

## DRAFT - Information Delivery Specification v0.4

More information on <https://github.com/buildingSMART/IDS/tree/master/Development>

schema location: [\*\*ids 04.xsd\*\*](#)  
attributeFormDefault: **unqualified**  
elementFormDefault: **qualified**  
targetNamespace: <http://standards.buildingsmart.org/IDS>

Elements Complex types  
[\*\*ids\*\*](#) [\*\*applicabilityType\*\*](#)  
[\*\*classificationType\*\*](#)  
[\*\*entityType\*\*](#)  
[\*\*idsType\*\*](#)  
[\*\*idsValue\*\*](#)  
[\*\*materialType\*\*](#)  
[\*\*propertyType\*\*](#)  
[\*\*requirementsType\*\*](#)  
[\*\*specificationType\*\*](#)  
[\*\*systemType\*\*](#)

attributeFormDefault:  
elementFormDefault:  
targetNamespace: <http://www.w3.org/XML/1998/namespace>

Attributes Attr. groups  
[\*\*base\*\*](#) [\*\*specialAttrs\*\*](#)  
[\*\*id\*\*](#)  
[\*\*lang\*\*](#)  
[\*\*space\*\*](#)

schema location: <https://www.w3.org/2001/XMLSchema.xsd>  
attributeFormDefault:  
elementFormDefault: **qualified**  
blockDefault: **#all**  
targetNamespace: <http://www.w3.org/2001/XMLSchema>

Elements	Groups	Complex types	Simple types	Attr. group s	Notations
<a href="#">all</a>	<a href="#">allModel</a>	<a href="#">all</a>	<a href="#">allNNI</a>	<a href="#">defRe</a>	<a href="#">XML</a>
<a href="#">annotation</a>	<a href="#">attrDecls</a>	<a href="#">annotated</a>	<a href="#">anyURI</a>	<a href="#">f occurs</a>	<a href="#">XMLSchemaStructure</a>
<a href="#">any</a>	<a href="#">complexTypeModel</a>	<a href="#">anyType</a>	<a href="#">base64Binary</a>		
<a href="#">anyAttribute</a>	<a href="#">facets</a>	<a href="#">attribute</a>	<a href="#">blockSet</a>		
<a href="#">appinfo</a>	<a href="#">identityConstraint</a>	<a href="#">attributeGroup</a>	<a href="#">boolean</a>		
<a href="#">attribute</a>	<a href="#">nestedParticle</a>	<a href="#">attributeGroupRef</a>	<a href="#">byte</a>		
<a href="#">attributeGroup</a>	<a href="#">particle</a>	<a href="#">complexRestrictionTyp e</a>	<a href="#">date</a>		
<a href="#">choice</a>	<a href="#">redefinable</a>	<a href="#">complexType</a>	<a href="#">dateTime</a>		
<a href="#">complexContent</a>	<a href="#">schemaTop</a>	<a href="#">element</a>	<a href="#">decimal</a>		
<a href="#">complexType</a>	<a href="#">simpleDerivation</a>	<a href="#">explicitGroup</a>	<a href="#">derivationControl</a>		
<a href="#">documentation</a>	<a href="#">simpleRestrictionMod el</a>	<a href="#">extensionType</a>	<a href="#">derivationSet</a>		
<a href="#">element</a>	<a href="#">typeDefParticle</a>	<a href="#">facet</a>	<a href="#">double</a>		
<a href="#">enumeration</a>		<a href="#">group</a>	<a href="#">duration</a>		
<a href="#">field</a>		<a href="#">groupRef</a>	<a href="#">ENTITIES</a>		
<a href="#">fractionDigits</a>		<a href="#">keybase</a>	<a href="#">ENTITY</a>		
<a href="#">group</a>		<a href="#">localComplexType</a>	<a href="#">float</a>		
<a href="#">import</a>		<a href="#">localElement</a>	<a href="#">formChoice</a>		
<a href="#">include</a>		<a href="#">localSimpleType</a>	<a href="#">fullDerivationSet</a>		
<a href="#">key</a>		<a href="#">namedAttributeGroup</a>	<a href="#">gDay</a>		
<a href="#">keyref</a>		<a href="#">namedGroup</a>	<a href="#">gMonth</a>		
<a href="#">length</a>		<a href="#">narrowMaxMin</a>	<a href="#">gMonthDay</a>		
<a href="#">list</a>		<a href="#">noFixedFacet</a>	<a href="#">gYear</a>		
<a href="#">maxExclusive</a>		<a href="#">numFacet</a>	<a href="#">gYearMonth</a>		
<a href="#">maxInclusive</a>		<a href="#">openAttrs</a>	<a href="#">hexBinary</a>		
<a href="#">maxLength</a>		<a href="#">realGroup</a>	<a href="#">ID</a>		
<a href="#">minExclusive</a>		<a href="#">restrictionType</a>	<a href="#">IDREF</a>		
<a href="#">minInclusive</a>		<a href="#">simpleExplicitGroup</a>	<a href="#">IDREFS</a>		
<a href="#">minLength</a>		<a href="#">simpleExtensionType</a>	<a href="#">int</a>		
<a href="#">notation</a>		<a href="#">simpleRestrictionType</a>	<a href="#">integer</a>		
<a href="#">pattern</a>		<a href="#">simpleType</a>	<a href="#">language</a>		
<a href="#">redefine</a>		<a href="#">topLevelAttribute</a>	<a href="#">long</a>		
<a href="#">restriction</a>		<a href="#">topLevelComplexType</a>	<a href="#">Name</a>		
<a href="#">schema</a>		<a href="#">topLevelElement</a>	<a href="#">namespaceList</a>		
<a href="#">selector</a>		<a href="#">topLevelSimpleType</a>	<a href="#">NCName</a>		
<a href="#">sequence</a>		<a href="#">wildcard</a>	<a href="#">negativeInteger</a>		
<a href="#">simpleContent</a>			<a href="#">NMTOKEN</a>		
<a href="#">simpleType</a>			<a href="#">NMTOKENS</a>		
<a href="#">totalDigits</a>			<a href="#">nonNegativeInteger</a>		
<a href="#">union</a>			<a href="#">nonPositiveInteger</a>		
<a href="#">unique</a>			<a href="#">normalizedString</a>		

[whiteSpace](#)

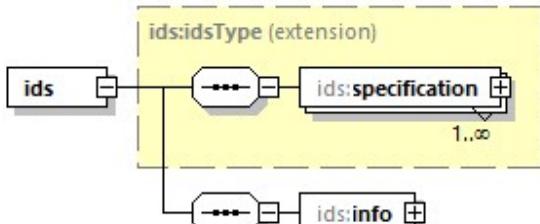
[NOTATION](#)  
[positiveInteger](#)  
[public](#)  
[QName](#)  
[reducedDerivationContr](#)  
[ol](#)  
[short](#)  
[simpleDerivationSet](#)  
[string](#)  
[time](#)  
[token](#)  
[typeDerivationControl](#)  
[unsignedByte](#)  
[unsignedInt](#)  
[unsignedLong](#)  
[unsignedShort](#)

schema location: <http://www.w3.org/2001/XMLSchema-instance>  
attributeFormDefault:  
elementFormDefault:  
targetNamespace: <http://www.w3.org/2001/XMLSchema-instance>

## Attributes

[nil](#)  
[noNamespaceSchemaLocation](#)  
[schemaLocation](#)  
[type](#)

**element ids**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	extension of <a href="#">ids:idsType</a>
properties	content complex
children	<a href="#">ids:specification</a> <a href="#">ids:info</a>
source	<pre> &lt;xs:element name="ids"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:idsType"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="info"&gt;             &lt;xs:complexType&gt;               &lt;xs:choice maxOccurs="unbounded"&gt;                 &lt;xs:element name="ifcversion"&gt;                   &lt;xs:simpleType&gt;                     &lt;xs:restriction base="xs:string"&gt;                       &lt;xs:enumeration value="2.3.0.1"/&gt;                       &lt;xs:enumeration value="4.0.2.1"/&gt;                       &lt;xs:enumeration value="4.3.0.0"/&gt;                     &lt;/xs:restriction&gt;                   &lt;/xs:simpleType&gt;                 &lt;/xs:element&gt;               &lt;xs:element name="description" type="xs:string" minOccurs="0"/&gt;               &lt;xs:element name="author" minOccurs="0"&gt;                 &lt;xs:simpleType&gt;                   &lt;xs:restriction base="xs:string"&gt;                     &lt;xs:pattern value="[^@]+@[^\.\.]+\.\.+" /&gt;                   &lt;/xs:restriction&gt;                 &lt;/xs:simpleType&gt;               &lt;/xs:element&gt;               &lt;xs:element name="copyright" type="xs:string"/&gt;               &lt;xs:element name="version" type="xs:decimal"/&gt;               &lt;xs:element name="date" type="xs:date"/&gt;               &lt;xs:element name="purpose" type="xs:string" minOccurs="0"/&gt;               &lt;xs:element name="milestone" type="xs:string" minOccurs="0"/&gt;             &lt;/xs:choice&gt;           &lt;/xs:complexType&gt;         &lt;/xs:sequence&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

	<pre>&lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>
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element **ids/info**

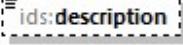
diagram	<pre> graph LR     subgraph ids_info [ids:info]         direction TB         ifcversion[ids:ifcversion] --- 1         description[ids:description]         author[ids:author]         copyright[ids:copyright]         version[ids:version]         date[ids:date]         purpose[ids:purpose]         milestone[ids:milestone]     end     1 --- ifcversion     1 --- description     1 --- author     1 --- copyright     1 --- version     1 --- date     1 --- purpose     1 --- milestone </pre>
namespace	http://standards.buildingsmart.org/IDS
properties	content complex
children	<a href="#">ids:ifcversion</a> <a href="#">ids:description</a> <a href="#">ids:author</a> <a href="#">ids:copyright</a> <a href="#">ids:version</a> <a href="#">ids:date</a> <a href="#">ids:purpose</a> <a href="#">ids:milestone</a>
source	<pre> &lt;xs:element name="info"&gt;   &lt;xs:complexType&gt;     &lt;xs:choice maxOccurs="unbounded"&gt;       &lt;xs:element name="ifcversion"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:string"&gt;             &lt;xs:enumeration value="2.3.0.1"/&gt;             &lt;xs:enumeration value="4.0.2.1"/&gt;             &lt;xs:enumeration value="4.3.0.0"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:element&gt;       &lt;xs:element name="description" type="xs:string" minOccurs="0"/&gt;       &lt;xs:element name="author" minOccurs="0"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:string"&gt;             &lt;xs:pattern value="[@]+@[^\.\.]+\..+/"&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:element&gt;       &lt;xs:element name="copyright" type="xs:string"/&gt;       &lt;xs:element name="version" type="xs:decimal"/&gt;       &lt;xs:element name="date" type="xs:date"/&gt;       &lt;xs:element name="purpose" type="xs:string" minOccurs="0"/&gt;       &lt;xs:element name="milestone" type="xs:string" minOccurs="0"/&gt;     &lt;/xs:choice&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

	<pre>&lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>
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**element ids/info/ifcversion**

diagram	 <b>ids:ifcversion</b>												
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>												
type	restriction of <b>xs:string</b>												
properties	content simple												
facets	<table> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>2.3.0.1</td> <td></td> </tr> <tr> <td>enumeration</td> <td>4.0.2.1</td> <td></td> </tr> <tr> <td>enumeration</td> <td>4.3.0.0</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	2.3.0.1		enumeration	4.0.2.1		enumeration	4.3.0.0	
Kind	Value	Annotation											
enumeration	2.3.0.1												
enumeration	4.0.2.1												
enumeration	4.3.0.0												
source	<pre>&lt;xs:element name="ifcversion"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="2.3.0.1"/&gt;       &lt;xs:enumeration value="4.0.2.1"/&gt;       &lt;xs:enumeration value="4.3.0.0"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>												

**element ids/info/description**

diagram	 <b>ids:description</b>						
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>						
type	<b>xs:string</b>						
properties	<table> <thead> <tr> <th>minOcc</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>maxOcc</td> <td>1</td> </tr> <tr> <td>content</td> <td>simple</td> </tr> </tbody> </table>	minOcc	0	maxOcc	1	content	simple
minOcc	0						
maxOcc	1						
content	simple						
source	<pre>&lt;xs:element name="description" type="xs:string" minOccurs="0"/&gt;</pre>						

**element ids/info/author**

diagram	 <b>ids:author</b>						
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>						
type	restriction of <b>xs:string</b>						
properties	<table> <thead> <tr> <th>minOcc</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>maxOcc</td> <td>1</td> </tr> <tr> <td>content</td> <td>simple</td> </tr> </tbody> </table>	minOcc	0	maxOcc	1	content	simple
minOcc	0						
maxOcc	1						
content	simple						

facets	Kind Value Annotation
	pattern [^@]+@[^\n]+\\..+
source	<pre>&lt;xs:element name="author" minOccurs="0"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:pattern value="[^@]+@[^\n.]+\\..+/"&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:element&gt;</pre>

#### element **ids/info/copyright**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<b>xs:string</b>
properties	content simple
source	<pre>&lt;xs:element name="copyright" type="xs:string"/&gt;</pre>

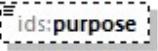
#### element **ids/info/version**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<b>xs:decimal</b>
properties	content simple
source	<pre>&lt;xs:element name="version" type="xs:decimal"/&gt;</pre>

#### element **ids/info/date**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<b>xs:date</b>
properties	content simple
source	<pre>&lt;xs:element name="date" type="xs:date"/&gt;</pre>

#### element **ids/info/purpose**

diagram	
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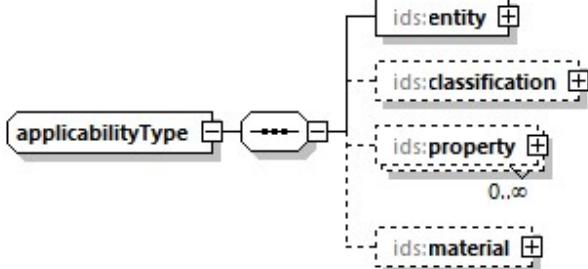
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
source	<xs:element name="purpose" type="xs:string" minOccurs="0"/>

### element ids/info/milestone

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple

source <xs:element name="milestone" type="xs:string" minOccurs="0"/>

### complexType applicabilityType

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
children	<b>ids:entity</b> <b>ids:classification</b> <b>ids:property</b> <b>ids:material</b>
used by	element <a href="#">specificationType/applicability</a>
source	<pre> &lt;xs:complexType name="applicabilityType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="entity" type="ids:entityType"/&gt;     &lt;xs:element name="classification" type="ids:classificationType"       minOccurs="0"/&gt;     &lt;xs:element name="property" minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:complexType&gt;         &lt;xs:complexContent&gt;           &lt;xs:extension base="ids:propertyType"/&gt;         &lt;/xs:complexContent&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;     &lt;xs:element name="material" minOccurs="0"&gt;       &lt;xs:complexType&gt;     </pre>

	<pre> &lt;xs:complexType&gt;   &lt;xs:extension base="ids:materialType"/&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>
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### element applicabilityType/entity

diagram	
namespace	http://standards.buildingsmart.org/IDS
type	<a href="#">ids:entityType</a>
properties	content complex
children	<a href="#">ids:name</a> <a href="#">ids:predefinedtype</a>
source	<xs:element name="entity" type="ids:entityType"/>

### element applicabilityType/classification

diagram							
namespace	http://standards.buildingsmart.org/IDS						
type	<a href="#">ids:classificationType</a>						
properties	minOcc 0 maxOcc 1 content complex						
children	<a href="#">ids:value</a> <a href="#">ids:system</a>						
attributes	<table> <tr> <td>Name <a href="#">location</a></td> <td>Type <b>derived by:</b> <a href="#">xs:string</a></td> <td>Use required</td> <td>Default</td> <td>Fixed</td> <td>Annotation</td> </tr> </table>	Name <a href="#">location</a>	Type <b>derived by:</b> <a href="#">xs:string</a>	Use required	Default	Fixed	Annotation
Name <a href="#">location</a>	Type <b>derived by:</b> <a href="#">xs:string</a>	Use required	Default	Fixed	Annotation		
source	<xs:element name="classification" type="ids:classificationType" minOccurs="0"/>						

### element applicabilityType/property

diagram	<pre> classDiagram     class ids_propertyType {         &lt;&lt;extension&gt;&gt;         attribute location         association "0..∞" to ids_property         association to ids_propertyset         association to ids_name         association to ids_value     }     class ids_property     class ids_propertyset     class ids_name     class ids_value   </pre>												
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>												
type	extension of <a href="#">ids:propertyType</a>												
properties	minOcc 0 maxOcc unbounded content complex												
children	<a href="#">ids:propertyset</a> <a href="#">ids:name</a> <a href="#">ids:value</a>												
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><a href="#">location</a></td> <td><a href="#">xs:string</a></td> <td><b>derived by:</b></td> <td>required</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">location</a>	<a href="#">xs:string</a>	<b>derived by:</b>	required		
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">location</a>	<a href="#">xs:string</a>	<b>derived by:</b>	required										
source	<pre> &lt;xsd:element name="property" minOccurs="0" maxOccurs="unbounded"&gt;   &lt;xsd:complexType&gt;     &lt;xsd:complexContent&gt;       &lt;xsd:extension base="ids:propertyType"/&gt;     &lt;/xsd:complexContent&gt;   &lt;/xsd:complexType&gt; &lt;/xsd:element&gt;   </pre>												

### element applicabilityType/material

diagram	<pre> classDiagram     class ids_materialType {         &lt;&lt;extension&gt;&gt;         attribute location         association to ids_value     }     class ids_material     class ids_value   </pre>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	extension of <a href="#">ids:materialType</a>
properties	minOcc 0 maxOcc 1

	content	complex				
children	<a href="#">ids:value</a>					
attributes	Name <a href="#">location</a>	Type <b>derived by:</b> <a href="#">xs:string</a>	Use required	Default	Fixed	Annotation
source	<pre>&lt;xs:element name="material" minOccurs="0"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:materialType"/&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>					

complexType **classificationType**

diagram	<pre> classDiagram     class classificationType     class attributes {         location     }     classificationType "1..2" --&gt; ids:value     ids:value --&gt; dashedLine     dashedLine --&gt; ids:system   </pre>					
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>					
children	<a href="#">ids:value</a> <a href="#">ids:system</a>					
used by	elements <a href="#">applicabilityType</a> / <a href="#">classification requirementsType</a> / <a href="#">classification</a>					
attributes	Name <a href="#">location</a>	Type <b>derived by:</b> <a href="#">xs:string</a>	Use required	Default	Fixed	Annotation
source	<pre>&lt;xs:complexType name="classificationType"&gt;   &lt;xs:sequence maxOccurs="2"&gt;     &lt;xs:element name="value" type="ids:idsValue"/&gt;     &lt;xs:element name="system" type="ids:idsValue" minOccurs="0"/&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="location" use="required"&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:enumeration value="type"/&gt;         &lt;xs:enumeration value="instance"/&gt;         &lt;xs:enumeration value="any"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt;</pre>					

attribute **classificationType/@location**

type	restriction of <a href="#">xs:string</a>
------	--

properties	use required												
facets	<table> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>type</td> <td></td> </tr> <tr> <td>enumeration</td> <td>instance</td> <td></td> </tr> <tr> <td>enumeration</td> <td>any</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	type		enumeration	instance		enumeration	any	
Kind	Value	Annotation											
enumeration	type												
enumeration	instance												
enumeration	any												
source	<pre>&lt;xs:attribute name="location" use="required"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="type"/&gt;       &lt;xs:enumeration value="instance"/&gt;       &lt;xs:enumeration value="any"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>												

### element classificationType/value

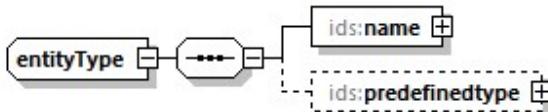
diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:idsValue</a>
properties	content complex
children	<a href="#">ids:simpleValue</a> <a href="#">xs:restriction</a>
source	<pre>&lt;xs:element name="value" type="ids:idsValue"/&gt;</pre>

### element classificationType/system

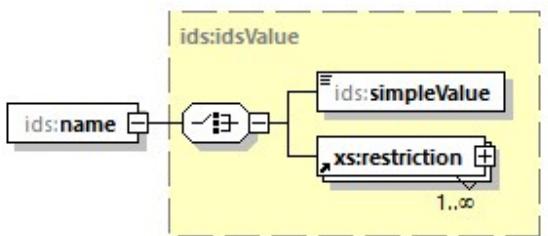
diagram							
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>						
type	<a href="#">ids:idsValue</a>						
properties	<table> <thead> <tr> <th>minOcc</th> <th>0</th> </tr> </thead> <tbody> <tr> <td>maxOcc</td> <td>1</td> </tr> <tr> <td>content</td> <td>complex</td> </tr> </tbody> </table>	minOcc	0	maxOcc	1	content	complex
minOcc	0						
maxOcc	1						
content	complex						

children	<a href="#">ids:simpleValue xs:restriction</a>
source	<xs:element name="system" type="ids:idsValue" minOccurs="0"/>

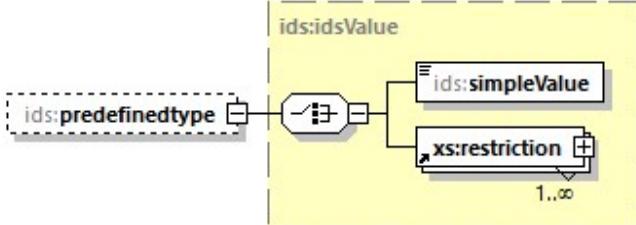
### complexType entityType

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
children	<a href="#">ids:name</a> <a href="#">ids:predefinedtype</a>
used by	elements <a href="#">applicabilityType/entity requirementsType/entity</a>
source	<pre>&lt;xs:complexType name="entityType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="name" type="ids:idsValue"/&gt;     &lt;xs:element name="predefinedtype" type="ids:idsValue" minOccurs="0"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt;</pre>

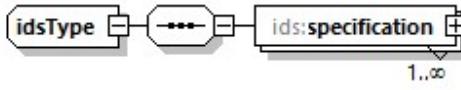
### element entityType/name

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:idsValue</a>
properties	content complex
children	<a href="#">ids:simpleValue</a> <a href="#">xs:restriction</a>
source	<xs:element name="name" type="ids:idsValue"/>

### element **entityType/predefinedtype**

diagram							
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>						
type	<a href="#">ids:idsValue</a>						
properties	<table> <tr> <td>minOcc</td><td>0</td></tr> <tr> <td>maxOcc</td><td>1</td></tr> <tr> <td>content</td><td>complex</td></tr> </table>	minOcc	0	maxOcc	1	content	complex
minOcc	0						
maxOcc	1						
content	complex						
children	<a href="#">ids:simpleValue</a> <a href="#">xs:restriction</a>						
source	<code>&lt;xs:element name="predefinedtype" type="ids:idsValue" minOccurs="0"/&gt;</code>						

### complexType **idsType**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
children	<a href="#">ids:specification</a>
used by	element <a href="#">ids</a>
source	<code>&lt;xs:complexType name="idsType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="specification" type="ids:specificationType" minOccurs="1"       maxOccurs="unbounded"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt;</code>

### element **idsType/specification**

diagram	<pre> classDiagram     class idsSpecification {         name         necessity     }     class idsSpecificationType {         attributes     }     class idsApplicability     class idsRequirements      idsSpecification "1..∞" -- "*" idsSpecificationType     idsSpecification "*" -- "+" idsApplicability     idsSpecification "*" -- "+" idsRequirements   </pre>																								
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>																								
type	<a href="#">ids:specificationType</a>																								
properties	<table> <tr> <td>minOcc</td><td>1</td></tr> <tr> <td>maxOcc</td><td>unbounded</td></tr> <tr> <td>content</td><td>complex</td></tr> </table>	minOcc	1	maxOcc	unbounded	content	complex																		
minOcc	1																								
maxOcc	unbounded																								
content	complex																								
children	<a href="#">ids:applicability</a> <a href="#">ids:requirements</a>																								
attributes	<table> <tr> <td>Name</td><td>Type</td><td>Use</td><td>Default</td><td>Fixed</td><td>Annotation</td></tr> <tr> <td><a href="#">name</a></td><td><a href="#">xs:string</a></td><td>optional</td><td></td><td></td><td></td></tr> <tr> <td><a href="#">necessity</a></td><td><a href="#">derived by:</a></td><td>required</td><td></td><td></td><td></td></tr> <tr> <td></td><td><a href="#">xs:string</a></td><td></td><td></td><td></td><td></td></tr> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">name</a>	<a href="#">xs:string</a>	optional				<a href="#">necessity</a>	<a href="#">derived by:</a>	required					<a href="#">xs:string</a>				
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">name</a>	<a href="#">xs:string</a>	optional																							
<a href="#">necessity</a>	<a href="#">derived by:</a>	required																							
	<a href="#">xs:string</a>																								
source	<pre> &lt;xs:element name="specification" type="ids:specificationType" minOccurs="1" maxOccurs="unbounded"/&gt;   </pre>																								

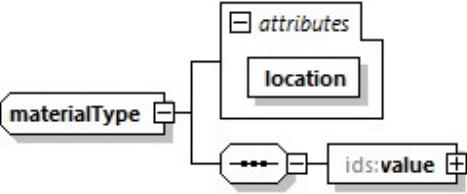
### complexType **idsValue**

diagram	<pre> complexTypeDiagram     choice {         simpleType "ids:simpleValue"         complexType "xs:restriction" "1..∞"     }   </pre>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
children	<a href="#">ids:simpleValue</a> <a href="#">xs:restriction</a>
used by	elements <a href="#">entityType/name</a> <a href="#">propertyType/name</a> <a href="#">entityType/predefinedtype</a> <a href="#">propertyType/propertyset</a> <a href="#">classificationType/system</a> <a href="#">classificationType/value</a> <a href="#">propertyType/value</a> <a href="#">materialType/value</a>
source	<pre> &lt;xs:complexType name="idsValue"&gt;     &lt;xs:choice minOccurs="1"&gt;         &lt;!-- place for potential additional rules for idsValue --&gt;         &lt;xs:element name="simpleValue" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;         &lt;xs:element ref="xs:restriction" minOccurs="1" maxOccurs="unbounded"/&gt;     &lt;/xs:choice&gt; &lt;/xs:complexType&gt;   </pre>

**element idsValue/simpleValue**

diagram	
namespace	http://standards.buildingsmart.org/IDS
type	<b>xs:string</b>
properties	content simple
source	<xs:element name="simpleValue" type="xs:string" minOccurs="1" maxOccurs="1"/>

**complexType materialType**

diagram													
namespace	http://standards.buildingsmart.org/IDS												
children	<a href="#">ids:value</a>												
used by	elements <a href="#">applicabilityType/material requirementsType/material</a>												
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><a href="#">location</a></td> <td><b>derived by:</b> xs:string</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">location</a>	<b>derived by:</b> xs:string	required			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">location</a>	<b>derived by:</b> xs:string	required											
source	<pre>&lt;xs:complexType name="materialType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="value" type="ids:idsValue"/&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="location" use="required"&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:enumeration value="type"/&gt;         &lt;xs:enumeration value="instance"/&gt;         &lt;xs:enumeration value="any"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt;</pre>												

**attribute materialType/@location**

type	restriction of <b>xs:string</b>												
properties	use required												
facets	<table> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>type</td> <td></td> </tr> <tr> <td>enumeration</td> <td>instance</td> <td></td> </tr> <tr> <td>enumeration</td> <td>any</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	type		enumeration	instance		enumeration	any	
Kind	Value	Annotation											
enumeration	type												
enumeration	instance												
enumeration	any												

source	<pre>&lt;x:attribute name="location" use="required"&gt;   &lt;x:simpleType&gt;     &lt;x:restriction base="x:string"&gt;       &lt;x:enumeration value="type"/&gt;       &lt;x:enumeration value="instance"/&gt;       &lt;x:enumeration value="any"/&gt;     &lt;/x:restriction&gt;   &lt;/x:simpleType&gt; &lt;/x:attribute&gt;</pre>
--------	---

### element materialType/value

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:idsValue</a>
properties	content complex
children	<a href="#">ids:simpleValue xs:restriction</a>
source	<pre>&lt;x:element name="value" type="ids:idsValue"/&gt;</pre>

### complexType propertyType

diagram													
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>												
children	<a href="#">ids:propertyset ids:name ids:value</a>												
used by	elements <a href="#">applicabilityType/property requirementsType/property</a>												
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><a href="#">location</a></td> <td><b>derived by:</b> <a href="#">xs:string</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">location</a>	<b>derived by:</b> <a href="#">xs:string</a>	required			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">location</a>	<b>derived by:</b> <a href="#">xs:string</a>	required											
source	<pre>&lt;x:complexType name="propertyType"&gt;</pre>												

```

<xs:sequence>
  <xs:element name="propertyset" type="ids:idsValue"/>
  <xs:element name="name" type="ids:idsValue"/>
  <xs:element name="value" type="ids:idsValue"/>
</xs:sequence>
<xs:attribute name="location" use="required">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:enumeration value="type"/>
      <xs:enumeration value="instance"/>
      <xs:enumeration value="any"/>
    </xs:restriction>
  </xs:simpleType>
</xs:attribute>
</xs:complexType>

```

#### attribute **propertyType/@location**

type	restriction of <b>xs:string</b>												
properties	use required												
facets	<table> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>enumeration</td> <td>type</td> <td></td> </tr> <tr> <td>enumeration</td> <td>instance</td> <td></td> </tr> <tr> <td>enumeration</td> <td>any</td> <td></td> </tr> </table>	Kind	Value	Annotation	enumeration	type		enumeration	instance		enumeration	any	
Kind	Value	Annotation											
enumeration	type												
enumeration	instance												
enumeration	any												
source	<pre> &lt;xs:attribute name="location" use="required"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="type"/&gt;       &lt;xs:enumeration value="instance"/&gt;       &lt;xs:enumeration value="any"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; </pre>												

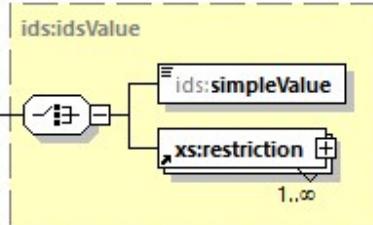
#### element **propertyType/propertyset**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:idsValue</a>
properties	content complex
children	<a href="#">ids:simpleValue</a> <a href="#">xs:restriction</a>

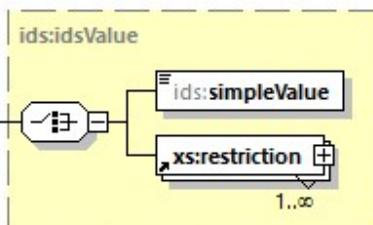
source

```
<xs:element name="propertyset" type="ids:idsValue"/>
```

element **propertyType/name**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:idsValue</a>
properties	content complex
children	<a href="#">ids:simpleValue</a> <a href="#">xs:restriction</a>
source	<xs:element name="name" type="ids:idsValue"/>

element **propertyType/value**

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:idsValue</a>
properties	content complex
children	<a href="#">ids:simpleValue</a> <a href="#">xs:restriction</a>
source	<xs:element name="value" type="ids:idsValue"/>

complexType **requirementsType**

diagram	<pre> classDiagram     class requirementsType {         &lt;&lt;complexType&gt;&gt;         &lt;&lt;sequence maxOccurs="unbounded"&gt;&gt;         &lt;&lt;element name="entity" type="ids:entityType" minOccurs="0"&gt;&gt;         &lt;&lt;element name="classification" minOccurs="0"&gt;&gt;         &lt;&lt;element name="property" minOccurs="0"&gt;&gt;     } </pre> <p><b>ids:entity</b>  Make sure 'Name' value of requirements entity is the same as the 'applicability' node, or a wildcard (inclusive pattern).</p> <p><b>ids:classification</b> </p> <p><b>ids:property</b>  0..∞</p> <p><b>ids:material</b> </p>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
children	<a href="#">ids:entity</a> <a href="#">ids:classification</a> <a href="#">ids:property</a> <a href="#">ids:material</a>
used by	element <a href="#">specificationType/requirements</a>
source	<pre> &lt;xs:complexType name="requirementsType"&gt;     &lt;xs:sequence maxOccurs="unbounded"&gt;         &lt;xs:element name="entity" type="ids:entityType" minOccurs="0"&gt;             &lt;xs:annotation&gt;                 &lt;xs:documentation&gt;Make sure 'Name' value of requirements entity is the same as the 'applicability' node, or a wildcard (inclusive pattern).&lt;/xs:documentation&gt;             &lt;/xs:annotation&gt;         &lt;/xs:element&gt;         &lt;xs:element name="classification" minOccurs="0"&gt;             &lt;xs:complexType&gt;                 &lt;xs:complexContent&gt;                     &lt;xs:extension base="ids:classificationType"&gt;                         &lt;xs:sequence&gt;                             &lt;xs:element name="instructions" type="xs:string"&gt;                                 &lt;xs:annotation&gt;                                     &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;                                 &lt;/xs:annotation&gt;                             &lt;/xs:element&gt;                         &lt;/xs:sequence&gt;                         &lt;xs:attribute name="uri" type="xs:anyURI" use="optional"/&gt;                         &lt;xs:attribute name="use" use="optional"&gt;                             &lt;xs:simpleType&gt;                                 &lt;xs:restriction base="xs:string"&gt;                                     &lt;xs:enumeration value="required"/&gt;                                     &lt;xs:enumeration value="optional"/&gt;                                 &lt;/xs:restriction&gt;                             &lt;/xs:simpleType&gt;                         &lt;/xs:attribute&gt;                     &lt;/xs:extension&gt;                 &lt;/xs:complexContent&gt;             &lt;/xs:complexType&gt;         &lt;/xs:element&gt;     &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

```
<xs:element name="property" minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="ids:propertyType">
        <xs:sequence>
          <xs:element name="instructions" type="xs:string" minOccurs="0">
            <xs:annotation>
              <xs:documentation>Author of the IDS can leave instructions for the
authors of the IFC. This text could/should be displayed in the BIM/IFC authoring
tool.</xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
          <xs:attribute name="uri" type="xs:anyURI" use="optional"/>
          <xs:attribute name="use" use="optional">
            <xs:simpleType>
              <xs:restriction base="xs:string">
                <xs:enumeration value="required"/>
                <xs:enumeration value="optional"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:attribute>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
  </xs:element>
<xs:element name="material" minOccurs="0">
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="ids:materialType">
        <xs:sequence>
          <xs:element name="instructions" type="xs:string" minOccurs="0">
            <xs:annotation>
              <xs:documentation>Author of the IDS can leave instructions for the
authors of the IFC. This text could/should be displayed in the BIM/IFC authoring
tool.</xs:documentation>
            </xs:annotation>
          </xs:element>
        </xs:sequence>
          <xs:attribute name="uri" type="xs:anyURI" use="optional"/>
          <xs:attribute name="use" use="optional">
            <xs:simpleType>
              <xs:restriction base="xs:string">
                <xs:enumeration value="required"/>
                <xs:enumeration value="optional"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:attribute>
        </xs:extension>
      </xs:complexContent>
    </xs:complexType>
  </xs:element>
</xs:sequence>
</xs:complexType>
```

