitionURL" type="xs:anyURI"/></code>

attributeGroup **math.deprecatedattributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	attributeGroup math.attributes					
attributes	Name mode macros	Type xs:string xs:string	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="math.deprecatedattributes"> <xs:attribute name="mode" type="xs:string"/> <xs:attribute name="macros" type="xs:string"/> </xs:attributeGroup></pre>					

attribute **math.deprecatedattributes/@mode**

type	xs:string
source	<pre><xs:attribute name="mode" type="xs:string"/></pre>

attribute **math.deprecatedattributes/@macros**

type	xs:string
source	<pre><xs:attribute name="macros" type="xs:string"/></pre>

attributeGroup **name**

namespace	http://www.w3.org/1998/Math/MathML					
attributes	Name name	Type xs:NCName	Use required	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="name"> <xs:attribute name="name" type="xs:NCName" use="required"/> </xs:attributeGroup></pre>					

attribute **name/@name**

type	xs:NCName
properties	use required
source	<pre><xs:attribute name="name" type="xs:NCName" use="required"/></pre>

attributeGroup **semantics.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	elements semantics-ci/semantics semantics-contexp/semantics semantics/semantics					
attributes	Name id xref class style	Type xs:ID xs:NMTOKENS xs:string	Use	Default	Fixed	Annotation

	href xs:anyURI other encoding xs:string definitionURL xs:anyURI cd xs:NCName name xs:NCName
source	<xs:attributeGroup name="semantics.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:DefEncAtt"/> <xs:attribute name="cd" type="xs:NCName"/> <xs:attribute name="name" type="xs:NCName"/> </xs:attributeGroup>

attribute **semantics.attributes/@cd**

type	xs:NCName
source	<xs:attribute name="cd" type="xs:NCName"/>

attribute **semantics.attributes/@name**

type	xs:NCName
source	<xs:attribute name="name" type="xs:NCName"/>

attributeGroup **src**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element share					
	attributeGroup annotation.attributes					
attributes	Name src	Type xs:anyURI	Use	Default	Fixed	Annotation
source	<xs:attributeGroup name="src"> <xs:attribute name="src" type="xs:anyURI"/> </xs:attributeGroup>					

attribute **src/@src**

type	xs:anyURI
source	<xs:attribute name="src" type="xs:anyURI"/>

element **apply**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
type	extension of m:apply.content
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-

	arith.class m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:degree m:momentabout m:logbase					
used by	group ContExp					
attributes	Name id xref class style href other	Type xs:ID xs:NMTOKENS xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="apply"> <xs:complexType> <xs:complexContent> <xs:extension base="m:apply.content"> <xs:attributeGroup ref="m:CommonAtt"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

element **bind**

diagram	
namespace	http://www.w3.org/1998/Math/MathML
type	extension of m:bind.content
properties	content complex
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerr m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-creator.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-

	arith.class m:bvar m:domainofapplication m:condition m:lowlimit m:uplimit m:degree m:momentabout m:logbase					
used by	group ContExp					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
source	<pre> <xs:element name="bind"> <xs:complexType> <xs:complexContent> <xs:extension base="m:bind.content"> <xs:attributeGroup ref="m:CommonAtt"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

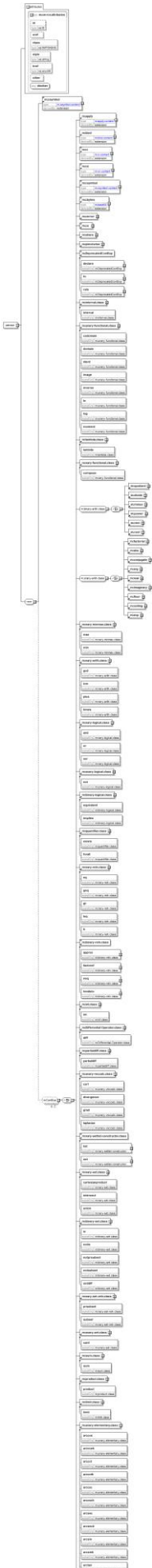
element cbytes

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:base64					
properties	content complex					
used by	group ContExp					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					

