XML Schema for XML Schemas

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Namespace Summary

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

Schemas (1): XMLSchema.xsd
Components: elements (41 global + 28 local), complexTypes (35), simpleTypes (55), element groups (12), attribute groups (2)

http://www.w3.org/XML/1998/namespace

Schemas (1): xml.xsd
Components: attribute groups (1), global attributes (4)

Schema Summary		Page
xml.xsd	About the XML namespace This schema document describes the XML namespace, in a form suitable for import by other schema documents. **Target Namespace:** `http://www.w3.org/XML/1998/namespace` **Defined Components:** attribute groups (1), global attributes (4) **Default Namespace-Qualified Form:** Local Elements: unqualified; Local Attributes: unqualified **Schema Location:** http://www.w3.org/2001/xml.xsd **Imported by Schemas (1):** XMLSchema.xsd	*377*
XMLSchema.xsd	Part 1 version: Id: structures.xsd,v 1.2 2004/01/15 11:34:25 ht Exp Part 2 version: Id: datatypes.xsd,v 1.3 2004/01/23 18:11:13 ht Exp **Target Namespace:** `http://www.w3.org/2001/XMLSchema` **Version:** 1.0 **Defined Components:** elements (41 global + 28 local), complexTypes (35), simpleTypes (55), element groups (12), attribute groups (2) **Default Namespace-Qualified Form:** Local Elements: qualified; Local Attributes: unqualified **Default Block Attribute:** `"#all"` *(blocks all substitutions of elements and their types both through substitution groups and xsi:type attribute in instance XML documents)* **Schema Location:** http://www.w3.org/2001/XMLSchema.xsd **Imports Schemas (1):** xml.xsd	*379*

All Component Summary

Components:

elements (top-level / other; 41 global + 28 local), complexTypes (35), simpleTypes (55), element groups (12), attribute groups (3), global attributes (4)

Top-Level Element Summary (root element candidates)		Page
xs:schema	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:openAttrs) [18] **Content:** complex, 8 attributes, attr. wildcard, 12 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [18] **Includes:** definitions of 8 attributes, 5 elements **Used:** never	17

All Other Element Summary (local elements unified by type)		Page
xs:all	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:all [159] **Content:** complex, 3 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [23] **Used:** at 3 locations	22
xs:all (in xs:group)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (restriction of xs:all) [26] **Content:** complex, 1 attribute, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:namedGroup complexType [223] in XMLSchema.xsd; see XML source [26] **Includes:** definition of attr. wildcard; 2 attr. prohibitions	25
xs:annotation	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:openAttrs) [28] **Content:** complex, 1 attribute, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [28] **Includes:** definitions of 1 attribute, 2 elements **Used:** at 28 locations	27
xs:any	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:wildcard) [31] **Content:** complex, 5 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [31] **Used:** at 2 locations	30
xs:anyAttribute	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:wildcard [269] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [34] **Used:** at 1 location	33
xs:appinfo	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType **Content:** mixed *(allows character data)*, 1 attribute, attr. wildcard, elem. wildcard **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [35] **Includes:** definitions of 1 attribute, attr. wildcard, elem. wildcard **Used:** at 1 location	35
xs:attribute	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:topLevelAttribute [255] **Content:** complex, 5 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [38] **Used:** at 1 location	37

xs:attribute (type xs:attribute)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:attribute [167] **Content:** complex, 8 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:attrDecls group [344] in XMLSchema.xsd; see XML source [40]	*39*
xs:attributeGroup	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:namedAttributeGroup [218] **Content:** complex, 2 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [43] **Used:** at 1 location	*42*
xs:attributeGroup (type xs:attributeGroupRef)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:attributeGroupRef [174] **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:attrDecls group [344] in XMLSchema.xsd; see XML source [44]	*44*
xs:choice	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:explicitGroup [188] **Content:** complex, 3 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [47] **Used:** at 4 locations	*46*
xs:choice (in xs:group)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:simpleExplicitGroup [242] **Content:** complex, 1 attribute, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:namedGroup complexType [223] in XMLSchema.xsd; see XML source [49]	*49*
xs:complexContent	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [52] **Content:** complex, 2 attributes, attr. wildcard, 3 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [52] **Includes:** definitions of 1 attribute, 2 elements **Used:** at 1 location	*51*
xs:complexType	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:topLevelComplexType [258] **Content:** complex, 6 attributes, attr. wildcard, 10 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [55] **Used:** at 1 location	*54*
xs:complexType (type xs:localComplexType)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:localComplexType [206] **Content:** complex, 2 attributes, attr. wildcard, 10 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally at 4 locations in XMLSchema.xsd	*58*
xs:documentation	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType **Content:** mixed *(allows character data)*, 2 attributes, attr. wildcard, elem. wildcard **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [61] **Includes:** definitions of 2 attributes, attr. wildcard, elem. wildcard **Used:** at 1 location	*61*
xs:element	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:topLevelElement [262] **Content:** complex, 10 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [64] **Used:** at 1 location	*63*

xs:element (type xs:localElement)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:localElement [210] **Content:** complex, 11 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally at 2 locations in XMLSchema.xsd	*67*
xs:element (type xs:narrowMaxMin)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:narrowMaxMin [224] **Content:** complex, 11 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:allModel group [343] in XMLSchema.xsd; see XML source [72]	*71*
xs:enumeration	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:noFixedFacet [229] **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [75] **Used:** at 1 location	*75*
xs:extension (in xs:complexContent)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:extensionType [192] **Content:** complex, 2 attributes, attr. wildcard, 8 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:complexContent element [52] in XMLSchema.xsd; see XML source [78]	*77*
xs:extension (in xs:simpleContent)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:simpleExtensionType [245] **Content:** complex, 2 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:simpleContent element [144] in XMLSchema.xsd; see XML source [80]	*80*
xs:field	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [83] **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [83] **Includes:** definition of 1 attribute **Used:** at 1 location	*82*
xs:fractionDigits	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:numFacet [231] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [85] **Used:** at 1 location	*85*
xs:group	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:namedGroup [221] **Content:** complex, 2 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [88] **Used:** at 1 location	*87*
xs:group (type xs:groupRef)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:groupRef [201] **Content:** complex, 4 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally at 3 locations in XMLSchema.xsd	*89*
xs:import	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [92] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [92] **Includes:** definitions of 2 attributes **Used:** at 1 location	*91*

xs:include	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [94] **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [94] **Includes:** definition of 1 attribute **Used:** at 1 location	*93*
xs:key	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:keybase [204] **Content:** complex, 2 attributes, attr. wildcard, 3 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [95] **Used:** at 1 location	*95*
xs:keyref	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:keybase) [98] **Content:** complex, 3 attributes, attr. wildcard, 3 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [98] **Includes:** definition of 1 attribute **Used:** at 1 location	*97*
xs:length	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:numFacet [231] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [100] **Used:** at 1 location	*100*
xs:list	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [103] **Content:** complex, 2 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [103] **Includes:** definitions of 1 attribute, 1 element **Used:** at 1 location	*102*
xs:maxExclusive	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:facet [195] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [104] **Used:** at 1 location	*104*
xs:maxInclusive	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:facet [195] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [106] **Used:** at 1 location	*106*
xs:maxLength	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:numFacet [231] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [108] **Used:** at 1 location	*108*
xs:minExclusive	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:facet [195] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [110] **Used:** at 1 location	*110*
xs:minInclusive	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:facet [195] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [112] **Used:** at 1 location	*112*

xs:minLength	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:numFacet [231] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [114] **Used:** at 1 location	*114*
xs:notation	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [117] **Content:** complex, 4 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [117] **Includes:** definitions of 3 attributes **Used:** at 1 location	*116*
xs:pattern	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (restriction of xs:noFixedFacet) [120] **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [120] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element **Used:** at 1 location	*119*
xs:redefine	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:openAttrs) [122] **Content:** complex, 2 attributes, attr. wildcard, 5 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [122] **Includes:** definitions of 2 attributes, 1 element **Used:** at 1 location	*121*
xs:restriction	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [125] **Content:** complex, 2 attributes, attr. wildcard, 14 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [125] **Includes:** definition of 1 attribute **Used:** at 1 location	*124*
xs:restriction (in xs:complexContent)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:complexRestrictionType [176] **Content:** complex, 2 attributes, attr. wildcard, 8 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:complexContent element [53] in XMLSchema.xsd; see XML source [129]	*128*
xs:restriction (in xs:simpleContent)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:simpleRestrictionType [248] **Content:** complex, 2 attributes, attr. wildcard, 17 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:simpleContent element [144] in XMLSchema.xsd; see XML source [132]	*131*
xs:selector	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [136] **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [136] **Includes:** definition of 1 attribute **Used:** at 1 location	*135*
xs:sequence	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:explicitGroup [188] **Content:** complex, 3 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [139] **Used:** at 4 locations	*138*
xs:sequence (in xs:group)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:simpleExplicitGroup [242] **Content:** complex, 1 attribute, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally within xs:namedGroup complexType [223] in XMLSchema.xsd; see XML source [141]	*141*

xs:simpleContent	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [144] **Content:** complex, 1 attribute, attr. wildcard, 3 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [144] **Includes:** definitions of 2 elements **Used:** at 1 location	*143*
xs:simpleType	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:topLevelSimpleType [266] **Content:** complex, 3 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [146] **Used:** at 1 location	*145*
xs:simpleType (type xs:localSimpleType)	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:localSimpleType [215] **Content:** complex, 1 attribute, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** locally at 9 locations in XMLSchema.xsd	*147*
xs:totalDigits	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (restriction of xs:numFacet) [150] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [150] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element **Used:** at 1 location	*149*
xs:union	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (extension of xs:annotated) [152] **Content:** complex, 2 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [152] **Includes:** definitions of 1 attribute, 1 element **Used:** at 1 location	*151*
xs:unique	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** xs:keybase [204] **Content:** complex, 2 attributes, attr. wildcard, 3 elements **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [154] **Used:** at 1 location	*154*
xs:whiteSpace	**Namespace:** http://www.w3.org/2001/XMLSchema **Type:** anonymous complexType (restriction of xs:facet) [157] **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this element or its type)* **Defined:** globally in XMLSchema.xsd; see XML source [157] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element **Used:** at 1 location	*156*

Complex Type Summary		**Page**
xs:all	Only elements allowed inside **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [160] **Includes:** definitions of 2 attributes, attr. wildcard **Used:** at 2 locations	*159*
xs:annotated	This type is extended by all types which allow annotation other than <schema> itself **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 1 attribute, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [163] **Includes:** definitions of 1 attribute, 1 element **Used:** at 21 locations	*162*

xs:anyType	Not the real urType, but as close an approximation as we can get in the XML representation **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** mixed *(allows character data)*, attr. wildcard, elem. wildcard **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [166] **Includes:** definitions of attr. wildcard, elem. wildcard **Used:** at 1 location	165
xs:attribute	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 8 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [168] **Includes:** definitions of 5 attributes, 1 element **Used:** at 2 locations	167
xs:attributeGroup	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 4 elements **Abstract:** *(cannot be assigned directly to elements used in instance XML documents)* **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [172] **Used:** at 2 locations	171
xs:attributeGroupRef	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [175] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element; 1 attr. probition **Used:** at 1 location	174
xs:complexRestrictionType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 8 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [177] **Includes:** definitions of attr. wildcard, 1 element **Used:** at 1 location	176
xs:complexType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 6 attributes, attr. wildcard, 10 elements **Abstract:** *(cannot be assigned directly to elements used in instance XML documents)* **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [180] **Includes:** definitions of 5 attributes **Used:** at 2 locations	179
xs:element	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. **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 14 attributes, attr. wildcard, 6 elements **Abstract:** *(cannot be assigned directly to elements used in instance XML documents)* **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [184] **Includes:** definitions of 9 attributes, 2 elements **Used:** at 2 locations	183
xs:explicitGroup	group type for the three kinds of group **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [189] **Includes:** definitions of attr. wildcard, 1 element; 2 attr. prohibitions **Used:** at 4 locations	188

xs:extensionType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 8 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [193] **Includes:** definition of 1 attribute **Used:** at 2 locations	*192*
xs:facet	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [196] **Includes:** definitions of 2 attributes **Used:** at 7 locations	*195*
xs:group	group type for explicit groups, named top-level groups and group references **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 5 attributes, attr. wildcard, 7 elements **Abstract:** *(cannot be assigned directly to elements used in instance XML documents)* **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [198] **Used:** at 2 locations	*197*
xs:groupRef	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 4 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [202] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element; 1 attr. probition **Used:** at 1 location	*201*
xs:keybase	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 3 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [205] **Includes:** definitions of 1 attribute, 2 elements **Used:** at 3 locations	*204*
xs:localComplexType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 10 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [207] **Includes:** definitions of attr. wildcard, 1 element; 4 attr. prohibitions **Used:** at 1 location	*206*
xs:localElement	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 11 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [211] **Includes:** definitions of attr. wildcard, 3 elements; 3 attr. prohibitions **Used:** at 2 locations	*210*
xs:localSimpleType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 1 attribute, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [216] **Includes:** definitions of attr. wildcard, 1 element; 2 attr. prohibitions **Used:** at 1 location	*215*
xs:namedAttributeGroup	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [219] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element; 1 attr. probition **Used:** at 1 location	*218*