### element requirementsType/entity

diagram	<p>Make sure 'Name' value of requirements entity is the same as the 'applicability' node, or a wildcard (inclusive pattern).</p>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:entityType</a>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">ids:name</a> <a href="#">ids:predefinedtype</a>
annotation	<p>documentation</p> <p>Make sure 'Name' value of requirements entity is the same as the 'applicability' node, or a wildcard (inclusive pattern).</p>
source	<pre>&lt;xs:element name="entity" type="ids:entityType" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Make sure 'Name' value of requirements entity is the same as the 'applicability' node, or a wildcard (inclusive pattern).&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

element **requirementsType/classification**

diagram	<p>Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.</p>																								
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>																								
type	extension of <a href="#">ids:classificationType</a>																								
properties	minOcc 0 maxOcc 1 content complex																								
children	<a href="#">ids:value</a> <a href="#">ids:system</a> <a href="#">ids:instructions</a>																								
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><a href="#">location</a></td><td><b>derived by:</b> <a href="#">xs:string</a></td><td>required</td><td></td><td></td><td></td></tr> <tr> <td><a href="#">uri</a></td><td><a href="#">xs:anyURI</a></td><td>optional</td><td></td><td></td><td></td></tr> <tr> <td><a href="#">use</a></td><td><b>derived by:</b> <a href="#">xs:string</a></td><td>optional</td><td></td><td></td><td></td></tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">location</a>	<b>derived by:</b> <a href="#">xs:string</a>	required				<a href="#">uri</a>	<a href="#">xs:anyURI</a>	optional				<a href="#">use</a>	<b>derived by:</b> <a href="#">xs:string</a>	optional			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">location</a>	<b>derived by:</b> <a href="#">xs:string</a>	required																							
<a href="#">uri</a>	<a href="#">xs:anyURI</a>	optional																							
<a href="#">use</a>	<b>derived by:</b> <a href="#">xs:string</a>	optional																							
source	<pre> &lt;xs:element name="classification" minOccurs="0"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:classificationType"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="instructions" type="xs:string"&gt;             &lt;xs:annotation&gt;               &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;             &lt;/xs:annotation&gt;           &lt;/xs:element&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="uri" type="xs:anyURI" use="optional"/&gt;         &lt;xs:attribute name="use" use="optional"&gt; </pre>																								

```

<xs:simpleType>
  <xs:restriction base="xs:string">
    <xs:enumeration value="required"/>
    <xs:enumeration value="optional"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

#### attribute requirementsType/classification/@uri

type	<code>xs:anyURI</code>
properties	use optional
source	<code>&lt;xs:attribute name="uri" type="xs:anyURI" use="optional"/&gt;</code>

#### attribute requirementsType/classification/@use

type	restriction of <code>xs:string</code>									
properties	use optional									
facets	<table> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>enumeration</td> <td>required</td> <td></td> </tr> <tr> <td>enumeration</td> <td>optional</td> <td></td> </tr> </table>	Kind	Value	Annotation	enumeration	required		enumeration	optional	
Kind	Value	Annotation								
enumeration	required									
enumeration	optional									
source	<code>&lt;xs:attribute name="use" use="optional"&gt; &lt;xs:simpleType&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="required"/&gt;     &lt;xs:enumeration value="optional"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</code>									

#### element requirementsType/classification/instructions

diagram	<p>Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.</p>
namespace	<code>http://standards.buildingsmart.org/IDS</code>
type	<code>xs:string</code>
properties	content simple
annotation	documentation

	Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.
source	<pre>&lt;xs:element name="instructions" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element requirementsType/property

diagram	<pre> classDiagram     class ids:propertyType {         attribute location         attribute uri         attribute use     }     class ids:property {         attribute attributes         association "0..∞" --&gt; propertyset         association "0..∞" --&gt; name         association "0..∞" --&gt; value     }     class ids:propertyset     class ids:name     class ids:value     class ids:instructions     class ids:propertyType {         attribute location         attribute uri         attribute use     }     class ids:instructions     class ids:propertyType {         attribute location         attribute uri         attribute use     }     class ids:instructions   </pre> <p>Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.</p>																								
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>																								
type	extension of <a href="#">ids:propertyType</a>																								
properties	<table> <tr> <td>minOcc</td><td>0</td></tr> <tr> <td>maxOcc</td><td>unbounded</td></tr> <tr> <td>content</td><td>complex</td></tr> </table>	minOcc	0	maxOcc	unbounded	content	complex																		
minOcc	0																								
maxOcc	unbounded																								
content	complex																								
children	<a href="#">ids:propertyset</a> <a href="#">ids:name</a> <a href="#">ids:value</a> <a href="#">ids:instructions</a>																								
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><a href="#">location</a></td> <td><b>derived by:</b> <a href="#">xs:string</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">uri</a></td> <td><a href="#">xs:anyURI</a></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">use</a></td> <td><b>derived by:</b> <a href="#">xs:string</a></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">location</a>	<b>derived by:</b> <a href="#">xs:string</a>	required				<a href="#">uri</a>	<a href="#">xs:anyURI</a>	optional				<a href="#">use</a>	<b>derived by:</b> <a href="#">xs:string</a>	optional			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">location</a>	<b>derived by:</b> <a href="#">xs:string</a>	required																							
<a href="#">uri</a>	<a href="#">xs:anyURI</a>	optional																							
<a href="#">use</a>	<b>derived by:</b> <a href="#">xs:string</a>	optional																							
source	<pre>&lt;xs:element name="property" minOccurs="0" maxOccurs="unbounded"&gt;</pre>																								

	<pre> &lt;xs:complexType&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="ids:propertyType"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:element&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="uri" type="xs:anyURI" use="optional"/&gt;       &lt;xs:attribute name="use" use="optional"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:string"&gt;             &lt;xs:enumeration value="required"/&gt;             &lt;xs:enumeration value="optional"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:attribute&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
--	---

attribute **requirementsType/property/@uri**

type	<b>xs:anyURI</b>
properties	use optional
source	<xs:attribute name="uri" type="xs:anyURI" use="optional"/>

attribute **requirementsType/property/@use**

type	restriction of <b>xs:string</b>
properties	use optional
facets	Kind Value Annotation enumeration required enumeration optional
source	<xs:attribute name="use" use="optional"> <xs:simpleType> <xs:restriction base="xs:string"> <xs:enumeration value="required"/> <xs:enumeration value="optional"/> </xs:restriction> </xs:simpleType> </xs:attribute>

### element requirementsType/property/instructions

diagram	<p><b>ids:instructions</b></p> <p>Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.</p>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.
source	<pre>&lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### element requirementsType/material

diagram	<p><b>ids:materialType (extension)</b></p> <p><b>ids:material</b></p> <p><b>ids:value</b></p> <p><b>ids:instructions</b></p> <p>Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.</p>
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	extension of <a href="#">ids:materialType</a>
properties	minOcc 0

	maxOcc content	1 complex				
children	<a href="#"><b>ids:value ids:instructions</b></a>					
attributes	Name <a href="#">location</a> <a href="#">uri</a> <a href="#">use</a>	Type <b>derived by:</b> <b>xs:string</b> <b>xs:anyURI</b>	Use required optional optional	Default	Fixed	Annotation
source	<pre>&lt;xs:element name="material" minOccurs="0"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="ids:materialType"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;             &lt;xs:annotation&gt;               &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;             &lt;/xs:annotation&gt;           &lt;/xs:element&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="uri" type="xs:anyURI" use="optional"/&gt;         &lt;xs:attribute name="use" use="optional"&gt;           &lt;xs:simpleType&gt;             &lt;xs:restriction base="xs:string"&gt;               &lt;xs:enumeration value="required"/&gt;               &lt;xs:enumeration value="optional"/&gt;             &lt;/xs:restriction&gt;           &lt;/xs:simpleType&gt;         &lt;/xs:attribute&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>					

attribute **requirementsType/material/@uri**

type	<b>xs:anyURI</b>
properties	use optional
source	<xs:attribute name="uri" type="xs:anyURI" use="optional"/>

attribute **requirementsType/material/@use**

type	restriction of <b>xs:string</b>
properties	use optional
facets	Kind Value Annotation enumeration required enumeration optional

source	<pre>&lt;xs:attribute name="use" use="optional"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="required"/&gt;       &lt;xs:enumeration value="optional"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>
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### element requirementsType/material/instructions

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.
source	<pre>&lt;xs:element name="instructions" type="xs:string" minOccurs="0"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Author of the IDS can leave instructions for the authors of the IFC. This text could/should be displayed in the BIM/IFC authoring tool.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

### complexType specificationType

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
children	<a href="#">ids:applicability</a> <a href="#">ids:requirements</a>
used by	element <a href="#">idsType/specification</a>

attributes	Name <u><a href="#">name</a></u> <u><a href="#">necessity</a></u>	Type <b>xs:string</b>	Use optional <b>derived by:</b> <b>xs:string</b>	Default	Fixed	Annotation
source		<pre>&lt;xs:complexType name="specificationType"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="applicability" type="ids:applicabilityType"/&gt;     &lt;xs:element name="requirements" type="ids:requirementsType"/&gt;   &lt;/xs:sequence&gt;   &lt;xs:attribute name="name" type="xs:string" use="optional"/&gt;   &lt;xs:attribute name="necessity" use="required"&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:enumeration value="required"/&gt;         &lt;xs:enumeration value="optional"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt;</pre>				

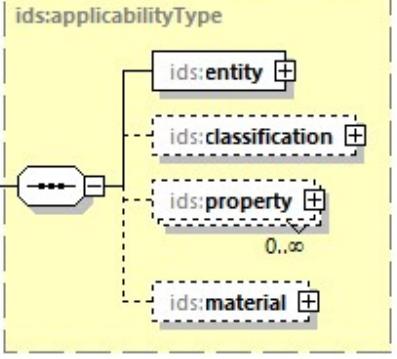
attribute **specificationType/@name**

type	<b>xs:string</b>
properties	use optional
source	<pre>&lt;xs:attribute name="name" type="xs:string" use="optional"/&gt;</pre>

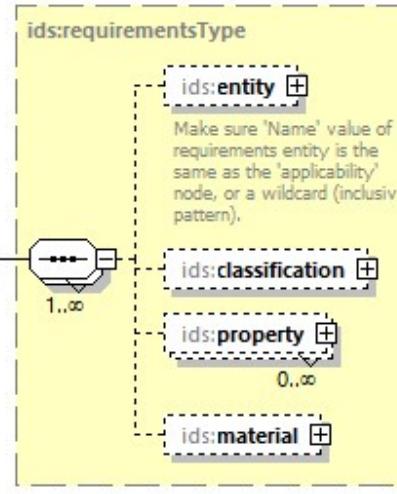
attribute **specificationType/@necessity**

type	restriction of <b>xs:string</b>
properties	use required
facets	Kind Value Annotation enumeration required enumeration optional
source	<pre>&lt;xs:attribute name="necessity" use="required"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:string"&gt;       &lt;xs:enumeration value="required"/&gt;       &lt;xs:enumeration value="optional"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>

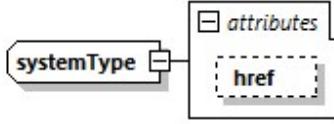
### element specificationType/applicability

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:applicabilityType</a>
properties	content complex
children	<a href="#">ids:entity</a> <a href="#">ids:classification</a> <a href="#">ids:property</a> <a href="#">ids:material</a>
source	<code>&lt;xs:element name="applicability" type="ids:applicabilityType"/&gt;</code>

### element specificationType/requirements

diagram	
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>
type	<a href="#">ids:requirementsType</a>
properties	content complex
children	<a href="#">ids:entity</a> <a href="#">ids:classification</a> <a href="#">ids:property</a> <a href="#">ids:material</a>
source	<code>&lt;xs:element name="requirements" type="ids:requirementsType"/&gt;</code>

### complexType **systemType**

diagram													
namespace	<a href="http://standards.buildingsmart.org/IDS">http://standards.buildingsmart.org/IDS</a>												
type	extension of <b>xs:string</b>												
properties	base xs:string												
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><a href="#">href</a></td> <td><a href="#">xs:anyURI</a></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">href</a>	<a href="#">xs:anyURI</a>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">href</a>	<a href="#">xs:anyURI</a>	optional											
source	<pre>&lt;xs:complexType name="systemType"&gt;   &lt;xs:simpleContent&gt;     &lt;xs:extension base="xs:string"&gt;       &lt;xs:attribute name="href" type="xs:anyURI" use="optional"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:simpleContent&gt; &lt;/xs:complexType&gt;</pre>												

### attribute **systemType/@href**

type	<a href="#">xs:anyURI</a>
properties	use optional
source	<pre>&lt;xs:attribute name="href" type="xs:anyURI" use="optional"/&gt;</pre>

### attribute **base**

namespace	<a href="http://www.w3.org/XML/1998/namespace">http://www.w3.org/XML/1998/namespace</a>
type	<a href="#">xs:anyURI</a>
used by	attributeGroup <a href="#">specialAttrs</a>
annotation	<p>documentation</p> <pre>&lt;div&gt;   &lt;h3&gt;base (as an attribute name)&lt;/h3&gt;   &lt;p&gt;     denotes an attribute whose value     provides a URI to be used as the base for interpreting any     relative URIs in the scope of the element on which it     appears; its value is inherited. This name is reserved     by virtue of its definition in the XML Base specification.&lt;/p&gt;   &lt;p&gt;     See &lt;a href="http://www.w3.org/TR/xmlbase/"&gt;http://www.w3.org/TR/xmlbase/&lt;/a&gt;     for information about this attribute.   &lt;/p&gt; &lt;/div&gt;</pre>
source	<pre>&lt;xs:attribute name="base" type="xs:anyURI"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       &lt;div&gt;</pre>

	<pre> &lt;h3&gt;base (as an attribute name)&lt;/h3&gt; &lt;p&gt; denotes an attribute whose value provides a URI to be used as the base for interpreting any relative URIs in the scope of the element on which it appears; its value is inherited. This name is reserved by virtue of its definition in the XML Base specification.&lt;/p&gt; &lt;p&gt; See &lt;a href="http://www.w3.org/TR/xmlbase/"&gt;http://www.w3.org/TR/xmlbase/&lt;/a&gt; for information about this attribute. &lt;/p&gt; &lt;/div&gt; &lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>
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attribute **id**

namespace	http://www.w3.org/XML/1998/namespace
type	<b>xs:ID</b>
used by	attributeGroup <a href="#"><b>specialAttrs</b></a>
annotation	<p>documentation</p> <pre> &lt;div&gt; &lt;h3&gt;id (as an attribute name)&lt;/h3&gt; &lt;p&gt; denotes an attribute whose value should be interpreted as if declared to be of type ID. This name is reserved by virtue of its definition in the xml:id specification.&lt;/p&gt; &lt;p&gt; See &lt;a href="http://www.w3.org/TR/xml-id/"&gt;http://www.w3.org/TR/xml-id/&lt;/a&gt; for information about this attribute. &lt;/p&gt; &lt;/div&gt;</pre>
source	<pre> &lt;xs:attribute name="id" type="xs:ID"&gt; &lt;xs:annotation&gt; &lt;xs:documentation&gt; &lt;div&gt; &lt;h3&gt;id (as an attribute name)&lt;/h3&gt; &lt;p&gt; denotes an attribute whose value should be interpreted as if declared to be of type ID. This name is reserved by virtue of its definition in the xml:id specification.&lt;/p&gt; &lt;p&gt; See &lt;a href="http://www.w3.org/TR/xml-id/"&gt;http://www.w3.org/TR/xml-id/&lt;/a&gt; for information about this attribute. &lt;/p&gt; &lt;/div&gt; &lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

**attribute lang**

namespace	http://www.w3.org/XML/1998/namespace
type	union of ( <b>xs:language</b> , restriction of <b>xs:string</b> )
used by	elements <b>documentation schema</b> attributeGroup <b>specialAttrs</b>
annotation	<p>documentation</p> <pre>&lt;div&gt;     &lt;h3&gt;lang (as an attribute name)&lt;/h3&gt;     &lt;p&gt;         denotes an attribute whose value         is a language code for the natural language of the content of         any element; its value is inherited. This name is reserved         by virtue of its definition in the XML specification.&lt;/p&gt; &lt;/div&gt; &lt;div&gt;     &lt;h4&gt;Notes&lt;/h4&gt;     &lt;p&gt;         Attempting to install the relevant ISO 2- and 3-letter         codes as the enumerated possible values is probably never         going to be a realistic possibility.     &lt;/p&gt;     &lt;p&gt;         See BCP 47 at &lt;a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt"&gt;             http://www.rfc-editor.org/rfc/bcp/bcp47.txt&lt;/a&gt;         and the IANA language subtag registry at         &lt;a href="http://www.iana.org/assignments/language-subtag-registry"&gt;             http://www.iana.org/assignments/language-subtag-registry&lt;/a&gt;         for further information.     &lt;/p&gt;     &lt;p&gt;         The union allows for the 'un-declaration' of xml:lang with         the empty string.     &lt;/p&gt; &lt;/div&gt;</pre>
source	<pre>&lt;xs:attribute name="lang"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       &lt;div&gt;         &lt;h3&gt;lang (as an attribute name)&lt;/h3&gt;         &lt;p&gt;           denotes an attribute whose value           is a language code for the natural language of the content of           any element; its value is inherited. This name is reserved           by virtue of its definition in the XML specification.&lt;/p&gt;       &lt;/div&gt;       &lt;div&gt;         &lt;h4&gt;Notes&lt;/h4&gt;         &lt;p&gt;           Attempting to install the relevant ISO 2- and 3-letter           codes as the enumerated possible values is probably never           going to be a realistic possibility.         &lt;/p&gt;         &lt;p&gt;</pre>

	<p>See BCP 47 at <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>  <a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a></p> <p>and the IANA language subtag registry at  <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>  <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a></p> <p>for further information.</p> <pre> &lt;/p&gt; &lt;p&gt; The union allows for the 'un-declaration' of xml:lang with the empty string. &lt;/p&gt; &lt;/div&gt; &lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;xss:simpleType&gt; &lt;xs:union memberTypes="xs:language"&gt; &lt;xs:simpleType&gt; &lt;xs:restriction base="xs:string"&gt; &lt;xs:enumeration value="" /&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; &lt;/xs:union&gt; &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>
--	--

### attribute **space**

namespace	http://www.w3.org/XML/1998/namespace									
type	restriction of <b>xs:NCName</b>									
used by	attributeGroup <a href="#"><b>specialAttrs</b></a>									
facets	<table> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>default</td> <td></td> </tr> <tr> <td>enumeration</td> <td>preserve</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	default		enumeration	preserve	
Kind	Value	Annotation								
enumeration	default									
enumeration	preserve									
annotation	<p>documentation</p> <pre> &lt;div&gt; &lt;h3&gt;space (as an attribute name)&lt;/h3&gt; &lt;p&gt; denotes an attribute whose value is a keyword indicating what whitespace processing discipline is intended for the content of the element; its value is inherited. This name is reserved by virtue of its definition in the XML specification.&lt;/p&gt; &lt;/div&gt;</pre>									
source	<pre> &lt;xs:attribute name="space"&gt; &lt;xs:annotation&gt; &lt;xs:documentation&gt; &lt;div&gt; &lt;h3&gt;space (as an attribute name)&lt;/h3&gt; &lt;p&gt; denotes an attribute whose value is a keyword indicating what whitespace processing discipline is intended for the content of the element; its</pre>									

```

    value is inherited. This name is reserved by virtue of its
    definition in the XML specification.</p>
</div>
</xs:documentation>
</xs:annotation>
<xs:simpleType>
  <xs:restriction base="xs:NCName">
    <xs:enumeration value="default"/>
    <xs:enumeration value="preserve"/>
  </xs:restriction>
</xs:simpleType>
</xs:attribute>
```

### attributeGroup **specialAttrs**

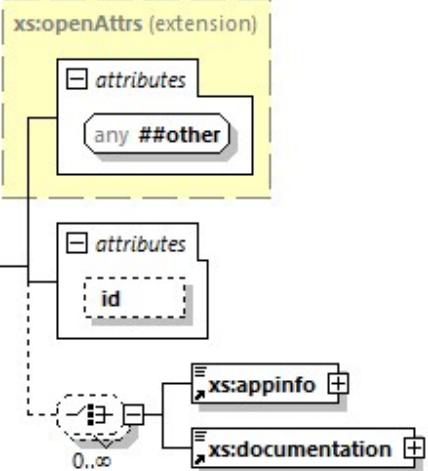
namespace	http://www.w3.org/XML/1998/namespace					
attributes	Name	Type	User	Default	Fixed	Annotation
	<a href="#">xml:base</a>	<a href="#">xs:anyURI</a>				<p>documentation</p> <p>&lt;div&gt;</p> <p style="padding-left: 2em;">&lt;h3&gt;base (as an attribute name)&lt;/h3&gt;</p> <p style="padding-left: 2em;">&lt;p&gt;</p> <p style="padding-left: 2em;">denotes an attribute whose value provides a URI to be used as the base for interpreting any relative URIs in the scope of the element on which it appears; its value is inherited. This name is reserved by virtue of its definition in the XML Base specification.&lt;/p&gt;</p> <p style="padding-left: 2em;">&lt;p&gt;</p> <p style="padding-left: 2em;">See &lt;a href="http://www.w3.org/TR/xmlbase/"&gt;http://www.w3.org/TR/xmlbase/&lt;/a&gt; for information about this attribute.</p> <p style="padding-left: 2em;">&lt;/p&gt;</p>
	<a href="#">xml:lang</a>	<b>derived</b>	<b>by:</b>			<p>documentation</p> <p>&lt;div&gt;</p> <p style="padding-left: 2em;">&lt;h3&gt;lang (as an attribute name)&lt;/h3&gt;</p> <p style="padding-left: 2em;">&lt;p&gt;</p> <p style="padding-left: 2em;">denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. This name is reserved by virtue of its definition in the XML specification.&lt;/p&gt;</p> <p style="padding-left: 2em;">&lt;/div&gt;</p> <p>&lt;div&gt;</p> <p style="padding-left: 2em;">&lt;h4&gt;Notes&lt;/h4&gt;</p> <p style="padding-left: 2em;">&lt;p&gt;</p> <p style="padding-left: 2em;">Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility.</p> <p style="padding-left: 2em;">&lt;/p&gt;</p> <p style="padding-left: 2em;">&lt;p&gt;</p> <p style="padding-left: 2em;">See BCP 47 at &lt;a href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt"&gt;http://www.rfc-editor.org/rfc/bcp/bcp47.txt&lt;/a&gt; and the IANA language subtag registry at &lt;a</p>

	<p>href="http://www.iana.org/assignments/language-subtag-registry"&gt;  <a href="http://www.iana.org/assignments/language-subtag-registry">http://www.iana.org/assignments/language-subtag-registry</a>&lt;/a&gt;          for further information.</p> <p><b>xml:space</b> <b>derived by:</b>  <b>xs:NCName</b></p> <p><b>xml:id</b> <b>xs:ID</b></p>
source	<pre>&lt;xs:attributeGroup name="specialAttrs"&gt;   &lt;xs:attribute ref="xml:base"/&gt;   &lt;xs:attribute ref="xml:lang"/&gt;   &lt;xs:attribute ref="xml:space"/&gt;   &lt;xs:attribute ref="xml:id"/&gt; &lt;/xs:attributeGroup&gt;</pre>

element **all**

diagram	<p>0..∞ This choice with min/max is here to avoid a pbm with the Elt:All/Choice/Seq Particle derivation constraint</p>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<b>xs:all</b>																								
properties	content complex id all																								
children	<b>xs:annotation</b> <b>xs:element</b>																								
used by	complexType <a href="#">realGroup</a> groups <a href="#">particle</a> <a href="#">typeDefParticle</a>																								
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<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">minOccurs</a>	<b>derived by:</b> <a href="#">xs:nonNegativeInteger</a>	optional	1																						
<a href="#">maxOccurs</a>	<b>derived by:</b> <a href="#">xs:allINNI</a>	optional	1																						
source	<pre>&lt;xs:element name="all" type="xs:all" id="all"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-all"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																								

element **annotation**

diagram													
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	extension of <a href="#">xs:openAttrs</a>												
properties	content complex id annotation												
children	<a href="#">xs:appinfo</a> <a href="#">xs:documentation</a>												
used by	elements <a href="#">pattern</a> <a href="#">redefine</a> <a href="#">schema</a> <a href="#">totalDigits</a> <a href="#">whiteSpace</a> complexTypes <a href="#">annotated</a> <a href="#">attributeGroupRef</a> <a href="#">complexRestrictionType</a> <a href="#">explicitGroup</a> <a href="#">groupRef</a> <a href="#">localComplexType</a> <a href="#">localElement</a> <a href="#">localSimpleType</a> <a href="#">namedAttributeGroup</a> <a href="#">namedGroup</a> <a href="#">narrowMaxMin</a> <a href="#">noFixedFacet</a> <a href="#">numFacet</a> <a href="#">realGroup</a> <a href="#">simpleExplicitGroup</a> <a href="#">simpleExtensionType</a> <a href="#">simpleRestrictionType</a> <a href="#">topLevelAttribute</a> <a href="#">topLevelComplexType</a> <a href="#">topLevelElement</a> <a href="#">topLevelSimpleType</a> <a href="#">allModel</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												
source	<pre> &lt;xs:element name="annotation" id="annotation"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-annotation"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:openAttrs"&gt;         &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;           &lt;xs:element ref="xs:appinfo"/&gt;           &lt;xs:element ref="xs:documentation"/&gt;         &lt;/xs:choice&gt;         &lt;xs:attribute name="id" type="xs:ID"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>												

attribute **annotation/@id**

type	<a href="#">xs:ID</a>
------	-----------------------

source	<code>&lt;xs:attribute name="id" type="xs:ID"/&gt;</code>
--------	---

### element any

diagram	<pre> classDiagram     xs:wildcard &lt; -- xs:any     xs:any {         attributes: id, namespace, processContents         reference: xs:annotation     }     xs:any {         attribute: grp xs:occurs         attribute: minOccurs         attribute: maxOccurs         note: for all particles     }   </pre>																																				
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																				
type	extension of <a href="#">xs:wildcard</a>																																				
properties	content complex id any																																				
children	<a href="#">xs:annotation</a>																																				
used by	groups <a href="#">nestedParticle</a> <a href="#">particle</a>																																				
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Name	Type	Use	Default	Fixed	Annotation																																
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<a href="#">maxOccurs</a>	<a href="#">xs:allNNI</a>	optional	1																																		
source	<pre> &lt;xs:element name="any" id="any"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-any"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:wildcard"&gt;     </pre>																																				

```

<xs:attributeGroup ref="xs:occurs"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

### element anyAttribute

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:wildcard</a>																								
properties	content complex id anyAttribute																								
children	<a href="#">xs:annotation</a>																								
used by	group <a href="#">attrDecls</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">namespace</a></td> <td><a href="#">xs:namespaceList</a></td> <td>optional</td> <td>##any</td> <td></td> <td></td> </tr> <tr> <td><a href="#">processContents</a></td> <td><a href="#">derived by:</a> <a href="#">xs:NMTOKEN</a></td> <td>optional</td> <td>strict</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">namespace</a>	<a href="#">xs:namespaceList</a>	optional	##any			<a href="#">processContents</a>	<a href="#">derived by:</a> <a href="#">xs:NMTOKEN</a>	optional	strict		
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<a href="#">processContents</a>	<a href="#">derived by:</a> <a href="#">xs:NMTOKEN</a>	optional	strict																						
source	<pre> &lt;xs:element name="anyAttribute" type="xs:wildcard" id="anyAttribute"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-anyAttribute"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>																								

### element appinfo

diagram	<pre> classDiagram     class appinfo {         &lt;&lt;annotation&gt;&gt;         &lt;&lt;documentation&gt;&gt;         source     }     class any {         &lt;&lt;any&gt;&gt;         &lt;&lt;#&gt;&gt;         attributes         any ##other     }     appinfo "0..∞" --&gt; any     any --&gt; "0..∞" appinfo     source "0..∞" --&gt; any     </pre>												
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
properties	<table> <tr> <td>content</td><td>complex</td></tr> <tr> <td>mixed</td><td>true</td></tr> <tr> <td>id</td><td>appinfo</td></tr> </table>	content	complex	mixed	true	id	appinfo						
content	complex												
mixed	true												
id	appinfo												
used by	element <a href="#">annotation</a>												
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><a href="#">source</a></td><td><a href="#">xs:anyURI</a></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">source</a>	<a href="#">xs:anyURI</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">source</a>	<a href="#">xs:anyURI</a>												
source	<pre> &lt;xs:element name="appinfo" id="appinfo"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-appinfo"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType mixed="true"&gt;     &lt;xs:sequence minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:any processContents="lax"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="source" type="xs:anyURI"/&gt;     &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>												

### attribute appinfo/@source

type	<a href="#">xs:anyURI</a>
source	<pre> &lt;xs:attribute name="source" type="xs:anyURI"/&gt; </pre>

element **attribute**

diagram	<pre> classDiagram     class xs topLevelAttribute {         id         type         default         fixed         name         any ##other     }     class attribute {         &lt;--&gt; xs topLevelAttribute     }     class xs annotation {         &lt;--&gt; xs topLevelAttribute     }     class xs simpleType {         &lt;--&gt; xs topLevelAttribute     } </pre>																																				
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																				
type	<a href="#">xs:topLevelAttribute</a>																																				
properties	content complex id attribute																																				
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a>																																				
used by	group <a href="#">schemaTop</a>																																				
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source	<pre> &lt;xs:element name="attribute" type="xs:topLevelAttribute" id="attribute"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-attribute"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>																																				

### element attributeGroup

diagram	<pre> classDiagram     class xs:namedAttributeGroup {         attributes             id             name             any ##other         associations             xs:annotation             xs:attrDecls             XSI:attribute             XSI:attributeGroup     }     class attributeGroup {         inheritance xs:namedAttributeGroup     }     attributeGroup "1" --&gt; "1" xs:annotation     attributeGroup "1" --&gt; "1" xs:attrDecls     attributeGroup "1" --&gt; "1" XSI:attribute     attributeGroup "1" --&gt; "1" XSI:attributeGroup     </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:namedAttributeGroup</a>																		
properties	content complex id attributeGroup																		
children	<a href="#">xs:annotation</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	group <a href="#">redefinable</a>																		
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<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">name</a>	<a href="#">xs:NCName</a>	required																	
source	<pre> &lt;xs:element name="attributeGroup" type="xs:namedAttributeGroup"   id="attributeGroup"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-attributeGroup"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>																		

element **choice**

diagram	<p>The diagram illustrates the structure of the <code>xs:choice</code> element. It is represented by a class named <code>choice</code> with a multiplicity of <code>0..*</code>. This class has several associations:</p> <ul style="list-style-type: none"> <li>An association labeled <code>xs:annotation</code> connects to an <code>xs:annotation</code> object.</li> <li>An association labeled <code>xs:nestedParticle</code> connects to an <code>xs:nestedParticle</code> object, which has a multiplicity of <code>0..*</code>.</li> <li>The <code>xs:nestedParticle</code> object is associated with four other elements: <code>xs:element</code>, <code>xs:group</code>, <code>xs:choice</code>, and <code>xs:sequence</code>.</li> <li>The <code>choice</code> class also has an association with an <code>xs:annotation</code> object.</li> </ul>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:explicitGroup</a>																								
properties	content complex id choice																								
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>																								
used by	complexType <a href="#">realGroup</a> groups <a href="#">nestedParticle</a> <a href="#">particle</a> <a href="#">typeDefParticle</a>																								
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<a href="#">maxOccurs</a>	<a href="#">xs:allNNI</a>	optional	1																						
source	<pre>&lt;xs:element name="choice" type="xs:explicitGroup" id="choice"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-choice"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																								

element **complexContent**

diagram	<pre> classDiagram     class complexContent {         &lt;&lt;xs:annotated (extension)&gt;&gt;         any ##other         id         xs:annotation         mixed         &lt;&lt;Overrides any setting on complexType parent.&gt;&gt;         xs:restriction         xs:extension     } </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	extension of <a href="#">xs:annotated</a>																		
properties	content complex id complexContent																		
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:extension</a>																		
used by	group <a href="#">complexTypeModel</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td>documentation</td> </tr> <tr> <td><a href="#">mixed</a></td> <td><a href="#">xs:boolean</a></td> <td></td> <td></td> <td></td> <td>Overrides any setting on complexType parent.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				documentation	<a href="#">mixed</a>	<a href="#">xs:boolean</a>				Overrides any setting on complexType parent.
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<a href="#">id</a>	<a href="#">xs:ID</a>				documentation														
<a href="#">mixed</a>	<a href="#">xs:boolean</a>				Overrides any setting on complexType parent.														
source	<pre> &lt;xs:element name="complexContent" id="complexContent"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-complexContent"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:choice&gt;           &lt;xs:element name="restriction" type="xs:complexRestrictionType"/&gt;           &lt;xs:element name="extension" type="xs:extensionType"/&gt;         &lt;/xs:choice&gt;         &lt;xs:attribute name="mixed" type="xs:boolean"&gt; </pre>																		

	<pre> &lt;xs:annotation&gt;   &lt;xs:documentation&gt;     Overrides any setting on complexType parent.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;/xs:attribute&gt; &lt;/xs:extension&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
--	---

#### attribute **complexContent/@mixed**

type	<b>xs:boolean</b>
annotation	<p>documentation</p> <p>Overrides any setting on complexType parent.</p>
source	<pre> &lt;xs:attribute name="mixed" type="xs:boolean"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       Overrides any setting on complexType parent.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:attribute&gt; </pre>

#### element **complexContent/restriction**

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

type	<a href="#">xs:complexRestrictionType</a>					
properties	content complex					
children	<a href="#">xs:annotation</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>					
used by	complexType <a href="#">idsValue</a> group <a href="#">simpleDerivation</a>					
attributes	Name <a href="#">id</a> <a href="#">base</a>	Type <a href="#">xs:ID</a> <a href="#">xs:QName</a>	Use	Default	Fixed	Annotation
source	<xs:element name="restriction" type="xs:complexRestrictionType"/>					

element **complexContent/extension**

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<a href="#">xs:extensionType</a>
properties	content complex
children	<a href="#">xs:annotation</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>
attributes	Name <a href="#">id</a> <a href="#">base</a>
	Type <a href="#">xs:ID</a> <a href="#">xs:QName</a>
	Use required

source

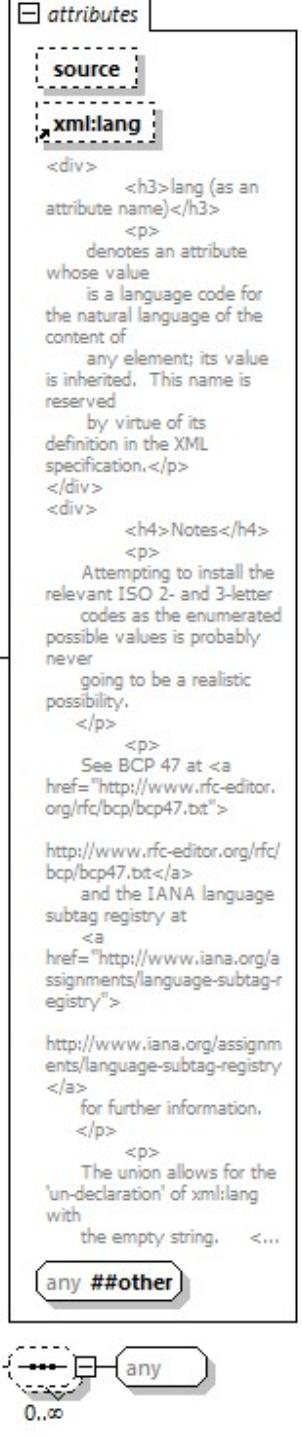
```
<xs:element name="extension" type="xs:extensionType"/>
```

element **complexType**

diagram	<p>Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.</p> <p>This branch is short for &amp;lt;complexContent&gt; &amp;lt;restriction&gt; base="xs:anyType"&gt; ... &amp;lt;/restriction&gt; &amp;lt;/complexContent&gt;</p>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:topLevelComplexType</a>																		
properties	content complex id complexType																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	group <a href="#">redefinable</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">mixed</a></td> <td><a href="#">xs:boolean</a></td> <td>optional</td> <td>false</td> <td></td> <td>Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.														