	id xs:ID xref class xs:NMTOKENS style xs:string href xs:anyURI other encoding xs:string definitionURL xs:anyURI
source	<pre><xs:element name="cbytes"> <xs:complexType> <xs:simpleContent> <xs:extension base="m:base64"> <xs:attributeGroup ref="m:cbytes.attributes"/> </xs:extension> </xs:simpleContent> </xs:complexType> </xs:element></pre>

element **error**

diagram



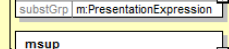
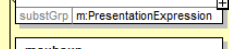
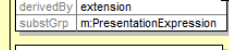
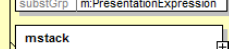
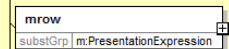
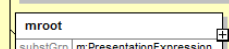
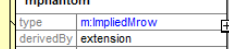
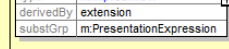
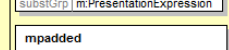
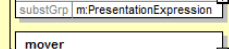
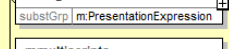
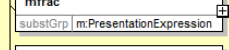
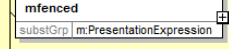
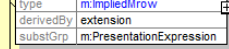
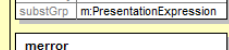
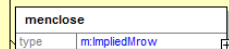
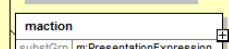
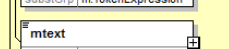
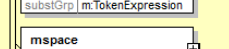
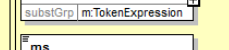
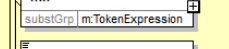
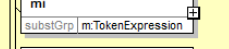
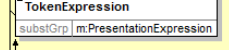
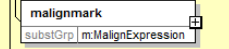
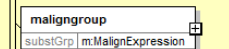
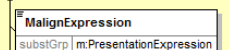
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:csymbol m:apply m:bind m:ci m:cn m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class					
used by	group ContExp					
attributes	Name id xref class style href other	Type xs:ID xs:NMTOKENS xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="cerror"> <xs:complexType> <xs:sequence> <xs:element ref="m:csymbol"/> <xs:group ref="m:ContExp" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> <xs:attributeGroup ref="m:cerror.attributes"/> </xs:complexType> </xs:element> </pre>					

element **ci**

diagram



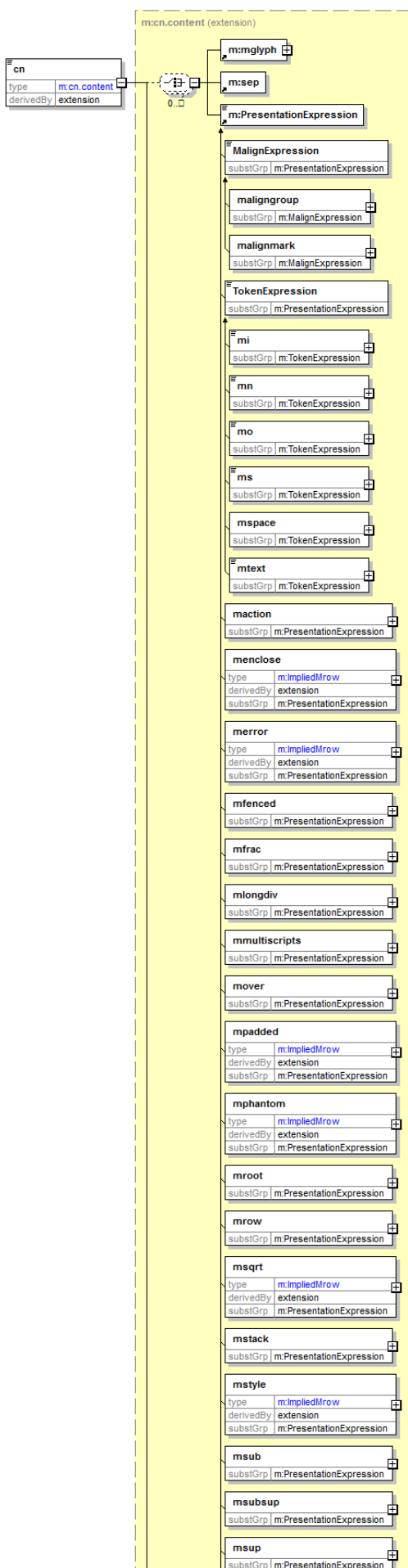
m:ci.content (extension)



namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:ci.content					
properties	content complex					
children	m:mglyph m:PresentationExpression					
used by	elements	bvar semantics-ci/semantics				
	group	ContExp				
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
	type					
source	<pre> <xs:element name="ci"> <xs:complexType> <xs:complexContent> <xs:extension base="m:ci.content"> <xs:attributeGroup ref="m:ci.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element> </pre>					

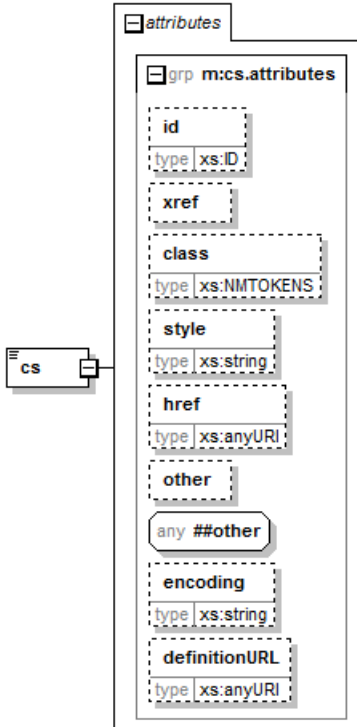
element **cn**

diagram



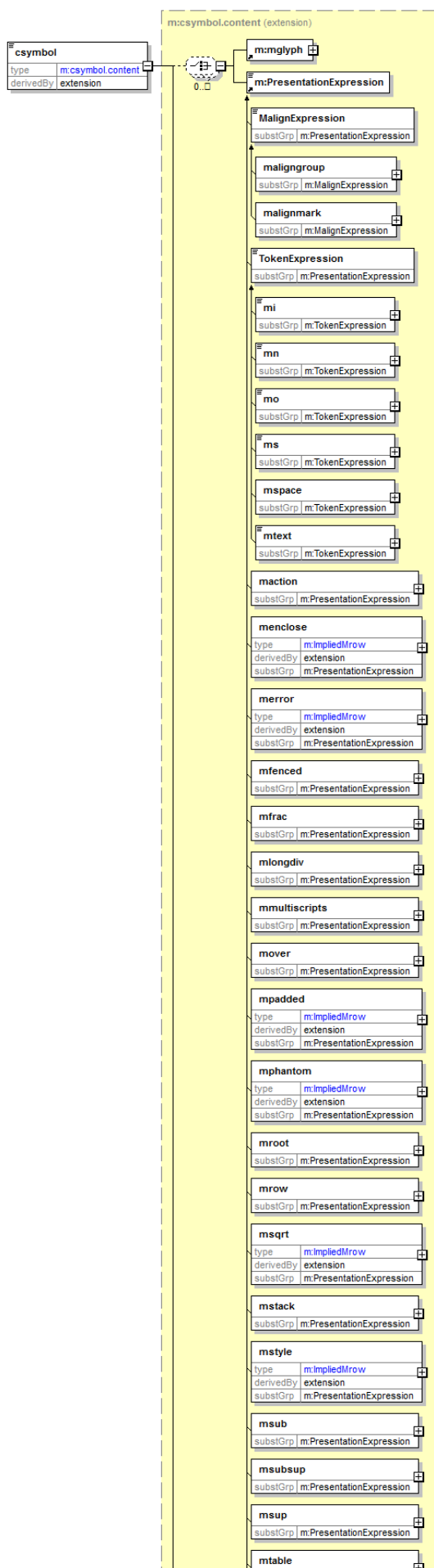
namespace	http://www.w3.org/1998/Math/MathML					
type	extension of m:cn.content					
properties	content complex					
children	m:mglyph m:sep m:PresentationExpression					
used by	group ContExp					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	encoding	xs:string				
	definitionURL	xs:anyURI				
	type					
base						
source	<xs:element name="cn"> <xs:complexType> <xs:complexContent> <xs:extension base="m:cn.content"> <xs:attributeGroup ref="m:cn.attributes"/> </xs:extension> </xs:complexContent> </xs:complexType> </xs:element>					