xs:namedGroup	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [222] **Includes:** definitions of 1 attribute, attr. wildcard, 4 elements; 3 attr. prohibitions **Used:** at 1 location	*221*
xs:narrowMaxMin	restricted max/min **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 11 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [225] **Includes:** definitions of 2 attributes, attr. wildcard, 3 elements **Used:** at 1 location	*224*
xs:noFixedFacet	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [230] **Includes:** definitions of attr. wildcard, 1 element; 1 attr. probition **Used:** at 2 locations	*229*
xs:numFacet	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [232] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element **Used:** at 5 locations	*231*
xs:openAttrs	This type is extended by almost all schema types to allow attributes from other namespaces to be added to user schemas. **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** empty, attr. wildcard **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [234] **Includes:** definition of attr. wildcard **Used:** at 4 locations	*233*
xs:realGroup	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 5 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [236] **Includes:** definitions of attr. wildcard, 4 elements **Used:** at 2 locations	*235*
xs:restrictionType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 21 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [239] **Includes:** definition of 1 attribute **Used:** at 2 locations	*238*
xs:simpleExplicitGroup	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 1 attribute, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [243] **Includes:** definitions of attr. wildcard, 1 element; 2 attr. prohibitions **Used:** at 2 locations	*242*
xs:simpleExtensionType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [246] **Includes:** definitions of attr. wildcard, 1 element **Used:** at 1 location	*245*

xs:simpleRestrictionType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 2 attributes, attr. wildcard, 17 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [249] **Includes:** definitions of attr. wildcard, 1 element **Used:** at 1 location	*248*
xs:simpleType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 4 elements **Abstract:** *(cannot be assigned directly to elements used in instance XML documents)* **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [253] **Includes:** definitions of 2 attributes **Used:** at 2 locations	*252*
xs:topLevelAttribute	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 5 attributes, attr. wildcard, 2 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [256] **Includes:** definitions of 1 attribute, attr. wildcard, 2 elements; 3 attr. prohibitions **Used:** at 1 location	*255*
xs:topLevelComplexType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 6 attributes, attr. wildcard, 10 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [259] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element **Used:** at 1 location	*258*
xs:topLevelElement	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 10 attributes, attr. wildcard, 6 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [263] **Includes:** definitions of 1 attribute, attr. wildcard, 3 elements; 4 attr. prohibitions **Used:** at 1 location	*262*
xs:topLevelSimpleType	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 4 elements **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [267] **Includes:** definitions of 1 attribute, attr. wildcard, 1 element **Used:** at 1 location	*266*
xs:wildcard	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** complex, 3 attributes, attr. wildcard, 1 element **Block:** "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)* **Defined:** globally in XMLSchema.xsd; see XML source [270] **Includes:** definitions of 2 attributes **Used:** at 2 locations	*269*

Simple Type Summary		***Page***
xs:allNNI	for maxOccurs **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [272] **Used:** at 3 locations	*272*
xs:anyURI	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [273] **Used:** at 10 locations	*273*
xs:base64Binary	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [275] **Used:** never	*275*

xs:blockSet	A utility type, not for public use #all or (possibly empty) subset of {substitution, extension, restriction} **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [276] **Used:** at 2 locations	*276*
xs:boolean	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [278] **Used:** at 6 locations	*278*
xs:byte	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [279] **Used:** never	*279*
xs:date	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [280] **Used:** never	*280*
xs:dateTime	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [281] **Used:** never	*281*
xs:decimal	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [282] **Used:** at 1 location	*282*
xs:derivationControl	A utility type, not for public use **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [284] **Used:** at 4 locations	*284*
xs:derivationSet	A utility type, not for public use #all or (possibly empty) subset of {extension, restriction} **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [286] **Used:** at 3 locations	*286*
xs:double	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [288] **Used:** never	*288*
xs:duration	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [289] **Used:** never	*289*
xs:ENTITIES	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [290] **Used:** never	*290*
xs:ENTITY	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [291] **Used:** at 1 location	*291*
xs:float	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [292] **Used:** never	*292*
xs:formChoice	A utility type, not for public use **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [293] **Used:** at 4 locations	*293*
xs:fullDerivationSet	A utility type, not for public use #all or (possibly empty) subset of {extension, restriction, list, union} **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [294] **Used:** at 1 location	*294*
xs:gDay	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [296] **Used:** never	*296*
xs:gMonth	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [297] **Used:** never	*297*

xs:gMonthDay	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [298] **Used:** never	298
xs:gYear	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [299] **Used:** never	299
xs:gYearMonth	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [300] **Used:** never	300
xs:hexBinary	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [301] **Used:** never	301
xs:ID	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [302] **Used:** at 5 locations	302
xs:IDREF	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [303] **Used:** at 1 location	303
xs:IDREFS	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [304] **Used:** never	304
xs:int	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [305] **Used:** at 1 location	305
xs:integer	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [306] **Used:** at 3 locations	306
xs:language	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [307] **Used:** at 1 location	307
xs:long	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [308] **Used:** at 1 location	308
xs:Name	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [310] **Used:** at 1 location	309
xs:namespaceList	A utility type, not for public use **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [311] **Used:** at 1 location	311
xs:NCName	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [314] **Used:** at 15 locations	313
xs:negativeInteger	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [315] **Used:** never	315
xs:NMTOKEN	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [317] **Used:** at 7 locations	316
xs:NMTOKENS	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [318] **Used:** never	318
xs:nonNegativeInteger	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [320] **Used:** at 7 locations	319
xs:nonPositiveInteger	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [321] **Used:** at 1 location	321

xs:normalizedString	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [323] **Used:** at 1 location	322
xs:NOTATION	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. **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [324] **Used:** never	324
xs:positiveInteger	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [325] **Used:** at 1 location	325
xs:public	A utility type, not for public use A public identifier, per ISO 8879 **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [326] **Used:** at 1 location	326
xs:QName	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [327] **Used:** at 12 locations	327
xs:reducedDerivationControl	A utility type, not for public use **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [329] **Used:** at 1 location	329
xs:short	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [330] **Used:** at 1 location	330
xs:simpleDerivationSet	#all or (possibly empty) subset of {restriction, union, list} A utility type, not for public use **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [331] **Used:** at 1 location	331
xs:string	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [334] **Used:** at 7 locations	333
xs:time	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [335] **Used:** never	335
xs:token	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [337] **Used:** at 13 locations	336
xs:typeDerivationControl	A utility type, not for public use **Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [338] **Used:** at 1 location	338
xs:unsignedByte	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [339] **Used:** never	339
xs:unsignedInt	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [340] **Used:** at 1 location	340
xs:unsignedLong	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [341] **Used:** at 1 location	341
xs:unsignedShort	**Namespace:** http://www.w3.org/2001/XMLSchema **Defined:** globally in XMLSchema.xsd; see XML source [342] **Used:** at 1 location	342

Element Group Summary		Page
xs:allModel	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 2 elements **Defined:** globally in XMLSchema.xsd; see XML source [343] **Includes:** definitions of 2 elements **Used:** at 2 locations	343
xs:attrDecls	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 3 elements **Defined:** globally in XMLSchema.xsd; see XML source [344] **Includes:** definitions of 3 elements **Used:** at 8 locations	344
xs:complexTypeModel	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 9 elements **Defined:** globally in XMLSchema.xsd; see XML source [345] **Includes:** definitions of 2 elements **Used:** at 3 locations	345
xs:facets	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. **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 12 elements **Defined:** globally in XMLSchema.xsd; see XML source [348] **Includes:** definitions of 12 elements **Used:** at 1 location	347
xs:identityConstraint	The three kinds of identity constraints, all with type of or derived from 'keybase'. **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 3 elements **Defined:** globally in XMLSchema.xsd; see XML source [350] **Includes:** definitions of 3 elements **Used:** at 4 locations	350
xs:nestedParticle	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 5 elements **Defined:** globally in XMLSchema.xsd; see XML source [352] **Includes:** definitions of 5 elements **Used:** at 2 locations	352
xs:particle	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 6 elements **Defined:** globally in XMLSchema.xsd; see XML source [354] **Includes:** definitions of 6 elements **Used:** at 1 location	354
xs:redefinable	This group is for the elements which can self-redefine (see <redefine> below). **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 4 elements **Defined:** globally in XMLSchema.xsd; see XML source [356] **Includes:** definitions of 4 elements **Used:** at 2 locations	356
xs:schemaTop	This group is for the elements which occur freely at the top level of schemas. **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 7 elements **Defined:** globally in XMLSchema.xsd; see XML source [358] **Includes:** definitions of 3 elements **Used:** at 1 location	358
xs:simpleDerivation	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 3 elements **Defined:** globally in XMLSchema.xsd; see XML source [360] **Includes:** definitions of 3 elements **Used:** at 3 locations	360
xs:simpleRestrictionModel	**Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 13 elements **Defined:** globally in XMLSchema.xsd; see XML source [362] **Includes:** definition of 1 element **Used:** at 3 locations	361

xs:typeDefParticle	'complexType' uses this **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 4 elements **Defined:** globally in XMLSchema.xsd; see XML source [364] **Includes:** definitions of 4 elements **Used:** at 4 locations	*364*

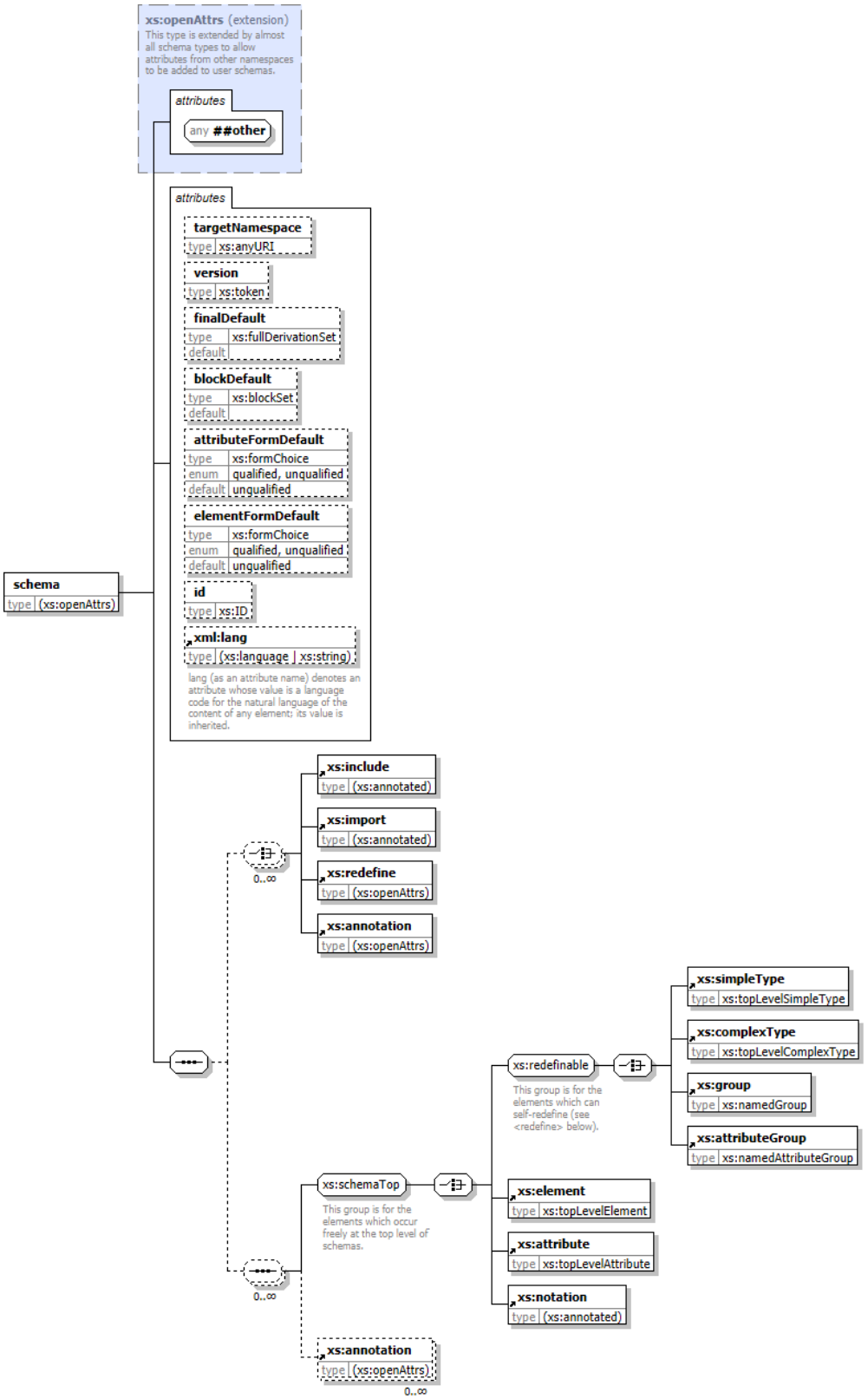
Attribute Group Summary		Page
xml:specialAttrs	**Namespace:** http://www.w3.org/XML/1998/namespace **Content:** 4 attributes **Defined:** globally in xml.xsd; see XML source [369] **Includes:** definitions of 4 attributes **Used:** never	*369*
xs:defRef	for element, group and attributeGroup, which both define and reference **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 2 attributes **Defined:** globally in XMLSchema.xsd; see XML source [366] **Includes:** definitions of 2 attributes **Used:** at 4 locations	*366*
xs:occurs	for all particles **Namespace:** http://www.w3.org/2001/XMLSchema **Content:** 2 attributes **Defined:** globally in XMLSchema.xsd; see XML source [367] **Includes:** definitions of 2 attributes **Used:** at 3 locations	*367*