	<u>abstract</u>	<b>xs:boolean</b>	optional	false
	<u>final</u>	<b>xs:derivationSet</b>		
	<u>block</u>	<b>xs:derivationSet</b>		
	<u>name</u>	<b>xs:NCName</b>	required	
source	<xs:element name="complexType" type="xs:topLevelComplexType" id="complexType"> <xs:annotation> <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-complexType"/> </xs:annotation> </xs:element>			

## element documentation

diagram	 <p>The diagram illustrates the structure of the XML Schema element 'documentation'. It consists of a main box labeled 'documentation' containing several sub-elements and attributes:</p> <ul style="list-style-type: none"> <li><b>source</b>: A dashed-line box indicating the source of the schema definition.</li> <li><b>xml:lang</b>: A dashed-line box indicating the language code for the natural language of the content.</li> <li><b>any</b>: A box representing the content of the element.</li> <li><b>any ##other</b>: A box representing other attributes or elements.</li> </ul> <p>Below the main box, a sequence of three nodes is shown: a dashed-line box with three dots, a solid-line box, and another dashed-line box labeled 'any'. This indicates a sequence of zero or more occurrences of the 'any' element.</p>						
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>						
properties	<table border="0"> <tr> <td>content</td><td>complex</td></tr> <tr> <td>mixed</td><td>true</td></tr> <tr> <td>id</td><td>documentation</td></tr> </table>	content	complex	mixed	true	id	documentation
content	complex						
mixed	true						
id	documentation						

used by	element <a href="#">annotation</a>																																																																																																																																																																																																																		
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This name is reserved</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          by virtue of its definition in the XML specification.&lt;/p&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;/div&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;div&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          &lt;h4&gt;Notes&lt;/h4&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          &lt;p&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          Attempting to install the relevant ISO 2- and 3-letter</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          codes as the enumerated possible values is probably never</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          going to be a realistic possibility.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;/p&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          &lt;p&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          See BCP 47 at &lt;a</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt"&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          http://www.rfc-editor.org/rfc/bcp/bcp47.txt&lt;/a&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          and the IANA language subtag registry at</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          &lt;a</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          href="http://www.iana.org/assignments/language-subtag-registry"</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          &gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          http://www.iana.org/assignments/language-subtag-registry&lt;/a&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          for further information.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;/p&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          &lt;p&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          The union allows for the 'un-declaration' of xml:lang with</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>          the empty string.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;/p&gt;</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>&lt;/div&gt;</td> </tr> </tbody> </table>	Name	Type	Us	Defaul	Fixe	Annotation	<a href="#">source</a>	<b>xs:anyURI</b>					<a href="#">xml:lang</a>	<b>derived by:</b>				documentation	g	<b>xs:language</b>				<div>	e					<h3>lang (as an attribute name)</h3>						<p>						denotes an attribute whose value						is a language code for the natural language of the content						of						any element; its value is inherited. 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attribute **documentation/@source**

type	<b>xs:anyURI</b>
source	<code>&lt;xs:attribute name="source" type="xs:anyURI"/&gt;</code>

element **element**

diagram	<p>The diagram illustrates the structure of an XML Schema's top-level element. It shows the following components:</p> <ul style="list-style-type: none"> <li><b>xs:topLevelElement</b>: The main container, represented by a yellow rounded rectangle.</li> <li><b>attributes</b>: A dashed box containing attributes like <code>id</code>, <code>type</code>, <code>substitutionGroup</code>, <code>default</code>, <code>fixed</code>, <code>nillable</code>, <code>abstract</code>, <code>final</code>, and <code>block</code>.</li> <li><b>element</b>: A solid box representing the element itself, which can have <code>any ##other</code> content.</li> <li><b>xs:annotation</b>: Associated with the element.</li> <li><b>xs:simpleType</b> and <b>xs:complexType</b>: Associated with the element.</li> <li><b>xs:identityConstraint</b>: A constraint with multiplicity <code>0..∞</code>. It is associated with <b>xs:unique</b>, <b>xs:key</b>, and <b>xs:keyref</b>.</li> <li><b>Annotations</b>: A note at the bottom states: "The three kinds of identity constraints, all with type of or derived from 'keybase'."</li> </ul>				
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>				
type	<b>xs:topLevelElement</b>				
properties	<table> <tr> <td>content</td> <td>complex</td> </tr> <tr> <td>id</td> <td>element</td> </tr> </table>	content	complex	id	element
content	complex				
id	element				

children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>					
used by	group <a href="#">schemaTop</a>					
attributes	Name <a href="#">id</a> <a href="#">type</a> <a href="#">substitutionGroup</a> <a href="#">default</a> <a href="#">fixed</a> <a href="#">nillable</a> <a href="#">abstract</a> <a href="#">final</a> <a href="#">block</a> <a href="#">name</a>	Type <a href="#">xs:ID</a> <a href="#">xs:QName</a> <a href="#">xs:QName</a> <a href="#">xs:string</a> <a href="#">xs:string</a> <a href="#">xs:boolean</a> <a href="#">xs:boolean</a> <a href="#">xs:derivationSet</a> <a href="#">xs:blockSet</a> <a href="#">xs:NCName</a>	Use	Default	Fixed	Annotation
source	<pre>&lt;xs:element name="element" type="xs:topLevelElement" id="element"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-element"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>					

element **enumeration**

diagram						
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>					
type	<a href="#">xs:noFixedFacet</a>					
properties	content complex id enumeration					
children	<a href="#">xs:annotation</a>					
used by	group <a href="#">facets</a>					
attributes	Name <a href="#">id</a> <a href="#">value</a>	Type <a href="#">xs:ID</a>	Use	Default	Fixed	Annotation
source	<pre>&lt;xs:element name="enumeration" type="xs:noFixedFacet" id="enumeration"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;</pre>					

	<pre>source="http://www.w3.org/TR/xmlschema-2/#element-enumeration"/&gt; &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>
--	---

### element field

dia gram	<pre> graph LR     field["field"] --&gt; annotated["xs:annotated (extension)"]     annotated --&gt; attributes1["attributes"]     attributes1 --&gt; any1["any ##other"]     attributes1 --&gt; id1["id"]     annotated --&gt; annotation["xs:annotation"]     annotation --&gt; attributes2["attributes"]     attributes2 --&gt; xpath["xpath"]   </pre>																		
na me sp ac e	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
typ e	extension of <a href="#">xs:annotated</a>																		
pr op ert ies	content complex id field																		
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us ed by	complexType <a href="#">keybase</a>																		
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so urc e	<pre> &lt;xs:element name="field" id="field"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-field"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;     </pre>																		

```

<xs:attribute name="xpath" use="required">
    <xs:simpleType>
        <xs:annotation>
            <xs:documentation>A subset of XPath expressions for use
in fields</xs:documentation>
            <xs:documentation>A utility type, not for public
use</xs:documentation>
        </xs:annotation>
        <xs:restriction base="xs:token">
            <xs:annotation>
                <xs:documentation>The following pattern is intended to allow XPath
expressions per the same EBNF as for selector,
with the following change:
Path      ::=      ('..')? ( Step '/' )* ( Step | '@' NameTest )
            </xs:documentation>
            </xs:annotation>
            <xs:pattern
value="(.//)?((((child:::)?((\i\c*:)?(\i\c*|\*)))|.)/*((((child:::)?((\i\c*:)?(\i\c*|\*)))|.)|((attribute:::@)((\i\c*:)?(\i\c*|\*)))|(.//)?((((child:::)?((\i\c*:)?(\i\c*|\*)))|.)|((attribute:::@)((\i\c*:)?(\i\c*|\*))))*)"/>
                </xs:restriction>
            </xs:simpleType>
            </xs:attribute>
        </xs:extension>
    </xs:complexContent>
</xs:complexType>
</xs:element>

```

#### attribute **field/@xpath**

ty pe	restriction of <b>xs:token</b>					
pr op erti es	use required					
fac ets	<table> <tr> <td style="vertical-align: top;">Kin d</td> <td style="vertical-align: top;">Value</td> <td rowspan="2" style="vertical-align: middle; text-align: center;">Annot ation</td> </tr> <tr> <td>patt tern ern</td> <td>(.//)?((((child:::)?((\i\c*:)?(\i\c* \*))) .)/*((((child:::)?((\i\c*:)?(\i\c* \*))) .) ((attribute:::@)((\i\c*:)?(\i\c* \*)))) (.//)?((((child:::)?((\i\c*:)?(\i\c* \*))) .) ((attribute:::@)((\i\c*:)?(\i\c* \*))))*</td> </tr> </table>	Kin d	Value	Annot ation	patt tern ern	(.//)?((((child:::)?((\i\c*:)?(\i\c* \*))) .)/*((((child:::)?((\i\c*:)?(\i\c* \*))) .) ((attribute:::@)((\i\c*:)?(\i\c* \*)))) (.//)?((((child:::)?((\i\c*:)?(\i\c* \*))) .) ((attribute:::@)((\i\c*:)?(\i\c* \*))))*
Kin d	Value	Annot ation				
patt tern ern	(.//)?((((child:::)?((\i\c*:)?(\i\c* \*))) .)/*((((child:::)?((\i\c*:)?(\i\c* \*))) .) ((attribute:::@)((\i\c*:)?(\i\c* \*)))) (.//)?((((child:::)?((\i\c*:)?(\i\c* \*))) .) ((attribute:::@)((\i\c*:)?(\i\c* \*))))*					
so ur ce	<xs:attribute name="xpath" use="required">     <xs:simpleType>         <xs:annotation>             <xs:documentation>A subset of XPath expressions for use in fields</xs:documentation>             <xs:documentation>A utility type, not for public use</xs:documentation>         </xs:annotation>         <xs:restriction base="xs:token">             <xs:annotation>                 <xs:documentation>The following pattern is intended to allow XPath expressions per the same EBNF as for selector,					

```

with the following change:
Path    ::=      ('.'//')? ( Step '/' )* ( Step | '@' NameTest )
</xs:documentation>
</xs:annotation>
<xs:pattern
value="(\.//)?((((child:::)?((\i\c*:)?(\i\c*|\*)))|\.)/)*((((child:::)?((\i\c*:)?(\i\c*|\*)))|\.)|((attribute::|@)((\i\c*:)?(\i\c*|\*))))(\|(.//)?((((child:::)?((\i\c*:)?(\i\c*|\*)))|\.)|((attribute::|@)((\i\c*:)?(\i\c*|\*))))|\.)/)*((((child:::)?((\i\c*:)?(\i\c*|\*)))|\.)|((attribute::|@)((\i\c*:)?(\i\c*|\*))))*/>
</xs:restriction>
</xs:simpleType>
</xs:attribute>

```

### element fractionDigits

diagram	<pre> classDiagram     class xs:numFacet {         id         fixed         value         any ##other     }     class fractionDigits {         &lt;&lt;xs:numFacet&gt;&gt;     }     xs:numFacet "1" -- "1" xs:annotation     fractionDigits "*" -- "1" xs:numFacet </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:numFacet</a>																								
properties	content complex id fractionDigits																								
children	<a href="#">xs:annotation</a>																								
used by	group <a href="#">facets</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">fixed</a></td> <td><a href="#">xs:boolean</a></td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> <tr> <td><a href="#">value</a></td> <td><a href="#">xs:nonNegativeInteger</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false			<a href="#">value</a>	<a href="#">xs:nonNegativeInteger</a>	required			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false																						
<a href="#">value</a>	<a href="#">xs:nonNegativeInteger</a>	required																							
source	<pre> &lt;xs:element name="fractionDigits" type="xs:numFacet" id="fractionDigits"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt; source="http://www.w3.org/TR/xmlschema-2/#element-fractionDigits"/&gt;     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>																								

element **group**

diagram	<p>The diagram illustrates the structure of the xs:group element. It is a named group (xs:group) containing attributes (id, name, any ##other), annotations (xs:annotation), and a sequence of children (xs:all, xs:choice, xs:sequence). The xs:group element is shown with a dashed line indicating its scope.</p>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:group</a>																		
properties	content complex id group																		
children	<a href="#">xs:annotation</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a>																		
used by	group <a href="#">redefinable</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">name</a>	<a href="#">xs:NCName</a>	required																	
source	<pre>&lt;xs:element name="group" type="xs:group" id="group"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-group"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																		

### element **import**

diagram	<pre> classDiagram     class import {         &lt;&lt;xs:import&gt;&gt;         &lt;&lt;xs:annotated&gt;&gt;         &lt;&lt;any ##other&gt;&gt;         &lt;&lt;id&gt;&gt;         &lt;&lt;xs:annotation&gt;&gt;*         &lt;&lt;namespace&gt;&gt;         &lt;&lt;schemaLocation&gt;&gt;     }   </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	extension of <a href="#">xs:annotated</a>																								
properties	content complex id import																								
children	<a href="#">xs:annotation</a>																								
used by	element <a href="#">schema</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">namespace</a></td> <td><a href="#">xs:anyURI</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">schemaLocation</a></td> <td><a href="#">xs:anyURI</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">namespace</a>	<a href="#">xs:anyURI</a>					<a href="#">schemaLocation</a>	<a href="#">xs:anyURI</a>				
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">namespace</a>	<a href="#">xs:anyURI</a>																								
<a href="#">schemaLocation</a>	<a href="#">xs:anyURI</a>																								
source	<pre> &lt;xs:element name="import" id="import"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-import"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:attribute name="namespace" type="xs:anyURI"/&gt;         &lt;xs:attribute name="schemaLocation" type="xs:anyURI"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>																								

### attribute **import/@namespace**

type	<a href="#">xs:anyURI</a>
source	<pre> &lt;xs:attribute name="namespace" type="xs:anyURI"/&gt;   </pre>

**attribute import/@schemaLocation**

type	<b>xs:anyURI</b>
source	<b>&lt;xs:attribute name="schemaLocation" type="xs:anyURI"/&gt;</b>

**element include**

diagram	<pre> classDiagram     class xs:annotated {         &lt;&lt;xs:annotated (extension)&gt;&gt;         attributes         any ##other         id     }     class xs:annotation {         attributes         schemaLocation     }     xs:annotation "1" -- "1" xs:annotation : id     xs:annotation "*" -- "*" xs:annotation : xs:annotation     xs:annotation -- "1" xs:annotation : schemaLocation   </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	extension of <a href="#">xs:annotated</a>																		
properties	content complex id include																		
children	<a href="#">xs:annotation</a>																		
used by	element <a href="#">schema</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">schemaLocation</a></td> <td><a href="#">xs:anyURI</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">schemaLocation</a>	<a href="#">xs:anyURI</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">schemaLocation</a>	<a href="#">xs:anyURI</a>	required																	
source	<pre> &lt;xs:element name="include" id="include"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-include"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:attribute name="schemaLocation" type="xs:anyURI" use="required"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>																		

attribute **include/@schemaLocation**

type	<b>xs:anyURI</b>
properties	use required
source	<code>&lt;xs:attribute name="schemaLocation" type="xs:anyURI" use="required"/&gt;</code>

element **key**

diagram																			
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<b>xs:keybase</b>																		
properties	content complex id key																		
children	<b>xs:annotation xs:selector xs:field</b>																		
used by	group <b>identityConstraint</b>																		
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><u>id</u></td> <td><b>xs:ID</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>name</u></td> <td><b>xs:NCName</b></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<u>id</u>	<b>xs:ID</b>					<u>name</u>	<b>xs:NCName</b>	required			
Name	Type	Use	Default	Fixed	Annotation														
<u>id</u>	<b>xs:ID</b>																		
<u>name</u>	<b>xs:NCName</b>	required																	
source	<pre>&lt;xs:element name="key" type="xs:keybase" id="key"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-key"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																		

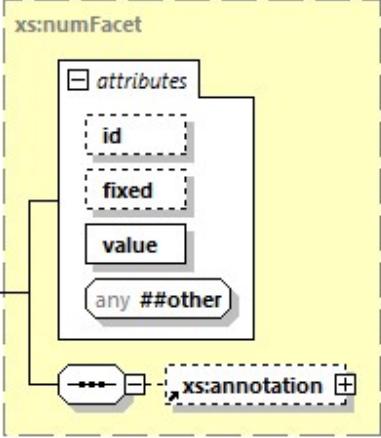
element **keyref**

diagram	<pre> classDiagram     class xs\$keybase {         &lt;&lt;extension&gt;&gt;         attributes any ##other         id         name     }     class keyref {         &lt;&lt;xs\$keybase&gt;&gt;         xs\$annotation         xs\$selector         xs\$field     }     xs\$field {         &lt;&lt;1..&gt;&gt;     }     xs\$annotation {         &lt;&lt;xs\$annotation&gt;&gt;     }     xs\$selector {         &lt;&lt;xs\$selector&gt;&gt;     }     xs\$field {         &lt;&lt;1..&gt;&gt;     } </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	extension of <a href="#">xs:keybase</a>																								
properties	content complex id keyref																								
children	<a href="#">xs:annotation</a> <a href="#">xs:selector</a> <a href="#">xs:field</a>																								
used by	group <a href="#">identityConstraint</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">refer</a></td> <td><a href="#">xs:QName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>	required				<a href="#">refer</a>	<a href="#">xs:QName</a>	required			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">name</a>	<a href="#">xs:NCName</a>	required																							
<a href="#">refer</a>	<a href="#">xs:QName</a>	required																							
source	<pre> &lt;xs:element name="keyref" id="keyref"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt; source="http://www.w3.org/TR/xmlschema-1/#element-keyref"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:keybase"&gt;         &lt;xs:attribute name="refer" type="xs:QName" use="required"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>																								

**attribute keyref/@refer**

type	<b>xs:QName</b>
properties	use required
source	<xs:attribute name="refer" type="xs:QName" use="required"/>

**element length**

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<b>xs:numFacet</b>																								
properties	content complex id length																								
children	<b>xs:annotation</b>																								
used by	group <b>facets</b>																								
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><b>id</b></td> <td><b>xs:ID</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>fixed</b></td> <td><b>xs:boolean</b></td> <td>optional</td> <td></td> <td>false</td> <td></td> </tr> <tr> <td><b>value</b></td> <td><b>xs:nonNegativeInteger</b></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>id</b>	<b>xs:ID</b>					<b>fixed</b>	<b>xs:boolean</b>	optional		false		<b>value</b>	<b>xs:nonNegativeInteger</b>	required			
Name	Type	Use	Default	Fixed	Annotation																				
<b>id</b>	<b>xs:ID</b>																								
<b>fixed</b>	<b>xs:boolean</b>	optional		false																					
<b>value</b>	<b>xs:nonNegativeInteger</b>	required																							
source	<pre> &lt;xs:element name="length" type="xs:numFacet" id="length"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-length"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>																								

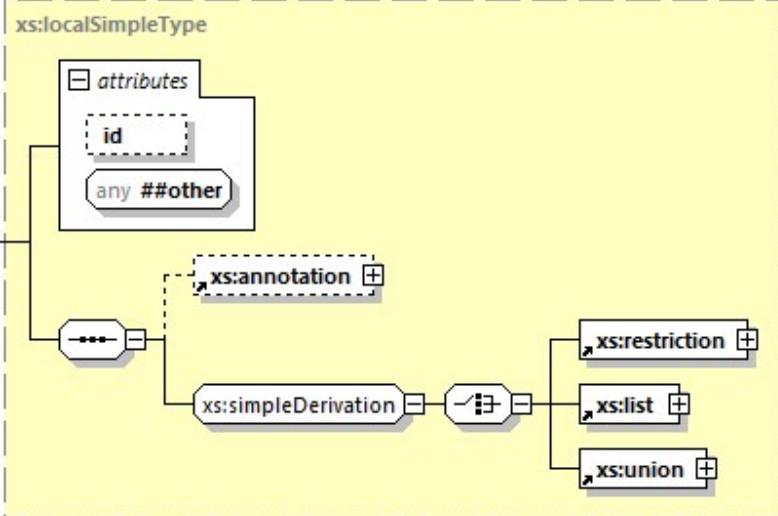
element **list**

diagram	<pre> classDiagram     list &lt; -- xs:annotated     list "1..3" --&gt; xs:annotation     list "1..3" --&gt; xs:simpleType     list "1..3" --&gt; any##other     list "1..3" --&gt; id   </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	extension of <a href="#">xs:annotated</a>																		
properties	<table border="1"> <tr> <td>content</td> <td>complex</td> </tr> <tr> <td>id</td> <td>list</td> </tr> </table>	content	complex	id	list														
content	complex																		
id	list																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a>																		
used by	group <a href="#">simpleDerivation</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">itemType</a></td> <td><a href="#">xs:QName</a></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">itemType</a>	<a href="#">xs:QName</a>	optional			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">itemType</a>	<a href="#">xs:QName</a>	optional																	
source	<pre> &lt;xs:element name="list" id="list"&gt;   &lt;xs:complexType&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-list"&gt;         itemType attribute and simpleType child are mutually         exclusive, but one or other is required       &lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="itemType" type="xs:QName" use="optional"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>																		

**attribute list/@itemType**

type	<b>xs:QName</b>
properties	use optional
source	<xs:attribute name="itemType" type="xs:QName" use="optional"/>

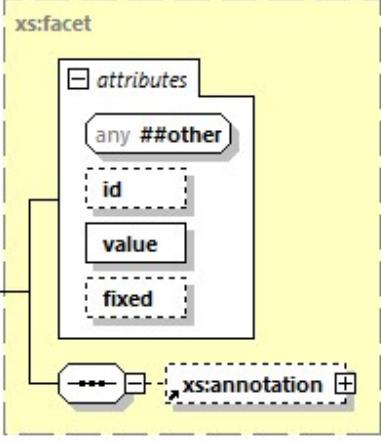
**element list/simpleType**

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<b>xs:localSimpleType</b>
properties	minOcc 0 maxOcc 1 content complex
children	<b>xs:annotation xs:restriction xs:list xs:union</b>
used by	group <b>redefinable</b>
attributes	Name <b>id</b> Type <b>xs:ID</b> Use Default Fixed Annotation
source	<xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/>

element **maxExclusive**

diagram	<pre> classDiagram     class maxExclusive     class xs_facet {         any ##other         id         value         fixed         xs_annotation     }     maxExclusive --&gt; xs_facet   </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:facet</a>																								
properties	<table> <tr> <td>content</td> <td>complex</td> </tr> <tr> <td>id</td> <td>maxExclusive</td> </tr> </table>	content	complex	id	maxExclusive																				
content	complex																								
id	maxExclusive																								
children	<a href="#">xs:annotation</a>																								
used by	group <a href="#">facets</a>																								
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<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">value</a>		required																							
<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false																						
source	<pre> &lt;xs:element name="maxExclusive" type="xs:facet" id="maxExclusive"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-maxExclusive"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;   </pre>																								

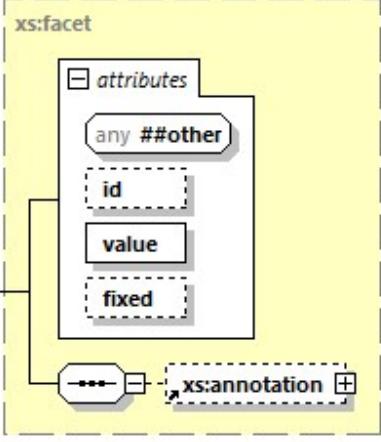
element **maxInclusive**

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:facet</a>																								
properties	content complex id maxInclusive																								
children	<a href="#">xs:annotation</a>																								
used by	group <a href="#">facets</a>																								
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source	<pre>&lt;xs:element name="maxInclusive" type="xs:facet" id="maxInclusive"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-maxInclusive"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																								

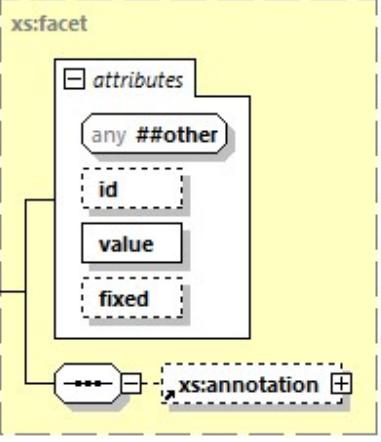
### element **maxLength**

diagram	<pre> classDiagram     class xs maxLength {         &lt;&lt;xs:numFacet&gt;&gt;         &lt;&lt;attributes&gt;&gt;         id         fixed         value         any ##other         &lt;&lt;xs:annotation&gt;&gt;     } </pre>																								
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source	<pre> &lt;xs:element name="maxLength" type="xs:numFacet" id="maxLength"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-maxLength"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>																								

element **minExclusive**

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:facet</a>																								
properties	content complex id minExclusive																								
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<a href="#">value</a>		required																							
<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false																						
source	<pre>&lt;xs:element name="minExclusive" type="xs:facet" id="minExclusive"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-minExclusive"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																								

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source	<pre>&lt;xs:element name="minInclusive" type="xs:facet" id="minInclusive"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-minInclusive"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																								

### element **minLength**

diagram	<pre> classDiagram     class minLength {         &lt;&lt;xs:minLength&gt;&gt;         &lt;&lt;xs:complexType&gt;&gt;         &lt;&lt;id, fixed, value, any ##other&gt;&gt;         &lt;&lt;xs:annotation&gt;&gt;     }   </pre>																								
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properties	content complex id minLength																								
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source	<pre> &lt;xs:element name="minLength" type="xs:numFacet" id="minLength"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-minLength"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;   </pre>																								

element **notation**

diagram	<pre> classDiagram     notation &lt; -- xs:annotated     notation {         &lt;&lt;xs:annotated (extension)&gt;&gt;         attributes             id : xs:ID             name : xs:NCName             public : xs:public             system : xs:anyURI         xs:annotation *--&gt; notation     }   </pre>																														
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type	extension of <a href="#">xs:annotated</a>																														
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source	<pre> &lt;xs:element name="notation" id="notation"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-notation"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;         &lt;xs:attribute name="public" type="xs:public"/&gt;         &lt;xs:attribute name="system" type="xs:anyURI"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>																														

attribute **notation/@name**

type	<code>xs:NCName</code>
properties	use required
source	<code>&lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;</code>

attribute **notation/@public**

type	<code>xs:public</code>
source	<code>&lt;xs:attribute name="public" type="xs:public"/&gt;</code>

attribute **notation/@system**

type	<code>xs:anyURI</code>
source	<code>&lt;xs:attribute name="system" type="xs:anyURI"/&gt;</code>

element **pattern**

diagram	<pre> classDiagram     class pattern {         &lt;&lt;xs:annotation&gt;&gt;     }     class attributes {         id         value         &lt;&lt;any ##other&gt;&gt;         &lt;&lt;any ##other&gt;&gt;     }     pattern "1" -- "1" attributes     </pre>																		
namespace	<code>http://www.w3.org/2001/XMLSchema</code>																		
type	restriction of <code>xs:noFixedFacet</code>																		
properties	content complex id pattern																		
children	<code>xs:annotation</code>																		
used by	group <code>facets</code>																		
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><code>id</code></td> <td><code>xs:ID</code></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><code>value</code></td> <td><code>xs:string</code></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<code>id</code>	<code>xs:ID</code>					<code>value</code>	<code>xs:string</code>	required			
Name	Type	Use	Default	Fixed	Annotation														
<code>id</code>	<code>xs:ID</code>																		
<code>value</code>	<code>xs:string</code>	required																	
source	<pre> &lt;xs:element name="pattern" id="pattern"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-pattern"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       </pre>																		

```

<xs:restriction base="xs:noFixedFacet">
  <xs:sequence>
    <xs:element ref="xs:annotation" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="value" type="xs:string" use="required"/>
  <xs:anyAttribute namespace="#other" processContents="lax"/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

### attribute pattern/@value

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

### element redefine

diagram	<p>This group is for the elements which can self-redefine (see &amp;lt;redefine&gt; below).</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	extension of <a href="#">xs:openAttrs</a>
properties	content complex id redefine
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:group</a> <a href="#">xs:attributeGroup</a>

used by	element <a href="#"><b>schema</b></a>
attributes	<p>Name <a href="#"><b>schemaLocation</b></a> Type <a href="#"><b>xs:anyURI</b></a> Use required Default Fixed Annotation</p> <p><a href="#"><b>id</b></a> <a href="#"><b>xs:ID</b></a></p>
source	<pre>&lt;xs:element name="redefine" id="redefine"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-redefine"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:openAttrs"&gt;         &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;           &lt;xs:element ref="xs:annotation"/&gt;           &lt;xs:group ref="xs:redefinable"/&gt;         &lt;/xs:choice&gt;         &lt;xs:attribute name="schemaLocation" type="xs:anyURI" use="required"/&gt;         &lt;xs:attribute name="id" type="xs:ID"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

**attribute redefine/@schemaLocation**

type	<a href="#"><b>xs:anyURI</b></a>
properties	use required
source	<a href="#"><b>&lt;xs:attribute name="schemaLocation" type="xs:anyURI" use="required"/&gt;</b></a>

**attribute redefine/@id**

type	<a href="#"><b>xs:ID</b></a>
source	<a href="#"><b>&lt;xs:attribute name="id" type="xs:ID"/&gt;</b></a>

## element restriction

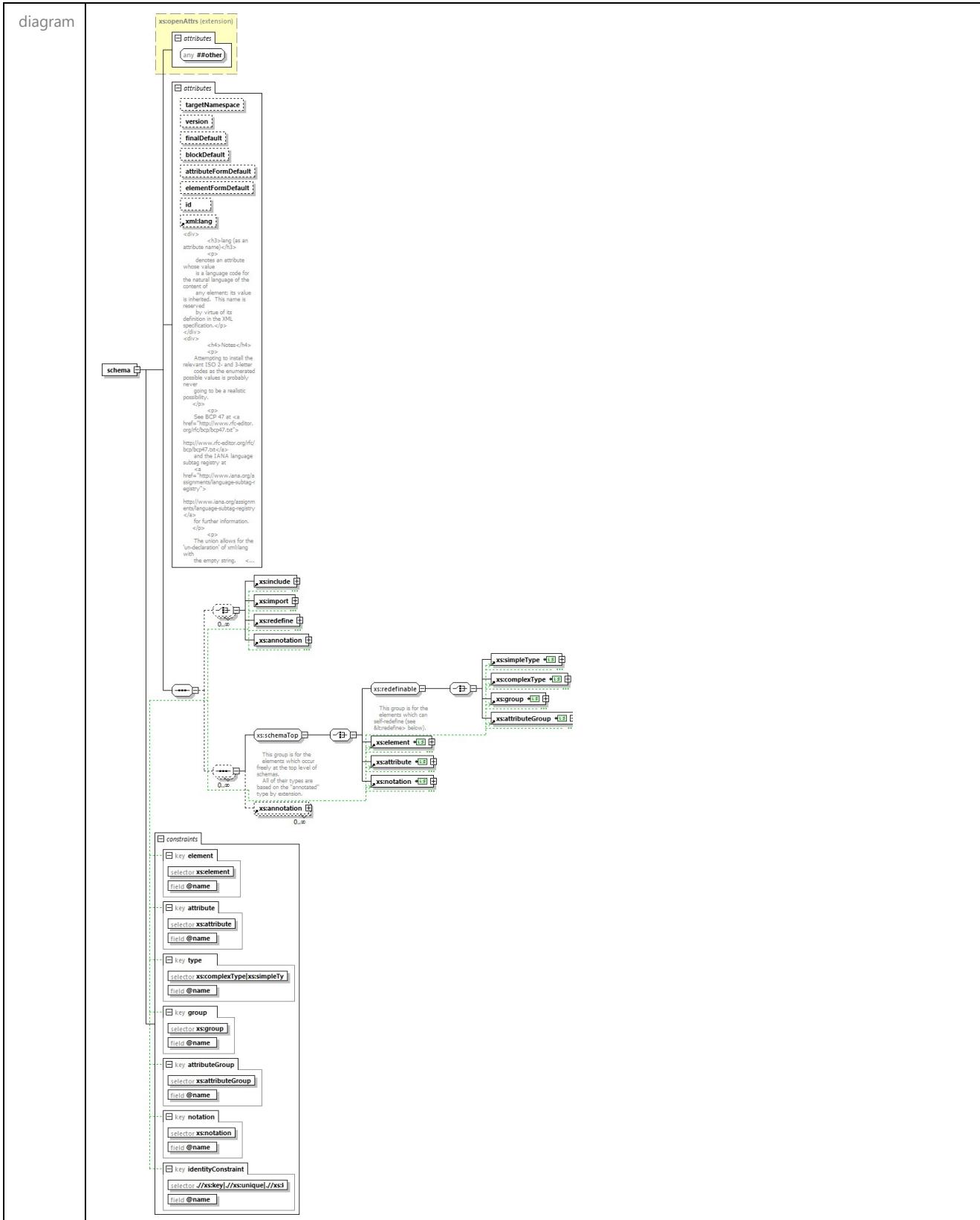
diagram																			
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	extension of <a href="#">xs:annotated</a>																		
properties	content complex id restriction																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:minExclusive</a> <a href="#">xs:minInclusive</a> <a href="#">xs:maxExclusive</a> <a href="#">xs:maxInclusive</a> <a href="#">xs:totalDigits</a> <a href="#">xs:fractionDigits</a> <a href="#">xs:length</a> <a href="#">xs:minLength</a> <a href="#">xs:maxLength</a> <a href="#">xs:enumeration</a> <a href="#">xs:whiteSpace</a> <a href="#">xs:pattern</a>																		
used by	complexType <a href="#">idsValue</a> group <a href="#">simpleDerivation</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">base</a></td> <td><a href="#">xs:QName</a></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">base</a>	<a href="#">xs:QName</a>	optional			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">base</a>	<a href="#">xs:QName</a>	optional																	
source	<pre>&lt;xs:element name="restriction" id="restriction"&gt;   &lt;xs:complexType&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;</pre>																		

```
source="http://www.w3.org/TR/xmlschema-2/#element-restriction">
    base attribute and simpleType child are mutually
    exclusive, but one or other is required
    </xs:documentation>
</xs:annotation>
<xs:complexContent>
    <xs:extension base="xs:annotated">
        <xs:group ref="xs:simpleRestrictionModel"/>
        <xs:attribute name="base" type="xs:QName" use="optional"/>
    </xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>
```

**attribute restriction/@base**

type	<b>xs:QName</b>
properties	use optional
source	<xs:attribute name="base" type="xs:QName" use="optional"/>

## element schema



namespace	http://www.w3.org/2001/XMLSchema					
type	extension of <a href="#">xs:openAttrs</a>					
properties	content complex id schema					
children	<a href="#">xs:include</a> <a href="#">xs:import</a> <a href="#">xs:redefine</a> <a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:group</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:element</a> <a href="#">xs:attribute</a> <a href="#">xs:notation</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">targetNamespace</a>	<a href="#">xs:anyURI</a>				
	<a href="#">version</a>	<a href="#">xs:token</a>				
	<a href="#">finalDefault</a>	<a href="#">xs:fullDerivationSet</a>	option	<empty al>		
	<a href="#">blockDefault</a>	<a href="#">xs:blockSet</a>	option	<empty al>		
	<a href="#">attributeFormDefault</a>	<a href="#">xs:formChoice</a>	option	unqualified		
	<a href="#">elementFormDefault</a>	<a href="#">xs:formChoice</a>	option	unqualified		
	<a href="#">id</a>	<a href="#">xs:ID</a>	option	al		
	<a href="#">xml:lang</a>	<a href="#">derived by: xs:language</a>			documentation	
						<div>
						<h3>lang (as an attribute name)</h3>
						<p>
						denotes an attribute whose value
						is a language code for the natural language
						of the content of
						any element; its value is inherited. This
						name is reserved
						by virtue of its definition in the XML
						specification.</p>
						</div>
						<div>
						<h4>Notes</h4>
						<p>
						Attempting to install the relevant ISO 2- and
						3-letter
						codes as the enumerated possible values is
						probably never
						going to be a realistic possibility.
						</p>
						<p>
						See BCP 47 at <a
						href="http://www.rfc-editor.org/rfc/bcp/bcp47.txt">
						http://www.rfc-editor.org/rfc/bcp/bcp47.txt</a>
						and the IANA language subtag registry at
						<a
						href="http://www.iana.org/assignments/language-subtag-registry">
						http://www.iana.org/assignments/language-subtag-re
						gistry</a>
						for further information.
						</p>
						<p>

				The union allows for the 'un-declaration' of xml:lang with the empty string. </p> </div>		
identity constraints		Name	Refer	Selector	Field(s)	Annotation
	key	element		xs:element	@name	
	key	attribute		xs:attribute	@name	
	key	type		xs:complexType xs:simpleType	@name	
	key	group		xs:group	@name	
	key	attributeGroup		xs:attributeGroup	@name	
	key	notation		xs:notation	@name	
	key	identityConstraint		./xs:key ./xs:unique ./xs:keyref	@name	
source	<pre> &lt;xs:element name="schema" id="schema"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-schema"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:openAttrs"&gt;         &lt;xs:sequence&gt;           &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;             &lt;xs:element ref="xs:include"/&gt;             &lt;xs:element ref="xs:import"/&gt;             &lt;xs:element ref="xs:redefine"/&gt;             &lt;xs:element ref="xs:annotation"/&gt;           &lt;/xs:choice&gt;           &lt;xs:sequence minOccurs="0" maxOccurs="unbounded"&gt;             &lt;xs:group ref="xs:schemaTop"/&gt;             &lt;xs:element ref="xs:annotation" minOccurs="0" maxOccurs="unbounded"/&gt;           &lt;/xs:sequence&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="targetNamespace" type="xs:anyURI"/&gt;         &lt;xs:attribute name="version" type="xs:token"/&gt;         &lt;xs:attribute name="finalDefault" type="xs:fullDerivationSet" use="optional" default="" /&gt;         &lt;xs:attribute name="blockDefault" type="xs:blockSet" use="optional" default="" /&gt;         &lt;xs:attribute name="attributeFormDefault" type="xs:formChoice" use="optional" default="unqualified" /&gt;         &lt;xs:attribute name="elementFormDefault" type="xs:formChoice" use="optional" default="unqualified" /&gt;         &lt;xs:attribute name="id" type="xs:ID"/&gt;         &lt;xs:attribute ref="xml:lang"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt;   &lt;xs:key name="element"&gt;     &lt;xs:selector xpath="xs:element"/&gt;     &lt;xs:field xpath="@name"/&gt;   &lt;/xs:key&gt;   &lt;xs:key name="attribute"&gt;     &lt;xs:selector xpath="xs:attribute"/&gt;   </pre>					