element cs

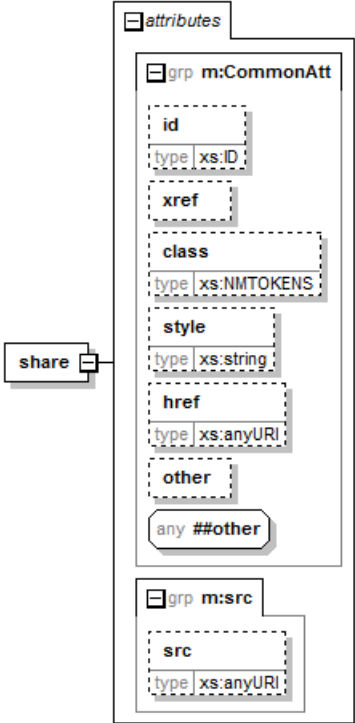
diagram																																																							
namespace	http://www.w3.org/1998/Math/MathML																																																						
properties	content mixed complex true																																																						
used by	group ContExp																																																						
attributes	<table><tr><th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr><tr><td>id</td><td>xs:ID</td><td></td><td></td><td></td><td></td></tr><tr><td>xref</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>class</td><td>xs:NMTOKENS</td><td></td><td></td><td></td><td></td></tr><tr><td>style</td><td>xs:string</td><td></td><td></td><td></td><td></td></tr><tr><td>href</td><td>xs:anyURI</td><td></td><td></td><td></td><td></td></tr><tr><td>other</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>encoding</td><td>xs:string</td><td></td><td></td><td></td><td></td></tr><tr><td>definitionURL</td><td>xs:anyURI</td><td></td><td></td><td></td><td></td></tr></table>	Name	Type	Use	Default	Fixed	Annotation	id	xs:ID					xref						class	xs:NMTOKENS					style	xs:string					href	xs:anyURI					other						encoding	xs:string					definitionURL	xs:anyURI				
Name	Type	Use	Default	Fixed	Annotation																																																		
id	xs:ID																																																						
xref																																																							
class	xs:NMTOKENS																																																						
style	xs:string																																																						
href	xs:anyURI																																																						
other																																																							
encoding	xs:string																																																						
definitionURL	xs:anyURI																																																						
source	<pre><xs:element name="cs"> <xs:complexType mixed="true"> <xs:attributeGroup ref="m:cs.attributes"/> </xs:complexType> </xs:element></pre>																																																						

element **csymbol**

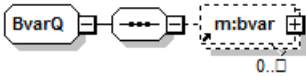
diagram



element share

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
used by	group ContExp					
attributes	Name	Type	Use	Default	Fixed	Annotation
	id	xs:ID				
	xref					
	class	xs:NMTOKENS				
	style	xs:string				
	href	xs:anyURI				
	other					
	src	xs:anyURI				
source	<pre><xs:element name="share"> <xs:complexType> <xs:attributeGroup ref="m:CommonAtt"/> <xs:attributeGroup ref="m:src"/> </xs:complexType> </xs:element></pre>					

group BvarQ

diagram						
namespace	http://www.w3.org/1998/Math/MathML					
children	m:bvar					

used by	elements lambda.class list nary-structor.class set complexType apply.content
source	<pre><xs:group name="BvarQ"> <xs:sequence> <xs:element ref="m:bvar" minOccurs="0" maxOccurs="unbounded"/> </xs:sequence> </xs:group></pre>