Global Attribute Summary		Page
xml:base	base (as an attribute name) 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. **Namespace:** http://www.w3.org/XML/1998/namespace **Type:** xs:anyURI [273] **Defined:** globally in xml.xsd; see XML source [371] **Used:** at 1 location	*371*
xml:id	id (as an attribute name) denotes an attribute whose value should be interpreted as if declared to be of type ID. **Namespace:** http://www.w3.org/XML/1998/namespace **Type:** xs:ID [302] **Defined:** globally in xml.xsd; see XML source [372] **Used:** at 1 location	*372*
xml:lang	lang (as an attribute name) denotes an attribute whose value is a language code for the natural language of the content of any element; its value is inherited. **Namespace:** http://www.w3.org/XML/1998/namespace **Type:** anonymous simpleType (union of (xs:language | restriction of xs:string)) [373] **Defined:** globally in xml.xsd; see XML source [373] **Used:** at 3 locations	*373*
xml:space	space (as an attribute name) 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. **Namespace:** http://www.w3.org/XML/1998/namespace **Type:** anonymous simpleType (restriction of xs:NCName) [375] **Defined:** globally in xml.xsd; see XML source [375] **Used:** at 1 location	*375*

element <xs:schema> (global)

Namespace: `http://www.w3.org/2001/XMLSchema`
Type: anonymous complexType (extension of `xs:openAttrs`) [18]
Content: complex, 8 attributes, attr. wildcard, 12 elements
Block: `"#all"` *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [18]
Used: never

Component Diagram



XML Representation Summary

```
<xs:schema
    targetNamespace      = xs:anyURI
    version              = xs:token
    finalDefault         = ("#all" | list of ("extension" | "restriction" | "list" | "union")) : ""
    blockDefault         = ("#all" | list of ("extension" | "restriction" | "substitution")) : ""
    attributeFormDefault = ("qualified" | "unqualified") : "unqualified"
    elementFormDefault   = ("qualified" | "unqualified") : "unqualified"
    id                   = xs:ID
    xml:lang             = (xs:language | "")
    {any attribute from non-schema namespace}
    >
    Content: (xs:include | xs:import | xs:redefine | xs:annotation)*, ((xs:simpleType | xs:complexType |
             xs:group | xs:attributeGroup | xs:element | xs:attribute | xs:notation), xs:annotation*)*
</xs:schema>
```

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-schema

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ complexType
```

XML Source

```
<xs:element id="schema" name="schema">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-schema"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:openAttrs">
        <xs:sequence>
          <xs:choice maxOccurs="unbounded" minOccurs="0">
            <xs:element ref="xs:include"/>
            <xs:element ref="xs:import"/>
            <xs:element ref="xs:redefine"/>
            <xs:element ref="xs:annotation"/>
          </xs:choice>
          <xs:sequence maxOccurs="unbounded" minOccurs="0">
            <xs:group ref="xs:schemaTop"/>
            <xs:element maxOccurs="unbounded" minOccurs="0" ref="xs:annotation"/>
          </xs:sequence>
        </xs:sequence>
        <xs:attribute name="targetNamespace" type="xs:anyURI"/>
        <xs:attribute name="version" type="xs:token"/>
        <xs:attribute default="" name="finalDefault" type="xs:fullDerivationSet" use="optional"/>
        <xs:attribute default="" name="blockDefault" type="xs:blockSet" use="optional"/>
        <xs:attribute default="unqualified" name="attributeFormDefault" type="xs:formChoice" use="optional"/>
        <xs:attribute default="unqualified" name="elementFormDefault" type="xs:formChoice" use="optional"/>
        <xs:attribute name="id" type="xs:ID"/>
        <xs:attribute ref="xml:lang"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
  <xs:key name="element">
    <xs:selector xpath="xs:element"/>
    <xs:field xpath="@name"/>
  </xs:key>
  <xs:key name="attribute">
    <xs:selector xpath="xs:attribute"/>
    <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 Detail (all declarations; 9/9)

attributeFormDefault

Type: xs:formChoice [293]
Use: optional
Defined: locally within (this) xs:schema element

Attribute Value

enumeration of xs:NMTOKEN

Enumeration: "qualified", "unqualified"
Default: "unqualified"

---

blockDefault

Type: xs:blockSet [276]
Use: optional
Defined: locally within (this) xs:schema element

Attribute Value

"#all" | *list of* ("extension" | "restriction" | "substitution")

Default: ""

---

elementFormDefault

Type: xs:formChoice [293]
Use: optional
Defined: locally within (this) xs:schema element

Attribute Value

enumeration of xs:NMTOKEN

Enumeration: "qualified", "unqualified"
Default: "unqualified"

---

finalDefault

Type: xs:fullDerivationSet [294]
Use: optional
Defined: locally within (this) xs:schema element

Attribute Value

"#all" | *list of* ("extension" | "restriction" | "list" | "union")

Default: ""

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within (this) xs:schema element

---

targetNamespace

Type: xs:anyURI [273]
Use: optional
Defined: locally within (this) xs:schema element

---

version

Type: xs:token [336]
Use: optional
Defined: locally within (this) xs:schema element

---

xml:lang [373]

Type: anonymous simpleType (union of (xs:language | restriction of xs:string)) [373]
Use: optional
Defined: by reference within (this) xs:schema element

Attribute Value

```
xs:language | ""
```

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 12/12)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:schema element

---

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:schema element

---

xs:attribute [37]

Type: xs:topLevelAttribute [255], complex content
Defined: by reference within xs:schemaTop group

---

xs:attributeGroup [42]

Type: xs:namedAttributeGroup [218], complex content
Defined: by reference within xs:redefinable group

---

xs:complexType [54]

Type: xs:topLevelComplexType [258], complex content
Defined: by reference within xs:redefinable group

---

xs:element [63]

Type: xs:topLevelElement [262], complex content
Defined: by reference within xs:schemaTop group

xs:group [87]

Type: xs:namedGroup [221], complex content
Defined: by reference within xs:redefinable group

xs:import [91]

Type: anonymous complexType (extension of xs:annotated) [92], complex content
Defined: by reference within (this) xs:schema element

xs:include [93]

Type: anonymous complexType (extension of xs:annotated) [94], complex content
Defined: by reference within (this) xs:schema element

xs:notation [116]

Type: anonymous complexType (extension of xs:annotated) [117], complex content
Defined: by reference within xs:schemaTop group

xs:redefine [121]

Type: anonymous complexType (extension of xs:openAttrs) [122], complex content
Defined: by reference within (this) xs:schema element

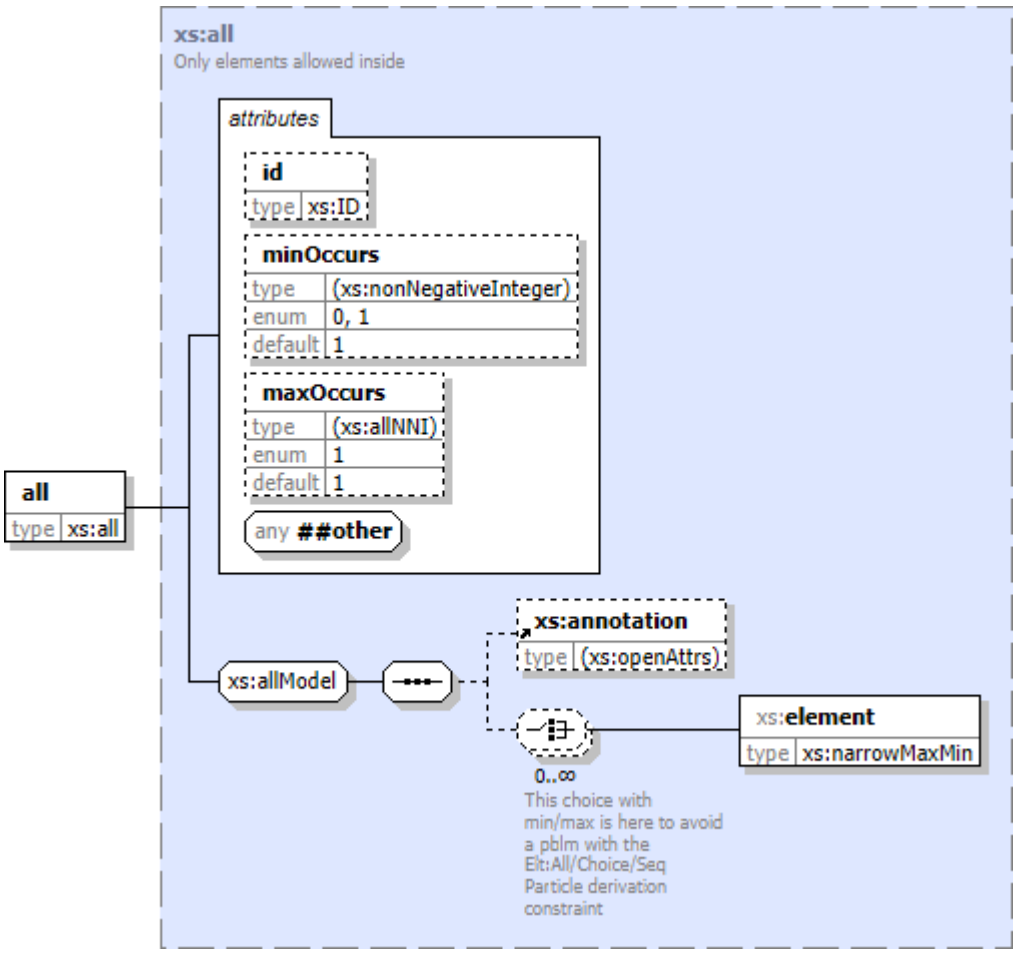
xs:simpleType [145]

Type: xs:topLevelSimpleType [266], complex content
Defined: by reference within xs:redefinable group

element <xs:all> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:all [159]
Content: complex, 3 attributes, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [23]
Used: at 3 locations

Component Diagram



XML Representation Summary

```
<xs:all
   id         = xs:ID
   minOccurs  = ("0" | "1") : "1"
   maxOccurs  = "1" : "1"
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, xs:element*
</xs:all>
```

Included in content model of elements (4):

xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:extension (in xs:complexContent) [77],
xs:restriction (in xs:complexContent) [128]

Known Usage Locations

- **Within global complexTypes (1):**

  xs:realGroup [237]

- **Within model groups (2):**

  xs:particle [354], xs:typeDefParticle [364]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-all