```

<xs:field xpath="@name"/>
</xs:key>
<xs:key name="type">
  <xs:selector xpath="xs:complexType|xs:simpleType"/>
  <xs:field xpath="@name"/>
</xs:key>
<xs:key name="group">
  <xs:selector xpath="xs:group"/>
  <xs:field xpath="@name"/>
</xs:key>
<xs:key name="attributeGroup">
  <xs:selector xpath="xs:attributeGroup"/>
  <xs:field xpath="@name"/>
</xs:key>
<xs:key name="notation">
  <xs:selector xpath="xs:notation"/>
  <xs:field xpath="@name"/>
</xs:key>
<xs:key name="identityConstraint">
  <xs:selector xpath=".//xs:key|..//xs:unique|..//xs:keyref"/>
  <xs:field xpath="@name"/>
</xs:key>
</xs:element>

```

#### attribute **schema/@targetNamespace**

type	<a href="#">xs:anyURI</a>
source	<xs:attribute name="targetNamespace" type="xs:anyURI"/>

#### attribute **schema/@version**

type	<a href="#">xs:token</a>
source	<xs:attribute name="version" type="xs:token"/>

#### attribute **schema/@finalDefault**

type	<a href="#">xs:fullDerivationSet</a>
properties	use optional default <empty>
source	<xs:attribute name="finalDefault" type="xs:fullDerivationSet" use="optional" default="" />

#### attribute **schema/@blockDefault**

type	<a href="#">xs:blockSet</a>
properties	use optional default <empty>

source	<code>&lt;xs:attribute name="blockDefault" type="xs:blockSet" use="optional" default="" /&gt;</code>
--------	--

attribute **schema/@attributeFormDefault**

type	<a href="#">xs:formChoice</a>
properties	use optional default unqualified
facets	Kind Value Annotation enumeration qualified enumeration unqualified
source	<code>&lt;xs:attribute name="attributeFormDefault" type="xs:formChoice" use="optional" default="unqualified"/&gt;</code>

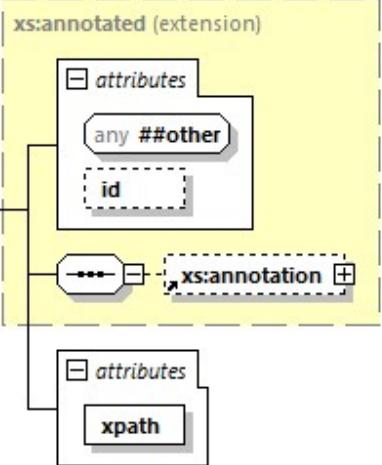
attribute **schema/@elementFormDefault**

type	<a href="#">xs:formChoice</a>
properties	use optional default unqualified
facets	Kind Value Annotation enumeration qualified enumeration unqualified
source	<code>&lt;xs:attribute name="elementFormDefault" type="xs:formChoice" use="optional" default="unqualified"/&gt;</code>

attribute **schema/@id**

type	<a href="#">xs:ID</a>
source	<code>&lt;xs:attribute name="id" type="xs:ID"/&gt;</code>

element **selector**

diagram																			
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	extension of <a href="#">xs:annotated</a>																		
properties	content complex id selector																		
children	<a href="#">xs:annotation</a>																		
used by	complexType <a href="#">keybase</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">xpath</a></td> <td><b>derived by:</b> <a href="#">xs:token</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">xpath</a>	<b>derived by:</b> <a href="#">xs:token</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">xpath</a>	<b>derived by:</b> <a href="#">xs:token</a>	required																	
source	<pre> &lt;xs:element name="selector" id="selector"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-selector"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:attribute name="xpath" use="required"&gt;           &lt;xs:simpleType&gt;             &lt;xs:annotation&gt;               &lt;xs:documentation&gt;A subset of XPath expressions for use in selectors&lt;/xs:documentation&gt;               &lt;xs:documentation&gt;A utility type, not for public use&lt;/xs:documentation&gt;             &lt;/xs:annotation&gt;           &lt;xs:restriction base="xs:token"&gt;             &lt;xs:annotation&gt;               &lt;xs:documentation&gt;The following pattern is intended to allow XPath </pre>																		

```

expressions per the following EBNF:
Selector ::= Path ( '|' Path )*
Path ::= ('.'//')? Step ( '/' Step )*
Step ::= '.' | NameTest
NameTest ::= QName | '*' | NCName ':' '*'
           child:: is also allowed
</xs:documentation>
</xs:annotation>
<xs:pattern
value="(.//)?(((child::)?((\i\c*:)?(\i\c*|\*)))|\.)(/(((child::)?((\i\c*:)?(\i\c*|\*)))|\.)|(.//)?(((child::)?((\i\c*:)?(\i\c*|\*)))|\.)|(.//)?(((child::)?((\i\c*:)?(\i\c*|\*)))|\.)*)*"/>
</xs:restriction>
</xs:simpleType>
</xs:attribute>
</xs:extension>
</xs:complexContent>
</xs:complexType>
</xs:element>

```

#### attribute **selector/@xpath**

type	restriction of <b>xs:token</b>	
properties	use required	
faces	Kind Value	Annotati on
patte rn		(.//)?(((child::)?((\i\c*:)?(\i\c* \*))) \.) (.//)?(((child::)?((\i\c*:)?(\i\c* \*))) \.) (.//)?(((child::)?((\i\c*:)?(\i\c* \*))) \.)*)*
source	<xs:attribute name="xpath" use="required">   <xs:simpleType>     <xs:annotation>       <xs:documentation>A subset of XPath expressions for use in selectors</xs:documentation>       <xs:documentation>A utility type, not for public use</xs:documentation>     </xs:annotation>     <xs:restriction base="xs:token">       <xs:annotation>         <xs:documentation>The following pattern is intended to allow XPath expressions per the following EBNF:</xs:documentation>           Selector ::= Path ( ' ' Path )*           Path ::= ('.'//')? Step ( '/' Step )*           Step ::= '.'   NameTest           NameTest ::= QName   '*'   NCName ':' '*'                      child:: is also allowed         </xs:documentation>       </xs:annotation>       <xs:pattern value="(.//)?(((child::)?((\i\c*:)?(\i\c* \*))) \.) (.//)?(((child::)?((\i\c*:)?(\i\c* \*))) \.) (.//)?(((child::)?((\i\c*:)?(\i\c* \*))) \.)*)*"/>     </xs:restriction>   </xs:simpleType> </xs:attribute>	

```

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

```

### element sequence

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:explicitGroup</a>																								
properties	content complex id sequence																								
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>																								
used by	complexType <a href="#">realGroup</a> groups <a href="#">nestedParticle</a> <a href="#">particle</a> <a href="#">typeDefParticle</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">minOccurs</a></td> <td><a href="#">xs:nonNegativeInteger</a></td> <td>optional</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td><a href="#">maxOccurs</a></td> <td><a href="#">xs:allNNI</a></td> <td>optional</td> <td>1</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">minOccurs</a>	<a href="#">xs:nonNegativeInteger</a>	optional	1			<a href="#">maxOccurs</a>	<a href="#">xs:allNNI</a>	optional	1		
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">minOccurs</a>	<a href="#">xs:nonNegativeInteger</a>	optional	1																						
<a href="#">maxOccurs</a>	<a href="#">xs:allNNI</a>	optional	1																						
source	<pre> &lt;xs:element name="sequence" type="xs:explicitGroup" id="sequence"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-sequence"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>																								

## element simpleContent

diagram	<pre> classDiagram     simpleContent &lt; -- xs:annotated     simpleContent &lt; -- xs:restriction     simpleContent &lt; -- xs:extension     simpleContent &lt; -- xs:annotation     simpleContent &lt; -- attributes {         any ##other         id     }   </pre>												
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	extension of <a href="#">xs:annotated</a>												
properties	content complex id simpleContent												
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:extension</a>												
used by	group <a href="#">complexTypeModel</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												
source	<pre> &lt;xs:element name="simpleContent" id="simpleContent"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-simpleContent"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:choice&gt;           &lt;xs:element name="restriction" type="xs:simpleRestrictionType"/&gt;           &lt;xs:element name="extension" type="xs:simpleExtensionType"/&gt;         &lt;/xs:choice&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>												

## element simpleContent/restriction

diagram																			
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:simpleRestrictionType</a>																		
properties	content complex																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:minExclusive</a> <a href="#">xs:minInclusive</a> <a href="#">xs:maxExclusive</a> <a href="#">xs:maxInclusive</a> <a href="#">xs:totalDigits</a> <a href="#">xs:fractionDigits</a> <a href="#">xs:length</a> <a href="#">xs:minLength</a> <a href="#">xs:maxLength</a> <a href="#">xs:enumeration</a> <a href="#">xs:whiteSpace</a> <a href="#">xs:pattern</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	complexType <a href="#">idsValue</a> group <a href="#">simpleDerivation</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">base</a></td> <td><a href="#">xs:QName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">base</a>	<a href="#">xs:QName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">base</a>	<a href="#">xs:QName</a>	required																	
source	<code>&lt;xs:element name="restriction" type="xs:simpleRestrictionType"/&gt;</code>																		

### element simpleContent/extension

diagram	<pre> classDiagram     class xs:simpleExtensionType {         id         base         any ##other     }     xs:attrDecls *--&gt; xs:annotation     xs:attrDecls *--&gt; xs:attribute     xs:attrDecls *--&gt; xs:attributeGroup     xs:attrDecls *--&gt; xs:anyAttribute     note over xs:attrDecls: No typeDefParticle group reference   </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:simpleExtensionType</a>																		
properties	content complex																		
children	<a href="#">xs:annotation</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">base</a></td> <td><a href="#">xs:QName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">base</a>	<a href="#">xs:QName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">base</a>	<a href="#">xs:QName</a>	required																	
source	<code>&lt;xs:element name="extension" type="xs:simpleExtensionType"/&gt;</code>																		

## element simpleType

diagram	<pre> classDiagram     class simpleType {         id         final         name     }     simpleType --&gt; annotation : xs:annotation     simpleType --&gt; simpleDerivationSet : xs:simpleDerivationSet     simpleType --&gt; restriction : xs:restriction     restriction --&gt; list : xs:list     restriction --&gt; union : xs:union     note over simpleType: Required at the top level   </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	<a href="#">xs:topLevelSimpleType</a>																								
properties	content complex id simpleType																								
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>																								
used by	group <a href="#">redefinable</a>																								
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Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">final</a>	<a href="#">xs:simpleDerivationSet</a>																								
<a href="#">name</a>	<a href="#">xs:NCName</a>	required			documentation																				
source	<pre> &lt;xs:element name="simpleType" type="xs:topLevelSimpleType" id="simpleType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#element-simpleType"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;   </pre>																								

element **totalDigits**

diagram	<pre> classDiagram     class totalDigits {         id : xs:ID         fixed : xs:boolean         value : xs:positiveInteger         "any ##other"         "any ##other"     }     totalDigits --&gt; xs:annotation   </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:numFacet</a>																								
properties	content complex id totalDigits																								
children	<a href="#">xs:annotation</a>																								
used by	group <a href="#">facets</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">fixed</a></td> <td><a href="#">xs:boolean</a></td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> <tr> <td><a href="#">value</a></td> <td><a href="#">xs:positiveInteger</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false			<a href="#">value</a>	<a href="#">xs:positiveInteger</a>	required			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false																						
<a href="#">value</a>	<a href="#">xs:positiveInteger</a>	required																							
source	<pre> &lt;xs:element name="totalDigits" id="totalDigits"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-totalDigits"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:restriction base="xs:numFacet"&gt;         &lt;xs:sequence&gt;           &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="value" type="xs:positiveInteger" use="required"/&gt;         &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>																								

attribute **totalDigits/@value**

type	<a href="#">xs:positiveInteger</a>
properties	use required
source	<pre> &lt;xs:attribute name="value" type="xs:positiveInteger" use="required"/&gt;   </pre>

## element union

diagram	<pre> classDiagram     union &lt; -- xs:annotated     xs:annotation {         any ##other         id     }     simpleType {         memberTypes     }     0..∞   </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	extension of <a href="#">xs:annotated</a>																								
properties	content complex id union																								
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a>																								
used by	group <a href="#">simpleDerivation</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">memberTypes</a></td> <td><b>derived by:</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td><a href="#">xs:list</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">memberTypes</a>	<b>derived by:</b>	optional					<a href="#">xs:list</a>				
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">memberTypes</a>	<b>derived by:</b>	optional																							
	<a href="#">xs:list</a>																								
source	<pre> &lt;xs:element name="union" id="union"&gt;   &lt;xs:complexType&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt; source="http://www.w3.org/TR/xmlschema-2/#element-union"         memberTypes attribute must be non-empty or there must be         at least one simpleType child       &lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:sequence&gt;           &lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0" maxOccurs="unbounded"/&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="memberTypes" use="optional"&gt;           &lt;xs:simpleType&gt;             &lt;xs:list itemType="xs:QName"/&gt;           &lt;/xs:simpleType&gt;         &lt;/xs:attribute&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>																								

	<pre> &lt;/xs:attribute&gt; &lt;/xs:extension&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>
--	---

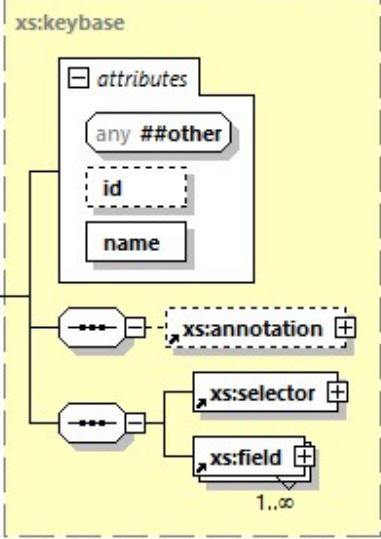
### attribute **union/@memberTypes**

type	list of <b>xs:QName</b>
properties	use optional
source	<pre> &lt;xs:attribute name="memberTypes" use="optional"&gt;   &lt;xs:simpleType&gt;     &lt;xs:list itemType="xs:QName"/&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt; </pre>

### element **union/simpleType**

diagram													
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<b>xs:localSimpleType</b>												
properties	minOcc 0 maxOcc unbounded content complex												
children	<b>xs:annotation xs:restriction xs:list xs:union</b>												
used by	group <a href="#">redefinable</a>												
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><u>id</u></td> <td><b>xs:ID</b></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<u>id</u>	<b>xs:ID</b>				
Name	Type	Use	Default	Fixed	Annotation								
<u>id</u>	<b>xs:ID</b>												
source	<pre> &lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"   maxOccurs="unbounded"/&gt; </pre>												

## element unique

diagram																			
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:keybase</a>																		
properties	content complex id unique																		
children	<a href="#">xs:annotation</a> <a href="#">xs:selector</a> <a href="#">xs:field</a>																		
used by	group <a href="#">identityConstraint</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">name</a>	<a href="#">xs:NCName</a>	required																	
source	<pre>&lt;xs:element name="unique" type="xs:keybase" id="unique"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-1/#element-unique"/&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>																		

element **whiteSpace**

diagram	<pre> classDiagram     class whiteSpace {         any ##other         id         value         fixed         any ##other     }     whiteSpace --&gt; xs:annotation   </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:facet</a>																								
properties	content complex id whiteSpace																								
children	<a href="#">xs:annotation</a>																								
used by	group <a href="#">facets</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">value</a></td> <td><a href="#">xs:NMTOKEN</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">fixed</a></td> <td><a href="#">xs:boolean</a></td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">value</a>	<a href="#">xs:NMTOKEN</a>	required				<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false		
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">value</a>	<a href="#">xs:NMTOKEN</a>	required																							
<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false																						
source	<pre> &lt;xs:element name="whiteSpace" id="whiteSpace"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-whiteSpace"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:restriction base="xs:facet"&gt;         &lt;xs:sequence&gt;           &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;/xs:sequence&gt;         &lt;xs:attribute name="value" use="required"&gt;           &lt;xs:simpleType&gt;             &lt;xs:restriction base="xs:NMTOKEN"&gt;               &lt;xs:enumeration value="preserve"/&gt;               &lt;xs:enumeration value="replace"/&gt;               &lt;xs:enumeration value="collapse"/&gt;             &lt;/xs:restriction&gt;           &lt;/xs:simpleType&gt;         &lt;/xs:attribute&gt;         &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;   </pre>																								

### attribute **whiteSpace/@value**

type	restriction of <b>xs:NMTOKEN</b>												
properties	use required												
facets	<table> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>preserve</td> <td></td> </tr> <tr> <td>enumeration</td> <td>replace</td> <td></td> </tr> <tr> <td>enumeration</td> <td>collapse</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	preserve		enumeration	replace		enumeration	collapse	
Kind	Value	Annotation											
enumeration	preserve												
enumeration	replace												
enumeration	collapse												
source	<pre>&lt;xs:attribute name="value" use="required"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:NMTOKEN"&gt;       &lt;xs:enumeration value="preserve"/&gt;       &lt;xs:enumeration value="replace"/&gt;       &lt;xs:enumeration value="collapse"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>												

### group **allModel**

diagram	<p>0..∞ This choice with min/max is here to avoid a pb1m with the Elt:All/Choice/Seq Particle derivation constraint</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<b>xs:annotation</b> <b>xs:element</b>
used by	element <a href="#">namedGroup/all</a> complexType <a href="#">all</a>
source	<pre>&lt;xs:group name="allModel"&gt;   &lt;xs:sequence&gt;     &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;     &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;This choice with min/max is here to avoid a pb1m with the Elt:All/Choice/Seq Particle derivation constraint&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;       &lt;xs:element name="element" type="xs:narrowMaxMin"/&gt;     &lt;/xs:choice&gt;   &lt;/xs:sequence&gt; &lt;/xs:group&gt;</pre>

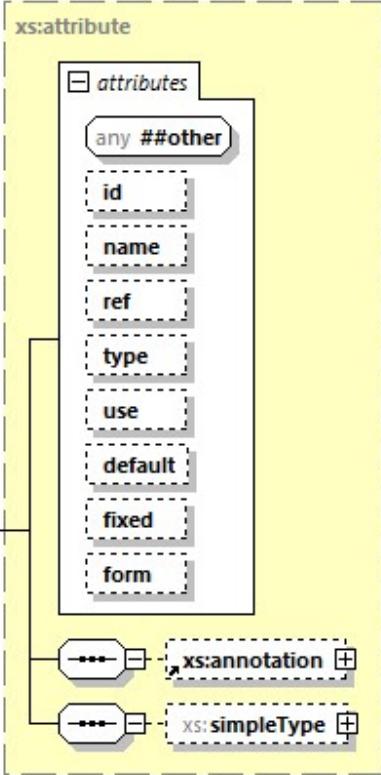
### element allModel/element

diagram	<p>The diagram illustrates the structure of the <code>xs:narrowMaxMin</code> element. It contains attributes: <code>id</code>, <code>name</code>, <code>ref</code>, <code>type</code>, <code>default</code>, <code>fixed</code>, <code>nillable</code>, <code>block</code>, <code>form</code>, <code>minOccurs</code>, and <code>maxOccurs</code>. It also includes an association with <code>xs:element</code> and <code>xs:annotation</code>. Below <code>xs:annotation</code>, there are associations with <code>xs:simpleType</code> and <code>xs:complexType</code>. Further down, there is an association with <code>xs:identityConstraint</code>, which in turn has associations with <code>xs:unique</code>, <code>xs:key</code>, and <code>xs:keyref</code>. A note at the bottom states: "The three kinds of identity constraints, all with type of or derived from 'keybase'.".</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<a href="#">xs:narrowMaxMin</a>
properties	content complex
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>
used by	group <a href="#">schemaTop</a>

attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">id</a>	<a href="#">xs:ID</a>				
	<a href="#">name</a>	<a href="#">xs:NCName</a>				
	<a href="#">ref</a>	<a href="#">xs:QName</a>				
	<a href="#">type</a>	<a href="#">xs:QName</a>				
	<a href="#">default</a>	<a href="#">xs:string</a>				
	<a href="#">fixed</a>	<a href="#">xs:string</a>				
	<a href="#">nillable</a>	<a href="#">xs:boolean</a>	optional		false	
	<a href="#">block</a>	<a href="#">xs:blockSet</a>				
	<a href="#">form</a>	<a href="#">xs:formChoice</a>				
	<a href="#">minOccurs</a>	<a href="#">derived by:</a> <a href="#">xs:nonNegativeInteger</a>	optional	1		
	<a href="#">maxOccurs</a>	<a href="#">derived by:</a> <a href="#">xs:allNNI</a>	optional	1		
source	<code>&lt;xs:element name="element" type="xs:narrowMaxMin"/&gt;</code>					

group attrDecls	
diagram	<pre> classDiagram     class attrDecls     class xs_attribute     class xs_attributeGroup     class xs_anyAttribute      attrDecls --&gt; sequence     sequence --&gt; xs_attribute     sequence --&gt; xs_attributeGroup     sequence --&gt; xs_anyAttribute * "0..∞"   </pre>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>
used by	complexTypes <a href="#">attributeGroup</a> <a href="#">complexRestrictionType</a> <a href="#">extensionType</a> <a href="#">namedAttributeGroup</a> <a href="#">restrictionType</a> group <a href="#">simpleExtensionType</a> <a href="#">simpleRestrictionType</a> <a href="#">complexTypeModel</a>
source	<pre> &lt;xs:group name="attrDecls"&gt;   &lt;xs:sequence&gt;     &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:element name="attribute" type="xs:attribute"/&gt;       &lt;xs:element name="attributeGroup" type="xs:attributeGroupRef"/&gt;     &lt;/xs:choice&gt;     &lt;xs:element ref="xs:anyAttribute" minOccurs="0"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:group&gt;   </pre>

## element attrDecls/attribute

diagram																																																							
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																																						
type	<a href="#">xs:attribute</a>																																																						
properties	content complex																																																						
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a>																																																						
used by	group <a href="#">schemaTop</a>																																																						
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">ref</a></td> <td><a href="#">xs:QName</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">type</a></td> <td><a href="#">xs:QName</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">use</a></td> <td><a href="#">derived by:</a> <a href="#">xs:NMTOKEN</a></td> <td>optional</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><a href="#">default</a></td> <td><a href="#">xs:string</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">fixed</a></td> <td><a href="#">xs:string</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">form</a></td> <td><a href="#">xs:formChoice</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>					<a href="#">ref</a>	<a href="#">xs:QName</a>					<a href="#">type</a>	<a href="#">xs:QName</a>					<a href="#">use</a>	<a href="#">derived by:</a> <a href="#">xs:NMTOKEN</a>	optional		optional		<a href="#">default</a>	<a href="#">xs:string</a>					<a href="#">fixed</a>	<a href="#">xs:string</a>					<a href="#">form</a>	<a href="#">xs:formChoice</a>				
Name	Type	Use	Default	Fixed	Annotation																																																		
<a href="#">id</a>	<a href="#">xs:ID</a>																																																						
<a href="#">name</a>	<a href="#">xs:NCName</a>																																																						
<a href="#">ref</a>	<a href="#">xs:QName</a>																																																						
<a href="#">type</a>	<a href="#">xs:QName</a>																																																						
<a href="#">use</a>	<a href="#">derived by:</a> <a href="#">xs:NMTOKEN</a>	optional		optional																																																			
<a href="#">default</a>	<a href="#">xs:string</a>																																																						
<a href="#">fixed</a>	<a href="#">xs:string</a>																																																						
<a href="#">form</a>	<a href="#">xs:formChoice</a>																																																						
source	<code>&lt;xs:element name="attribute" type="xs:attribute"/&gt;</code>																																																						

### element attrDecls/attributeGroup

diagram	<pre> graph TD     AGRef[xs:attributeGroupRef] --&gt; AG[xs:attributeGroup]     AGRef --&gt; Annotation[xs:annotation]     AGRef --&gt; Any[any ##other]     AGRef --&gt; Dots[...]     AGRef --- AG   </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:attributeGroupRef</a>																		
properties	content complex																		
children	<a href="#">xs:annotation</a>																		
used by	group <a href="#">redefinable</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">ref</a></td> <td><a href="#">xs:QName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">ref</a>	<a href="#">xs:QName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">ref</a>	<a href="#">xs:QName</a>	required																	
source	<code>&lt;xs:element name="attributeGroup" type="xs:attributeGroupRef"/&gt;</code>																		

### group complexTypeModel

diagram	<pre> graph TD     CTM[complexTypeModel] --&gt; SC[xs:simpleContent]     CTM --&gt; CC[xs:complexContent]     CC --&gt; TDP[xs:typeDefParticle]     CC --&gt; AD[xs:attrDecls]     CC --&gt; AA[xs:anyAttribute]     TDP --&gt; G[xs:group]     TDP --&gt; A[xs:all]     TDP --&gt; C[xs:choice]     TDP --&gt; S[xs:sequence]     TDP --&gt; A[xs:attribute]     TDP --&gt; AG[xs:attributeGroup]     TDP --&gt; AA[xs:anyAttribute]     Note["This branch is short for &amp;lt;complexContent&gt; &amp;lt;restriction&gt; base='xs:anyType'"...&lt;br/&gt;&amp;lt;/restriction&gt; &amp;lt;/complexContent&gt;"]   </pre>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>
used by	complexTypes <a href="#">complexType</a> <a href="#">localComplexType</a> <a href="#">topLevelComplexType</a>

source	<pre> &lt;xs:group name="complexTypeModel"&gt;   &lt;xs:choice&gt;     &lt;xs:element ref="xs:simpleContent"/&gt;     &lt;xs:element ref="xs:complexContent"/&gt;     &lt;xs:sequence&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;           This branch is short for           &amp;lt;complexContent&amp;gt;             &amp;lt;restriction base="xs:anyType"&gt;               ...             &amp;lt;/restriction&gt;           &amp;lt;/complexContent&amp;gt;&lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;         &lt;xs:group ref="xs:typeDefParticle" minOccurs="0"/&gt;         &lt;xs:group ref="xs:attrDecls"/&gt;       &lt;/xs:sequence&gt;     &lt;/xs:choice&gt;   &lt;/xs:group&gt; </pre>
--------	--

group facets	
diagram	<p>We should use a substitution group for facets, but that's ruled out because it would allow users to add their own, which we're not ready for yet.</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:minExclusive</a> <a href="#">xs:minInclusive</a> <a href="#">xs:maxExclusive</a> <a href="#">xs:maxInclusive</a> <a href="#">xs:totalDigits</a> <a href="#">xs:fractionDigits</a> <a href="#">xs:length</a> <a href="#">xs:minLength</a> <a href="#">xs:maxLength</a> <a href="#">xs:enumeration</a> <a href="#">xs:whiteSpace</a> <a href="#">xs:pattern</a>
used by	group <a href="#">simpleRestrictionModel</a>

annotation	<p>documentation</p> <p>We should use a substitution group for facets, but that's ruled out because it would allow users to add their own, which we're not ready for yet.</p>
source	<pre>&lt;xs:group name="facets"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       We should use a substitution group for facets, but       that's ruled out because it would allow users to       add their own, which we're not ready for yet.     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:choice&gt;     &lt;xs:element ref="xs:minExclusive"/&gt;     &lt;xs:element ref="xs:minInclusive"/&gt;     &lt;xs:element ref="xs:maxExclusive"/&gt;     &lt;xs:element ref="xs:maxInclusive"/&gt;     &lt;xs:element ref="xs:totalDigits"/&gt;     &lt;xs:element ref="xs:fractionDigits"/&gt;     &lt;xs:element ref="xs:length"/&gt;     &lt;xs:element ref="xs:minLength"/&gt;     &lt;xs:element ref="xs:maxLength"/&gt;     &lt;xs:element ref="xs:enumeration"/&gt;     &lt;xs:element ref="xs:whiteSpace"/&gt;     &lt;xs:element ref="xs:pattern"/&gt;   &lt;/xs:choice&gt; &lt;/xs:group&gt;</pre>

group <b>identityConstraint</b>	
diagram	<pre> classDiagram     class identityConstraint {         &lt;&lt;The three kinds of identity constraints, all with type of or derived from 'keybase'.&gt;&gt;     }     class xs_unique {         &lt;&lt;xs:unique&gt;&gt;     }     class xs_key {         &lt;&lt;xs:key&gt;&gt;     }     class xs_keyref {         &lt;&lt;xs:keyref&gt;&gt;     }      identityConstraint &lt; -- xs_unique     identityConstraint &lt; -- xs_key     identityConstraint &lt; -- xs_keyref   </pre>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>
used by	complexTypes <a href="#">element</a> <a href="#">localElement</a> <a href="#">narrowMaxMin</a> <a href="#">topLevelElement</a>
annotation	<p>documentation</p> <p>The three kinds of identity constraints, all with type of or derived from 'keybase'.</p>
source	<pre>&lt;xs:group name="identityConstraint"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The three kinds of identity constraints, all with       type of or derived from 'keybase'.     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:group&gt;</pre>

	<pre> &lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;xs:choice&gt;   &lt;xs:element ref="xs:unique"/&gt;   &lt;xs:element ref="xs:key"/&gt;   &lt;xs:element ref="xs:keyref"/&gt; &lt;/xs:choice&gt; &lt;/xs:group&gt; </pre>
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	group <b>nestedParticle</b>
diagram	<pre> classDiagram     class nestedParticle {         &lt;&lt;xs:group name="nestedParticle"&gt;&gt;         &lt;&lt;xs:choice&gt;&gt;         &lt;&lt;xs:element name="element" type="xs:localElement"&gt;&gt;         &lt;&lt;xs:element name="group" type="xs:groupRef"&gt;&gt;         &lt;&lt;xs:element ref="xs:choice"/&gt;&gt;         &lt;&lt;xs:element ref="xs:sequence"/&gt;&gt;         &lt;&lt;xs:element ref="xs:any"/&gt;&gt;     } </pre>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>
used by	complexTypes <a href="#">explicitGroup</a> <a href="#">simpleExplicitGroup</a>
source	<pre> &lt;xs:group name="nestedParticle"&gt;   &lt;xs:choice&gt;     &lt;xs:element name="element" type="xs:localElement"/&gt;     &lt;xs:element name="group" type="xs:groupRef"/&gt;     &lt;xs:element ref="xs:choice"/&gt;     &lt;xs:element ref="xs:sequence"/&gt;     &lt;xs:element ref="xs:any"/&gt;   &lt;/xs:choice&gt; &lt;/xs:group&gt; </pre>

element **nestedParticle**/element

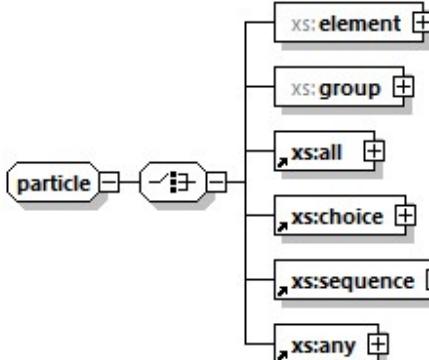
diagram	<p>The diagram illustrates the structure of the <code>xs:localElement</code> element. It is a class with the following attributes:</p> <ul style="list-style-type: none"> <li><code>id</code></li> <li><code>name</code></li> <li><code>ref</code></li> <li><code>type</code></li> <li><code>minOccurs</code></li> <li><code>maxOccurs</code></li> <li><code>default</code></li> <li><code>fixed</code></li> <li><code>nillable</code></li> <li><code>block</code></li> <li><code>form</code></li> <li><code>any ##other</code></li> </ul> <p>Relationships from <code>xs:localElement</code> include:</p> <ul style="list-style-type: none"> <li>A directed association to <code>xs:annotation</code>.</li> <li>A directed association to a junction node, which further connects to <code>xs:simpleType</code> and <code>xs:complexType</code>.</li> <li>A directed association to a junction node, which further connects to <code>xs:unique</code>, <code>xs:key</code>, and <code>xs:keyref</code>.</li> <li>A directed association to <code>xs:identityConstraint</code>.</li> </ul> <p>A note at the bottom right states: "The three kinds of identity constraints, all with type of or derived from 'keybase'.".</p>												
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:localElement</a>												
properties	content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>												
used by	group <a href="#">schemaTop</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												

	<p><u>name</u> xs:NCName  <u>ref</u> xs:QName  <u>type</u> xs:QName  <u>minOccurs</u> xs:nonNegativeInteger optional 1  <u>maxOccurs</u> xs:allINNI optional 1  <u>default</u> xs:string  <u>fixed</u> xs:string  <u>nillable</u> xs:boolean optional false  <u>block</u> xs:blockSet  <u>form</u> xs:formChoice</p>
source	<xs:element name="element" type="xs:localElement"/>

element **nestedParticle/group**

diagram																															
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																														
type	<a href="#">xs:groupRef</a>																														
properties	content complex																														
children	<a href="#">xs:annotation</a>																														
used by	group <a href="#">redefinable</a>																														
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><u>id</u></td> <td>xs:ID</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><u>minOccurs</u></td> <td>xs:nonNegativeInteger</td> <td>optional</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td><u>maxOccurs</u></td> <td>xs:allINNI</td> <td>optional</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td><u>ref</u></td> <td>xs:QName</td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<u>id</u>	xs:ID					<u>minOccurs</u>	xs:nonNegativeInteger	optional	1			<u>maxOccurs</u>	xs:allINNI	optional	1			<u>ref</u>	xs:QName	required			
Name	Type	Use	Default	Fixed	Annotation																										
<u>id</u>	xs:ID																														
<u>minOccurs</u>	xs:nonNegativeInteger	optional	1																												
<u>maxOccurs</u>	xs:allINNI	optional	1																												
<u>ref</u>	xs:QName	required																													
source	<xs:element name="group" type="xs:groupRef"/>																														

**group particle**

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>
used by	complexType <a href="#">group</a>
source	<pre>&lt;xs:group name="particle"&gt;   &lt;xs:choice&gt;     &lt;xs:element name="element" type="xs:localElement"/&gt;     &lt;xs:element name="group" type="xs:groupRef"/&gt;     &lt;xs:element ref="xs:all"/&gt;     &lt;xs:element ref="xs:choice"/&gt;     &lt;xs:element ref="xs:sequence"/&gt;     &lt;xs:element ref="xs:any"/&gt;   &lt;/xs:choice&gt; &lt;/xs:group&gt;</pre>

element **particle/element**

diagram	<p>The diagram illustrates the structure of the <code>xs:localElement</code> element. It is a local element with attributes: <code>id</code>, <code>name</code>, <code>ref</code>, <code>type</code>, <code>minOccurs</code>, <code>maxOccurs</code>, <code>default</code>, <code>fixed</code>, <code>nillable</code>, <code>block</code>, and <code>form</code>. It also contains an <code>any ##other</code> element. Below the attributes, there is a connector leading to a dashed box containing <code>xs:annotation</code>, <code>xs:simpleType</code>, and <code>xs:complexType</code>. Another connector leads to a dashed box containing <code>xs:identityConstraint</code> (with multiplicity 0..∞) which further connects to <code>xs:unique</code>, <code>xs:key</code>, and <code>xs:keyref</code>. A note below states: "The three kinds of identity constraints, all with type of or derived from 'keybase'."</p>												
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#"><code>xs:localElement</code></a>												
properties	content complex												
children	<a href="#"><code>xs:annotation</code></a> <a href="#"><code>xs:simpleType</code></a> <a href="#"><code>xs:complexType</code></a> <a href="#"><code>xs:unique</code></a> <a href="#"><code>xs:key</code></a> <a href="#"><code>xs:keyref</code></a>												
used by	group <a href="#"><code>schemaTop</code></a>												
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><a href="#"><code>id</code></a></td> <td><a href="#"><code>xs:ID</code></a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#"><code>id</code></a>	<a href="#"><code>xs:ID</code></a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#"><code>id</code></a>	<a href="#"><code>xs:ID</code></a>												

	<u><a href="#">name</a></u> xs:NCName <u><a href="#">ref</a></u> xs:QName <u><a href="#">type</a></u> xs:QName <u><a href="#">minOccurs</a></u> xs:nonNegativeInteger      optional      1 <u><a href="#">maxOccurs</a></u> xs:allINNI      optional      1 <u><a href="#">default</a></u> xs:string <u><a href="#">fixed</a></u> xs:string <u><a href="#">nillable</a></u> xs:boolean      optional      false <u><a href="#">block</a></u> xs:blockSet <u><a href="#">form</a></u> xs:formChoice
source	<xs:element name="element" type="xs:localElement"/>

element <b>particle/group</b>						
diagram	<pre> classDiagram     class xs_groupRef {         id         minOccurs         maxOccurs         ref         any ##other     }     xs_group &lt; -- xs_groupRef     xs_groupRef "1" -- "*" xs_annotation   </pre>					
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>					
type	<a href="#">xs:groupRef</a>					
properties	content complex					
children	<a href="#">xs:annotation</a>					
used by	group <a href="#">redefinable</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<u><a href="#">id</a></u>	<a href="#">xs:ID</a>				
	<u><a href="#">minOccurs</a></u>	<a href="#">xs:nonNegativeInteger</a>	optional	1		
	<u><a href="#">maxOccurs</a></u>	<a href="#">xs:allINNI</a>	optional	1		
	<u><a href="#">ref</a></u>	<a href="#">xs:QName</a>	required			
source	<xs:element name="group" type="xs:groupRef"/>					

### group redefinable

diagram	<p>This group is for the elements which can self-redefine (see &lt;redefine&gt; below).</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:group</a> <a href="#">xs:attributeGroup</a>
used by	element <a href="#">redefine</a> group <a href="#">schemaTop</a>
annotation	<p>documentation</p> <p>This group is for the elements which can self-redefine (see &lt;redefine&gt; below).</p>
source	<pre>&lt;xs:group name="redefinable"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       This group is for the       elements which can self-redefine (see &lt;redefine&gt; below).&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:choice&gt;       &lt;xs:element ref="xs:simpleType"/&gt;       &lt;xs:element ref="xs:complexType"/&gt;       &lt;xs:element ref="xs:group"/&gt;       &lt;xs:element ref="xs:attributeGroup"/&gt;     &lt;/xs:choice&gt;   &lt;/xs:group&gt;</pre>

### group schemaTop

diagram	<p>This group is for the elements which occur freely at the top level of schemas. All of their types are based on the "annotated" type by extension.</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>

children	<a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:group</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:element</a> <a href="#">xs:attribute</a> <a href="#">xs:notation</a>
used by	element <a href="#">schema</a>
annotation	<p>documentation</p> <p>This group is for the elements which occur freely at the top level of schemas. All of their types are based on the "annotated" type by extension.</p>
source	<pre>&lt;xs:group name="schemaTop"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       This group is for the       elements which occur freely at the top level of schemas.       All of their types are based on the "annotated" type by       extension.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:choice&gt;       &lt;xs:group ref="xs:redefinable"/&gt;       &lt;xs:element ref="xs:element"/&gt;       &lt;xs:element ref="xs:attribute"/&gt;       &lt;xs:element ref="xs:notation"/&gt;     &lt;/xs:choice&gt;   &lt;/xs:group&gt;</pre>

### group simpleDerivation

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>
used by	complexTypes <a href="#">localSimpleType</a> <a href="#">simpleType</a> <a href="#">topLevelSimpleType</a>
source	<pre>&lt;xs:group name="simpleDerivation"&gt;   &lt;xs:choice&gt;     &lt;xs:element ref="xs:restriction"/&gt;     &lt;xs:element ref="xs:list"/&gt;     &lt;xs:element ref="xs:union"/&gt;   &lt;/xs:choice&gt; &lt;/xs:group&gt;</pre>

### group simpleRestrictionModel

diagram	<p>We should use a substitution group for facets, but that's ruled out because it would allow users to add their own, which we're not ready for yet.</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:simpleType</a> <a href="#">xs:minExclusive</a> <a href="#">xs:minInclusive</a> <a href="#">xs:maxExclusive</a> <a href="#">xs:maxInclusive</a> <a href="#">xs:totalDigits</a> <a href="#">xs:fractionDigits</a> <a href="#">xs:length</a> <a href="#">xs:minLength</a> <a href="#">xs:maxLength</a> <a href="#">xs:enumeration</a> <a href="#">xs:whiteSpace</a> <a href="#">xs:pattern</a>
used by	element <a href="#">restriction</a> complexTypes <a href="#">restrictionType</a> <a href="#">simpleRestrictionType</a>
source	<pre>&lt;xs:group name="simpleRestrictionModel"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/&gt;     &lt;xs:group ref="xs:facets" minOccurs="0" maxOccurs="unbounded"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:group&gt;</pre>

### element simpleRestrictionModel/simpleType

diagram	<pre> classDiagram     class xs:localSimpleType {         attribute id         attribute any ##other         association xs:simpleType         association xs:annotation         association xs:simpleDerivation         association xs:restriction         association xs:list         association xs:union     }   </pre>												
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:localSimpleType</a>												
properties	minOcc 0 maxOcc 1 content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>												
used by	group <a href="#">redefinable</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												
source	<code>&lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/&gt;</code>												

### group typeDefParticle

diagram	<pre> classDiagram     class typeDefParticle {         association xs:group         association xs:all         association xs:choice         association xs:sequence     }   </pre> <p>'complexType' uses this</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
children	<a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a>
used by	complexTypes <a href="#">complexContentType</a> <a href="#">extensionType</a> <a href="#">restrictionType</a> group <a href="#">complexTypeModel</a>
annotation	documentation  'complexType' uses this
source	<code>&lt;xs:group name="typeDefParticle"&gt;</code>