group **ContExp**

diagram	

namespace	http://www.w3.org/1998/Math/MathML		
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary- minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary- constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant- arith.class		
used by	elements	cerror condition declare degree domainofapplication fn interval.class lambda.class list logbase lowlimit semantics-contexp/semantics momentabout nary-constructor.class otherwise piece reln set uplimit	
	complexType group	apply.content MathExpression	
source	<pre><xs:group name="ContExp"> <xs:choice> <!--Ambiguous content model altered (ContExp)--> <xs:element ref="m:apply"/> <xs:element ref="m:bind"/> <xs:element ref="m:ci"/> <xs:element ref="m:cn"/> <xs:element ref="m:csymbol"/> <xs:element ref="m:cbytes"/> <xs:element ref="m:cerror"/> <xs:element ref="m:cs"/> <xs:element ref="m:share"/> <xs:element ref="m:piecewise"/> <xs:element ref="m:DeprecatedContExp"/> <xs:element ref="m:interval.class"/> <xs:element ref="m:unary-functional.class"/> <xs:element ref="m:lambda.class"/> <xs:element ref="m:nary-functional.class"/> <xs:group ref="m:binary-arith.class"/> <xs:group ref="m:unary-arith.class"/> <xs:element ref="m:nary-minmax.class"/> <xs:element ref="m:nary-arith.class"/> <xs:element ref="m:nary-logical.class"/> <xs:element ref="m:unary-logical.class"/> <xs:element ref="m:binary-logical.class"/> <xs:element ref="m:quantifier.class"/> <xs:element ref="m:nary-reln.class"/> <xs:element ref="m:binary-reln.class"/> <xs:element ref="m:int.class"/> <xs:element ref="m:Differential-Operator.class"/> <xs:element ref="m:partialdiff.class"/> <xs:element ref="m:unary-veccalc.class"/> <xs:element ref="m:nary-setlist-constructor.class"/> <xs:element ref="m:nary-set.class"/> <xs:element ref="m:binary-set.class"/> <xs:element ref="m:nary-set-reln.class"/> <xs:element ref="m:unary-set.class"/> <xs:element ref="m:sum.class"/> <xs:element ref="m:product.class"/> <xs:element ref="m:limit.class"/> <xs:element ref="m:unary-elementary.class"/> <xs:element ref="m:nary-stats.class"/></pre>		

	<pre><xs:element ref="m:nary-constructor.class"/> <xs:element ref="m:unary-linalg.class"/> <xs:element ref="m:nary-linalg.class"/> <xs:element ref="m:binary-linalg.class"/> <xs:element ref="m:constant-set.class"/> <xs:element ref="m:constant-arith.class"/> </xs:choice> </xs:group></pre>