XML Source

```
<xs:element id="all" name="all" type="xs:all">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-all"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: anonymous simpleType (restriction of xs:allNNI) [23]
Use: optional
Defined: locally within xs:all complexType

Attribute Value

enumeration of (xs:nonNegativeInteger | "unbounded")

Enumeration: "1"
Default: "1"

Anonymous simpleType

Type Derivation Tree

union of (xs:nonNegativeInteger | restriction of xs:NMTOKEN)
- xs:allNNI [272] (restriction)
  - **simpleType** [161]

minOccurs

Type: anonymous simpleType (restriction of xs:nonNegativeInteger) [23]
Use: optional
Defined: locally within xs:all complexType

Attribute Value

enumeration of xs:nonNegativeInteger

Enumeration: "0", "1"
Default: "1"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
- xs:decimal [282] (restriction)
  - xs:integer [306] (restriction)
    - xs:nonNegativeInteger [319] (restriction)
      - **simpleType** [161]

{any attribute from non-schema namespace}

Defined: within `xs:all` complexType

Content Element Detail (all declarations; 2/2)

`xs:annotation` [27]

Type: anonymous complexType (extension of `xs:openAttrs`) [28], complex content
Defined: by reference within `xs:allModel` group

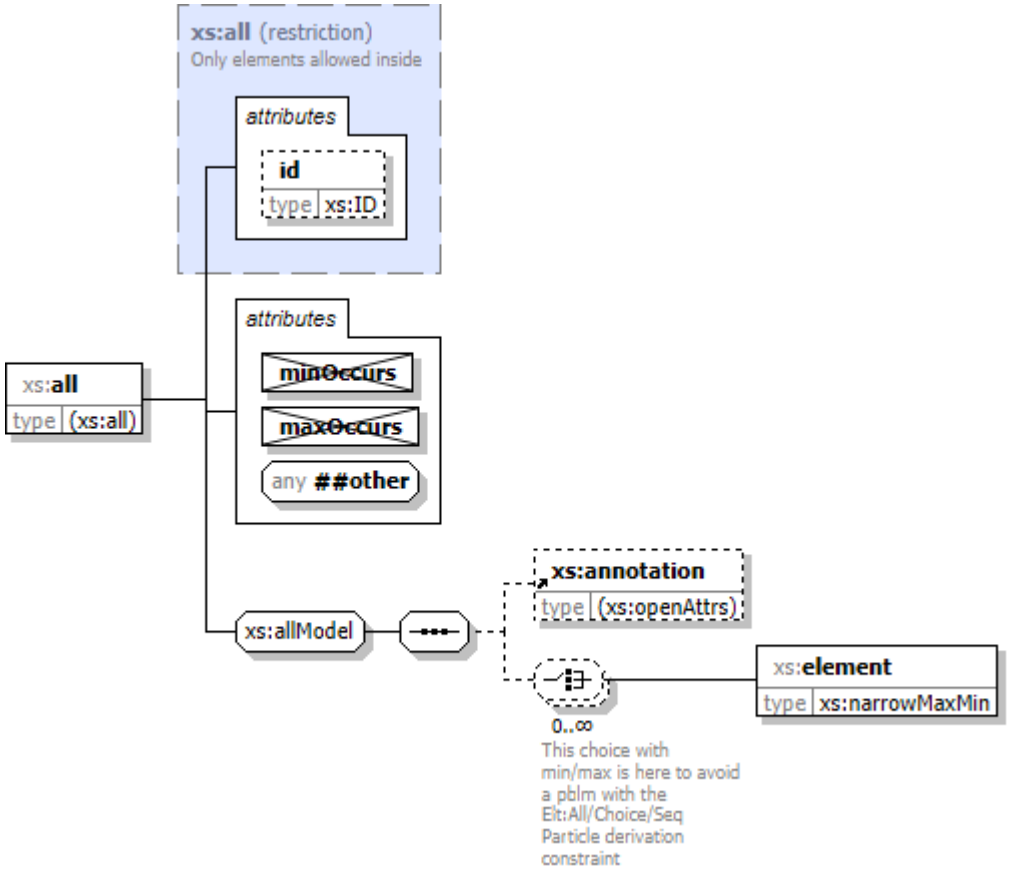
`xs:element` [71]

Type: `xs:narrowMaxMin` [224], complex content
Defined: locally within `xs:allModel` group

element <xs:all> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (restriction of xs:all) [26]
Content: complex, 1 attribute, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:namedGroup complexType [223] in XMLSchema.xsd; see XML source [26]

Component Diagram



XML Representation Summary

```
<xs:all
    id = xs:ID
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:element*
</xs:all>
```

Included in content model of elements (1):

xs:group [87]

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ *xs:group* [197] (restriction)
        └ xs:explicitGroup [188] (restriction)
          └ xs:all [159] (restriction)
            └ **complexType**

XML Source

```
<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>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

~~maxOccurs~~

Use: prohibited

~~minOccurs~~

Use: prohibited

{any attribute from non-schema namespace}

Defined: within (this) xs:all element

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:allModel group

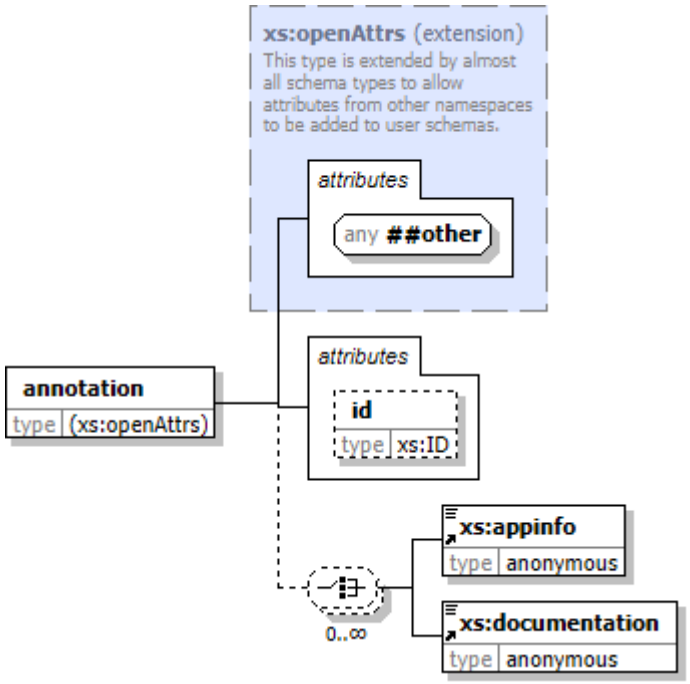
xs:element [71]

Type: xs:narrowMaxMin [224], complex content
Defined: locally within xs:allModel group

element <xs:annotation> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:openAttrs) [28]
Content: complex, 1 attribute, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [28]
Used: at 28 locations

Component Diagram



XML Representation Summary

```
<xs:annotation
   id = xs:ID
   {any attribute from non-schema namespace}
   >
   Content: (xs:appinfo | xs:documentation)*
</xs:annotation>
```

Included in content model of elements (52):

xs:all [22],
xs:all (in xs:group) [25],
xs:any [30],
xs:anyAttribute [33],
xs:attribute [37],
xs:attribute (type xs:attribute) [39],
xs:attributeGroup [42],
xs:attributeGroup (type xs:attributeGroupRef) [44],
xs:choice [46],
xs:choice (in xs:group) [49],
xs:complexContent [51],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:element [63],
xs:element (type xs:localElement) [67],
xs:element (type xs:narrowMaxMin) [71],
xs:enumeration [75],
xs:extension (in xs:complexContent) [77],
xs:keyref [97],
xs:length [100],
xs:list [102],
xs:maxExclusive [104],
xs:maxInclusive [106],
xs:maxLength [108],
xs:minExclusive [110],
xs:minInclusive [112],
xs:minLength [114],
xs:notation [116],
xs:pattern [119],
xs:redefine [121],
xs:restriction [124],
xs:restriction (in xs:complexContent) [128],
xs:restriction (in xs:simpleContent) [131],
xs:schema [17],
xs:selector [135],
xs:sequence [138],

xs:extension (in xs:simpleContent) [80],
xs:field [82],
xs:fractionDigits [85],
xs:group [87],
xs:group (type xs:groupRef) [89],
xs:import [91],
xs:include [93],
xs:key [95],
xs:sequence (in xs:group) [141],
xs:simpleContent [143],
xs:simpleType [145],
xs:simpleType (type xs:localSimpleType) [147],
xs:totalDigits [149],
xs:union [151],
xs:unique [154],
xs:whiteSpace [156]

Known Usage Locations

- **Within global complexTypes (21):**

  xs:annotated [164], xs:attributeGroupRef [175], xs:complexRestrictionType [178], xs:explicitGroup [190], xs:groupRef [203], xs:localComplexType [208], xs:localElement [213], xs:localSimpleType [216], xs:namedAttributeGroup [219], xs:namedGroup [223], xs:narrowMaxMin [228], xs:noFixedFacet [230], xs:numFacet [232], xs:realGroup [237], xs:simpleExplicitGroup [243], xs:simpleExtensionType [246], xs:simpleRestrictionType [250], xs:topLevelAttribute [257], xs:topLevelComplexType [260], xs:topLevelElement [265], xs:topLevelSimpleType [268]

- **Within anonymous complexTypes of elements (6):**

  xs:pattern [120], xs:redefine [122], xs:schema [20], xs:schema [20], xs:totalDigits [150], xs:whiteSpace [158]

- **Within model groups (1):**

  xs:allModel [343]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-annotation

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ complexType
```

XML Source

```
<xs:element id="annotation" name="annotation">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-annotation"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:openAttrs">
        <xs:choice maxOccurs="unbounded" minOccurs="0">
          <xs:element ref="xs:appinfo"/>
          <xs:element ref="xs:documentation"/>
        </xs:choice>
        <xs:attribute name="id" type="xs:ID"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 2/2)

id

Type: xs:ID [302]

Use: optional
Defined: locally within (this) xs:annotation element

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 2/2)

xs:appinfo [35]

Type: anonymous complexType, mixed content
Defined: by reference within (this) xs:annotation element

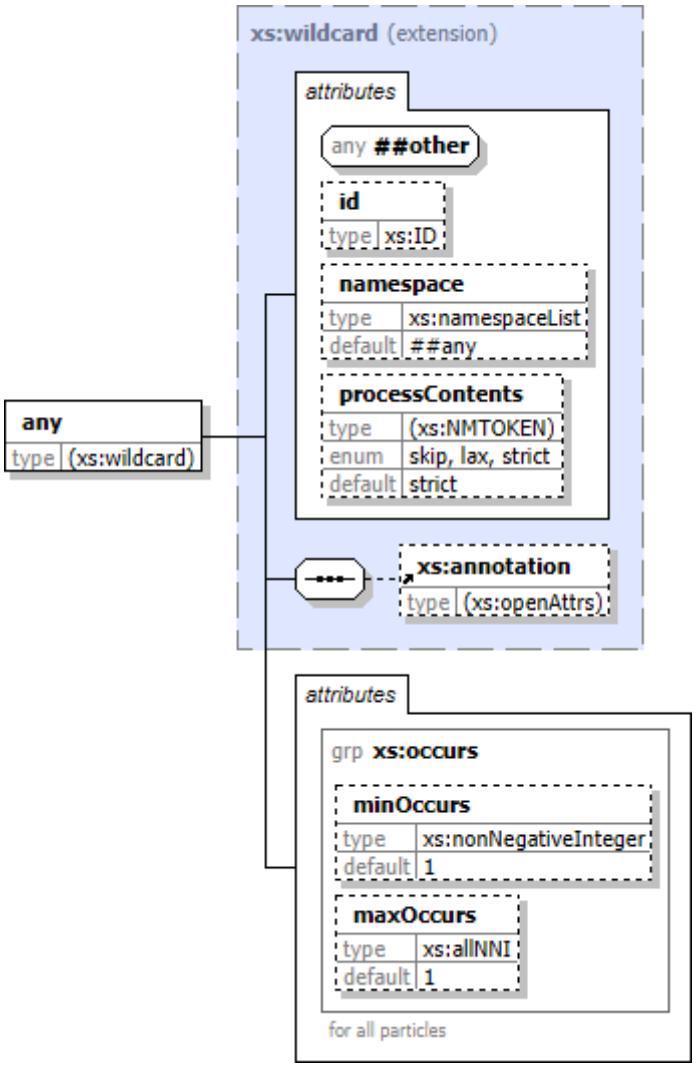
xs:documentation [61]

Type: anonymous complexType, mixed content
Defined: by reference within (this) xs:annotation element

element <xs:any> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:wildcard) [31]
Content: complex, 5 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [31]
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<xs:any
    id              = xs:ID
    namespace       = (("##any" | "##other") | list of (xs:anyURI | ("##targetNamespace" | "##local"))) :
                      "##any"
    processContents = ("skip" | "lax" | "strict") : "strict"
    minOccurs       = xs:nonNegativeInteger : "1"
    maxOccurs       = (xs:nonNegativeInteger | "unbounded") : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:any>
```

Included in content model of elements (4):

xs:choice [46], xs:sequence [138],
xs:choice (in xs:group) [49], xs:sequence (in xs:group) [141]

Known Usage Locations

- **Within model groups (2):**

  xs:nestedParticle [352], xs:particle [354]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-any

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:wildcard [269] (extension)
              └ complexType
```

XML Source

```
<xs:element id="any" name="any">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-any"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:wildcard">
        <xs:attributeGroup ref="xs:occurs"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 6/6)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

```
xs:nonNegativeInteger | "unbounded"
```

Default: "1"

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

namespace

Type: xs:namespaceList [311]
Use: optional
Defined: locally within xs:wildcard complexType

Attribute Value

```
("##any" | "##other") | list of (xs:anyURI | ("##targetNamespace" | "##local"))
```

Default: "##any"

processContents

Type: anonymous simpleType (restriction of xs:NMTOKEN) [32]
Use: optional
Defined: locally within xs:wildcard complexType

Attribute Value