```

<xs:annotation>
  <xs:documentation>
    'complexType' uses this</xs:documentation>
  </xs:annotation>
  <xs:choice>
    <xs:element name="group" type="xs:groupRef"/>
    <xs:element ref="xs:all"/>
    <xs:element ref="xs:choice"/>
    <xs:element ref="xs:sequence"/>
  </xs:choice>
</xs:group>

```

### element **typeDefParticle/group**

diagram	<pre> classDiagram     class xs:groupRef {         id         minOccurs         maxOccurs         ref         any ##other     }     class xs:group     class xs:annotation     xs:group --&gt; xs:groupRef :      xs:annotation --&gt; xs:groupRef :    </pre>																														
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																														
type	<a href="#">xs:groupRef</a>																														
properties	content complex																														
children	<a href="#">xs:annotation</a>																														
used by	group <a href="#">redefinable</a>																														
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">minOccurs</a></td> <td><a href="#">xs:nonNegativeInteger</a></td> <td>optional</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td><a href="#">maxOccurs</a></td> <td><a href="#">xs:allNNI</a></td> <td>optional</td> <td>1</td> <td></td> <td></td> </tr> <tr> <td><a href="#">ref</a></td> <td><a href="#">xs:QName</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">minOccurs</a>	<a href="#">xs:nonNegativeInteger</a>	optional	1			<a href="#">maxOccurs</a>	<a href="#">xs:allNNI</a>	optional	1			<a href="#">ref</a>	<a href="#">xs:QName</a>				
Name	Type	Use	Default	Fixed	Annotation																										
<a href="#">id</a>	<a href="#">xs:ID</a>																														
<a href="#">minOccurs</a>	<a href="#">xs:nonNegativeInteger</a>	optional	1																												
<a href="#">maxOccurs</a>	<a href="#">xs:allNNI</a>	optional	1																												
<a href="#">ref</a>	<a href="#">xs:QName</a>																														
source	<a href="#"><code>&lt;xs:element name="group" type="xs:groupRef"/&gt;</code></a>																														

complexType **all**

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:explicitGroup</a>																								
properties	base xs:explicitGroup																								
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a>																								
used by	elements <a href="#">all namedGroup/all</a>																								
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><a href="#">id</a></td><td><a href="#">xs:ID</a></td><td></td><td></td><td></td><td></td></tr> <tr> <td><a href="#">minOccurs</a></td><td><b>derived by:</b> <a href="#">xs:nonNegativeInteger</a></td><td>optional</td><td>1</td><td></td><td></td></tr> <tr> <td><a href="#">maxOccurs</a></td><td><b>derived by:</b> <a href="#">xs:allNNI</a></td><td>optional</td><td>1</td><td></td><td></td></tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">minOccurs</a>	<b>derived by:</b> <a href="#">xs:nonNegativeInteger</a>	optional	1			<a href="#">maxOccurs</a>	<b>derived by:</b> <a href="#">xs:allNNI</a>	optional	1		
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">minOccurs</a>	<b>derived by:</b> <a href="#">xs:nonNegativeInteger</a>	optional	1																						
<a href="#">maxOccurs</a>	<b>derived by:</b> <a href="#">xs:allNNI</a>	optional	1																						
annotation	<p>documentation</p> <p>Only elements allowed inside</p>																								
source	<pre> &lt;xs:complexType name="all"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       Only elements allowed inside&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:complexContent&gt;       &lt;xs:restriction base="xs:explicitGroup"&gt;         &lt;xs:group ref="xs:allModel"/&gt;         &lt;xs:attribute name="minOccurs" use="optional" default="1"&gt;           &lt;xs:simpleType&gt;             &lt;xs:restriction base="xs:nonNegativeInteger"&gt;               &lt;xs:enumeration value="0"/&gt;               &lt;xs:enumeration value="1"/&gt;             &lt;/xs:restriction&gt;           &lt;/xs:simpleType&gt;         &lt;/xs:attribute&gt;       &lt;/xs:restriction&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; </pre>																								

```

        </xs:simpleType>
    </xs:attribute>
    <xs:attribute name="maxOccurs" use="optional" default="1">
        <xs:simpleType>
            <xs:restriction base="xs:allNNI">
                <xs:enumeration value="1"/>
            </xs:restriction>
        </xs:simpleType>
    </xs:attribute>
    <xs:anyAttribute namespace="##other" processContents="lax"/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

```

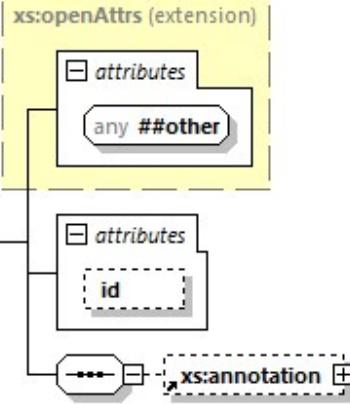
#### attribute **all/@minOccurs**

type	restriction of <a href="#">xs:nonNegativeInteger</a>
properties	use optional default 1
facets	Kind Value Annotation enumeration 0 enumeration 1
source	<xs:attribute name="minOccurs" use="optional" default="1">         <xs:simpleType>             <xs:restriction base="xs:nonNegativeInteger">                 <xs:enumeration value="0"/>                 <xs:enumeration value="1"/>             </xs:restriction>         </xs:simpleType>     </xs:attribute>

#### attribute **all/@maxOccurs**

type	restriction of <a href="#">xs:allNNI</a>
properties	use optional default 1
facets	Kind Value Annotation enumeration 1
source	<xs:attribute name="maxOccurs" use="optional" default="1">         <xs:simpleType>             <xs:restriction base="xs:allNNI">                 <xs:enumeration value="1"/>             </xs:restriction>         </xs:simpleType>     </xs:attribute>

**complexType annotated**

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	extension of <a href="#">xs:openAttrs</a>
properties	base xs:openAttrs
children	<a href="#">xs:annotation</a>
used by	elements <a href="#">complexContent</a> <a href="#">field</a> <a href="#">import</a> <a href="#">include</a> <a href="#">list</a> <a href="#">notation</a> <a href="#">restriction</a> <a href="#">selector</a> <a href="#">simpleContent</a> <a href="#">union</a> complexTypes <a href="#">attribute</a> <a href="#">attributeGroup</a> <a href="#">complexType</a> <a href="#">element</a> <a href="#">extensionType</a> <a href="#">facet</a> <a href="#">group</a> <a href="#">keybase</a> <a href="#">restrictionType</a> <a href="#">simpleType</a> <a href="#">wildcard</a>
attributes	Name <u><a href="#">id</a></u> Type <u><a href="#">xs:ID</a></u> Use Fixed Annotation
annotation	documentation  This type is extended by all types which allow annotation other than &lt;schema&gt; itself
source	<pre>&lt;xs:complexType name="annotated"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       This type is extended by all types which allow annotation       other than &amp;lt;schema&amp;gt; itself     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:openAttrs"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="id" type="xs:ID"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>

**attribute annotated/@id**

type	<a href="#">xs:ID</a>
------	-----------------------

source	<code>&lt;xs:attribute name="id" type="xs:ID"/&gt;</code>
--------	---

### complexType **anyType**

diagram	<p>Not the real urType, but as close an approximation as we can get in the XML representation</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
properties	mixed true
attributes	Name Type Use Default Fixed Annotation
annotation	documentation  Not the real urType, but as close an approximation as we can get in the XML representation
source	<pre>&lt;xs:complexType name="anyType" mixed="true"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       Not the real urType, but as close an approximation as we can       get in the XML representation&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:sequence&gt;       &lt;xs:any processContents="lax" minOccurs="0" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:anyAttribute processContents="lax"/&gt;   &lt;/xs:complexType&gt;</pre>

complexType **attribute**

diagram	<pre> classDiagram     attribute --&gt; xsAnnotated     xsAnnotated {         &lt;&lt;xs:annotated (extension)&gt;&gt;         attributes         any ##other         id         xsAnnotation         xsSimpleType     }     xsSimpleType {         type         use         default         fixed         form     }     note over xsSimpleType: for element, group and attributeGroup, which both define and reference   </pre>																																										
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																										
type	extension of <a href="#">xs:annotated</a>																																										
properties	base xs:annotated																																										
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a>																																										
used by	element <a href="#">attrDecls/attribute</a> complexType <a href="#">topLevelAttribute</a>																																										
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<a href="#">default</a>	<a href="#">xs:string</a>																																										

	<p><u>fixed</u>      <b>xs:string</b></p> <p><u>form</u>      <b>xs:formChoice</b></p>
source	<pre>&lt;xs:complexType name="attribute"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:sequence&gt;         &lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attributeGroup ref="xs:defRef"/&gt;       &lt;xs:attribute name="type" type="xs:QName"/&gt;       &lt;xs:attribute name="use" use="optional" default="optional"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:NMTOKEN"&gt;             &lt;xs:enumeration value="prohibited"/&gt;             &lt;xs:enumeration value="optional"/&gt;             &lt;xs:enumeration value="required"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:attribute&gt;       &lt;xs:attribute name="default" type="xs:string"/&gt;       &lt;xs:attribute name="fixed" type="xs:string"/&gt;       &lt;xs:attribute name="form" type="xs:formChoice"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>

attribute **attribute/@type**

type	<b>xs:QName</b>
source	<code>&lt;xs:attribute name="type" type="xs:QName"/&gt;</code>

attribute **attribute/@use**

type	restriction of <b>xs:NMTOKEN</b>
properties	use optional default optional
facets	Kind Value Annotation enumeration prohibited enumeration optional enumeration required
source	<pre>&lt;xs:attribute name="use" use="optional" default="optional"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:NMTOKEN"&gt;       &lt;xs:enumeration value="prohibited"/&gt;       &lt;xs:enumeration value="optional"/&gt;       &lt;xs:enumeration value="required"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>

**attribute attribute/@default**

type	<b>xs:string</b>
source	< <b>xs:attribute name="default" type="xs:string"/&gt;</b> >

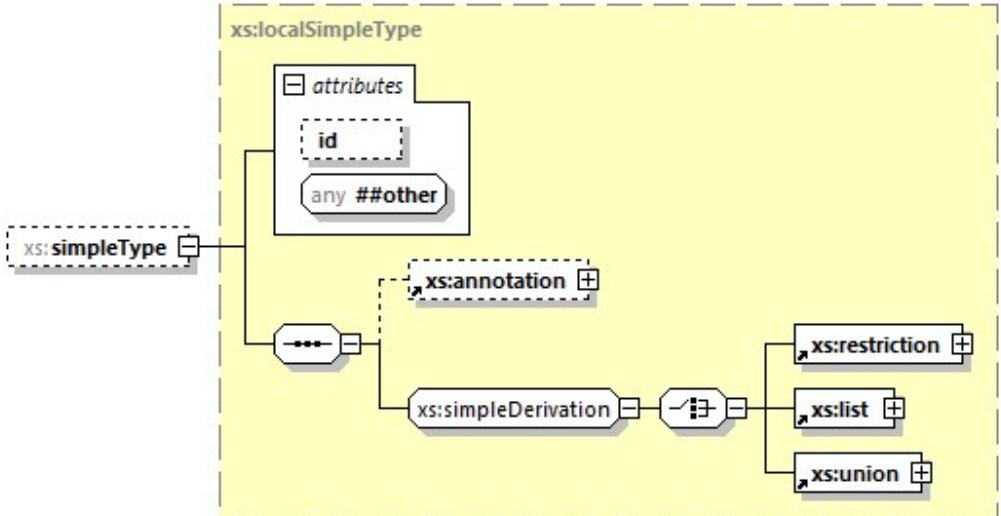
**attribute attribute/@fixed**

type	<b>xs:string</b>
source	< <b>xs:attribute name="fixed" type="xs:string"/&gt;</b> >

**attribute attribute/@form**

type	<b>xs:formChoice</b>
facets	Kind Value Annotation enumeration qualified enumeration unqualified
source	< <b>xs:attribute name="form" type="xs:formChoice"/&gt;</b> >

**element attribute/simpleType**

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<b>xs:localSimpleType</b>
properties	minOcc 0 maxOcc 1 content complex
children	<b>xs:annotation xs:restriction xs:list xs:union</b>
used by	group <a href="#">redefinable</a>

attributes	Name <u><a href="#">id</a></u>	Type <u><a href="#">xs:ID</a></u>	Use	Default	Fixed	Annotation
source	<u><a href="#">`&lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/&gt;`</a></u>					

### complexType attributeGroup

diagram	<pre> classDiagram     class attributeGroup {         &lt;&lt;xs:attributeGroup (extension)&gt;&gt;         &lt;&lt;for element, group and attributeGroup, which both define and reference&gt;&gt;         id         name         ref         xs:annotation         xs:attrDecls         xs:anyAttribute         xs:attribute         xs:attributeGroup     }     attributeGroup &lt; -- annotated     attributeGroup &lt; -- attrDecls     attributeGroup &lt; -- anyAttribute     attributeGroup &lt; -- attribute     attributeGroup &lt; -- attributeGroup   </pre>																								
namespace	<u><a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a></u>																								
type	extension of <u><a href="#">xs:annotated</a></u>																								
properties	base <u><a href="#">xs:annotated</a></u> abstract true																								
children	<u><a href="#">xs:annotation</a></u> <u><a href="#">xs:attribute</a></u> <u><a href="#">xs:attributeGroup</a></u> <u><a href="#">xs:anyAttribute</a></u>																								
used by	complexTypes <u><a href="#">attributeGroupRef</a></u> <u><a href="#">namedAttributeGroup</a></u>																								
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<u><a href="#">ref</a></u>	<u><a href="#">xs:QName</a></u>																								
source	<u><a href="#">`&lt;xs:complexType name="attributeGroup" abstract="true"&gt;</a></u> <u><a href="#">`&lt;xs:complexContent&gt;</a></u> <u><a href="#">`&lt;xs:extension base="xs:annotated"&gt;</a></u>																								

	<pre> &lt;xs:group ref="xs:attrDecls"/&gt; &lt;xs:attributeGroup ref="xs:defRef"/&gt; &lt;/xs:extension&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
--	---

### complexType attributeGroupRef

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:attributeGroup</a>																								
properties	base xs:attributeGroup																								
children	<a href="#">xs:annotation</a>																								
used by	element <a href="#">attrDecls/attributeGroup</a>																								
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Name	Type	Use	Default	Fixed	Annotation																				
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<a href="#">name</a>		prohibited																							
<a href="#">ref</a>	<a href="#">xs:QName</a>	required																							
source	<pre> &lt;xs:complexType name="attributeGroupRef"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:attributeGroup"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="ref" type="xs:QName" use="required"/&gt;       &lt;xs:attribute name="name" use="prohibited"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>																								

### attribute attributeGroupRef/@name

properties	use prohibited
------------	----------------

source	<code>&lt;xs:attribute name="name" use="prohibited"/&gt;</code>
--------	---

attribute **attributeGroupRef/@ref**

type	<code>xs:QName</code>
properties	use required
source	<code>&lt;xs:attribute name="ref" type="xs:QName" use="required"/&gt;</code>

complexType **complexRestrictionType**

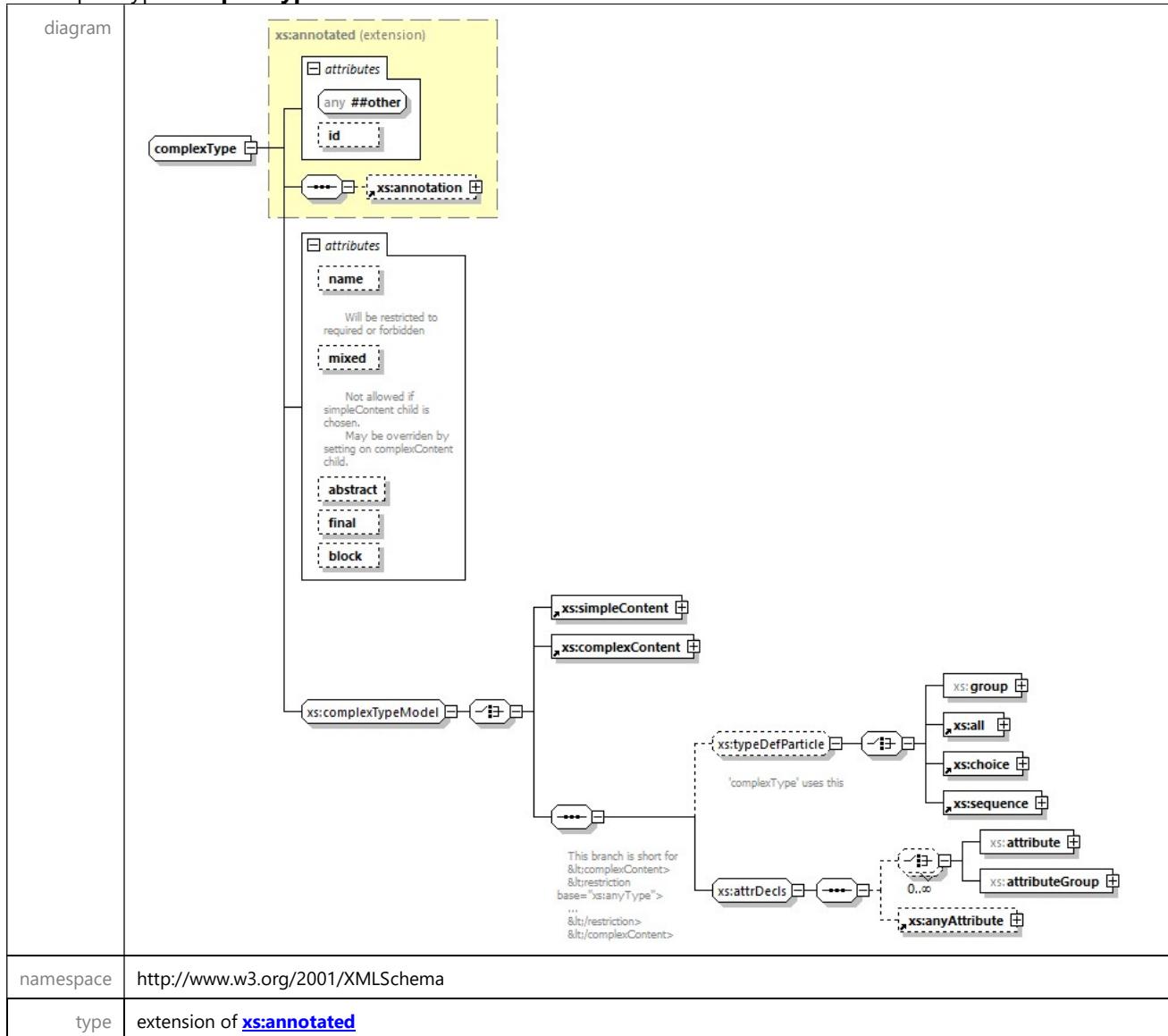
diagram																			
namespace	<code>http://www.w3.org/2001/XMLSchema</code>																		
type	restriction of <a href="#">xs:restrictionType</a>																		
properties	base <code>xs:restrictionType</code>																		
children	<a href="#">xs:annotation</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	element <a href="#">complexContent/restriction</a>																		
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><code>id</code></td> <td><code>xs:ID</code></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><code>base</code></td> <td><code>xs:QName</code></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<code>id</code>	<code>xs:ID</code>					<code>base</code>	<code>xs:QName</code>	required			
Name	Type	Use	Default	Fixed	Annotation														
<code>id</code>	<code>xs:ID</code>																		
<code>base</code>	<code>xs:QName</code>	required																	
source	<pre>&lt;xs:complexType name="complexRestrictionType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:restrictionType"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:choice minOccurs="0"&gt;</pre>																		

```

<xs:annotation>
  <xs:documentation>This choice is added simply to
    make this a valid restriction per the REC</xs:documentation>
</xs:annotation>
<xs:group ref="xs:typeDefParticle"/>
</xs:choice>
<xs:group ref="xs:attrDecls"/>
</xs:sequence>
<xs:anyAttribute namespace="##other" processContents="lax"/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

```

### complexType complexType



properties	base    xs:annotated abstract    true																																										
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																																										
used by	complexTypes <a href="#">localComplexType</a> <a href="#">topLevelComplexType</a>																																										
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<a href="#">final</a>	<a href="#">xs:derivationSet</a>																																										
<a href="#">block</a>	<a href="#">xs:derivationSet</a>																																										
source	<pre>&lt;xs:complexType name="complexType" abstract="true"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:group ref="xs:complexTypeModel"/&gt;       &lt;xs:attribute name="name" type="xs:NCName"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;             Will be restricted to required or forbidden           &lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;       &lt;xs:attribute name="mixed" type="xs:boolean" use="optional" default="false"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;             Not allowed if simpleContent child is chosen.             May be overriden by setting on complexContent child.           &lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;       &lt;xs:attribute name="abstract" type="xs:boolean" use="optional" default="false"/&gt;       &lt;xs:attribute name="final" type="xs:derivationSet"/&gt;       &lt;xs:attribute name="block" type="xs:derivationSet"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>																																										

**attribute complexType/@name**

type	<b>xs:NCName</b>
annotation	documentation  Will be restricted to required or forbidden
source	<pre>&lt;xs:attribute name="name" type="xs:NCName"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       Will be restricted to required or forbidden&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:attribute&gt;</pre>

**attribute complexType/@mixed**

type	<b>xs:boolean</b>
properties	use optional default false
annotation	documentation  Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.
source	<pre>&lt;xs:attribute name="mixed" type="xs:boolean" use="optional" default="false"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       Not allowed if simpleContent child is chosen.       May be overridden by setting on complexContent child.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:attribute&gt;</pre>

**attribute complexType/@abstract**

type	<b>xs:boolean</b>
properties	use optional default false
source	<pre>&lt;xs:attribute name="abstract" type="xs:boolean" use="optional" default="false"/&gt;</pre>

**attribute complexType/@final**

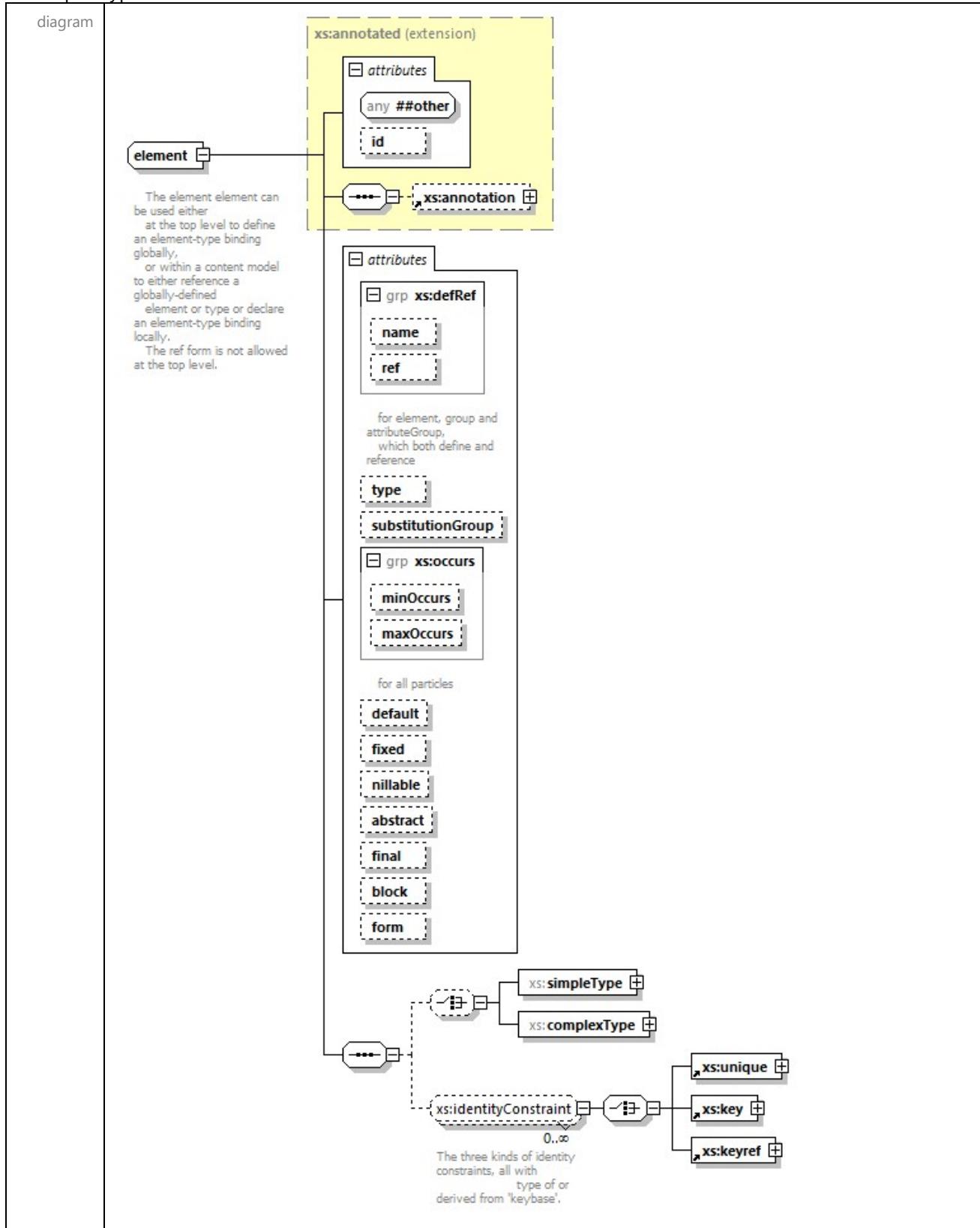
type	<b>xs:derivationSet</b>
source	<pre>&lt;xs:attribute name="final" type="xs:derivationSet"/&gt;</pre>

**attribute complexType/@block**

type	<b>xs:derivationSet</b>
source	<pre>&lt;xs:attribute name="block" type="xs:derivationSet"/&gt;</pre>



## complexType element



namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																																																																															
type	extension of <a href="#">xs:annotated</a>																																																																																															
properties	base xs:annotated abstract true																																																																																															
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>																																																																																															
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source	<pre>&lt;xs:complexType name="element" abstract="true"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       The element element can be used either       at the top level to define an element-type binding globally,       or within a content model to either reference a globally-defined       element or type or declare an element-type binding locally.       The ref form is not allowed at the top level.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:sequence&gt;           &lt;xs:choice minOccurs="0"&gt;             &lt;xs:element name="simpleType" type="xs:localSimpleType"/&gt;             &lt;xs:element name="complexType" type="xs:localComplexType"/&gt;           &lt;/xs:choice&gt;           &lt;xs:group ref="xs:identityConstraint" minOccurs="0" maxOccurs="unbounded"/&gt;         &lt;/xs:sequence&gt;         &lt;xs:attributeGroup ref="xs:defRef"/&gt;         &lt;xs:attribute name="type" type="xs:QName"/&gt;         &lt;xs:attribute name="substitutionGroup" type="xs:QName"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt;</pre>																																																																																															