group **MathExpression**

diagram



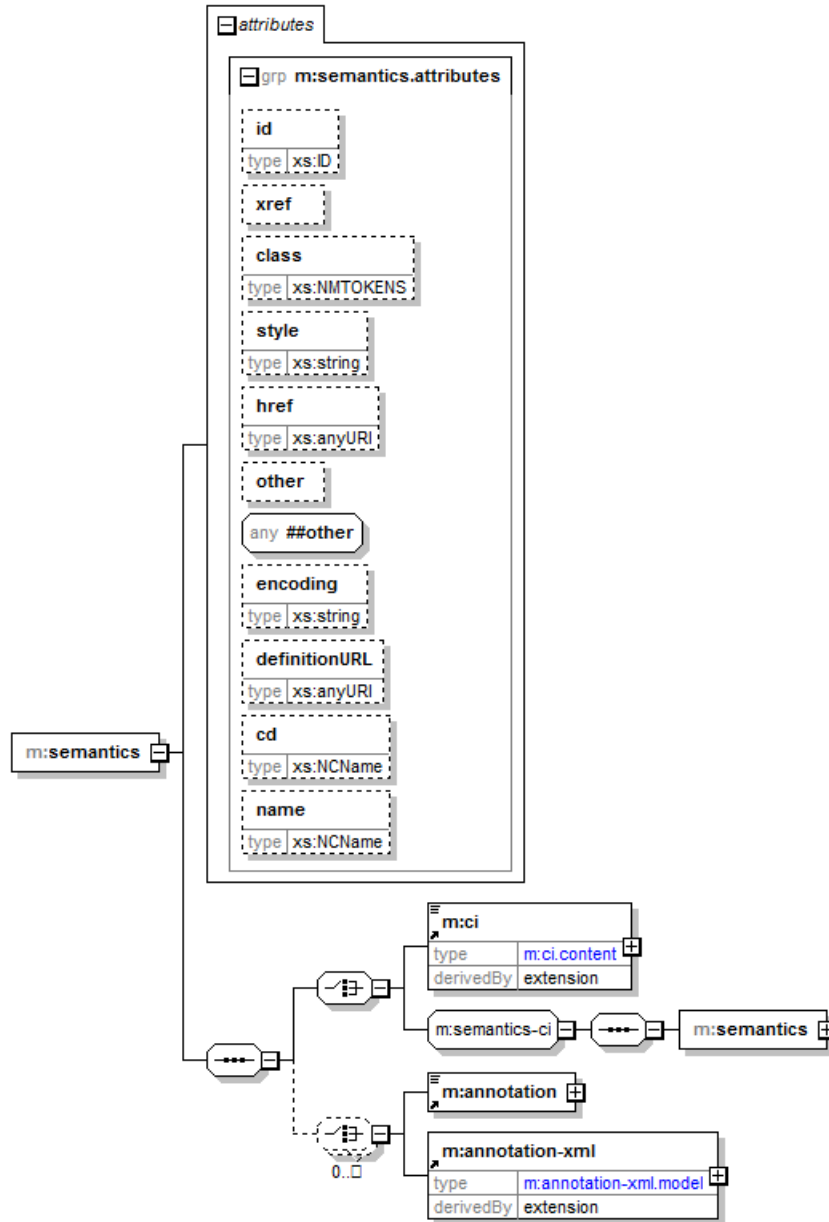
namespace	http://www.w3.org/1998/Math/MathML
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerron m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-ctor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-ctor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:PresentationExpression m:semantics
used by	elements semantics/semantics maction math mfenced mfrac mmultiscripts mover mroot mrow msub complexType msubsup msup munder munderover groups MrowExpression MstackExpression MultiScriptExpression
source	<pre><xs:group name="MathExpression"> <xs:choice> <xs:group ref="m:ContExp"/> <xs:element ref="m:PresentationExpression"/> <xs:group ref="m:semantics"/> </xs:choice> </xs:group></pre>

group semantics-ci

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:semantics
used by	elements bvar semantics-ci/semantics
source	<pre><xs:group name="semantics-ci"> <xs:sequence> <xs:element name="semantics"> <xs:complexType> <xs:sequence> <xs:choice> <xs:element ref="m:ci"/> <xs:group ref="m:semantics-ci"/> </xs:choice> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:annotation"/> <xs:element ref="m:annotation-xml"/> </xs:choice> </xs:sequence> </xs:complexType> </xs:element> <xs:attributeGroup ref="m:semantics.attributes"/> </xs:sequence> </xs:group></pre>

element **semantics-ci/semantics**

diagram



namespace <http://www.w3.org/1998/Math/MathML>

properties content complex

children [m:ci](#) [m:semantics](#) [m:annotation](#) [m:annotation-xml](#)

attributes	Name	Type	Use	Default	Fixed	Annotation
	id	<code>xs:ID</code>				
	xref					
	class	<code>xs:NMTOKENS</code>				
	style	<code>xs:string</code>				
	href	<code>xs:anyURI</code>				
	other					
	encoding	<code>xs:string</code>				