```
enumeration of xs:NMTOKEN
```

Enumeration: "skip", "lax", "strict"
Default: "strict"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
  └ xs:string [333] (restriction)
    └ xs:normalizedString [322] (restriction)
      └ xs:token [336] (restriction)
        └ xs:NMTOKEN [316] (restriction)
          └ **simpleType** [271]

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

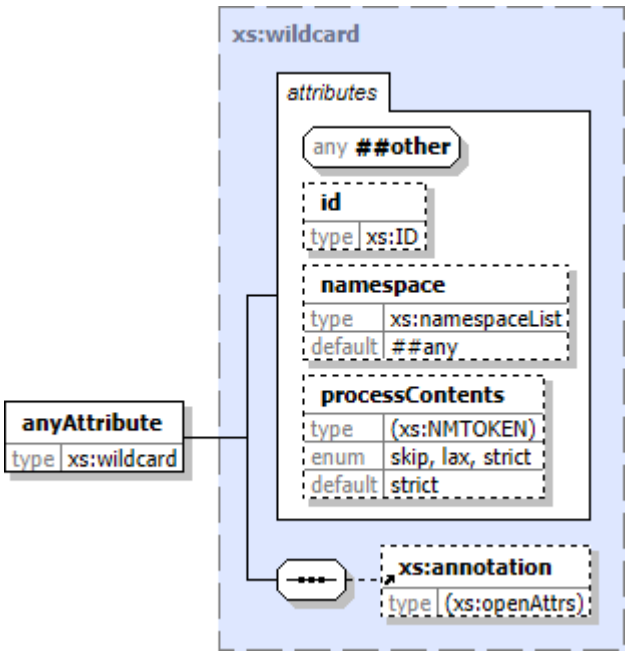
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

element <xs:anyAttribute> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:wildcard [269]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [34]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:anyAttribute
    id              = xs:ID
    namespace       = (("##any" | "##other") | list of (xs:anyURI | ("##targetNamespace" | "##local"))) :
                      "##any"
    processContents = ("skip" | "lax" | "strict") : "strict"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:anyAttribute>
```

Included in content model of elements (7):

xs:attributeGroup [42],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:extension (in xs:complexContent) [77],
xs:extension (in xs:simpleContent) [80],
xs:restriction (in xs:complexContent) [128],
xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:attrDecls [344]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-anyAttribute

XML Source

```
<xs:element id="anyAttribute" name="anyAttribute" type="xs:wildcard">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-anyAttribute"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

namespace

Type: xs:namespaceList [311]
Use: optional
Defined: locally within xs:wildcard complexType

Attribute Value

```
("##any" | "##other") | list of (xs:anyURI | ("##targetNamespace" | "##local"))
```

Default: "##any"

processContents

Type: anonymous simpleType (restriction of xs:NMTOKEN) [34]
Use: optional
Defined: locally within xs:wildcard complexType

Attribute Value

```
enumeration of xs:NMTOKEN
```

Enumeration: "skip", "lax", "strict"
Default: "strict"

Anonymous simpleType

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └ xs:string [333] (restriction)
      └ xs:normalizedString [322] (restriction)
          └ xs:token [336] (restriction)
              └ xs:NMTOKEN [316] (restriction)
                  └ simpleType [271]
```

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

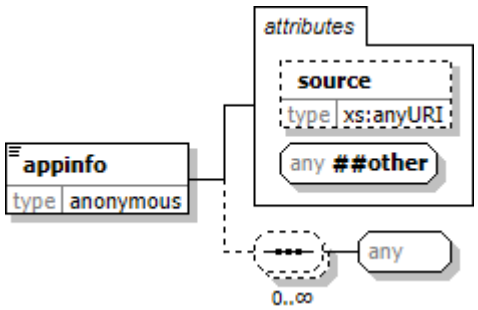
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

element <xs:appinfo> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType
Content: mixed *(allows character data)*, 1 attribute, attr. wildcard, elem. wildcard
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [35]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:appinfo
   source = xs:anyURI
   {any attribute from non-schema namespace}
   >
   Content: {text} × {any}*
</xs:appinfo>
```

Included in content model of elements (1):

xs:annotation [27]

Known Usage Locations

- **Within anonymous complexTypes of elements (1):**

  xs:annotation [29]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-appinfo

XML Source

```
<xs:element id="appinfo" name="appinfo">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-appinfo"/>
  </xs:annotation>
  <xs:complexType mixed="true">
    <xs:sequence maxOccurs="unbounded" minOccurs="0">
      <xs:any processContents="lax"/>
    </xs:sequence>
    <xs:attribute name="source" type="xs:anyURI"/>
    <xs:anyAttribute namespace="##other" processContents="lax"/>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 2/2)

source

Type: xs:anyURI [273]

Use: optional
Defined: locally within (this) `xs:appinfo` element

{any attribute from non-schema namespace}

Defined: within (this) `xs:appinfo` element

Content Element Detail (all declarations; 1/1)

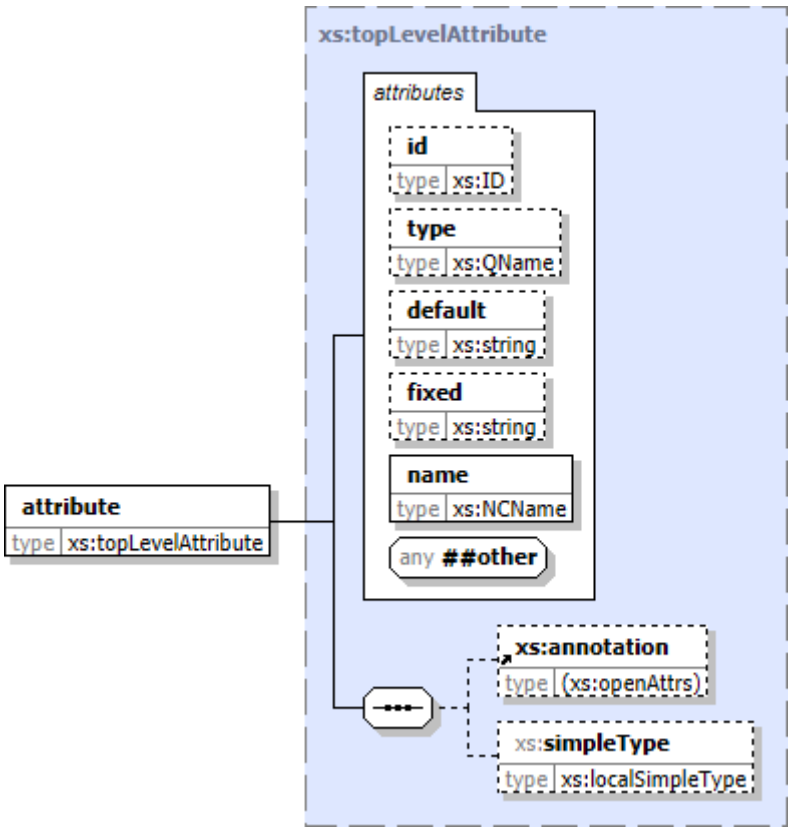
{any element from any namespace}

Defined: within (this) `xs:appinfo` element

element <xs:attribute> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:topLevelAttribute [255]
Content: complex, 5 attributes, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [38]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:attribute
    id       = xs:ID
    type     = xs:QName
    default  = xs:string
    fixed    = xs:string
    name     = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:simpleType?
</xs:attribute>
```

Included in content model of elements (1):

xs:schema [17]

Known Usage Locations

- **Within model groups (1):**

  xs:schemaTop [359]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-attribute

XML Source

```
<xs:element id="attribute" name="attribute" type="xs:topLevelAttribute">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-attribute"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 6/6)

default

Type: xs:string [333]
Use: optional
Defined: locally within xs:attribute complexType

fixed

Type: xs:string [333]
Use: optional
Defined: locally within xs:attribute complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:topLevelAttribute complexType

type

Type: xs:QName [327]
Use: optional
Defined: locally within xs:attribute complexType

{any attribute from non-schema namespace}

Defined: within xs:topLevelAttribute complexType

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:topLevelAttribute complexType

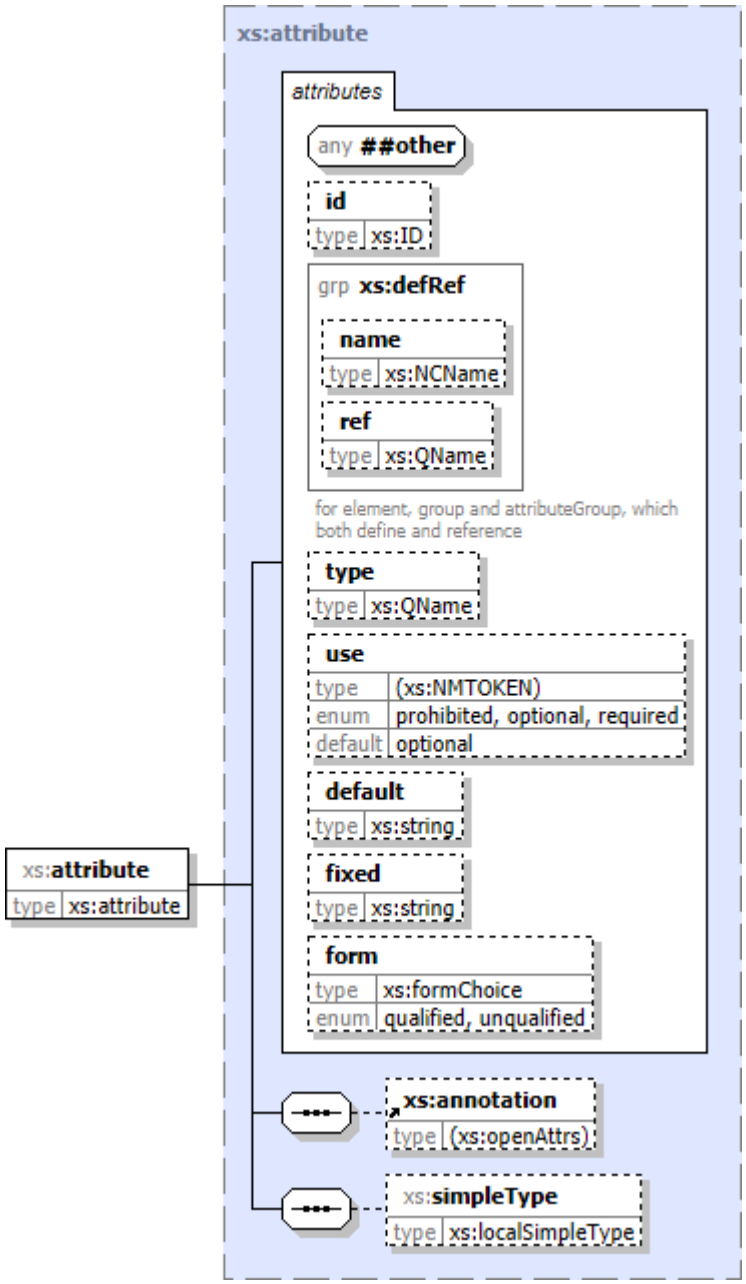
xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:topLevelAttribute complexType

element <xs:attribute> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:attribute [167]
Content: complex, 8 attributes, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:attrDecls group [344] in XMLSchema.xsd; see XML source [40]

Component Diagram



XML Representation Summary

```
<xs:attribute
    id      = xs:ID
    name    = xs:NCName
    ref     = xs:QName
    type    = xs:QName
    use     = ("prohibited" | "optional" | "required") : "optional"
    default = xs:string
    fixed   = xs:string
    form    = ("qualified" | "unqualified")
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:simpleType?
</xs:attribute>
```

Included in content model of elements (7):

xs:attributeGroup [42],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:extension (in xs:complexContent) [77],
xs:extension (in xs:simpleContent) [80],
xs:restriction (in xs:complexContent) [128],
xs:restriction (in xs:simpleContent) [131]

XML Source

<xs:element name="**attribute**" type="**xs:attribute**"/>

Attribute Detail (all declarations; 9/9)

default

Type: xs:string [333]
Use: optional
Defined: locally within xs:attribute complexType

fixed

Type: xs:string [333]
Use: optional
Defined: locally within xs:attribute complexType

form

Type: xs:formChoice [293]
Use: optional
Defined: locally within xs:attribute complexType

Attribute Value

enumeration of xs:NMTOKEN

Enumeration: "qualified", "unqualified"

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: optional
Defined: locally within xs:defRef attributeGroup

ref

Type: xs:QName [327]
Use: optional
Defined: locally within xs:defRef attributeGroup

type

Type: xs:QName [327]
Use: optional
Defined: locally within xs:attribute complexType

use

Type: anonymous simpleType (restriction of xs:NMTOKEN) [41]
Use: optional
Defined: locally within xs:attribute complexType

Attribute Value

enumeration of xs:NMTOKEN

Enumeration: "prohibited", "optional", "required"
Default: "optional"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
- xs:string [333] (restriction)
  - xs:normalizedString [322] (restriction)
    - xs:token [336] (restriction)
      - xs:NMTOKEN [316] (restriction)
        - **simpleType** [170]