```

<xs:attributeGroup ref="xs:occurs"/>
<xs:attribute name="default" type="xs:string"/>
<xs:attribute name="fixed" type="xs:string"/>
<xs:attribute name="nillable" type="xs:boolean" use="optional"
default="false"/>
<xs:attribute name="abstract" type="xs:boolean" use="optional"
default="false"/>
<xs:attribute name="final" type="xs:derivationSet"/>
<xs:attribute name="block" type="xs:blockSet"/>
<xs:attribute name="form" type="xs:formChoice"/>
</xs:extension>
</xs:complexContent>
</xs:complexType>

```

#### attribute **element/@type**

type	<b>xs:QName</b>
source	<xs:attribute name="type" type="xs:QName"/>

#### attribute **element/@substitutionGroup**

type	<b>xs:QName</b>
source	<xs:attribute name="substitutionGroup" type="xs:QName"/>

#### attribute **element/@default**

type	<b>xs:string</b>
source	<xs:attribute name="default" type="xs:string"/>

#### attribute **element/@fixed**

type	<b>xs:string</b>
source	<xs:attribute name="fixed" type="xs:string"/>

#### attribute **element/@nillable**

type	<b>xs:boolean</b>
properties	use optional default false
source	<xs:attribute name="nillable" type="xs:boolean" use="optional" default="false"/>

#### attribute **element/@abstract**

type	<b>xs:boolean</b>
------	-------------------

properties	use optional default false
source	<xs:attribute name="abstract" type="xs:boolean" use="optional" default="false"/>

attribute **element/@final**

type	<a href="#">xs:derivationSet</a>
source	<xs:attribute name="final" type="xs:derivationSet"/>

attribute **element/@block**

type	<a href="#">xs:blockSet</a>
source	<xs:attribute name="block" type="xs:blockSet"/>

attribute **element/@form**

type	<a href="#">xs:formChoice</a>
facets	Kind Value Annotation enumeration qualified enumeration unqualified
source	<xs:attribute name="form" type="xs:formChoice"/>

element **element/simpleType**

diagram	<pre> classDiagram     class xs:localSimpleType {         attributes         id         any ##other     }     class xs:simpleType     class xs:annotation     class xs:simpleDerivation     class xs:restriction     class xs:list     class xs:union      xs:localSimpleType "1" -- "1" xs:simpleType     xs:simpleType "1" -- "1" xs:annotation     xs:simpleType "1" -- "1" xs:simpleDerivation     xs:simpleType "1" -- "1" xs:restriction     xs:annotation "1" -- "1" any ##other     xs:simpleDerivation "1" -- "1" xs:list     xs:simpleDerivation "1" -- "1" xs:union     xs:restriction "1" -- "1" xs:list     xs:restriction "1" -- "1" xs:union   </pre>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<a href="#">xs:localSimpleType</a>
properties	content complex

children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>				
used by	group <a href="#">redefinable</a>				
attributes	Name <a href="#">id</a> Type <a href="#">xs:ID</a>	Use	Default	Fixed	Annotation
source	<code>&lt;xs:element name="simpleType" type="xs:localSimpleType"/&gt;</code>				

### element element/complexType

diagram	<p>The diagram illustrates the structure of the xs:localComplexType element. It inherits from xs:complexType. It can have an xs:annotation child. It can contain xs:simpleContent or xs:complexContent children. It can also contain xs:complexTypeModel, xs:typeDefParticle, xs:attrDecls, and xs:anyAttribute children. The xs:complexTypeModel, xs:typeDefParticle, and xs:attrDecls children are grouped under xs:complexTypeModel. The xs:complexTypeModel group is associated with xs:group, xs:all, xs:choice, and xs:sequence. The xs:complexTypeModel group is also associated with xs:attribute and xs:attributeGroup. The xs:complexTypeModel group is annotated with 'complexType' uses this. The xs:complexTypeModel group is annotated with 'This branch is short for &amp;lt;complexContent&gt; &amp;&amp;lt;restriction base="xs:anyType"&gt; ... &amp;lt;/restriction&gt; &amp;&amp;lt;/complexContent&gt;'.</p>						
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>						
type	<a href="#">xs:localComplexType</a>						
properties	content complex						
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>						
used by	group <a href="#">redefinable</a>						
attributes	<table> <tr> <td>Name <a href="#">id</a> <a href="#">mixed</a></td> <td>Type <a href="#">xs:ID</a> <a href="#">xs:boolean</a></td> <td>Use optional</td> <td>Default false</td> <td>Fixed</td> <td>Annotation documentation</td> </tr> </table> <p>Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent</p>	Name <a href="#">id</a> <a href="#">mixed</a>	Type <a href="#">xs:ID</a> <a href="#">xs:boolean</a>	Use optional	Default false	Fixed	Annotation documentation
Name <a href="#">id</a> <a href="#">mixed</a>	Type <a href="#">xs:ID</a> <a href="#">xs:boolean</a>	Use optional	Default false	Fixed	Annotation documentation		

		child.
source	<code>&lt;xs:element name="complexType" type="xs:localComplexType"/&gt;</code>	

### complexType explicitGroup

diagram	<pre> graph TD     explicitGroup[explicitGroup] --&gt; attributes[attributes]     attributes --&gt; any1[any ##other]     attributes --&gt; id[id]     attributes --&gt; name[name]     attributes --&gt; ref[ref]     attributes --&gt; minOccurs[minOccurs]     attributes --&gt; maxOccurs[maxOccurs]     attributes --&gt; any2[any ##other]     explicitGroup -.-&gt; annotation[xs:annotation]     annotation -.-&gt; nestedParticle[xs:nestedParticle]     nestedParticle -- "0..∞" --&gt; element[xs:element]     nestedParticle -- "0..∞" --&gt; group[xs:group]     nestedParticle -- "0..∞" --&gt; choice[xs:choice]     nestedParticle -- "0..∞" --&gt; sequence[xs:sequence]     nestedParticle -- "0..∞" --&gt; any[xs:any]   </pre>																																				
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																				
type	restriction of <a href="#">xs:group</a>																																				
properties	base xs:group																																				
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>																																				
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<a href="#">maxOccurs</a>	<a href="#">xs:allNNI</a>	optional	1																																		
annotation	documentation  group type for the three kinds of group																																				
source	<code>&lt;xs:complexType name="explicitGroup"&gt;</code>																																				

	<pre> &lt;xs:annotation&gt;   &lt;xs:documentation&gt;     group type for the three kinds of group&lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;xs:complexContent&gt;   &lt;xs:restriction base="xs:group"&gt;     &lt;xs:sequence&gt;       &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;       &lt;xs:group ref="xs:nestedParticle" minOccurs="0" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="name" type="xs:NCName" use="prohibited"/&gt;     &lt;xs:attribute name="ref" type="xs:QName" use="prohibited"/&gt;     &lt;xs:anyAttribute namespace="#other" processContents="lax"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>
--	--

attribute **explicitGroup/@name**

type	<b>xs:NCName</b>
properties	use prohibited
source	< <b>xs:attribute name="name" type="xs:NCName" use="prohibited"/&gt;</b> >

attribute **explicitGroup/@ref**

type	<b>xs:QName</b>
properties	use prohibited
source	< <b>xs:attribute name="ref" type="xs:QName" use="prohibited"/&gt;</b> >

complexType **extensionType**

diagram	<pre> classDiagram     class extensionType {         &lt;&lt;xs:annotated (extension)&gt;&gt;         attributes: any ##other, id         base         xs:typeDefParticle         xs:attrDecls     }     xs:typeDefParticle {         xs:group, xs:all, xs:choice, xs:sequence     }     xs:attrDecls {         0..infinity xs:attribute, xs:attributeGroup     }     xs:anyAttribute   </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	extension of <a href="#">xs:annotated</a>																		
properties	base    xs:annotated																		
children	<a href="#">xs:annotation</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	element <a href="#">complexContent/extension</a> complexType <a href="#">simpleExtensionType</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">base</a></td> <td><a href="#">xs:QName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">base</a>	<a href="#">xs:QName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">base</a>	<a href="#">xs:QName</a>	required																	
source	<pre> &lt;xs:complexType name="extensionType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:sequence&gt;         &lt;xs:group ref="xs:typeDefParticle" minOccurs="0"/&gt;         &lt;xs:group ref="xs:attrDecls"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="base" type="xs:QName" use="required"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; </pre>																		

	</xs:complexType>
--	-------------------

attribute **extensionType/@base**

type	<b>xs:QName</b>
properties	use required
source	<xs:attribute name="base" type="xs:QName" use="required"/>

complexType **facet**

diagram	<pre> graph LR     facet[facet] --- annotated[xs:annotated (extension)]     annotated --- any[any ##other]     annotated --- id[id]     annotated --- annotation[xs:annotation]     annotation --- value[value]     annotation --- fixed[fixed]   </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	extension of <a href="#">xs:annotated</a>																								
properties	base xs:annotated																								
children	<a href="#">xs:annotation</a>																								
used by	elements <a href="#">maxExclusive</a> <a href="#">maxInclusive</a> <a href="#">minExclusive</a> <a href="#">minInclusive</a> <a href="#">whiteSpace</a> complexTypes <a href="#">noFixedFacet</a> <a href="#">numFacet</a>																								
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Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">value</a>		required																							
<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false																						
source	<pre> &lt;xs:complexType name="facet"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:attribute name="value" use="required"/&gt;       &lt;xs:attribute name="fixed" type="xs:boolean" use="optional" default="false"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;   </pre>																								

**attribute facet/@value**

properties	use required
source	<code>&lt;xs:attribute name="value" use="required"/&gt;</code>

**attribute facet/@fixed**

type	<b>xs:boolean</b>
properties	use optional default false
source	<code>&lt;xs:attribute name="fixed" type="xs:boolean" use="optional" default="false"/&gt;</code>

complexType **group**

diagram	<p>The diagram illustrates the structure of the <code>xs:group</code> complex type. It starts with a <code>group</code> element, which is an extension of <code>xs:annotated</code>. This extension includes attributes for <code>any ##other</code> and <code>id</code>, and an <code>xs:annotation</code> block. The <code>xs:annotation</code> block contains <code>grp xs:defRef</code> attributes for <code>name</code> and <code>ref</code>, and <code>grp xs:occurs</code> attributes for <code>minOccurs</code> and <code>maxOccurs</code>. Below this, a <code>xs:particle</code> block is shown with multiplicity <code>0..∞</code>, connected to a generalization node. From this node, five paths lead to <code>xs:element</code>, <code>xs:group</code>, <code>xs:all</code>, <code>xs:choice</code>, and <code>xs:sequence</code>.</p>				
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>				
type	extension of <a href="#">xs:annotated</a>				
properties	<table border="0"> <tr> <td style="vertical-align: top;">base</td><td><code>xs:annotated</code></td></tr> <tr> <td style="vertical-align: top;">abstract</td><td><code>true</code></td></tr> </table>	base	<code>xs:annotated</code>	abstract	<code>true</code>
base	<code>xs:annotated</code>				
abstract	<code>true</code>				
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>				
used by	complexTypes <a href="#">explicitGroup</a> <a href="#">realGroup</a>				

	Name	Type	Use	Default	Fixed	Annotation
attributes	<a href="#">id</a> <a href="#">name</a> <a href="#">ref</a> <a href="#">minOccurs</a> <a href="#">maxOccurs</a>	<b>xs:ID</b> <b>xs:NCName</b> <b>xs:QName</b> <b>xs:nonNegativeInteger</b> <b>xs:allNNI</b>			1	
annotation	documentation		group type for explicit groups, named top-level groups and group references			
source			<pre>&lt;xs:complexType name="group" abstract="true"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       group type for explicit groups, named top-level groups and       group references&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:complexContent&gt;       &lt;xs:extension base="xs:annotated"&gt;         &lt;xs:group ref="xs:particle" minOccurs="0" maxOccurs="unbounded"/&gt;         &lt;xs:attributeGroup ref="xs:defRef"/&gt;         &lt;xs:attributeGroup ref="xs:occurs"/&gt;       &lt;/xs:extension&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt;</pre>			

complexType **groupRef**

diagram	
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of <a href="#">xs:realGroup</a>
properties	base <a href="#">xs:realGroup</a>
children	<a href="#">xs:annotation</a>
used by	elements <a href="#">typeDefParticle/group nestedParticle/group particle/group</a>

	Name	Type	Use	Default	Fixed	Annotation
attributes	<a href="#">id</a>	<b>xs:ID</b>				
	<a href="#">name</a>		prohibited			
	<a href="#">ref</a>	<b>xs:QName</b>	required			
	<a href="#">minOccurs</a>	<b>xs:nonNegativeInteger</b>	optional	1		
	<a href="#">maxOccurs</a>	<b>xs:allNNI</b>	optional	1		
source	<pre>&lt;xs:complexType name="groupRef"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:realGroup"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="ref" type="xs:QName" use="required"/&gt;       &lt;xs:attribute name="name" use="prohibited"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>					

**attribute groupRef/@name**

properties	use prohibited
source	<pre>&lt;xs:attribute name="name" use="prohibited"/&gt;</pre>

**attribute groupRef/@ref**

type	<b>xs:QName</b>
properties	use required
source	<pre>&lt;xs:attribute name="ref" type="xs:QName" use="required"/&gt;</pre>

### complexType **keybase**

diagram	<pre> classDiagram     class keybase {         &lt;&lt;xs:annotated (extension)&gt;&gt;         attributes id, name         sequence             xs:annotation                 attributes id, name                 sequence                     xs:selector                     xs:field     }   </pre>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	extension of <a href="#">xs:annotated</a>																		
properties	base xs:annotated																		
children	<a href="#">xs:annotation</a> <a href="#">xs:selector</a> <a href="#">xs:field</a>																		
used by	elements <a href="#">key</a> <a href="#">keyref</a> <a href="#">unique</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">name</a>	<a href="#">xs:NCName</a>	required																	
source	<pre> &lt;xs:complexType name="keybase"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:selector"/&gt;         &lt;xs:element ref="xs:field" minOccurs="1" maxOccurs="unbounded"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;   </pre>																		

### attribute **keybase/@name**

type	<a href="#">xs:NCName</a>
properties	use required
source	<pre> &lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;   </pre>

## complexType localComplexType

diagram	<p>The diagram illustrates the structure of a localComplexType. It inherits from xs:complexTypeModel. The attributes section includes <code>any #other</code>, <code>id</code>, <code>name</code>, and <code>mixed</code>. The content model section shows inheritance from xs:complexContent. A note states: "This branch is short for &lt;complexContent&gt; &lt;restriction base="xs:anyType"&gt; ... &lt;/restriction&gt; &lt;/complexContent&gt;". The xs:complexTypeModel section also includes annotations, abstractness, finality, and blockiness.</p>																														
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																														
type	restriction of <a href="#">xs:complexType</a>																														
properties	base xs:complexType																														
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																														
used by	elements <a href="#">element/complexType topLevelElement/complexType localElement/complexType</a> <a href="#">narrowMaxMin/complexType</a>																														
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">mixed</a></td> <td><a href="#">xs:boolean</a></td> <td>optional</td> <td>false</td> <td></td> <td>documentation</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>		prohibited				<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		documentation						Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.
Name	Type	Use	Default	Fixed	Annotation																										
<a href="#">id</a>	<a href="#">xs:ID</a>																														
<a href="#">name</a>		prohibited																													
<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		documentation																										
					Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.																										

	<u>abstract</u>	prohibited
	<u>final</u>	prohibited
	<u>block</u>	prohibited
source	<xs:complexType name="localComplexType"> <xs:complexContent> <xs:restriction base="xs:complexType"> <xs:sequence> <xs:element ref="xs:annotation" minOccurs="0"/> <xs:group ref="xs:complexTypeModel"/> </xs:sequence> <xs:attribute name="name" use="prohibited"/> <xs:attribute name="abstract" use="prohibited"/> <xs:attribute name="final" use="prohibited"/> <xs:attribute name="block" use="prohibited"/> <xs:anyAttribute namespace="##other" processContents="lax"/> </xs:restriction> </xs:complexContent> </xs:complexType>	

**attribute localComplexType/@name**

properties	use prohibited
source	<xs:attribute name="name" use="prohibited"/>

**attribute localComplexType/@abstract**

properties	use prohibited
source	<xs:attribute name="abstract" use="prohibited"/>

**attribute localComplexType/@final**

properties	use prohibited
source	<xs:attribute name="final" use="prohibited"/>

**attribute localComplexType/@block**

properties	use prohibited
source	<xs:attribute name="block" use="prohibited"/>

### complexType **localElement**

diagram	<p>The diagram illustrates the structure of the <b>localElement</b> type. It features a central <b>localElement</b> class with various attributes and associations:</p> <ul style="list-style-type: none"> <li><b>Attributes:</b> <code>any ##other</code>, <code>id</code>, <code>name</code>, <code>ref</code>, <code>type</code>.</li> <li><b>Substitution Group:</b> <code>minOccurs</code>, <code>maxOccurs</code>, <code>default</code>, <code>fixed</code>, <code>nillable</code>, <code>abstract</code>, <code>final</code>, <code>block</code>, <code>form</code>.</li> <li><b>Associations:</b> <ul style="list-style-type: none"> <li><b>xs:annotation</b>: A dashed line connects <b>localElement</b> to <b>xs:annotation</b>, which further branches to <b>xs:simpleType</b> and <b>xs:complexType</b>.</li> <li><b>xs:identityConstraint</b>: A dashed line connects <b>localElement</b> to <b>xs:identityConstraint</b>, which then connects to <b>xs:unique</b>, <b>xs:key</b>, and <b>xs:keyref</b>. A note below states: "The three kinds of identity constraints, all with type of or derived from 'keybase'." A multiplicity of <b>0..∞</b> is indicated near the association.</li> </ul> </li> </ul>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of <a href="#">xs:element</a>
properties	base <a href="#">xs:element</a>
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>

used by	elements complexType	<a href="#">nestedParticle/element</a> <a href="#">particle/element</a> <a href="#">narrowMaxMin</a>	Use	Default	Fixed	Annotation
attributes	Name <a href="#">id</a> <a href="#">name</a> <a href="#">ref</a> <a href="#">type</a> <a href="#">substitutionGroup</a> <a href="#">minOccurs</a> <a href="#">maxOccurs</a> <a href="#">default</a> <a href="#">fixed</a> <a href="#">nillable</a> <a href="#">abstract</a> <a href="#">final</a> <a href="#">block</a> <a href="#">form</a>	Type <a href="#">xs:ID</a> <a href="#">xs:NCName</a> <a href="#">xs:QName</a> <a href="#">xs:QName</a> prohibited <a href="#">xs:nonNegativeInteger</a> optional 1 <a href="#">xs:allINNI</a> optional 1 <a href="#">xs:string</a> <a href="#">xs:string</a> <a href="#">xs:boolean</a> optional false prohibited prohibited <a href="#">xs:blockSet</a> <a href="#">xs:formChoice</a>				
source	<pre>&lt;xs:complexType name="localElement"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:element"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:choice minOccurs="0"&gt;           &lt;xs:element name="simpleType" type="xs:localSimpleType"/&gt;           &lt;xs:element name="complexType" type="xs:localComplexType"/&gt;         &lt;/xs:choice&gt;         &lt;xs:group ref="xs:identityConstraint" minOccurs="0" maxOccurs="unbounded"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="substitutionGroup" use="prohibited"/&gt;       &lt;xs:attribute name="final" use="prohibited"/&gt;       &lt;xs:attribute name="abstract" use="prohibited"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>					

**attribute localElement/@substitutionGroup**

properties	use prohibited
source	<xs:attribute name="substitutionGroup" use="prohibited"/>

**attribute localElement/@abstract**

properties	use prohibited
source	<xs:attribute name="abstract" use="prohibited"/>

attribute **localElement/@final**

properties	use prohibited
source	<xs:attribute name="final" use="prohibited"/>

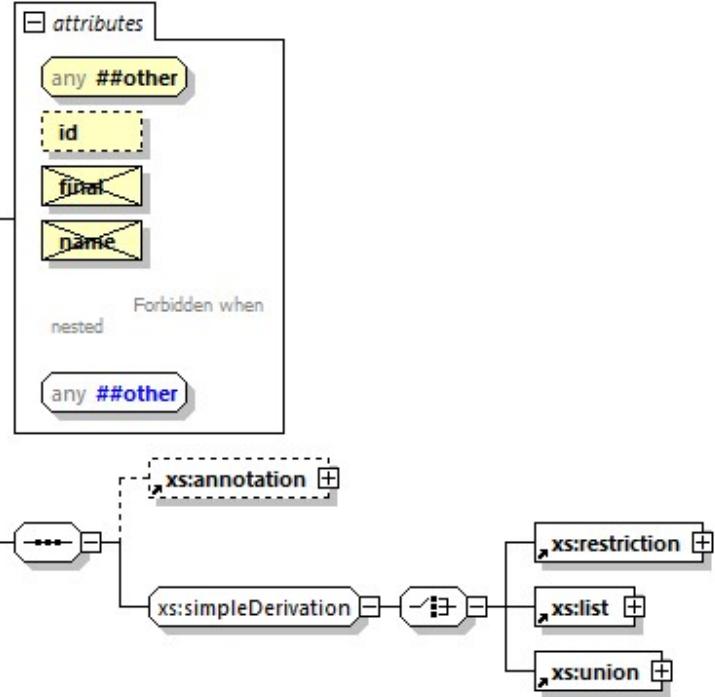
element **localElement/simpleType**

diagram	<pre> graph TD     LST(xs:localSimpleType) --&gt; ID[id]     LST --&gt; ANY[any ##other]     LST --&gt; XA[xs:annotation]     LST --&gt; SD(xs:simpleDerivation)     XA --- SD     SD --&gt; REST(xs:restriction)     REST --- LIST(xs:list)     REST --- UNION(xs:union)   </pre>												
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:localSimpleType</a>												
properties	content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>												
used by	group <a href="#">redefinable</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												
source	<xs:element name="simpleType" type="xs:localSimpleType"/>												

## element localElement/complexType

diagram	<p>The diagram illustrates the structure of the xs:localComplexType element. It is a local complex type defined by the xs:localComplexType element. It has attributes id and mixed. It can have annotations (xs:annotation). It can contain simple content (xs:simpleContent) or complex content (xs:complexContent). It is derived from the xs:complexType element. It can also contain type definitions (xs:typeDefParticle) which use this type. It can declare attributes (xs:attrDecls) which can be grouped (xs:group), all (xs:all), choice (xs:choice), or sequence (xs:sequence). It can also contain any attributes (xs:anyAttribute).</p>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:localComplexType</a>																		
properties	content complex																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	group <a href="#">redefinable</a>																		
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Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>				Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.														
<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		documentation														
source	<code>&lt;xs:element name="complexType" type="xs:localComplexType"/&gt;</code>																		

complexType **localSimpleType**

diagram																															
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																														
type	restriction of <a href="#">xs:simpleType</a>																														
properties	base xs:simpleType																														
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>																														
used by	elements <a href="#">list/simpleType</a> <a href="#">union/simpleType</a> <a href="#">attribute/simpleType</a> <a href="#">topLevelAttribute/simpleType</a> <a href="#">element/simpleType</a> <a href="#">topLevelElement/simpleType</a> <a href="#">localElement/simpleType</a> <a href="#">narrowMaxMin/simpleType</a> <a href="#">simpleRestrictionModel/simpleType</a>																														
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<a href="#">final</a>		prohibited																													
<a href="#">name</a>		prohibited			documentation																										
					Forbidden when nested																										
source	<pre> &lt;xs:complexType name="localSimpleType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:simpleType"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:group ref="xs:simpleDerivation"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="name" use="prohibited"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;             Forbidden when nested           &lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>																														

	<pre> &lt;/xs:documentation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; &lt;xs:attribute name="final" use="prohibited"/&gt; &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>
--	--

**attribute `localSimpleType/@final`**

properties	use prohibited
source	<code>&lt;xs:attribute name="final" use="prohibited"/&gt;</code>

**attribute `localSimpleType/@name`**

properties	use prohibited
annotation	documentation  Forbidden when nested
source	<code>&lt;xs:attribute name="name" use="prohibited"&gt;</code> <code>  &lt;xs:annotation&gt;</code> <code>    &lt;xs:documentation&gt;</code> <code>      Forbidden when nested</code> <code>    &lt;/xs:documentation&gt;</code> <code>  &lt;/xs:annotation&gt;</code> <code>&lt;/xs:attribute&gt;</code>

complexType **namedAttributeGroup**

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:attributeGroup</a>																								
properties	base xs:attributeGroup																								
children	<a href="#">xs:annotation</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																								
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Name	Type	Use	Default	Fixed	Annotation																				
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<a href="#">name</a>	<a href="#">xs:NCName</a>	required																							
<a href="#">ref</a>		prohibited																							
source	<pre> &lt;xs:complexType name="namedAttributeGroup"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:attributeGroup"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:group ref="xs:attrDecls"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;       &lt;xs:attribute name="ref" use="prohibited"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>																								

attribute **namedAttributeGroup/@name**

type	<a href="#">xs:NCName</a>
properties	use required

source	<code>&lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;</code>
--------	--

attribute **namedAttributeGroup/@ref**

properties	use prohibited
source	<code>&lt;xs:attribute name="ref" use="prohibited"/&gt;</code>

complexType **namedGroup**

diagram	<pre> classDiagram     class group {         id : xs:ID         name : xs:NCName         ref : xs:group         minOccurs : minOccurs         maxOccurs : maxOccurs         "any ##other"         "any ##other"     }     xs:annotation &lt;--&gt; group     xs:annotation --&gt; xs:all     xs:annotation --&gt; xs:choice     xs:annotation --&gt; xs:sequence   </pre>																																				
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																				
type	restriction of <a href="#">xs:realGroup</a>																																				
properties	base <a href="#">xs:realGroup</a>																																				
children	<a href="#">xs:annotation</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a>																																				
used by	element <a href="#">group</a>																																				
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">ref</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">minOccurs</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">maxOccurs</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>	required				<a href="#">ref</a>		prohibited				<a href="#">minOccurs</a>		prohibited				<a href="#">maxOccurs</a>		prohibited			
Name	Type	Use	Default	Fixed	Annotation																																
<a href="#">id</a>	<a href="#">xs:ID</a>																																				
<a href="#">name</a>	<a href="#">xs:NCName</a>	required																																			
<a href="#">ref</a>		prohibited																																			
<a href="#">minOccurs</a>		prohibited																																			
<a href="#">maxOccurs</a>		prohibited																																			
source	<code>&lt;xs:complexType name="namedGroup"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:realGroup"&gt;</code>																																				

```

<xs:sequence>
  <xs:element ref="xs:annotation" minOccurs="0"/>
  <xs:choice minOccurs="1" maxOccurs="1">
    <xs:element name="all">
      <xs:complexType>
        <xs:complexContent>
          <xs:restriction base="xs:all">
            <xs:group ref="xs:allModel"/>
            <xs:attribute name="minOccurs" use="prohibited"/>
            <xs:attribute name="maxOccurs" use="prohibited"/>
            <xs:anyAttribute namespace="##other" processContents="lax"/>
          </xs:restriction>
        </xs:complexContent>
      </xs:complexType>
    </xs:element>
    <xs:element name="choice" type="xs:simpleExplicitGroup"/>
    <xs:element name="sequence" type="xs:simpleExplicitGroup"/>
  </xs:choice>
</xs:sequence>
<xs:attribute name="name" type="xs:NCName" use="required"/>
<xs:attribute name="ref" use="prohibited"/>
<xs:attribute name="minOccurs" use="prohibited"/>
<xs:attribute name="maxOccurs" use="prohibited"/>
<xs:anyAttribute namespace="##other" processContents="lax"/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

```

#### attribute **namedGroup/@name**

type	<code>xs:NCName</code>
properties	use required
source	<code>&lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;</code>

#### attribute **namedGroup/@ref**

properties	use prohibited
source	<code>&lt;xs:attribute name="ref" use="prohibited"/&gt;</code>

#### attribute **namedGroup/@minOccurs**

properties	use prohibited
source	<code>&lt;xs:attribute name="minOccurs" use="prohibited"/&gt;</code>

#### attribute **namedGroup/@maxOccurs**

properties	use prohibited
------------	----------------

source

```
<xs:attribute name="maxOccurs" use="prohibited"/>
```

## element namedGroup/all

diagram	<p>The diagram shows the structure of the xs:all element. It has attributes: id, minOccurs, maxOccurs, and two 'any ##other' attributes. It also has a reference to xs:allModel. A note indicates that this choice with min/max is here to avoid a problem with the Elt:All/Choice/Seq Particle derivation constraint.</p>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:all</a>																								
properties	content complex																								
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a>																								
used by	complexType <a href="#">realGroup</a> groups <a href="#">particle</a> <a href="#">typeDef</a> <a href="#">Particle</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">minOccurs</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">maxOccurs</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">minOccurs</a>		prohibited				<a href="#">maxOccurs</a>		prohibited			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">minOccurs</a>		prohibited																							
<a href="#">maxOccurs</a>		prohibited																							
source	<pre>&lt;xs:element name="all"&gt;   &lt;xs:complexType&gt;     &lt;xs:complexContent&gt;       &lt;xs:restriction base="xs:all"&gt;         &lt;xs:group ref="xs:allModel"/&gt;         &lt;xs:attribute name="minOccurs" use="prohibited"/&gt;         &lt;xs:attribute name="maxOccurs" use="prohibited"/&gt;         &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>																								

attribute **namedGroup/all/@minOccurs**

properties	use prohibited
source	<xs:attribute name="minOccurs" use="prohibited"/>

attribute **namedGroup/all/@maxOccurs**

properties	use prohibited
source	<xs:attribute name="maxOccurs" use="prohibited"/>

element **namedGroup/choice**

diagram													
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:simpleExplicitGroup</a>												
properties	content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>												
used by	complexType <a href="#">realGroup</a> groups <a href="#">nestedParticle</a> <a href="#">particle</a> <a href="#">typeDefParticle</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												
source	<xs:element name="choice" type="xs:simpleExplicitGroup"/>												

element **namedGroup/sequence**

diagram	<pre> classDiagram     class xs:simpleExplicitGroup {         id         any ##other     }     xs:annotation &lt; -- xs:simpleExplicitGroup     xs:nestedParticle *--&gt; xs:choice     xs:choice --&gt; xs:element     xs:choice --&gt; xs:group     xs:choice --&gt; xs:sequence     xs:choice --&gt; xs:any     xs:sequence --&gt; xs:simpleExplicitGroup   </pre>												
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:simpleExplicitGroup</a>												
properties	content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>												
used by	complexType <a href="#">realGroup</a> groups <a href="#">nestedParticle</a> <a href="#">particle</a> <a href="#">typeDefParticle</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												
source	<code>&lt;xs:element name="sequence" type="xs:simpleExplicitGroup"/&gt;</code>												

complexType **narrowMaxMin**

diagram	<p><b>narrowMaxMin</b> restricted max/min</p> <p>xs:annotation</p> <p>xs:simpleType</p> <p>xs:complexType</p> <p>xs:identityConstraint</p> <p>xs:unique</p> <p>xs:key</p> <p>xs:keyref</p> <p>The three kinds of identity constraints, all with type of or derived from 'keybase'.</p>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	restriction of <a href="#">xs:localElement</a>																		
properties	base xs:localElement																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>																		
used by	element <a href="#">allModel/element</a>																		
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>				
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">name</a>	<a href="#">xs:NCName</a>																		

	<p><u>ref</u> xs:QName</p> <p><u>type</u> xs:QName</p> <p><u>minOccurs</u> derived by: optional 1 xs:nonNegativeInteger</p> <p><u>maxOccurs</u> derived by: xs:allNNI optional 1</p> <p><u>default</u> xs:string</p> <p><u>fixed</u> xs:string</p> <p><u>nillable</u> xs:boolean optional false</p> <p><u>block</u> xs:blockSet</p> <p><u>form</u> xs:formChoice</p>
annotation	documentation restricted max/min
source	<pre>&lt;xs:complexType name="narrowMaxMin"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;restricted max/min&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:localElement"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:choice minOccurs="0"&gt;           &lt;xs:element name="simpleType" type="xs:localSimpleType"/&gt;           &lt;xs:element name="complexType" type="xs:localComplexType"/&gt;         &lt;/xs:choice&gt;         &lt;xs:group ref="xs:identityConstraint" minOccurs="0" maxOccurs="unbounded"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="minOccurs" use="optional" default="1"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:nonNegativeInteger"&gt;             &lt;xs:enumeration value="0"/&gt;             &lt;xs:enumeration value="1"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:attribute&gt;       &lt;xs:attribute name="maxOccurs" use="optional" default="1"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:allNNI"&gt;             &lt;xs:enumeration value="0"/&gt;             &lt;xs:enumeration value="1"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:attribute&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>

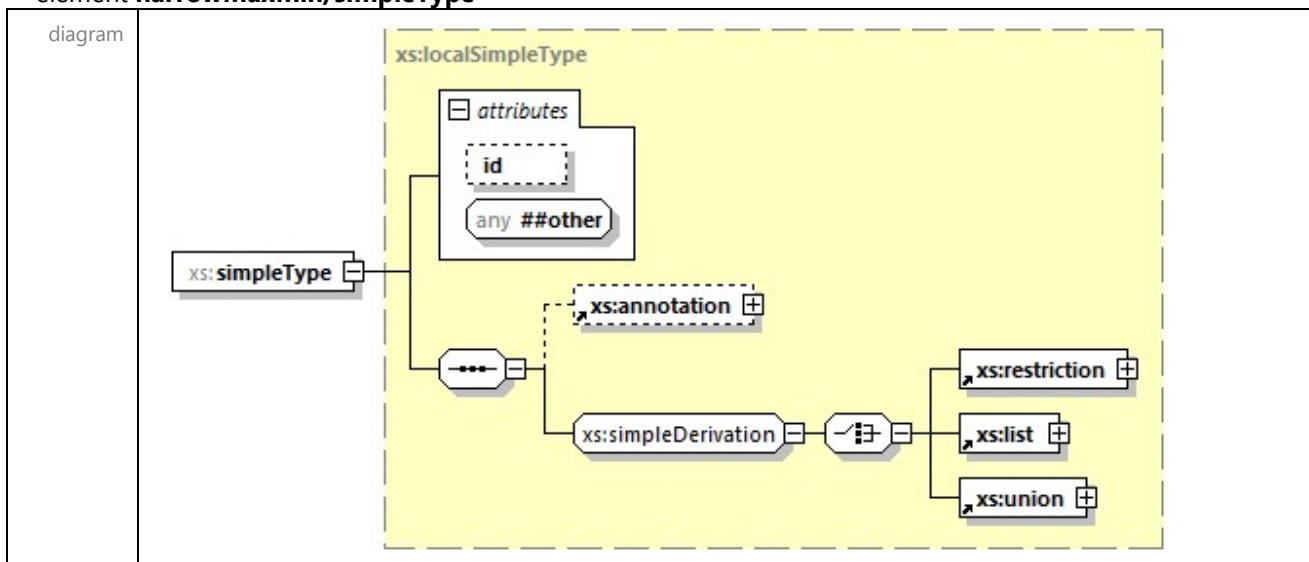
attribute **narrowMaxMin/@minOccurs**

type	restriction of xs:nonNegativeInteger
------	--------------------------------------

properties	use optional default 1
facets	Kind Value Annotation enumeration 0 enumeration 1
source	<pre>&lt;xs:attribute name="minOccurs" use="optional" default="1"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:nonNegativeInteger"&gt;       &lt;xs:enumeration value="0"/&gt;       &lt;xs:enumeration value="1"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>

attribute **narrowMaxMin/@maxOccurs**

type	restriction of <a href="#">xs:allNNI</a>
properties	use optional default 1
facets	Kind Value Annotation enumeration 0 enumeration 1
source	<pre>&lt;xs:attribute name="maxOccurs" use="optional" default="1"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:allNNI"&gt;       &lt;xs:enumeration value="0"/&gt;       &lt;xs:enumeration value="1"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>

element **narrowMaxMin/simpleType**

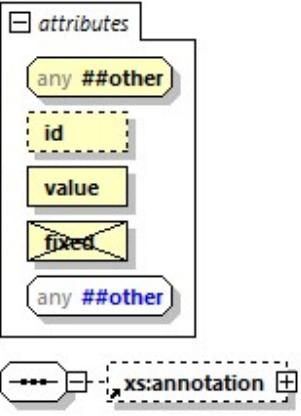
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>					
type	<a href="#">xs:localSimpleType</a>					
properties	content complex					
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>					
used by	group <a href="#">redefinable</a>					
attributes	Name <a href="#">id</a>	Type <a href="#">xs:ID</a>	Use	Default	Fixed	Annotation
source	<code>&lt;xs:element name="simpleType" type="xs:localSimpleType"/&gt;</code>					

### element narrowMaxMin/complexType

diagram													
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:localComplexType</a>												
properties	content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>												
used by	group <a href="#">redefinable</a>												
attributes	<table border="1"> <tr> <td>Name <a href="#">id</a></td> <td>Type <a href="#">xs:ID</a></td> <td>Use</td> <td>Default</td> <td>Fixed</td> <td>Annotation</td> </tr> <tr> <td><a href="#">mixed</a></td> <td><a href="#">xs:boolean</a></td> <td>optional</td> <td>false</td> <td></td> <td>documentation</td> </tr> </table> <p style="text-align: right;">Not allowed if simpleContent</p>	Name <a href="#">id</a>	Type <a href="#">xs:ID</a>	Use	Default	Fixed	Annotation	<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		documentation
Name <a href="#">id</a>	Type <a href="#">xs:ID</a>	Use	Default	Fixed	Annotation								
<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		documentation								

	child is chosen. May be overridden by setting on complexContent child.
source	<code>&lt;xs:element name="complexType" type="xs:localComplexType"/&gt;</code>

**complexType noFixedFacet**

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:facet</a>																								
properties	base xs:facet																								
children	<a href="#">xs:annotation</a>																								
used by	elements <a href="#">enumeration pattern</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">value</a></td> <td></td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">fixed</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">value</a>		required				<a href="#">fixed</a>		prohibited			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">value</a>		required																							
<a href="#">fixed</a>		prohibited																							
source	<pre>&lt;xs:complexType name="noFixedFacet"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:facet"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="fixed" use="prohibited"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>																								

**attribute noFixedFacet/@fixed**

properties	use prohibited
------------	----------------

source

```
<xs:attribute name="fixed" use="prohibited"/>
```

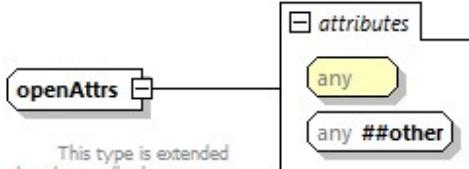
## complexType numFacet

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:facet</a>																								
properties	base xs:facet																								
children	<a href="#">xs:annotation</a>																								
used by	elements <a href="#">fractionDigits</a> <a href="#">length</a> <a href="#">maxLength</a> <a href="#">minLength</a> <a href="#">totalDigits</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">value</a></td> <td><a href="#">xs:nonNegativeInteger</a></td> <td>required</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">fixed</a></td> <td><a href="#">xs:boolean</a></td> <td>optional</td> <td>false</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">value</a>	<a href="#">xs:nonNegativeInteger</a>	required				<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false		
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">value</a>	<a href="#">xs:nonNegativeInteger</a>	required																							
<a href="#">fixed</a>	<a href="#">xs:boolean</a>	optional	false																						
source	<pre>&lt;xs:complexType name="numFacet"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:facet"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="value" type="xs:nonNegativeInteger" use="required"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>																								

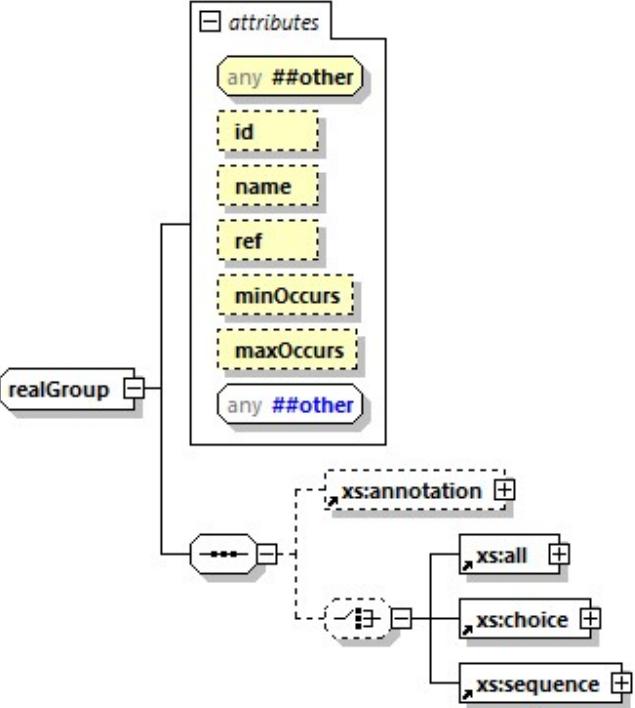
## attribute numFacet/@value

type	<a href="#">xs:nonNegativeInteger</a>
properties	use required
source	<pre>&lt;xs:attribute name="value" type="xs:nonNegativeInteger" use="required"/&gt;</pre>

### complexType **openAttrs**

diagram	 <p>This type is extended by almost all schema types to allow attributes from other namespaces to be added to user schemas.</p>						
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>						
type	restriction of <b>xs:anyType</b>						
properties	base xs:anyType						
used by	elements <b>annotation redefine schema</b> complexType <b>annotated</b>						
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		
annotation	<p>documentation</p> <p>This type is extended by almost all schema types to allow attributes from other namespaces to be added to user schemas.</p>						
source	<pre> &lt;xs:complexType name="openAttrs"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       This type is extended by almost all schema types       to allow attributes from other namespaces to be       added to user schemas.     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:anyType"&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>						

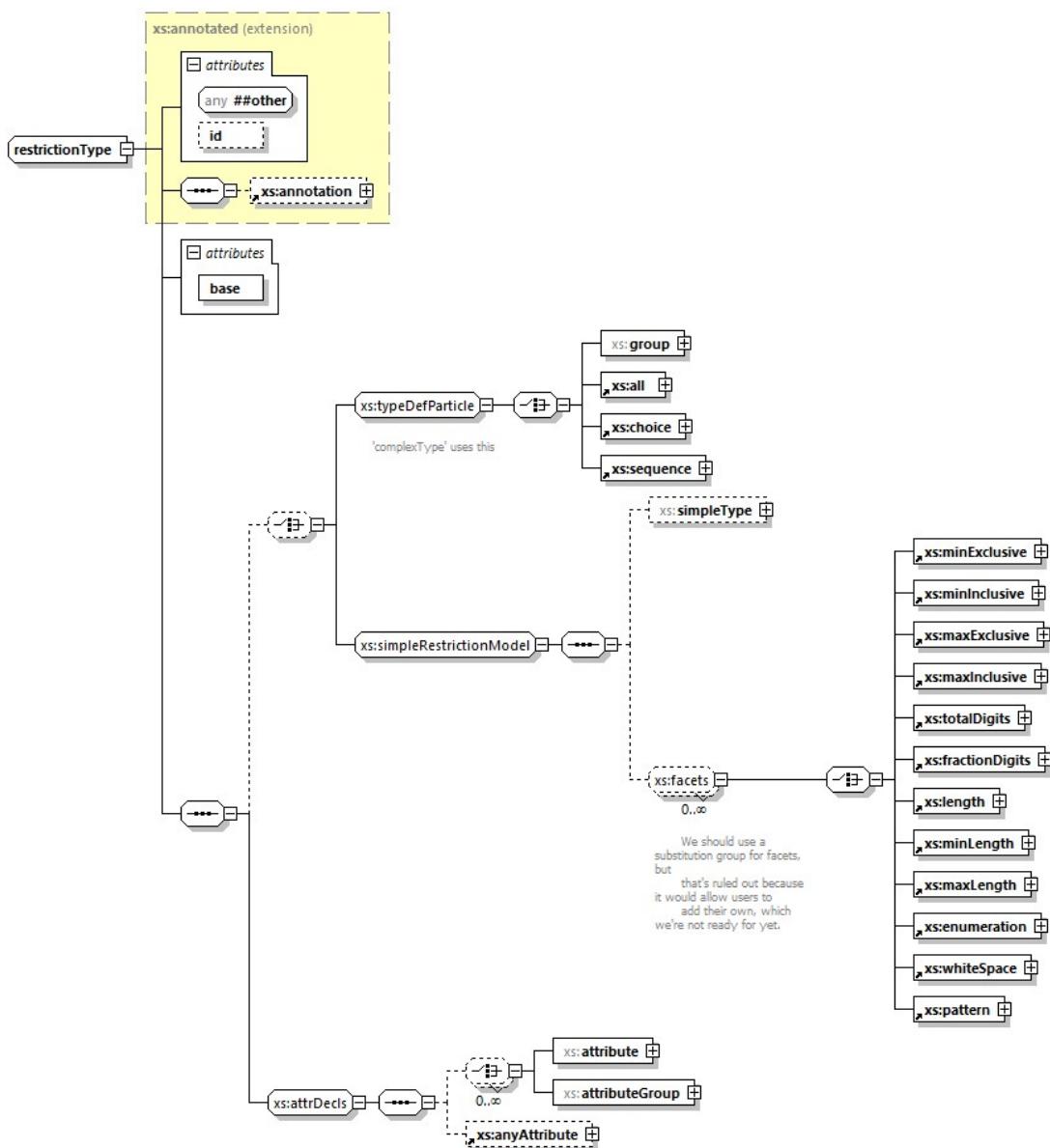
complexType **realGroup**

diagram																																					
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																				
type	restriction of <a href="#">xs:group</a>																																				
properties	base xs:group																																				
children	<a href="#">xs:annotation</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a>																																				
used by	complexTypes <a href="#">groupRef</a> <a href="#">namedGroup</a>																																				
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<a href="#">maxOccurs</a>	<a href="#">xs:allINNI</a>	optional	1																																		
source	<pre> &lt;xs:complexType name="realGroup"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:group"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:choice minOccurs="0" maxOccurs="1"&gt;           &lt;xs:element ref="xs:all"/&gt;           &lt;xs:element ref="xs:choice"/&gt;           &lt;xs:element ref="xs:sequence"/&gt;         &lt;/xs:choice&gt;       &lt;/xs:sequence&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>																																				

	<code>&lt;/xs:complexType&gt;</code>
--	--------------------------------------

### complexType restrictionType

diagram



namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	extension of <a href="#">xs:annotated</a>
properties	base    xs:annotated
children	<a href="#">xs:annotation</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:simpleType</a> <a href="#">xs:minExclusive</a> <a href="#">xs:minInclusive</a> <a href="#">xs:maxExclusive</a> <a href="#">xs:maxInclusive</a> <a href="#">xs:totalDigits</a> <a href="#">xs:fractionDigits</a> <a href="#">xs:length</a> <a href="#">xs:minLength</a> <a href="#">xs:maxLength</a> <a href="#">xs:enumeration</a> <a href="#">xs:whiteSpace</a> <a href="#">xs:pattern</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>
used by	complexTypes <a href="#">complexRestrictionType</a> <a href="#">simpleRestrictionType</a>

attributes	Name <u><a href="#">id</a></u> <u><a href="#">base</a></u>	Type <b>xs:ID</b> <b>xs:QName</b>	Use	Default	Fixed	Annotation
source		<pre>&lt;xs:complexType name="restrictionType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:sequence&gt;         &lt;xs:choice minOccurs="0"&gt;           &lt;xs:group ref="xs:typeDefParticle"/&gt;           &lt;xs:group ref="xs:simpleRestrictionModel"/&gt;         &lt;/xs:choice&gt;         &lt;xs:group ref="xs:attrDeclns"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="base" type="xs:QName" use="required"/&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>				

attribute **restrictionType/@base**

type	<b>xs:QName</b>
properties	use required
source	<pre>&lt;xs:attribute name="base" type="xs:QName" use="required"/&gt;</pre>

complexType **simpleExplicitGroup**

diagram																									
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:explicitGroup</a>																								
properties	base xs:explicitGroup																								
children	<a href="#">xs:annotation</a> <a href="#">xs:element</a> <a href="#">xs:group</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:any</a>																								
used by	elements <a href="#">namedGroup/choice</a> <a href="#">namedGroup/sequence</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">minOccurs</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">maxOccurs</a></td> <td></td> <td>prohibited</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">minOccurs</a>		prohibited				<a href="#">maxOccurs</a>		prohibited			
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">minOccurs</a>		prohibited																							
<a href="#">maxOccurs</a>		prohibited																							
source	<pre> &lt;xs:complexType name="simpleExplicitGroup"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:explicitGroup"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:group ref="xs:nestedParticle" minOccurs="0" maxOccurs="unbounded"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="minOccurs" use="prohibited"/&gt;       &lt;xs:attribute name="maxOccurs" use="prohibited"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>																								

attribute **simpleExplicitGroup/@minOccurs**

properties	use prohibited
source	<xs:attribute name="minOccurs" use="prohibited"/>

attribute **simpleExplicitGroup/@maxOccurs**

properties	use prohibited
source	<xs:attribute name="maxOccurs" use="prohibited"/>

complexType **simpleExtensionType**

diagram	<p>The diagram illustrates the structure of the simpleExtensionType. It shows inheritance from xs:extensionType. The attributes section includes 'any ##other', 'id', 'base', and another 'any ##other'. Annotations are shown as xs:annotation and xs:documentation. The attrDecls section shows a sequence of particles, with a note 'No typeDefParticle group reference'. The final part shows a sequence of 0..∞ xs:attribute and xs:attributeGroup elements, along with an xs:anyAttribute particle.</p>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	restriction of <a href="#">xs:extensionType</a>																		
properties	base xs:extensionType																		
children	<a href="#">xs:annotation</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	element <a href="#">simpleContent/extension</a>																		
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Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">base</a>	<a href="#">xs:QName</a>	required																	
source	<pre> &lt;xs:complexType name="simpleExtensionType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:extensionType"&gt;       &lt;xs:sequence&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;             No typeDefParticle group reference&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;           &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;           &lt;xs:group ref="xs:attrDecls"/&gt;         &lt;/xs:sequence&gt;       &lt;/xs:restriction&gt;     &lt;/xs:complexContent&gt;   &lt;/xs:complexType&gt; </pre>																		