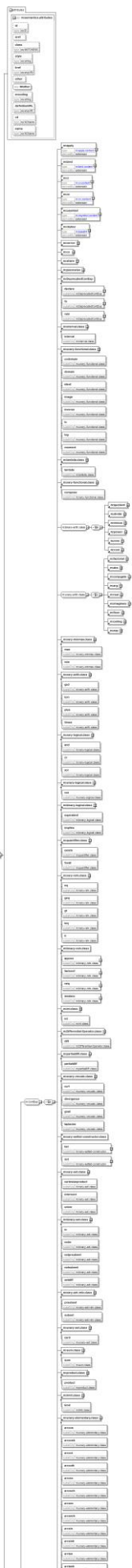
	definitionURL xs:anyURI cd xs:NCName name xs:NCName
source	<pre> <xs:element name="semantics"> <xs:complexType> <xs:sequence> <xs:choice> <xs:element ref="m:ci"/> <xs:group ref="m:semantics-ci"/> </xs:choice> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:annotation"/> <xs:element ref="m:annotation-xml"/> </xs:choice> </xs:sequence> <xs:attributeGroup ref="m:semantics.attributes"/> </xs:complexType> </xs:element> </pre>

group semantics-contexp

diagram	
namespace	http://www.w3.org/1998/Math/MathML
children	m:semantics
source	<pre> <xs:group name="semantics-contexp"> <xs:sequence> <xs:element name="semantics"> <xs:complexType> <xs:sequence> <xs:group ref="m:ContExp"/> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:annotation"/> <xs:element ref="m:annotation-xml"/> </xs:choice> </xs:sequence> <xs:attributeGroup ref="m:semantics.attributes"/> </xs:complexType> </xs:element> </xs:sequence> </xs:group> </pre>

element **semantics-contexp/semantics**

diagram



namespace	http://www.w3.org/1998/Math/MathML					
properties	content complex					
children	m:apply m:bind m:ci m:cn m:csymbol m:cbytes m:cerror m:cs m:share m:piecewise m:DeprecatedContExp m:interval.class m:unary-functional.class m:lambda.class m:nary-functional.class m:quotient m:divide m:minus m:power m:rem m:root m:factorial m:abs m:conjugate m:arg m:real m:imaginary m:floor m:ceiling m:exp m:nary-minmax.class m:nary-arith.class m:nary-logical.class m:unary-logical.class m:binary-logical.class m:quantifier.class m:nary-reln.class m:binary-reln.class m:int.class m:Differential-Operator.class m:partialdiff.class m:unary-veccalc.class m:nary-setlist-constructor.class m:nary-set.class m:binary-set.class m:nary-set-reln.class m:unary-set.class m:sum.class m:product.class m:limit.class m:unary-elementary.class m:nary-stats.class m:nary-constructor.class m:unary-linalg.class m:nary-linalg.class m:binary-linalg.class m:constant-set.class m:constant-arith.class m:annotation m:annotation-xml					
attributes	Name id xref class style href other encoding definitionURL cd name	Type xs:ID xs:NMTOKENS xs:string xs:anyURI xs:string xs:anyURI xs:NCName xs:NCName	Use	Default	Fixed	Annotation
source	<pre> <xs:element name="semantics"> <xs:complexType> <xs:sequence> <xs:group ref="m:ContExp"/> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:element ref="m:annotation"/> <xs:element ref="m:annotation-xml"/> </xs:choice> </xs:sequence> <xs:attributeGroup ref="m:semantics.attributes"/> </xs:complexType> </xs:element> </pre>					

simpleType base64

namespace	http://www.w3.org/1998/Math/MathML					
type	xs:base64Binary					
properties	base xs:base64Binary					
used by	element cbytes					
source	<pre> <xs:simpleType name="base64"> <xs:restriction base="xs:base64Binary"/> </xs:simpleType> </pre>					

simpleType SymbolName

namespace	http://www.w3.org/1998/Math/MathML					
type	xs:NCName					

properties	base xs:NCName
source	<pre><xs:simpleType name="SymbolName"> <xs:restriction base="xs:NCName"/> </xs:simpleType></pre>

attributeGroup **cerror.attributes**

namespace	http://www.w3.org/1998/Math/MathML					
used by	element cerror					
attributes	Name id xref class style href other	Type xs:ID xs:NMTOKENS xs:string xs:anyURI	Use	Default	Fixed	Annotation
source	<pre><xs:attributeGroup name="cerror.attributes"> <xs:attributeGroup ref="m:CommonAtt"/> </xs:attributeGroup></pre>					