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

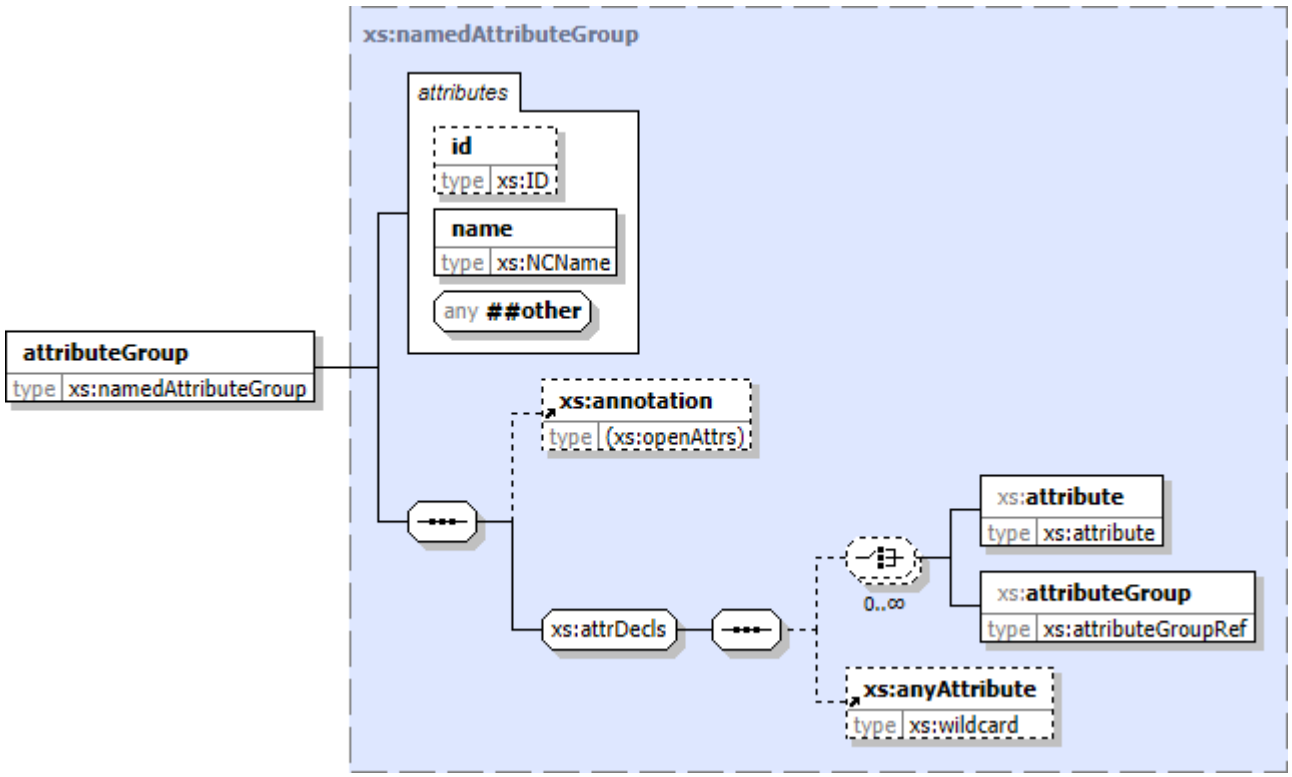
xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:attribute complexType

element <xs:attributeGroup> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:namedAttributeGroup [218]
Content: complex, 2 attributes, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [43]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:attributeGroup
    id   = xs:ID
    name = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?
</xs:attributeGroup>
```

Included in content model of elements (2):

xs:redefine [121], xs:schema [17]

Known Usage Locations

- **Within model groups (1):**

  xs:redefinable [356]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-attributeGroup

XML Source

```
<xs:element id="attributeGroup" name="attributeGroup" type="xs:namedAttributeGroup">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-attributeGroup"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:namedAttributeGroup complexType

{any attribute from non-schema namespace}

Defined: within xs:namedAttributeGroup complexType

Content Element Detail (all declarations; 4/4)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:namedAttributeGroup complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

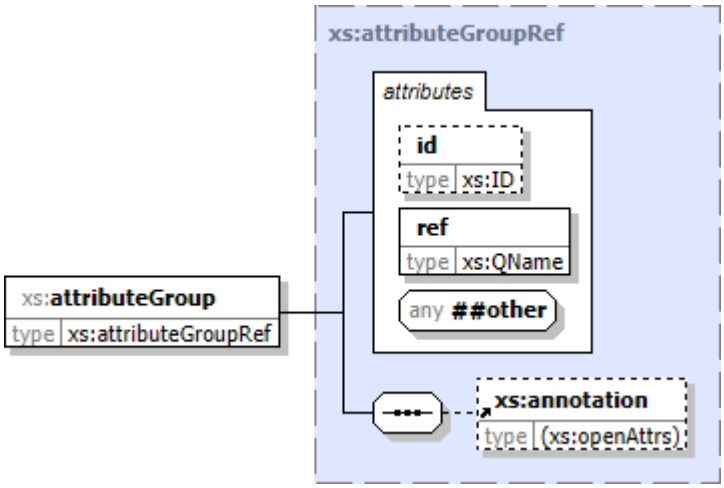
xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

element <xs:attributeGroup> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:attributeGroupRef [174]
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:attrDecls group [344] in XMLSchema.xsd; see XML source [44]

Component Diagram



XML Representation Summary

```
<xs:attributeGroup
    id  = xs:ID
    ref  = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:attributeGroup>
```

Included in content model of elements (7):

xs:attributeGroup [42],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:extension (in xs:complexContent) [77],
xs:extension (in xs:simpleContent) [80],
xs:restriction (in xs:complexContent) [128],
xs:restriction (in xs:simpleContent) [131]

XML Source

```
<xs:element name="attributeGroup" type="xs:attributeGroupRef"/>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

ref

Type: xs:QName [327]
Use: required
Defined: locally within xs:attributeGroupRef complexType

{any attribute from non-schema namespace}

Defined: within `xs:attributeGroupRef` complexType

Content Element Detail (all declarations; 1/1)

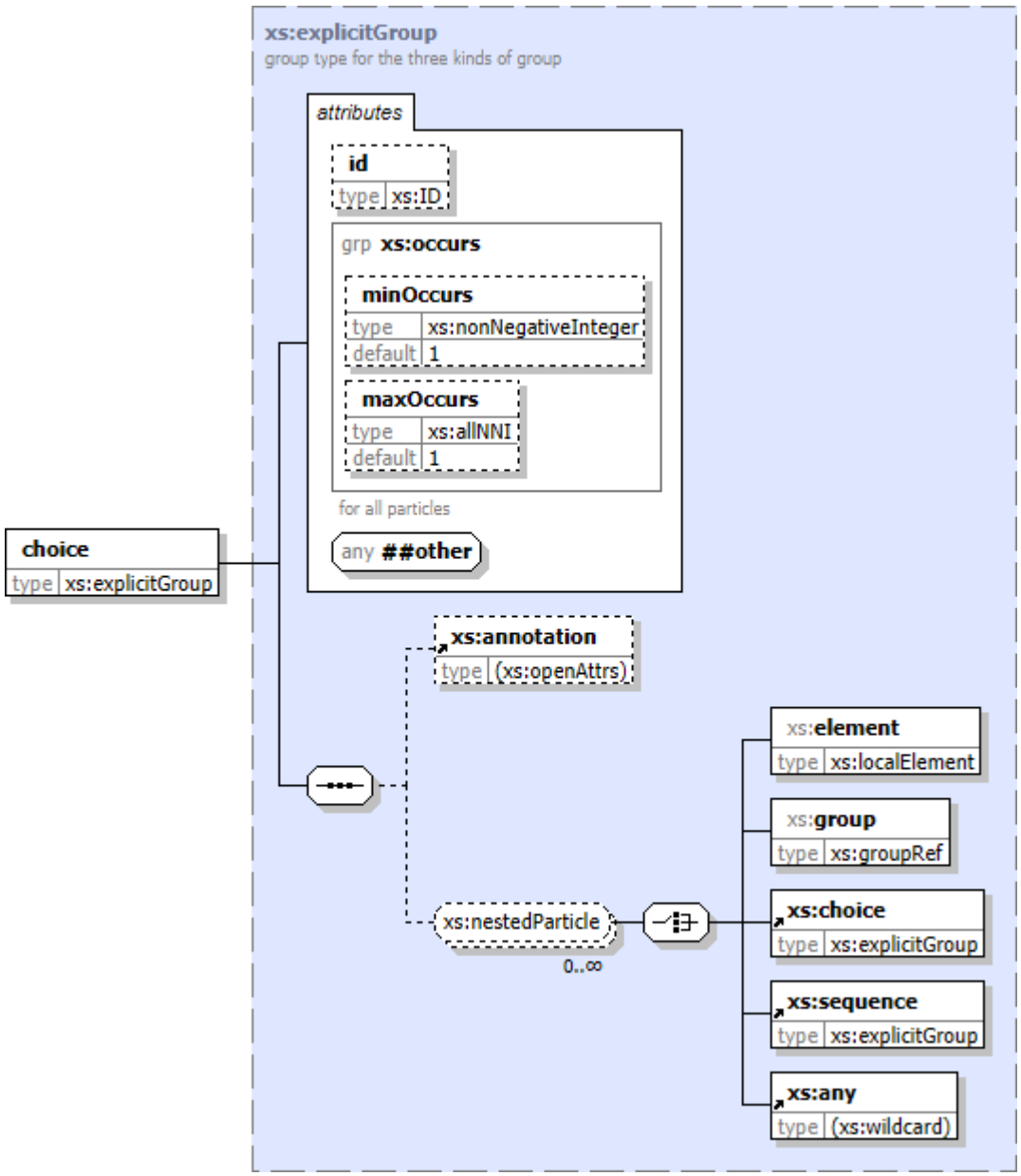
`xs:annotation` [27]

Type: anonymous complexType (extension of `xs:openAttrs`) [28], complex content
Defined: by reference within `xs:attributeGroupRef` complexType

element <xs:choice> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:explicitGroup [188]
Content: complex, 3 attributes, attr. wildcard, 6 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [47]
Used: at 4 locations

Component Diagram



XML Representation Summary

```
<xs:choice
   id          = xs:ID
   minOccurs   = xs:nonNegativeInteger : "1"
   maxOccurs   = (xs:nonNegativeInteger | "unbounded") : "1"
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:element | xs:group | xs:choice | xs:sequence | xs:any)*
</xs:choice>
```

Included in content model of elements (8):

xs:choice [46],
xs:choice (in xs:group) [49],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:extension (in xs:complexContent) [77],
xs:restriction (in xs:complexContent) [128],
xs:sequence [138],
xs:sequence (in xs:group) [141]

Known Usage Locations

- **Within global complexTypes (1):**

  xs:realGroup [237]

- **Within model groups (3):**

  xs:nestedParticle [352], xs:particle [355], xs:typeDefParticle [365]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-choice

XML Source

```
<xs:element id="choice" name="choice" type="xs:explicitGroup">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-choice"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

xs:nonNegativeInteger | "unbounded"

Default: "1"

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

{any attribute from non-schema namespace}

Defined: within xs:explicitGroup complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content

Defined: by reference within `xs:explicitGroup` complexType

`xs:any` [30]

Type: anonymous complexType (extension of `xs:wildcard`) [31], complex content
Defined: by reference within `xs:nestedParticle` group

`xs:choice` [46]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:nestedParticle` group

`xs:element` [67]

Type: `xs:localElement` [210], complex content
Defined: locally within `xs:nestedParticle` group

`xs:group` [89]

Type: `xs:groupRef` [201], complex content
Defined: locally within `xs:nestedParticle` group