```

<xs:anyAttribute namespace="##other" processContents="lax"/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

```

### complexType simpleRestrictionType

diagram																			
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	restriction of <a href="#">xs:restrictionType</a>																		
properties	base xs:restrictionType																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:minExclusive</a> <a href="#">xs:minInclusive</a> <a href="#">xs:maxExclusive</a> <a href="#">xs:maxInclusive</a> <a href="#">xs:totalDigits</a> <a href="#">xs:fractionDigits</a> <a href="#">xs:length</a> <a href="#">xs:minLength</a> <a href="#">xs:maxLength</a> <a href="#">xs:enumeration</a> <a href="#">xs:whiteSpace</a> <a href="#">xs:pattern</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	element <a href="#">simpleContent/restriction</a>																		
attributes	<table style="width: 100%; border-collapse: collapse;"> <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><a href="#">id</a></td><td><a href="#">xs:ID</a></td><td></td><td></td><td></td><td></td></tr> <tr> <td><a href="#">base</a></td><td><a href="#">xs:QName</a></td><td>required</td><td></td><td></td><td></td></tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">base</a>	<a href="#">xs:QName</a>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">base</a>	<a href="#">xs:QName</a>	required																	
source	<pre> &lt;xs:complexType name="simpleRestrictionType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:restrictionType"&gt;       &lt;xs:sequence&gt; </pre>																		

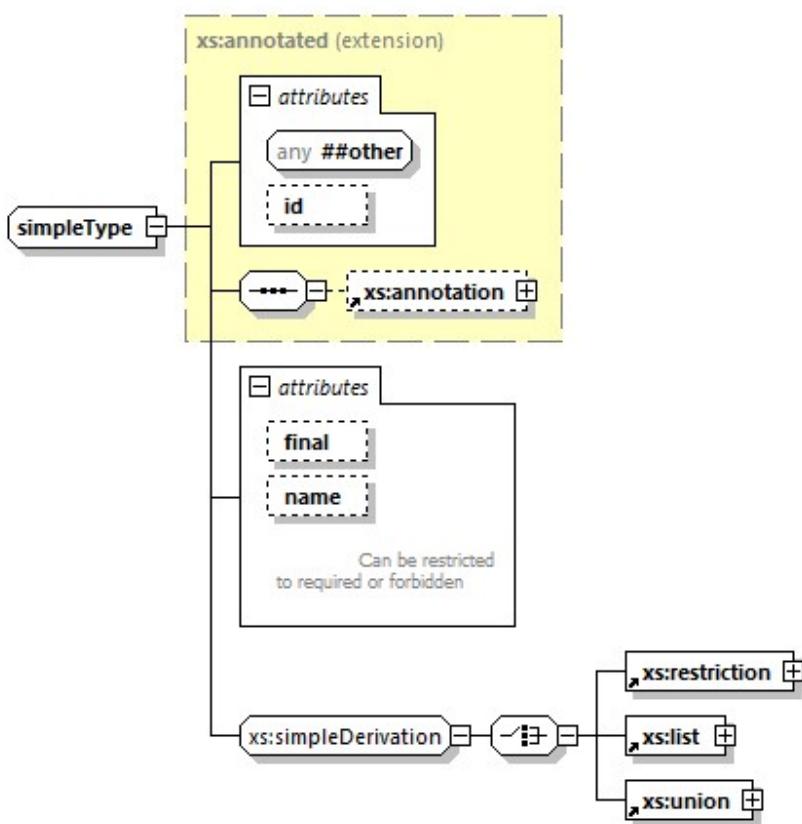
```

<xs:element ref="xs:annotation" minOccurs="0"/>
<xs:choice minOccurs="0">
    <xs:annotation>
        <xs:documentation>This choice is added simply to
            make this a valid restriction per the REC</xs:documentation>
    </xs:annotation>
    <xs:group ref="xs:simpleRestrictionModel"/>
</xs:choice>
<xs:group ref="xs:attrDecls"/>
</xs:sequence>
<xs:anyAttribute namespace="##other" processContents="lax"/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

```

### complexType simpleType

diagram



namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	extension of <a href="#">xs:annotated</a>
properties	base <code>xs:annotated</code> abstract true
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>
used by	complexTypes <a href="#">localSimpleType</a> <a href="#">topLevelSimpleType</a>

	Name <u><a href="#">id</a></u> <u><a href="#">final</a></u> <u><a href="#">name</a></u>	Type <b>xs:ID</b> <b>xs:simpleDerivationSet</b> <b>xs:NCName</b>	Use	Default	Fixed	Annotation
attributes						documentation Can be restricted to required or forbidden
source		<pre>&lt;xs:complexType name="simpleType" abstract="true"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:group ref="xs:simpleDerivation"/&gt;       &lt;xs:attribute name="final" type="xs:simpleDerivationSet"/&gt;       &lt;xs:attribute name="name" type="xs:NCName"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;             Can be restricted to required or forbidden           &lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>				

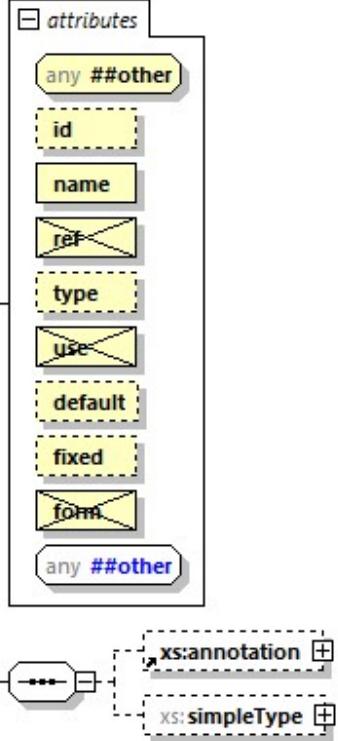
attribute **simpleType/@final**

type	<u><a href="#">xs:simpleDerivationSet</a></u>
source	<pre>&lt;xs:attribute name="final" type="xs:simpleDerivationSet"/&gt;</pre>

attribute **simpleType/@name**

type	<b>xs:NCName</b>
annotation	documentation Can be restricted to required or forbidden
source	<pre>&lt;xs:attribute name="name" type="xs:NCName"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       Can be restricted to required or forbidden     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

complexType **topLevelAttribute**

diagram																																																							
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																																						
type	restriction of <a href="#">xs:attribute</a>																																																						
properties	base xs:attribute																																																						
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a>																																																						
used by	element <a href="#">attribute</a>																																																						
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<a href="#">fixed</a>	<a href="#">xs:string</a>																																																						
<a href="#">form</a>		prohibited																																																					
source	<pre> &lt;xs:complexType name="topLevelAttribute"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:attribute"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="ref" use="prohibited"/&gt;       &lt;xs:attribute name="form" use="prohibited"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>																																																						

	<pre>&lt;xs:attribute name="use" use="prohibited"/&gt; &lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt; &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt; &lt;/xs:restriction&gt; &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>
--	--

**attribute `topLevelAttribute/@name`**

type	<code>xs:NCName</code>
properties	use required
source	<code>&lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;</code>

**attribute `topLevelAttribute/@ref`**

properties	use prohibited
source	<code>&lt;xs:attribute name="ref" use="prohibited"/&gt;</code>

**attribute `topLevelAttribute/@use`**

properties	use prohibited
source	<code>&lt;xs:attribute name="use" use="prohibited"/&gt;</code>

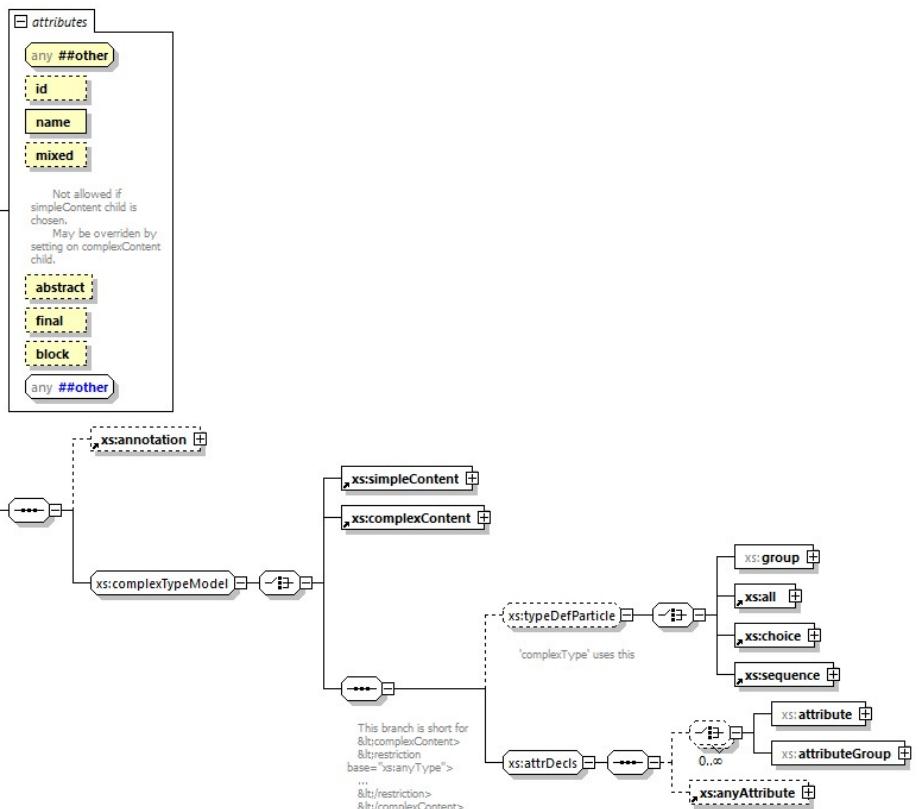
**attribute `topLevelAttribute/@form`**

properties	use prohibited
source	<code>&lt;xs:attribute name="form" use="prohibited"/&gt;</code>

element **topLevelAttribute/simpleType**

diagram													
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:localSimpleType</a>												
properties	minOcc 0 maxOcc 1 content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>												
used by	group <a href="#">redefinable</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												
source	<code>&lt;xs:element name="simpleType" type="xs:localSimpleType" minOccurs="0"/&gt;</code>												

## complexType topLevelComplexType

diagram																																											
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																																										
type	restriction of <a href="#">xs:complexType</a>																																										
properties	base xs:complexType																																										
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																																										
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Name	Type	Use	Default	Fixed	Annotation																																						
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<a href="#">final</a>	<a href="#">xs:derivationSet</a>																																										
<a href="#">block</a>	<a href="#">xs:derivationSet</a>																																										

source	<pre>&lt;xs:complexType name="topLevelComplexType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:complexType"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:group ref="xs:complexTypeModel"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;       &lt;xs:anyAttribute namespace="#other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>
--------	---

**attribute topLevelComplexType/@name**

type	xs:NCName
properties	use required
source	<pre>&lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;</pre>

complexType **topLevelElement**

diagram	<pre> classDiagram     class topLevelElement {         attributes: any ##other, id, name, ref, type, substitutionGroup, minOccurs, maxOccurs, default, fixed, nillable, abstract, final, block, form, any ##other         associations: xs:annotation, xs:simpleType, xs:complexType, xs:identityConstraint     }     xs:annotation &lt; -- xs:simpleType     xs:annotation &lt; -- xs:complexType     xs:identityConstraint &lt; -- xs:unique     xs:identityConstraint &lt; -- xs:key     xs:identityConstraint &lt; -- xs:keyref   </pre> <p>The three kinds of identity constraints, all with type of or derived from 'keybase'.</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of <a href="#">xs:element</a>
properties	base xs:element
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleType</a> <a href="#">xs:complexType</a> <a href="#">xs:unique</a> <a href="#">xs:key</a> <a href="#">xs:keyref</a>

used by	element	<a href="#">element</a>	Type	Use	Default	Fixed	Annotation
attributes	Name <a href="#">id</a> <a href="#">name</a> <a href="#">ref</a> <a href="#">type</a> <a href="#">substitutionGroup</a> <a href="#">minOccurs</a> <a href="#">maxOccurs</a> <a href="#">default</a> <a href="#">fixed</a> <a href="#">nillable</a> <a href="#">abstract</a> <a href="#">final</a> <a href="#">block</a> <a href="#">form</a>	<a href="#">xs:ID</a> <a href="#">xs:NCName</a> prohibited <a href="#">xs:QName</a> <a href="#">xs:QName</a> prohibited prohibited <a href="#">xs:string</a> <a href="#">xs:string</a> <a href="#">xs:boolean</a> <a href="#">xs:boolean</a> <a href="#">xs:derivationSet</a> <a href="#">xs:blockSet</a> prohibited					
source	<pre>&lt;xs:complexType name="topLevelElement"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:element"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:choice minOccurs="0"&gt;           &lt;xs:element name="simpleType" type="xs:localSimpleType"/&gt;           &lt;xs:element name="complexType" type="xs:localComplexType"/&gt;         &lt;/xs:choice&gt;         &lt;xs:group ref="xs:identityConstraint" minOccurs="0" maxOccurs="unbounded"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="ref" use="prohibited"/&gt;       &lt;xs:attribute name="form" use="prohibited"/&gt;       &lt;xs:attribute name="minOccurs" use="prohibited"/&gt;       &lt;xs:attribute name="maxOccurs" use="prohibited"/&gt;       &lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;       &lt;xs:anyAttribute namespace="##other" processContents="lax"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>						

attribute **topLevelElement/@name**

type	<a href="#">xs:NCName</a>
properties	use required
source	<a href="#">&lt;xs:attribute name="name" type="xs:NCName" use="required"/&gt;</a>

attribute **topLevelElement/@ref**

properties	use prohibited
------------	----------------

source	<code>&lt;xs:attribute name="ref" use="prohibited"/&gt;</code>
--------	--

attribute **topLevelElement/@minOccurs**

properties	use prohibited
source	<code>&lt;xs:attribute name="minOccurs" use="prohibited"/&gt;</code>

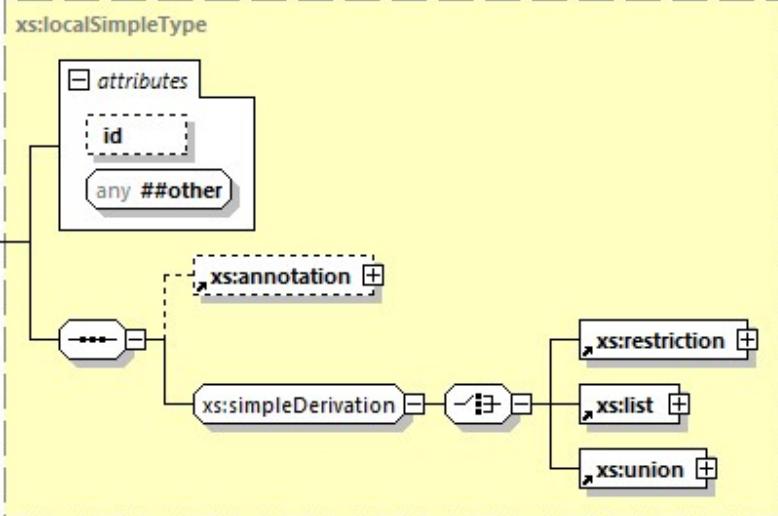
attribute **topLevelElement/@maxOccurs**

properties	use prohibited
source	<code>&lt;xs:attribute name="maxOccurs" use="prohibited"/&gt;</code>

attribute **topLevelElement/@form**

properties	use prohibited
source	<code>&lt;xs:attribute name="form" use="prohibited"/&gt;</code>

element **topLevelElement/simpleType**

diagram													
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>												
type	<a href="#">xs:localSimpleType</a>												
properties	content complex												
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>												
used by	group <a href="#">redefinable</a>												
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>				
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">id</a>	<a href="#">xs:ID</a>												

source	<code>&lt;xs:element name="simpleType" type="xs:localSimpleType"/&gt;</code>																		
<b>element topLevelElement/complexType</b>																			
diagram	<p>The diagram illustrates the structure of the xs:localComplexType element. It has attributes id and mixed. Associations include xs:annotation, xs:simpleContent, xs:complexContent, xs:complexTypeModel, xs:typeDefParticle, xs:attrDecls, and various particle types like group, all, choice, sequence, attribute, attributeGroup, and anyAttribute.</p>																		
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																		
type	<a href="#">xs:localComplexType</a>																		
properties	content complex																		
children	<a href="#">xs:annotation</a> <a href="#">xs:simpleContent</a> <a href="#">xs:complexContent</a> <a href="#">xs:group</a> <a href="#">xs:all</a> <a href="#">xs:choice</a> <a href="#">xs:sequence</a> <a href="#">xs:attribute</a> <a href="#">xs:attributeGroup</a> <a href="#">xs:anyAttribute</a>																		
used by	group <a href="#">redefinable</a>																		
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Name	Type	Use	Default	Fixed	Annotation														
<a href="#">id</a>	<a href="#">xs:ID</a>																		
<a href="#">mixed</a>	<a href="#">xs:boolean</a>	optional	false		<p>Not allowed if simpleContent child is chosen. May be overridden by setting on complexContent child.</p>														
source	<code>&lt;xs:element name="complexType" type="xs:localComplexType"/&gt;</code>																		

complexType **topLevelSimpleType**

diagram	<pre> classDiagram     class topLevelSimpleType {         any ##other         id         final         name "Required at the top level"         xs:annotation         xs:simpleDerivationSet         xs:restriction     } </pre>																								
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>																								
type	restriction of <a href="#">xs:simpleType</a>																								
properties	base <a href="#">xs:simpleType</a>																								
children	<a href="#">xs:annotation</a> <a href="#">xs:restriction</a> <a href="#">xs:list</a> <a href="#">xs:union</a>																								
used by	element <a href="#">simpleType</a>																								
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><a href="#">id</a></td> <td><a href="#">xs:ID</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">final</a></td> <td><a href="#">xs:simpleDerivationSet</a></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><a href="#">name</a></td> <td><a href="#">xs:NCName</a></td> <td>required</td> <td></td> <td></td> <td>documentation</td> </tr> </tbody> </table> <p style="text-align: right;">Required at the top level</p>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">final</a>	<a href="#">xs:simpleDerivationSet</a>					<a href="#">name</a>	<a href="#">xs:NCName</a>	required			documentation
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">final</a>	<a href="#">xs:simpleDerivationSet</a>																								
<a href="#">name</a>	<a href="#">xs:NCName</a>	required			documentation																				
source	<pre> &lt;xs:complexType name="topLevelSimpleType"&gt;   &lt;xs:complexContent&gt;     &lt;xs:restriction base="xs:simpleType"&gt;       &lt;xs:sequence&gt;         &lt;xs:element ref="xs:annotation" minOccurs="0"/&gt;         &lt;xs:group ref="xs:simpleDerivationSet"/&gt;       &lt;/xs:sequence&gt;       &lt;xs:attribute name="name" type="xs:NCName" use="required"&gt;         &lt;xs:annotation&gt;           &lt;xs:documentation&gt;             Required at the top level           &lt;/xs:documentation&gt;         &lt;/xs:annotation&gt;       &lt;/xs:attribute&gt;     &lt;/xs:restriction&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt; </pre>																								

```

        </xs:annotation>
    </xs:attribute>
    <xs:anyAttribute namespace="##other" processContents="lax"/>
</xs:restriction>
</xs:complexContent>
</xs:complexType>

```

#### attribute **topLevelSimpleType/@name**

type	<code>xs:NCName</code>
properties	use required
annotation	documentation  Required at the top level
source	<pre> &lt;xs:attribute name="name" type="xs:NCName" use="required"&gt;     &lt;xs:annotation&gt;         &lt;xs:documentation&gt;             Required at the top level         &lt;/xs:documentation&gt;     &lt;/xs:annotation&gt; &lt;/xs:attribute&gt; </pre>

#### complexType **wildcard**

diagram	<p>The diagram illustrates the structure of the <code>xs:annotated</code> extension. It features a yellow rounded rectangle labeled <code>xs:annotated (extension)</code>. Inside, there is a box for <code>attributes</code> containing <code>any ##other</code> and <code>id</code>. Below this is a dashed box for <code>xs:annotation</code>. A line labeled <code>wildcard</code> connects to the <code>xs:annotation</code> box. Another dashed box below contains <code>attributes</code>, <code>namespace</code>, and <code>processContents</code>.</p>
namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	extension of <a href="#">xs:annotated</a>
properties	base <code>xs:annotated</code>
children	<a href="#">xs:annotation</a>

used by	elements <a href="#">any</a> <a href="#">anyAttribute</a>																								
attributes	<table> <tr> <td>Name</td><td>Type</td><td>Use</td><td>Default</td><td>Fixed</td><td>Annotation</td></tr> <tr> <td><a href="#">id</a></td><td><a href="#">xs:ID</a></td><td></td><td></td><td></td><td></td></tr> <tr> <td><a href="#">namespace</a></td><td><a href="#">xs:namespaceList</a></td><td>optional</td><td>##any</td><td></td><td></td></tr> <tr> <td><a href="#">processContents</a></td><td><b>derived by:</b> <a href="#">xs:NMTOKEN</a></td><td>optional</td><td>strict</td><td></td><td></td></tr> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">id</a>	<a href="#">xs:ID</a>					<a href="#">namespace</a>	<a href="#">xs:namespaceList</a>	optional	##any			<a href="#">processContents</a>	<b>derived by:</b> <a href="#">xs:NMTOKEN</a>	optional	strict		
Name	Type	Use	Default	Fixed	Annotation																				
<a href="#">id</a>	<a href="#">xs:ID</a>																								
<a href="#">namespace</a>	<a href="#">xs:namespaceList</a>	optional	##any																						
<a href="#">processContents</a>	<b>derived by:</b> <a href="#">xs:NMTOKEN</a>	optional	strict																						
source	<pre>&lt;xs:complexType name="wildcard"&gt;   &lt;xs:complexContent&gt;     &lt;xs:extension base="xs:annotated"&gt;       &lt;xs:attribute name="namespace" type="xs:namespaceList" use="optional" default="##any"/&gt;       &lt;xs:attribute name="processContents" use="optional" default="strict"&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:NMTOKEN"&gt;             &lt;xs:enumeration value="skip"/&gt;             &lt;xs:enumeration value="lax"/&gt;             &lt;xs:enumeration value="strict"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:attribute&gt;     &lt;/xs:extension&gt;   &lt;/xs:complexContent&gt; &lt;/xs:complexType&gt;</pre>																								

attribute **wildcard/@namespace**

type	<a href="#">xs:namespaceList</a>
properties	use optional default ##any
source	<pre>&lt;xs:attribute name="namespace" type="xs:namespaceList" use="optional" default="##any"/&gt;</pre>

attribute **wildcard/@processContents**

type	restriction of <a href="#">xs:NMTOKEN</a>
properties	use optional default strict
facets	Kind Value Annotation enumeration skip enumeration lax enumeration strict
source	<pre>&lt;xs:attribute name="processContents" use="optional" default="strict"&gt;   &lt;xs:simpleType&gt;     &lt;xs:restriction base="xs:NMTOKEN"&gt;       &lt;xs:enumeration value="skip"/&gt;       &lt;xs:enumeration value="lax"/&gt;       &lt;xs:enumeration value="strict"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt;</pre>

	</xs:attribute>
--	-----------------

**simpleType allNNI**

namespace	http://www.w3.org/2001/XMLSchema
type	union of ( <b>xs:nonNegativeInteger</b> , restriction of <b>xs:NMTOKEN</b> )
used by	attributes <b>narrowMaxMin/@maxOccurs</b> <b>all/@maxOccurs</b> <b>occurs/@maxOccurs</b>
annotation	documentation  for maxOccurs
source	<pre>&lt;xs:simpleType name="allNNI"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       for maxOccurs&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:union memberTypes="xs:nonNegativeInteger"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:NMTOKEN"&gt;           &lt;xs:enumeration value="unbounded"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:union&gt;   &lt;/xs:simpleType&gt;</pre>

**simpleType anyURI**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:anySimpleType</b>
properties	base xs:anySimpleType id anyURI
facets	Kind Value Annotation whiteSpace collapse
annotation	appinfo <hfp:hasFacet name="length"/> <hfp:hasFacet name="minLength"/> <hfp:hasFacet name="maxLength"/> <hfp:hasFacet name="pattern"/> <hfp:hasFacet name="enumeration"/> <hfp:hasFacet name="whiteSpace"/> <hfp:hasProperty name="ordered" value="false"/> <hfp:hasProperty name="bounded" value="false"/> <hfp:hasProperty name="cardinality" value="countably infinite"/> <hfp:hasProperty name="numeric" value="false"/>
source	<pre>&lt;xs:simpleType name="anyURI" id="anyURI"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;</pre>

```

<hfp:hasFacet name="enumeration"/>
<hfp:hasFacet name="whiteSpace"/>
<hfp:hasProperty name="ordered" value="false"/>
<hfp:hasProperty name="bounded" value="false"/>
<hfp:hasProperty name="cardinality" value="countably infinite"/>
<hfp:hasProperty name="numeric" value="false"/>
</xs:appinfo>
<xs:documentation source="http://www.w3.org/TR/xmlschema-2/#anyURI"/>
</xs:annotation>
<xs:restriction base="xs:anySimpleType">
  <xs:whiteSpace value="collapse" fixed="true" id="anyURI.whiteSpace"/>
</xs:restriction>
</xs:simpleType>

```

### simpleType **base64Binary**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:anySimpleType</b>		
properties	base xs:anySimpleType id base64Binary		
facets	Kind Value Annotation whiteSpace collapse		
annotation	appinfo <hfp:hasFacet name="length"/> <hfp:hasFacet name="minLength"/> <hfp:hasFacet name="maxLength"/> <hfp:hasFacet name="pattern"/> <hfp:hasFacet name="enumeration"/> <hfp:hasFacet name="whiteSpace"/> <hfp:hasProperty name="ordered" value="false"/> <hfp:hasProperty name="bounded" value="false"/> <hfp:hasProperty name="cardinality" value="countably infinite"/> <hfp:hasProperty name="numeric" value="false"/>		
source	<xs:simpleType name="base64Binary" id="base64Binary">   <xs:annotation>     <xs:appinfo>       <hfp:hasFacet name="length"/>       <hfp:hasFacet name="minLength"/>       <hfp:hasFacet name="maxLength"/>       <hfp:hasFacet name="pattern"/>       <hfp:hasFacet name="enumeration"/>       <hfp:hasFacet name="whiteSpace"/>       <hfp:hasProperty name="ordered" value="false"/>       <hfp:hasProperty name="bounded" value="false"/>       <hfp:hasProperty name="cardinality" value="countably infinite"/>       <hfp:hasProperty name="numeric" value="false"/>     </xs:appinfo>     <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#base64Binary"/>   </xs:annotation>   <xs:restriction base="xs:anySimpleType">     <xs:whiteSpace value="collapse" fixed="true" id="base64Binary.whiteSpace"/>   </xs:restriction> </xs:simpleType>		

**simpleType blockSet**

namespace	http://www.w3.org/2001/XMLSchema
type	union of (restriction of <a href="#">xs:token</a> , list of (restriction of <a href="#">xs:derivationControl</a> ))
used by	attributes <a href="#">element/@block schema/@blockDefault</a>
annotation	<p>documentation</p> <p>A utility type, not for public use</p> <p>documentation</p> <p>#all or (possibly empty) subset of {substitution, extension, restriction}</p>
source	<pre>&lt;xs:simpleType name="blockSet"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;     &lt;xs:documentation&gt;       #all or (possibly empty) subset of {substitution, extension,       restriction}&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:union&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:token"&gt;         &lt;xs:enumeration value="#all"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;     &lt;xs:simpleType&gt;       &lt;xs:list&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:derivationControl"&gt;             &lt;xs:enumeration value="extension"/&gt;             &lt;xs:enumeration value="restriction"/&gt;             &lt;xs:enumeration value="substitution"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:list&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:union&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType boolean**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <a href="#">xs:anySimpleType</a>
properties	base xs:anySimpleType id boolean
facets	Kind Value Annotation whiteSpace collapse
annotation	appinfo <hfp:hasFacet name="pattern"/>

	<hfp:hasFacet name="whiteSpace"/> <hfp:hasProperty name="ordered" value="false"/> <hfp:hasProperty name="bounded" value="false"/> <hfp:hasProperty name="cardinality" value="finite"/> <hfp:hasProperty name="numeric" value="false"/>
source	<pre>&lt;xs:simpleType name="boolean" id="boolean"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="finite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#boolean"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="boolean.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType byte**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:short</b>		
properties	base xs:short id byte		
facets	Kind Value Annotation minInclusive -128 maxInclusive 127		
source	<pre>&lt;xs:simpleType name="byte" id="byte"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#byte"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:short"&gt;     &lt;xs:minInclusive value="-128" id="byte.minInclusive"/&gt;     &lt;xs:maxInclusive value="127" id="byte.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>		

**simpleType date**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:anySimpleType</b>		
properties	base xs:anySimpleType id date		
facets	Kind Value Annotation whiteSpace collapse		
annotation	appinfo		

	<pre> &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>
source	<pre> &lt;xs:simpleType name="date" id="date"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="partial"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#date"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="date.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

### simpleType **dateTime**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:anySimpleType</b>		
properties	base xs:anySimpleType id dateTime		
facets	Kind Value Annotation whiteSpace collapse		
annotation	appinfo <pre> &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>		
source	<pre> &lt;xs:simpleType name="dateTime" id="dateTime"&gt;</pre>		