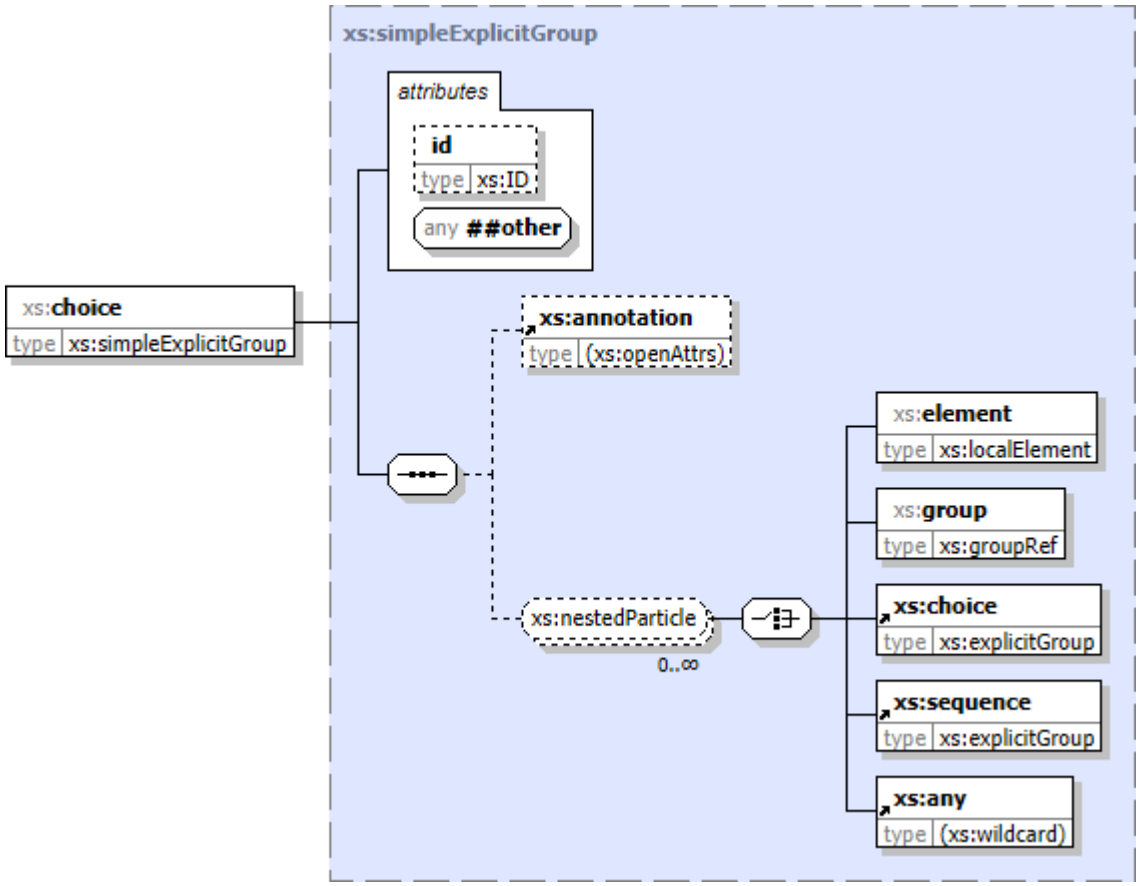
`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:nestedParticle` group

element <xs:choice> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:simpleExplicitGroup [242]
Content: complex, 1 attribute, attr. wildcard, 6 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:namedGroup complexType [223] in XMLSchema.xsd; see XML source [49]

Component Diagram



XML Representation Summary

```
<xs:choice
   id = xs:ID
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:element | xs:group | xs:choice | xs:sequence | xs:any)*
</xs:choice>
```

Included in content model of elements (1):

xs:group [87]

XML Source

```
<xs:element name="choice" type="xs:simpleExplicitGroup"/>
```

Attribute Detail (all declarations; 2/2)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within `xs:simpleExplicitGroup` complexType

Content Element Detail (all declarations; 6/6)

`xs:annotation` [27]

Type: anonymous complexType (extension of `xs:openAttrs`) [28], complex content
Defined: by reference within `xs:simpleExplicitGroup` complexType

`xs:any` [30]

Type: anonymous complexType (extension of `xs:wildcard`) [31], complex content
Defined: by reference within `xs:nestedParticle` group

`xs:choice` [46]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:nestedParticle` group

`xs:element` [67]

Type: `xs:localElement` [210], complex content
Defined: locally within `xs:nestedParticle` group

`xs:group` [89]

Type: `xs:groupRef` [201], complex content
Defined: locally within `xs:nestedParticle` group

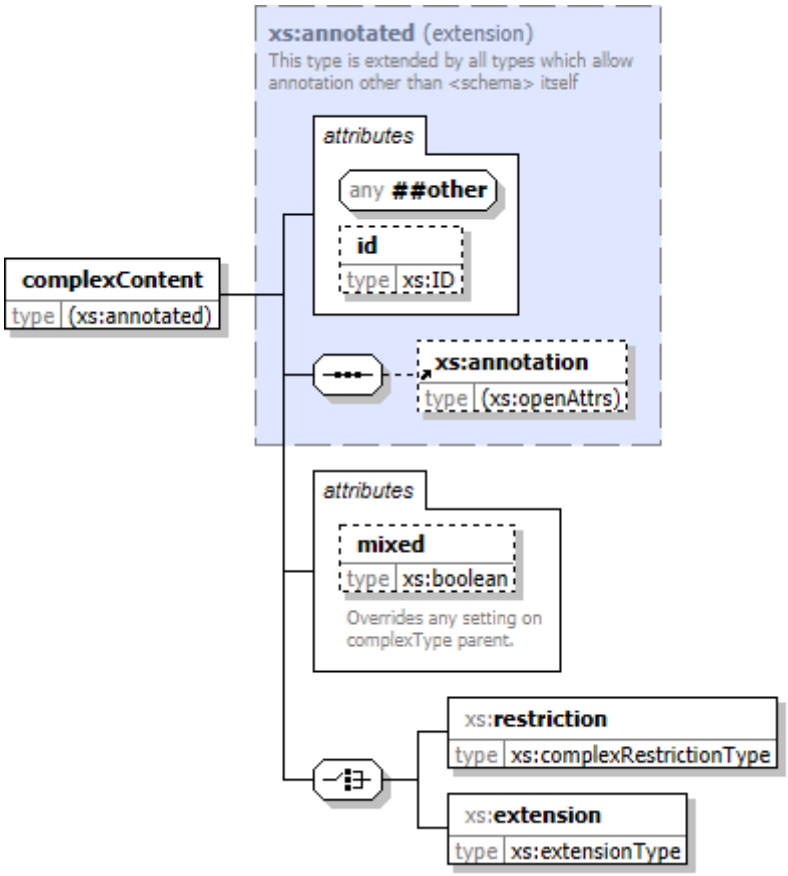
`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:nestedParticle` group

element <xs:complexContent> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [52]
Content: complex, 2 attributes, attr. wildcard, 3 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [52]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:complexContent
    id     = xs:ID
    mixed  = xs:boolean
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:restriction | xs:extension)
</xs:complexContent>
```

Included in content model of elements (2):

xs:complexType [54], xs:complexType (type xs:localComplexType) [58]

Known Usage Locations

- **Within model groups (1):**

  xs:complexTypeModel [346]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-complexContent

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ **complexType**

XML Source

```
<xs:element id="complexContent" name="complexContent">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-complexContent"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <xs:choice>
          <xs:element name="restriction" type="xs:complexRestrictionType"/>
          <xs:element name="extension" type="xs:extensionType"/>
        </xs:choice>
        <xs:attribute name="mixed" type="xs:boolean">
          <xs:annotation>
            <xs:documentation>
              Overrides any setting on complexType parent.
            </xs:documentation>
          </xs:annotation>
        </xs:attribute>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

mixed

Type: xs:boolean [278]
Use: optional
Defined: locally within (this) xs:complexContent element

Overrides any setting on complexType parent.

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 3/3)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:extension [77]

Type: xs:extensionType [192], complex content
Defined: locally within (this) xs:complexContent element

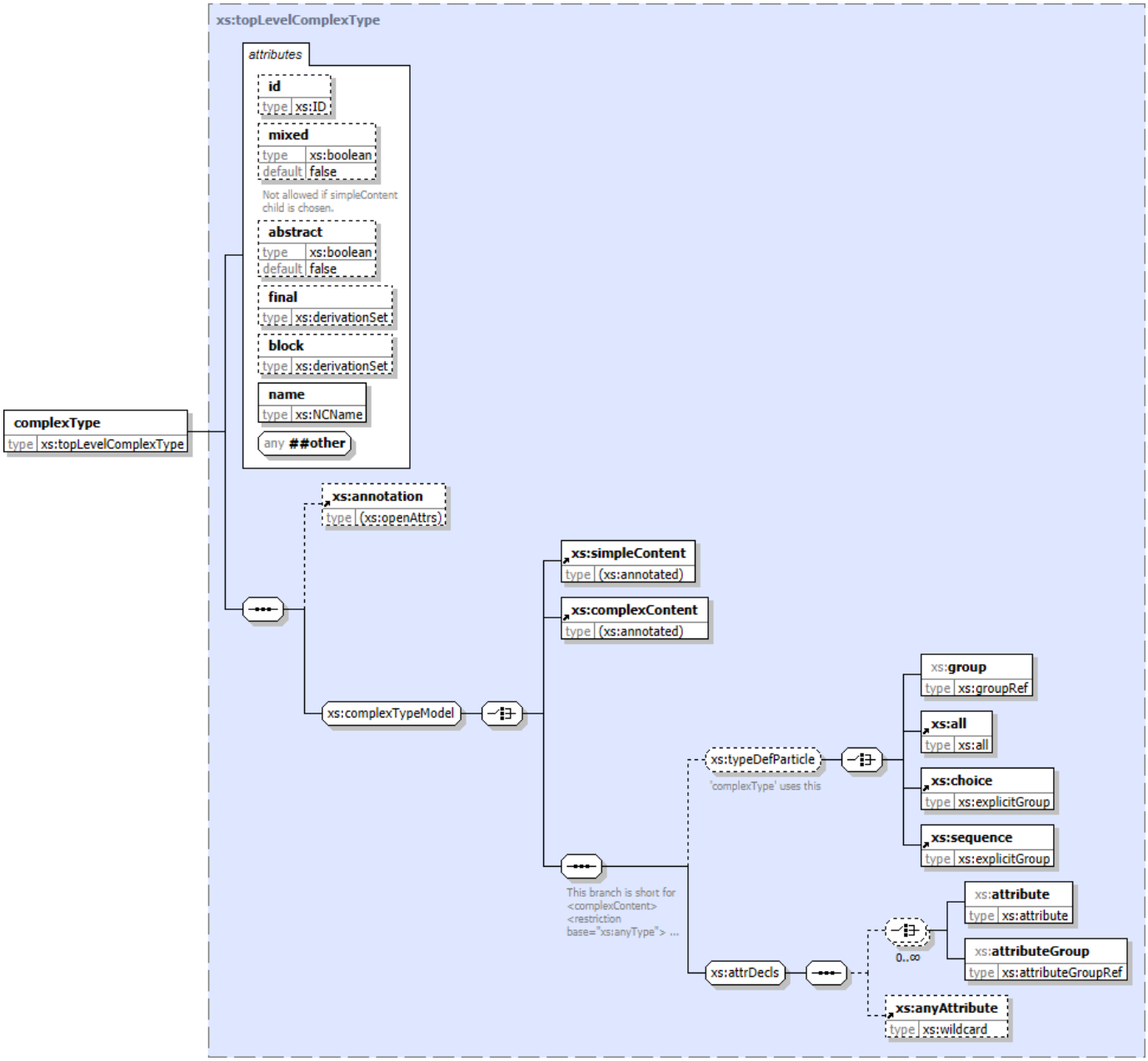
xs:restriction [128]

Type: xs:complexRestrictionType [176], complex content
Defined: locally within (this) xs:complexContent element

element <xs:complexType> (global)

Namespace: `http://www.w3.org/2001/XMLSchema`
Type: `xs:topLevelComplexType [258]`
Content: complex, 6 attributes, attr. wildcard, 10 elements
Block: `"#all"` *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source `[55]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:complexType
    id       = xs:ID
    mixed    = xs:boolean : "false"
    abstract = xs:boolean : "false"
    final    = ("#all" | list of ("extension" | "restriction"))
    block    = ("#all" | list of ("extension" | "restriction"))
    name     = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleContent | xs:complexContent | ((xs:group | xs:all | xs:choice |
             xs:sequence)?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?))
</xs:complexType>
```

Included in content model of elements (2):

xs:redefine [121], xs:schema [17]

Known Usage Locations

- **Within model groups (1):**

  xs:redefinable [357]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-complexType

XML Source

```
<xs:element id="complexType" name="complexType" type="xs:topLevelComplexType">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-complexType"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 7/7)

abstract

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:complexType* complexType

Attribute Value

Default: "false"

block

Type: xs:derivationSet [286]
Use: optional
Defined: locally within *xs:complexType* complexType

Attribute Value

```
"#all" | list of ("extension" | "restriction")
```

final

Type: xs:derivationSet [286]
Use: optional
Defined: locally within *xs:complexType* complexType

Attribute Value

```
"#all" | list of ("extension" | "restriction")
```

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

mixed

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:complexType* complexType

Not allowed if simpleContent child is chosen.
May be overriden by setting on complexContent child.