```

<xs:annotation>
  <xs:appinfo>
    <hfp:hasFacet name="pattern"/>
    <hfp:hasFacet name="enumeration"/>
    <hfp:hasFacet name="whiteSpace"/>
    <hfp:hasFacet name="maxInclusive"/>
    <hfp:hasFacet name="maxExclusive"/>
    <hfp:hasFacet name="minInclusive"/>
    <hfp:hasFacet name="minExclusive"/>
    <hfp:hasProperty name="ordered" value="partial"/>
    <hfp:hasProperty name="bounded" value="false"/>
    <hfp:hasProperty name="cardinality" value="countably infinite"/>
    <hfp:hasProperty name="numeric" value="false"/>
  </xs:appinfo>
  <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#dateTime"/>
</xs:annotation>
<xs:restriction base="xs:anySimpleType">
  <xs:whiteSpace value="collapse" fixed="true" id="dateTime.whiteSpace"/>
</xs:restriction>
</xs:simpleType>

```

### simpleType **decimal**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:anySimpleType</b>		
properties	base xs:anySimpleType id decimal		
facets	Kind Value Annotation whiteSpace collapse		
annotation	<p>appinfo</p> <hfp:hasFacet name="totalDigits"/> <hfp:hasFacet name="fractionDigits"/> <hfp:hasFacet name="pattern"/> <hfp:hasFacet name="whiteSpace"/> <hfp:hasFacet name="enumeration"/> <hfp:hasFacet name="maxInclusive"/> <hfp:hasFacet name="maxExclusive"/> <hfp:hasFacet name="minInclusive"/> <hfp:hasFacet name="minExclusive"/> <hfp:hasProperty name="ordered" value="total"/> <hfp:hasProperty name="bounded" value="false"/> <hfp:hasProperty name="cardinality" value="countably infinite"/> <hfp:hasProperty name="numeric" value="true"/>		
source	<xs:simpleType name="decimal" id="decimal">   <xs:annotation>     <xs:appinfo>       <hfp:hasFacet name="totalDigits"/>       <hfp:hasFacet name="fractionDigits"/>       <hfp:hasFacet name="pattern"/>       <hfp:hasFacet name="whiteSpace"/>       <hfp:hasFacet name="enumeration"/>       <hfp:hasFacet name="maxInclusive"/>       <hfp:hasFacet name="maxExclusive"/>       <hfp:hasFacet name="minInclusive"/>     </xs:appinfo>   </xs:annotation> </xs:simpleType>		

	<pre> &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="total"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="true"/&gt; &lt;/xs:appinfo&gt; &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#decimal"/&gt; &lt;/xs:annotation&gt; &lt;xs:restriction base="xs:anySimpleType"&gt;   &lt;xs:whiteSpace value="collapse" fixed="true" id="decimal.whiteSpace"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
--	---

### simpleType **derivationControl**

namespace	http://www.w3.org/2001/XMLSchema																				
type	restriction of <b>xs:NMTOKEN</b>																				
properties	base xs:NMTOKEN																				
used by	simpleTypes <a href="#">blockSet</a> <a href="#">reducedDerivationControl</a> <a href="#">simpleDerivationSet</a> <a href="#">typeDerivationControl</a>																				
facets	<table> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> <tr> <td>enumeration</td> <td>substitution</td> <td></td> </tr> <tr> <td>enumeration</td> <td>extension</td> <td></td> </tr> <tr> <td>enumeration</td> <td>restriction</td> <td></td> </tr> <tr> <td>enumeration</td> <td>list</td> <td></td> </tr> <tr> <td>enumeration</td> <td>union</td> <td></td> </tr> </table>			Kind	Value	Annotation	enumeration	substitution		enumeration	extension		enumeration	restriction		enumeration	list		enumeration	union	
Kind	Value	Annotation																			
enumeration	substitution																				
enumeration	extension																				
enumeration	restriction																				
enumeration	list																				
enumeration	union																				
annotation	<p>documentation</p> <p>A utility type, not for public use</p>																				
source	<pre> &lt;xs:simpleType name="derivationControl"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:NMTOKEN"&gt;     &lt;xs:enumeration value="substitution"/&gt;     &lt;xs:enumeration value="extension"/&gt;     &lt;xs:enumeration value="restriction"/&gt;     &lt;xs:enumeration value="list"/&gt;     &lt;xs:enumeration value="union"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>																				

### simpleType **derivationSet**

namespace	http://www.w3.org/2001/XMLSchema		
type	union of (restriction of <b>xs:token</b> , list of <a href="#">xs:reducedDerivationControl</a> )		
used by	attributes <a href="#">complexType/@block</a> <a href="#">complexType/@final</a> <a href="#">element/@final</a>		

annotation	<p>documentation</p> <p>A utility type, not for public use</p> <p>documentation</p> <p>#all or (possibly empty) subset of {extension, restriction}</p>
source	<pre>&lt;xs:simpleType name="derivationSet"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;       &lt;xs:documentation&gt;         #all or (possibly empty) subset of {extension, restriction}&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:union&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:token"&gt;           &lt;xs:enumeration value="#all"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;       &lt;xs:simpleType&gt;         &lt;xs:list itemType="xs:reducedDerivationControl"/&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:union&gt;   &lt;/xs:simpleType&gt;</pre>

### simpleType **double**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:anySimpleType</b>
properties	base xs:anySimpleType id double
facets	Kind Value Annotation whiteSpace collapse
annotation	<p>appinfo</p> <pre>&lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="total"/&gt; &lt;hfp:hasProperty name="bounded" value="true"/&gt; &lt;hfp:hasProperty name="cardinality" value="finite"/&gt; &lt;hfp:hasProperty name="numeric" value="true"/&gt;</pre>
source	<pre>&lt;xs:simpleType name="double" id="double"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;</pre>

	<pre> &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="total"/&gt; &lt;hfp:hasProperty name="bounded" value="true"/&gt; &lt;hfp:hasProperty name="cardinality" value="finite"/&gt; &lt;hfp:hasProperty name="numeric" value="true"/&gt; &lt;/xs:appinfo&gt; &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#double"/&gt; &lt;/xs:annotation&gt; &lt;xs:restriction base="xs:anySimpleType"&gt;   &lt;xs:whiteSpace value="collapse" fixed="true" id="double.whiteSpace"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
--	--

**simpleType duration**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:anySimpleType</b>		
properties	base xs:anySimpleType id duration		
facets	Kind	Value	Annotation
	whiteSpace	collapse	
annotation	appinfo <hfp:hasFacet name="pattern"/> <hfp:hasFacet name="enumeration"/> <hfp:hasFacet name="whiteSpace"/> <hfp:hasFacet name="maxInclusive"/> <hfp:hasFacet name="maxExclusive"/> <hfp:hasFacet name="minInclusive"/> <hfp:hasFacet name="minExclusive"/> <hfp:hasProperty name="ordered" value="partial"/> <hfp:hasProperty name="bounded" value="false"/> <hfp:hasProperty name="cardinality" value="countably infinite"/> <hfp:hasProperty name="numeric" value="false"/>		
source	<xs:simpleType name="duration" id="duration">   <xs:annotation>     <xs:appinfo>       <hfp:hasFacet name="pattern"/>       <hfp:hasFacet name="enumeration"/>       <hfp:hasFacet name="whiteSpace"/>       <hfp:hasFacet name="maxInclusive"/>       <hfp:hasFacet name="maxExclusive"/>       <hfp:hasFacet name="minInclusive"/>       <hfp:hasFacet name="minExclusive"/>       <hfp:hasProperty name="ordered" value="partial"/>       <hfp:hasProperty name="bounded" value="false"/>       <hfp:hasProperty name="cardinality" value="countably infinite"/>       <hfp:hasProperty name="numeric" value="false"/>     </xs:appinfo>     <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#duration"/>   </xs:annotation>   <xs:restriction base="xs:anySimpleType">     <xs:whiteSpace value="collapse" fixed="true" id="duration.whiteSpace"/>   </xs:restriction>		

	<code>&lt;/xs:simpleType&gt;</code>
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**simpleType ENTITIES**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of (list of <b>xs:ENTITY</b> )
properties	id ENTITIES
facets	Kind Value Annotation minLength 1
annotation	appinfo <hfp:hasFacet name="length"/> <hfp:hasFacet name="minLength"/> <hfp:hasFacet name="maxLength"/> <hfp:hasFacet name="enumeration"/> <hfp:hasFacet name="whiteSpace"/> <hfp:hasFacet name="pattern"/> <hfp:hasProperty name="ordered" value="false"/> <hfp:hasProperty name="bounded" value="false"/> <hfp:hasProperty name="cardinality" value="countably infinite"/> <hfp:hasProperty name="numeric" value="false"/>
source	<pre>&lt;xs:simpleType name="ENTITIES" id="ENTITIES"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#ENTITIES"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction&gt;     &lt;xs:simpleType&gt;       &lt;xs:list itemType="xs:ENTITY"/&gt;     &lt;/xs:simpleType&gt;     &lt;xs:minLength value="1" id="ENTITIES.minLength"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType ENTITY**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<b>xs:NCName</b>
properties	base xs:NCName id ENTITY

source	<pre>&lt;xs:simpleType name="ENTITY" id="ENTITY"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#ENTITY"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:NCName"/&gt; &lt;/xs:simpleType&gt;</pre>
--------	---

**simpleType float**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of xs:anySimpleType
properties	base xs:anySimpleType id float
facets	Kind Value Annotation whiteSpace collapse
annotation	appinfo <hfp:hasFacet name="pattern"/> <hfp:hasFacet name="enumeration"/> <hfp:hasFacet name="whiteSpace"/> <hfp:hasFacet name="maxInclusive"/> <hfp:hasFacet name="maxExclusive"/> <hfp:hasFacet name="minInclusive"/> <hfp:hasFacet name="minExclusive"/> <hfp:hasProperty name="ordered" value="total"/> <hfp:hasProperty name="bounded" value="true"/> <hfp:hasProperty name="cardinality" value="finite"/> <hfp:hasProperty name="numeric" value="true"/>
source	<pre>&lt;xs:simpleType name="float" id="float"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="total"/&gt;       &lt;hfp:hasProperty name="bounded" value="true"/&gt;       &lt;hfp:hasProperty name="cardinality" value="finite"/&gt;       &lt;hfp:hasProperty name="numeric" value="true"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#float"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="float.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType formChoice**

namespace	http://www.w3.org/2001/XMLSchema
-----------	----------------------------------

type	restriction of <b>xs:NMTOKEN</b>
properties	base <b>xs:NMTOKEN</b>
used by	attributes <b>schema/@attributeFormDefault schema/@elementFormDefault attribute/@form element/@form</b>
facets	Kind Value Annotation enumeration qualified enumeration unqualified
annotation	documentation  A utility type, not for public use
source	<pre>&lt;xs:simpleType name="formChoice"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:restriction base="xs:NMTOKEN"&gt;       &lt;xs:enumeration value="qualified"/&gt;       &lt;xs:enumeration value="unqualified"/&gt;     &lt;/xs:restriction&gt;   &lt;/xs:simpleType&gt;</pre>

**simpleType fullDerivationSet**

namespace	http://www.w3.org/2001/XMLSchema
type	union of (restriction of <b>xs:token</b> , list of <b>xs:typeDerivationControl</b> )
used by	attribute <b>schema/@finalDefault</b>
annotation	documentation  A utility type, not for public use documentation  #all or (possibly empty) subset of {extension, restriction, list, union}
source	<pre>&lt;xs:simpleType name="fullDerivationSet"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;     &lt;xs:documentation&gt;       #all or (possibly empty) subset of {extension, restriction, list,       union}&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:union&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:token"&gt;           &lt;xs:enumeration value="#all"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;       &lt;xs:simpleType&gt;         &lt;xs:list itemType="xs:typeDerivationControl"/&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:union&gt;   &lt;/xs:simpleType&gt;</pre>

**simpleType gDay**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:anySimpleType</b>		
properties	base xs:anySimpleType id gDay		
facets	Kind whiteSpace	Value collapse	Annotation
annotation	<p>appinfo</p> <pre>&lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>		
source	<pre>&lt;xs:simpleType name="gDay" id="gDay"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="partial"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#gDay"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="gDay.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>		

**simpleType gMonth**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:anySimpleType</b>		
properties	base xs:anySimpleType id gMonth		
facets	Kind whiteSpace	Value collapse	Annotation

annotation	<pre> appinfo &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>
source	<pre> &lt;xs:simpleType name="gMonth" id="gMonth"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="partial"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#gMonth"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="gMonth.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

### simpleType gMonthDay

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of xs:anySimpleType		
properties	base xs:anySimpleType id gMonthDay		
facets	Kind Value Annotation whiteSpace collapse		
annotation	<pre> appinfo &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>		

source	<pre> &lt;xs:simpleType name="gMonthDay" id="gMonthDay"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="partial"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#gMonthDay"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="gMonthDay.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
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### simpleType **gYear**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:anySimpleType</b>
properties	base xs:anySimpleType id gYear
facets	Kind Value Annotation whiteSpace collapse
annotation	<p>appinfo</p> <pre> &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt; </pre>
source	<pre> &lt;xs:simpleType name="gYear" id="gYear"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="partial"/&gt; </pre>

	<pre> &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt; &lt;/xs:appinfo&gt; &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#gYear"/&gt; &lt;/xs:annotation&gt; &lt;xs:restriction base="xs:anySimpleType"&gt;   &lt;xs:whiteSpace value="collapse" fixed="true" id="gYear.whiteSpace"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
--	--

### simpleType gYearMonth

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of xs:anySimpleType
properties	base xs:anySimpleType id gYearMonth
facets	Kind Value Annotation whiteSpace collapse
annotation	<p>appinfo</p> <pre> &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt; </pre>
source	<pre> &lt;xs:simpleType name="gYearMonth" id="gYearMonth"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="partial"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#gYearMonth"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="gYearMonth.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

**simpleType hexBinary**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of <b>xs:anySimpleType</b>
properties	base xs:anySimpleType id hexBinary
facets	Kind Value Annotation whiteSpace collapse
annotation	<pre> &lt;appinfo&gt;   &lt;hfp:hasFacet name="length"/&gt;   &lt;hfp:hasFacet name="minLength"/&gt;   &lt;hfp:hasFacet name="maxLength"/&gt;   &lt;hfp:hasFacet name="pattern"/&gt;   &lt;hfp:hasFacet name="enumeration"/&gt;   &lt;hfp:hasFacet name="whiteSpace"/&gt;   &lt;hfp:hasProperty name="ordered" value="false"/&gt;   &lt;hfp:hasProperty name="bounded" value="false"/&gt;   &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;   &lt;hfp:hasProperty name="numeric" value="false"/&gt; </pre>
source	<pre> &lt;xs:simpleType name="hexBinary" id="hexBinary"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#binary"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="hexBinary.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

**simpleType ID**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<b>xs:NCName</b>
properties	base xs:NCName id ID
source	<pre> &lt;xs:simpleType name="ID" id="ID"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#ID"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:NCName"/&gt; </pre>

	<code>&lt;/xs:simpleType&gt;</code>
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**simpleType IDREF**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	<b>xs:NCName</b>
properties	base xs:NCName id IDREF
source	<pre>&lt;xs:simpleType name="IDREF" id="IDREF"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#IDREF"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:NCName"/&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType IDREFS**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of (list of <b>xs:IDREF</b> )
properties	id IDREFS
facets	Kind Value Annotation minLength 1
annotation	<p>appinfo</p> <pre>&lt;hfp:hasFacet name="length"/&gt; &lt;hfp:hasFacet name="minLength"/&gt; &lt;hfp:hasFacet name="maxLength"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasProperty name="ordered" value="false"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>
source	<pre>&lt;xs:simpleType name="IDREFS" id="IDREFS"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#IDREFS"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction&gt;</pre>

	<pre> &lt;xs:simpleType&gt;   &lt;xs:list itemType="xs:IDREF"/&gt; &lt;/xs:simpleType&gt; &lt;xs:minLength value="1" id="IDREFS.minLength"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
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**simpleType int**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of xs:long
properties	base xs:long id int
facets	Kind Value Annotation minInclusive -2147483648 maxInclusive 2147483647
source	<pre> &lt;xs:simpleType name="int" id="int"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#int"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:long"&gt;     &lt;xs:minInclusive value="-2147483648" id="int.minInclusive"/&gt;     &lt;xs:maxInclusive value="2147483647" id="int.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

**simpleType integer**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of xs:decimal
properties	base xs:decimal id integer
facets	Kind Value Annotation fractionDigits 0 pattern [-+]?[0-9]+
source	<pre> &lt;xs:simpleType name="integer" id="integer"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#integer"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:decimal"&gt;     &lt;xs:fractionDigits value="0" fixed="true" id="integer.fractionDigits"/&gt;     &lt;xs:pattern value="[-+]?[0-9]+"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

**simpleType language**

namespace	http://www.w3.org/2001/XMLSchema
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type	restriction of <b>xs:token</b>		
properties	base xs:token id language		
facets	Kind Value pattern [a-zA-Z]{1,8}(-[a-zA-Z0-9]{1,8})*	Annotation documentation	pattern specifies the content of section 2.12 of XML 1.0e2 and RFC 3066 (Revised version of RFC 1766).
source	<pre>&lt;xs:simpleType name="language" id="language"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#language"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:pattern value="[a-zA-Z]{1,8}(-[a-zA-Z0-9]{1,8})*" id="language.pattern"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation source="http://www.ietf.org/rfc/rfc3066.txt"&gt;           pattern specifies the content of section 2.12 of XML 1.0e2 and RFC 3066 (Revised version of RFC 1766).         &lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:pattern&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>		

**simpleType long**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:integer</b>		
properties	base xs:integer id long		
facets	Kind Value minInclusive -9223372036854775808 maxInclusive 9223372036854775807	Annotation	
annotation	appinfo <hfp:hasProperty name="bounded" value="true"/> <hfp:hasProperty name="cardinality" value="finite"/>		
source	<pre>&lt;xs:simpleType name="long" id="long"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasProperty name="bounded" value="true"/&gt;       &lt;hfp:hasProperty name="cardinality" value="finite"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#long"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:integer"&gt;     &lt;xs:minInclusive value="-9223372036854775808" id="long.minInclusive"/&gt;     &lt;xs:maxInclusive value="9223372036854775807" id="long.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>		

**simpleType Name**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of <b>xs:token</b>
properties	base xs:token id Name
facets	Kind Value Annotation pattern \i\c* documentation  pattern matches production 5 from the XML spec
source	<pre>&lt;xs:simpleType name="Name" id="Name"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#Name"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:pattern value="\i\c*" id="Name.pattern"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation source="http://www.w3.org/TR/REC-xml#NT-Name"&gt;           pattern matches production 5 from the XML spec         &lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:pattern&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType namespaceList**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	union of (restriction of <b>xs:token</b> , list of (union of ( <b>xs:anyURI</b> , restriction of <b>xs:token</b> )))
used by	attribute <a href="#">wildcard/@namespace</a>
annotation	documentation  A utility type, not for public use
source	<pre>&lt;xs:simpleType name="namespaceList"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:union&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:token"&gt;           &lt;xs:enumeration value="#any"/&gt;           &lt;xs:enumeration value="#other"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;       &lt;xs:simpleType&gt;         &lt;xs:list&gt;           &lt;xs:simpleType&gt;             &lt;xs:union memberTypes="xs:anyURI"/&gt;           &lt;/xs:simpleType&gt;         &lt;/xs:list&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:union&gt;   &lt;/xs:annotation&gt; &lt;/xs:simpleType&gt;</pre>

	<pre> &lt;xs:simpleType&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:enumeration value="#targetNamespace"/&gt;     &lt;xs:enumeration value="#local"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; &lt;/xs:union&gt; &lt;/xs:simpleType&gt; &lt;/xs:list&gt; &lt;/xs:simpleType&gt; &lt;/xs:union&gt; &lt;/xs:simpleType&gt; </pre>
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### simpleType NCName

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:Name</b>		
properties	base xs:Name id NCName		
facets	Kind Value Annotation pattern [i-[:]][c-:]* documentation  pattern matches production 4 from the Namespaces in XML spec		
source	<pre> &lt;xs:simpleType name="NCName" id="NCName"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#NCName"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:Name"&gt;     &lt;xs:pattern value="[\i-[:]][\c-:]*" id="NCName.pattern"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation source="http://www.w3.org/TR/REC-xml-names/#NT-NCName"&gt;           pattern matches production 4 from the Namespaces in XML spec         &lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:pattern&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>		

### simpleType negativeInteger

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:nonPositiveInteger</b>		
properties	base xs:nonPositiveInteger id negativeInteger		
facets	Kind Value Annotation maxInclusive -1		
source	<pre> &lt;xs:simpleType name="negativeInteger" id="negativeInteger"&gt;   &lt;xs:annotation&gt; </pre>		

	<pre> &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#negativeInteger"/&gt; &lt;/xs:annotation&gt; &lt;xs:restriction base="xs:nonPositiveInteger"&gt;   &lt;xs:maxInclusive value="-1" id="negativeInteger.maxInclusive"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
--	---

**simpleType NMOKEN**

namespace	http://www.w3.org/2001/XMLSchema						
type	restriction of <b>xs:token</b>						
properties	base xs:token id NMOKEN						
facets	<table> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>pattern</td> <td>\c+</td> <td>documentation</td> </tr> </table> <p style="text-align: right;">pattern matches production 7 from the XML spec</p>	Kind	Value	Annotation	pattern	\c+	documentation
Kind	Value	Annotation					
pattern	\c+	documentation					
source	<pre> &lt;xs:simpleType name="NMOKEN" id="NMOKEN"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#NMOKEN"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:pattern value="\c+" id="NMOKEN.pattern"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation source="http://www.w3.org/TR/REC-xml#NT-Nmtoken"&gt;           pattern matches production 7 from the XML spec         &lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:pattern&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

**simpleType NMOKENS**

namespace	http://www.w3.org/2001/XMLSchema						
type	restriction of (list of <b>xs:NMOKEN</b> )						
properties	id NMOKENS						
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	<p>appinfo</p> <pre> &lt;hfp:hasFacet name="length"/&gt; &lt;hfp:hasFacet name="minLength"/&gt; &lt;hfp:hasFacet name="maxLength"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasProperty name="ordered" value="false"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; </pre>						

	<hfp:hasProperty name="numeric" value="false"/>
source	<pre> &lt;xs:simpleType name="NMOKENS" id="NMOKENS"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#NMOKENS"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction&gt;     &lt;xs:simpleType&gt;       &lt;xs:list itemType="xs:NMTOKEN"/&gt;     &lt;/xs:simpleType&gt;     &lt;xs:minLength value="1" id="NMOKENS.minLength"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

**simpleType nonNegativeInteger**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:integer</b>
properties	base xs:integer id nonNegativeInteger
facets	Kind Value Annotation minInclusive 0
source	<pre> &lt;xs:simpleType name="nonNegativeInteger" id="nonNegativeInteger"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#nonNegativeInteger"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:integer"&gt;     &lt;xs:minInclusive value="0" id="nonNegativeInteger.minInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

**simpleType nonPositiveInteger**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:integer</b>
properties	base xs:integer id nonPositiveInteger

facets	Kind maxInclusive Value 0 Annotation
source	<pre>&lt;xs:simpleType name="nonPositiveInteger" id="nonPositiveInteger"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#nonPositiveInteger"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:integer"&gt;     &lt;xs:maxInclusive value="0" id="nonPositiveInteger.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType normalizedString**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of xs:string
properties	base xs:string id normalizedString
facets	Kind whiteSpace Value replace Annotation
source	<pre>&lt;xs:simpleType name="normalizedString" id="normalizedString"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation       source="http://www.w3.org/TR/xmlschema-2/#normalizedString"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:whiteSpace value="replace" id="normalizedString.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType NOTATION**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of xs:anySimpleType
properties	base xs:anySimpleType id NOTATION
facets	Kind whiteSpace Value collapse Annotation
annotation	<p>appinfo</p> <pre>&lt;hfp:hasFacet name="length"/&gt; &lt;hfp:hasFacet name="minLength"/&gt; &lt;hfp:hasFacet name="maxLength"/&gt; &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasProperty name="ordered" value="false"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre> <p>documentation</p>

	NOTATION cannot be used directly in a schema; rather a type must be derived from it by specifying at least one enumeration facet whose value is the name of a NOTATION declared in the schema.
source	<pre> &lt;xs:simpleType name="NOTATION" id="NOTATION"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#NOTATION"/&gt;     &lt;xs:documentation&gt;       NOTATION cannot be used directly in a schema; rather a type must be derived from it by specifying at least one enumeration facet whose value is the name of a NOTATION declared in the schema.     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="NOTATION.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

### simpleType **positiveInteger**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of <b>xs:nonNegativeInteger</b>		
properties	base xs:nonNegativeInteger id positiveInteger		
facets	Kind Value Annotation minInclusive 1		
source	<pre> &lt;xs:simpleType name="positiveInteger" id="positiveInteger"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       source="http://www.w3.org/TR/xmlschema-2/#positiveInteger"/&gt;     &lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:nonNegativeInteger"&gt;     &lt;xs:minInclusive value="1" id="positiveInteger.minInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>		

**simpleType public**

namespace	http://www.w3.org/2001/XMLSchema
type	<b>xs:token</b>
properties	base xs:token
used by	attribute <a href="#">notation/@public</a>
annotation	<p>documentation</p> <p>A utility type, not for public use</p> <p>documentation</p> <p>A public identifier, per ISO 8879</p>
source	<pre>&lt;xs:simpleType name="public"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;       &lt;xs:documentation&gt;         A public identifier, per ISO 8879&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:restriction base="xs:token"/&gt;   &lt;/xs:simpleType&gt;</pre>

**simpleType QName**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:anySimpleType</b>
properties	base xs:anySimpleType id QName
facets	Kind Value Annotation whiteSpace collapse
annotation	<p>appinfo</p> <p>&lt;hfp:hasFacet name="length"/&gt;</p> <p>&lt;hfp:hasFacet name="minLength"/&gt;</p> <p>&lt;hfp:hasFacet name="maxLength"/&gt;</p> <p>&lt;hfp:hasFacet name="pattern"/&gt;</p> <p>&lt;hfp:hasFacet name="enumeration"/&gt;</p> <p>&lt;hfp:hasFacet name="whiteSpace"/&gt;</p> <p>&lt;hfp:hasProperty name="ordered" value="false"/&gt;</p> <p>&lt;hfp:hasProperty name="bounded" value="false"/&gt;</p> <p>&lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;</p> <p>&lt;hfp:hasProperty name="numeric" value="false"/&gt;</p>
source	<pre>&lt;xs:simpleType name="QName" id="QName"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;</pre>

	<pre> &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt; &lt;/xs:appinfo&gt; &lt;xsd:documentation source="http://www.w3.org/TR/xmlschema-2/#QName"/&gt; &lt;/xs:annotation&gt; &lt;xsd:restriction base="xsd:anySimpleType"&gt;   &lt;xsd:whiteSpace value="collapse" fixed="true" id="QName.whiteSpace"/&gt; &lt;/xsd:restriction&gt; &lt;/xsd:simpleType&gt; </pre>
--	--

### simpleType **reducedDerivationControl**

namespace	http://www.w3.org/2001/XMLSchema											
type	restriction of <a href="#">xs:derivationControl</a>											
properties	base xs:derivationControl											
used by	simpleType <a href="#">derivationSet</a>											
facets	<table> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>extension</td> <td></td> </tr> <tr> <td>enumeration</td> <td>restriction</td> <td></td> </tr> </tbody> </table>			Kind	Value	Annotation	enumeration	extension		enumeration	restriction	
Kind	Value	Annotation										
enumeration	extension											
enumeration	restriction											
annotation	<p>documentation</p> <p>A utility type, not for public use</p>											
source	<pre> &lt;xsd:simpleType name="reducedDerivationControl"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation&gt;       A utility type, not for public use&lt;/xsd:documentation&gt;     &lt;/xsd:annotation&gt;     &lt;xsd:restriction base="xsd:derivationControl"&gt;       &lt;xsd:enumeration value="extension"/&gt;       &lt;xsd:enumeration value="restriction"/&gt;     &lt;/xsd:restriction&gt;   &lt;/xsd:simpleType&gt; </pre>											

### simpleType **short**

namespace	http://www.w3.org/2001/XMLSchema											
type	restriction of <a href="#">xs:int</a>											
properties	base xs:int id short											
facets	<table> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minInclusive</td> <td>-32768</td> <td></td> </tr> <tr> <td>maxInclusive</td> <td>32767</td> <td></td> </tr> </tbody> </table>			Kind	Value	Annotation	minInclusive	-32768		maxInclusive	32767	
Kind	Value	Annotation										
minInclusive	-32768											
maxInclusive	32767											
source	<pre> &lt;xsd:simpleType name="short" id="short"&gt;   &lt;xsd:annotation&gt;     &lt;xsd:documentation source="http://www.w3.org/TR/xmlschema-2/#short"/&gt;   &lt;/xsd:annotation&gt;   &lt;xsd:restriction base="xsd:int"&gt;     &lt;xsd:minInclusive value="-32768" id="short.minInclusive"/&gt;   &lt;/xsd:restriction&gt; </pre>											

	<pre>&lt;xs:maxInclusive value="32767" id="short.maxInclusive"/&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>
--	--

### simpleType **simpleDerivationSet**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	union of (restriction of <b>xs:token</b> , list of (restriction of <b>xs:derivationControl</b> ))
used by	attribute <b>simpleType/@final</b>
annotation	<p>documentation</p> <p>#all or (possibly empty) subset of {restriction, union, list}</p> <p>documentation</p> <p>A utility type, not for public use</p>
source	<pre>&lt;xs:simpleType name="simpleDerivationSet"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       #all or (possibly empty) subset of {restriction, union, list}     &lt;/xs:documentation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;xs:union&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:token"&gt;         &lt;xs:enumeration value="#all"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;     &lt;xs:simpleType&gt;       &lt;xs:list&gt;         &lt;xs:simpleType&gt;           &lt;xs:restriction base="xs:derivationControl"&gt;             &lt;xs:enumeration value="list"/&gt;             &lt;xs:enumeration value="union"/&gt;             &lt;xs:enumeration value="restriction"/&gt;           &lt;/xs:restriction&gt;         &lt;/xs:simpleType&gt;       &lt;/xs:list&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:union&gt; &lt;/xs:simpleType&gt;</pre>

### simpleType **string**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>
type	restriction of <b>xs:anySimpleType</b>
properties	<p>base xs:anySimpleType</p> <p>id string</p>

facets	Kind whiteSpace	Value preserve	Annotation
annotation		<pre>appinfo &lt;hfp:hasFacet name="length"/&gt; &lt;hfp:hasFacet name="minLength"/&gt; &lt;hfp:hasFacet name="maxLength"/&gt; &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasProperty name="ordered" value="false"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>	
source		<pre>&lt;xs:simpleType name="string" id="string"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="length"/&gt;       &lt;hfp:hasFacet name="minLength"/&gt;       &lt;hfp:hasFacet name="maxLength"/&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasProperty name="ordered" value="false"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#string"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="preserve" id="string.preserve"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>	

**simpleType time**

namespace	http://www.w3.org/2001/XMLSchema		
type	restriction of xs:anySimpleType		
properties	base xs:anySimpleType id time		
facets	Kind whiteSpace	Value collapse	Annotation
annotation		<pre>appinfo &lt;hfp:hasFacet name="pattern"/&gt; &lt;hfp:hasFacet name="enumeration"/&gt; &lt;hfp:hasFacet name="whiteSpace"/&gt; &lt;hfp:hasFacet name="maxInclusive"/&gt; &lt;hfp:hasFacet name="maxExclusive"/&gt; &lt;hfp:hasFacet name="minInclusive"/&gt; &lt;hfp:hasFacet name="minExclusive"/&gt; &lt;hfp:hasProperty name="ordered" value="partial"/&gt; &lt;hfp:hasProperty name="bounded" value="false"/&gt; &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt; &lt;hfp:hasProperty name="numeric" value="false"/&gt;</pre>	

source	<pre> &lt;xs:simpleType name="time" id="time"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasFacet name="pattern"/&gt;       &lt;hfp:hasFacet name="enumeration"/&gt;       &lt;hfp:hasFacet name="whiteSpace"/&gt;       &lt;hfp:hasFacet name="maxInclusive"/&gt;       &lt;hfp:hasFacet name="maxExclusive"/&gt;       &lt;hfp:hasFacet name="minInclusive"/&gt;       &lt;hfp:hasFacet name="minExclusive"/&gt;       &lt;hfp:hasProperty name="ordered" value="partial"/&gt;       &lt;hfp:hasProperty name="bounded" value="false"/&gt;       &lt;hfp:hasProperty name="cardinality" value="countably infinite"/&gt;       &lt;hfp:hasProperty name="numeric" value="false"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#time"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:anySimpleType"&gt;     &lt;xs:whiteSpace value="collapse" fixed="true" id="time.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
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### simpleType **token**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:normalizedString</b>
properties	base xs:normalizedString id token
facets	Kind Value Annotation whiteSpace collapse
source	<pre> &lt;xs:simpleType name="token" id="token"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#token"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:normalizedString"&gt;     &lt;xs:whiteSpace value="collapse" id="token.whiteSpace"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

### simpleType **typeDerivationControl**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <b>xs:derivationControl</b>
properties	base xs:derivationControl
used by	simpleType <b>fullDerivationSet</b>
facets	Kind Value Annotation enumeration extension enumeration restriction

	enumeration list enumeration union
annotation	documentation  A utility type, not for public use
source	<pre>&lt;xs:simpleType name="typeDerivationControl"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       A utility type, not for public use&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:derivationControl"&gt;     &lt;xs:enumeration value="extension"/&gt;     &lt;xs:enumeration value="restriction"/&gt;     &lt;xs:enumeration value="list"/&gt;     &lt;xs:enumeration value="union"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType `unsignedByte`**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <code>xs:unsignedShort</code>
properties	base xs:unsignedShort id unsignedByte
facets	Kind Value Annotation maxInclusive 255
source	<pre>&lt;xs:simpleType name="unsignedByte" id="unsignedByte"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedByte"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:unsignedShort"&gt;     &lt;xs:maxInclusive value="255" id="unsignedByte.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType `unsignedInt`**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <code>xs:unsignedLong</code>
properties	base xs:unsignedLong id unsignedInt
facets	Kind Value Annotation maxInclusive 4294967295
source	<pre>&lt;xs:simpleType name="unsignedInt" id="unsignedInt"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedInt"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:unsignedLong"&gt;     &lt;xs:maxInclusive value="4294967295" id="unsignedInt.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

	<pre>&lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>
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**simpleType `unsignedLong`**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <code>xs:nonNegativeInteger</code>
properties	base xs:nonNegativeInteger id unsignedLong
facets	Kind Value Annotation maxInclusive 18446744073709551615
annotation	appinfo <hfp:hasProperty name="bounded" value="true"/> <hfp:hasProperty name="cardinality" value="finite"/>
source	<pre>&lt;xs:simpleType name="unsignedLong" id="unsignedLong"&gt;   &lt;xs:annotation&gt;     &lt;xs:appinfo&gt;       &lt;hfp:hasProperty name="bounded" value="true"/&gt;       &lt;hfp:hasProperty name="cardinality" value="finite"/&gt;     &lt;/xs:appinfo&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedLong"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:nonNegativeInteger"&gt;     &lt;xs:maxInclusive value="18446744073709551615"       id="unsignedLong.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**simpleType `unsignedShort`**

namespace	http://www.w3.org/2001/XMLSchema
type	restriction of <code>xs:unsignedInt</code>
properties	base xs:unsignedInt id unsignedShort
facets	Kind Value Annotation maxInclusive 65535
source	<pre>&lt;xs:simpleType name="unsignedShort" id="unsignedShort"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedShort"/&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:unsignedInt"&gt;     &lt;xs:maxInclusive value="65535" id="unsignedShort.maxInclusive"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>

**attributeGroup `defRef`**

namespace	http://www.w3.org/2001/XMLSchema
-----------	----------------------------------

used by	complexTypes <a href="#">attribute attributeGroup element group</a>
attributes	Name Type Use Default Fixed Annotation <u><a href="#">name</a></u> <u><a href="#">xs:NCName</a></u> <u><a href="#">ref</a></u> <u><a href="#">xs:QName</a></u>
annotation	documentation  for element, group and attributeGroup, which both define and reference
source	<pre>&lt;xs:attributeGroup name="defRef"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       for element, group and attributeGroup,       which both define and reference&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:attribute name="name" type="xs:NCName"/&gt;     &lt;xs:attribute name="ref" type="xs:QName"/&gt;   &lt;/xs:attributeGroup&gt;</pre>

**attribute defRef/@name**

type	<u><a href="#">xs:NCName</a></u>
source	<pre>&lt;xs:attribute name="name" type="xs:NCName"/&gt;</pre>

**attribute defRef/@ref**

type	<u><a href="#">xs:QName</a></u>
source	<pre>&lt;xs:attribute name="ref" type="xs:QName"/&gt;</pre>

**attributeGroup occurs**

namespace	<a href="http://www.w3.org/2001/XMLSchema">http://www.w3.org/2001/XMLSchema</a>										
used by	element <u><a href="#">any</a></u> complexTypes <u><a href="#">element group</a></u>										
attributes	Name <u><a href="#">minOccurs</a></u> Type <u><a href="#">xs:nonNegativeInteger</a></u> Use optional Default 1 Fixed Annotation <u><a href="#">maxOccurs</a></u> <u><a href="#">xs:allNNI</a></u> optional 1										
annotation	documentation  for all particles										
source	<pre>&lt;xs:attributeGroup name="occurs"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;       for all particles&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;     &lt;xs:attribute name="minOccurs" type="xs:nonNegativeInteger" use="optional"       default="1"/&gt;     &lt;xs:attribute name="maxOccurs" type="xs:allNNI" use="optional" default="1"/&gt;   &lt;/xs:attributeGroup&gt;</pre>										

**attribute occurs/@minOccurs**

type	<b>xs:nonNegativeInteger</b>
properties	use optional default 1
source	<xs:attribute name="minOccurs" type="xs:nonNegativeInteger" use="optional" default="1"/>

**attribute occurs/@maxOccurs**

type	<b>xs:allNNI</b>
properties	use optional default 1
source	<xs:attribute name="maxOccurs" type="xs:allNNI" use="optional" default="1"/>

**notation XML**

namespace	http://www.w3.org/2001/XMLSchema
properties	public REC-xml-19980210 system http://www.w3.org/TR/1998/REC-xml-19980210
source	<xs:notation name="XML" public="REC-xml-19980210" system="http://www.w3.org/TR/1998/REC-xml-19980210"/>

**notation XMLSchemaStructures**

namespace	http://www.w3.org/2001/XMLSchema
properties	public structures system http://www.w3.org/2000/08/XMLSchema.xsd
source	<xs:notation name="XMLSchemaStructures" public="structures" system="http://www.w3.org/2000/08/XMLSchema.xsd"/>

**attribute nil**

namespace	http://www.w3.org/2001/XMLSchema-instance
source	<xs:attribute name="nil"/>

**attribute noNamespaceSchemaLocation**

namespace	http://www.w3.org/2001/XMLSchema-instance
source	<xs:attribute name="noNamespaceSchemaLocation"/>

**attribute schemaLocation**

namespace	<a href="http://www.w3.org/2001/XMLSchema-instance">http://www.w3.org/2001/XMLSchema-instance</a>
source	<code>&lt;xs:attribute name="schemaLocation"/&gt;</code>

**attribute type**

namespace	<a href="http://www.w3.org/2001/XMLSchema-instance">http://www.w3.org/2001/XMLSchema-instance</a>
source	<code>&lt;xs:attribute name="type"/&gt;</code>