Attribute Value

Default: "false"

---

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:topLevelComplexType complexType

{any attribute from non-schema namespace}

Defined: within xs:topLevelComplexType complexType

Content Element Detail (all declarations; 10/10)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:topLevelComplexType complexType

---

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

---

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

---

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

---

xs:choice [46]

Type: xs:explicitGroup [188], complex content

Defined: by reference within `xs:typeDefParticle` group

`xs:complexContent` [51]

Type: anonymous complexType (extension of `xs:annotated`) [52], complex content
Defined: by reference within `xs:complexTypeModel` group

`xs:group` [89]

Type: `xs:groupRef` [201], complex content
Defined: locally within `xs:typeDefParticle` group

`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:typeDefParticle` group

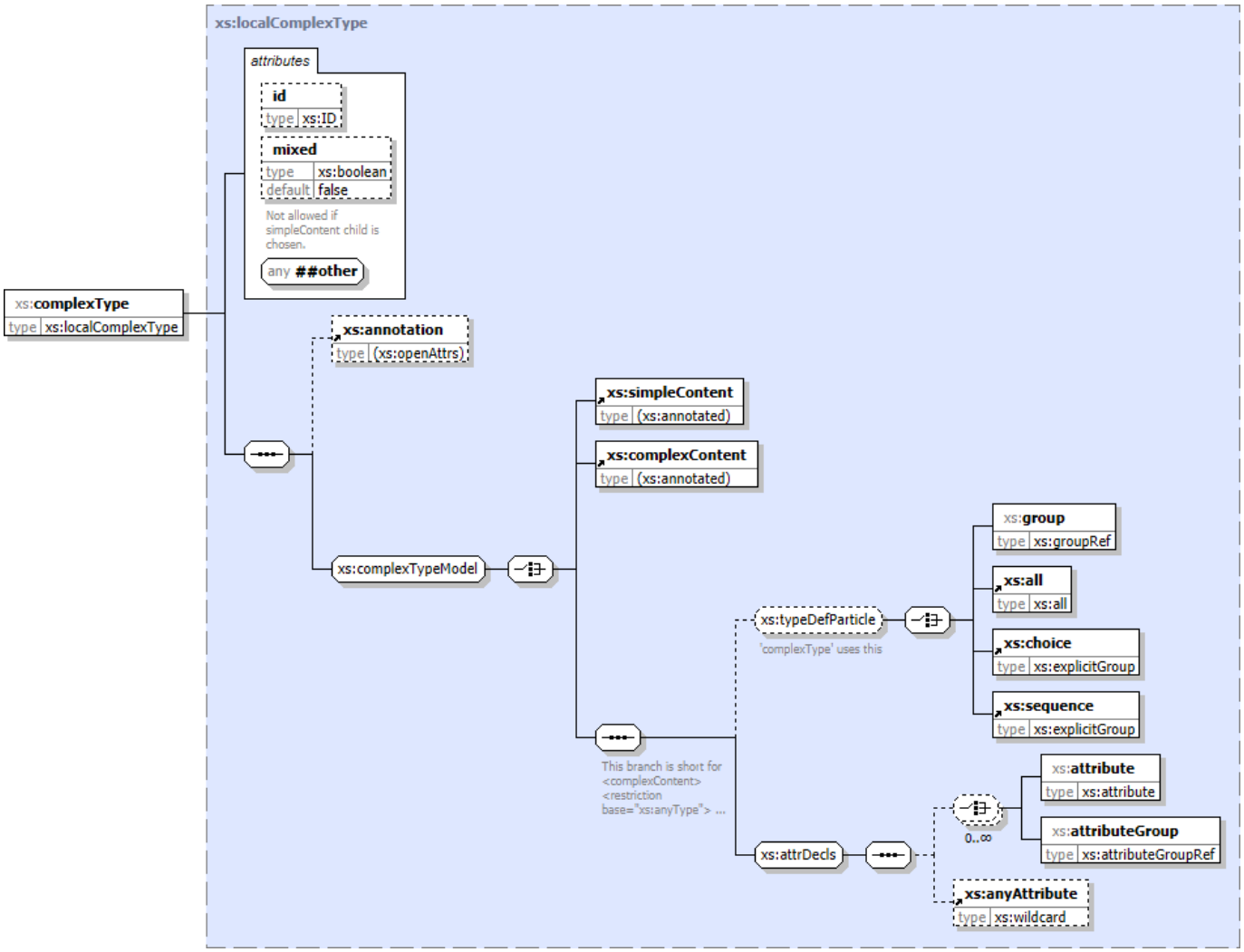
`xs:simpleContent` [143]

Type: anonymous complexType (extension of `xs:annotated`) [144], complex content
Defined: by reference within `xs:complexTypeModel` group

element <xs:complexType> (unified local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:localComplexType [206]
Content: complex, 2 attributes, attr. wildcard, 10 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally at 4 locations in XMLSchema.xsd

Component Diagram



XML Representation Summary

```
<xs:complexType
    id    = xs:ID
    mixed = xs:boolean : "false"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleContent | xs:complexContent | ((xs:group | xs:all | xs:choice |
             xs:sequence)?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?))
</xs:complexType>
```

Included in content model of elements (3):

xs:element [63], xs:element (type xs:narrowMaxMin) [71]
xs:element (type xs:localElement) [67],

Definition Locations

- **Within global complexTypes (4):**

xs:element [187], xs:localElement [213], xs:narrowMaxMin [228], xs:topLevelElement [265]

Annotations (1) (by all definition locations)

Locations (4):

within *xs:element* complexType [187], within xs:topLevelElement complexType [265], within xs:localElement complexType [213], within xs:narrowMaxMin complexType [228]

Annotation:

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

mixed

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:complexType* complexType

Not allowed if simpleContent child is chosen.
May be overriden by setting on complexContent child.

Attribute Value

Default: "false"

{any attribute from non-schema namespace}

Defined: within xs:localComplexType complexType

Content Element Detail (all declarations; 10/10)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:localComplexType complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

xs:complexContent [51]

Type: anonymous complexType (extension of xs:annotated) [52], complex content
Defined: by reference within xs:complexTypeModel group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

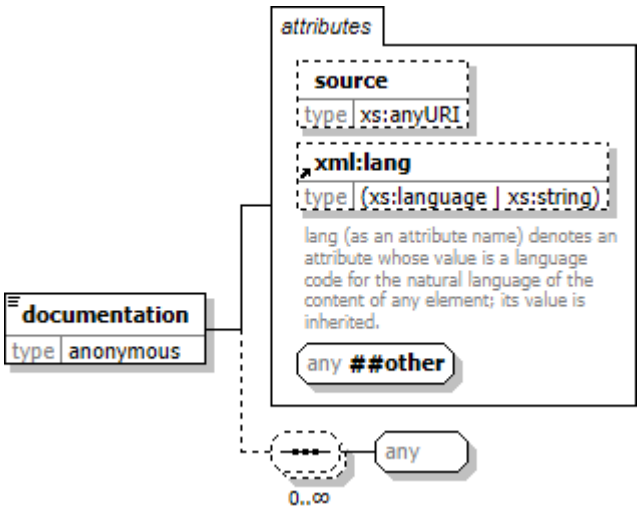
xs:simpleContent [143]

Type: anonymous complexType (extension of xs:annotated) [144], complex content
Defined: by reference within xs:complexTypeModel group

element <xs:documentation> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType
Content: mixed *(allows character data)*, 2 attributes, attr. wildcard, elem. wildcard
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [61]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:documentation
    source   = xs:anyURI
    xml:lang = (xs:language | "")
    {any attribute from non-schema namespace}
    >
    Content: {text} × {any}*
</xs:documentation>
```

Included in content model of elements (1):

xs:annotation [27]

Known Usage Locations

- **Within anonymous complexTypes of elements (1):**

  xs:annotation [29]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-documentation

XML Source

```
<xs:element id="documentation" name="documentation">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-documentation"/>
  </xs:annotation>
  <xs:complexType mixed="true">
    <xs:sequence maxOccurs="unbounded" minOccurs="0">
      <xs:any processContents="lax"/>
    </xs:sequence>
    <xs:attribute name="source" type="xs:anyURI"/>
    <xs:attribute ref="xml:lang"/>
    <xs:anyAttribute namespace="##other" processContents="lax"/>
```

```
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

- source

  Type: xs:anyURI [273]
  Use: optional
  Defined: locally within (this) xs:documentation element

- xml:lang [373]

  Type: anonymous simpleType (union of (xs:language | restriction of xs:string)) [373]
  Use: optional
  Defined: by reference within (this) xs:documentation element

  Attribute Value

  xs:language | ""

- *{any attribute from non-schema namespace}*

  Defined: within (this) xs:documentation element

Content Element Detail (all declarations; 1/1)

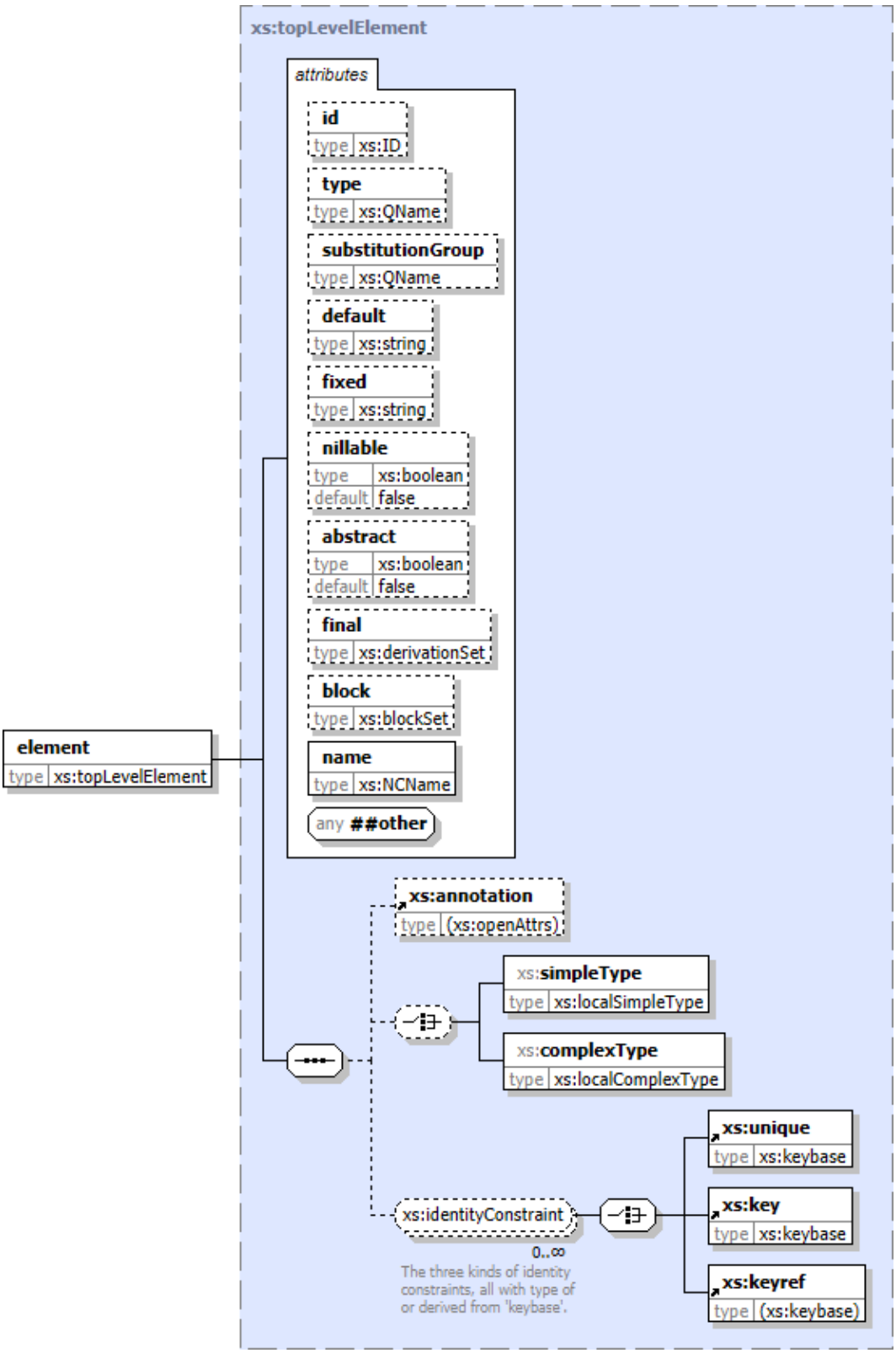
- *{any element from any namespace}*

  Defined: within (this) xs:documentation element

element <xs:element> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:topLevelElement [262]
Content: complex, 10 attributes, attr. wildcard, 6 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [64]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:element
    id                = xs:ID
    type              = xs:QName
    substitutionGroup = xs:QName
    default           = xs:string
    fixed             = xs:string
    nillable          = xs:boolean : "false"
    abstract          = xs:boolean : "false"
    final             = ("#all" | list of ("extension" | "restriction"))
    block             = ("#all" | list of ("extension" | "restriction" | "substitution"))
    name              = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType | xs:complexType)?, (xs:unique | xs:key | xs:keyref)*
</xs:element>
```

Included in content model of elements (1):

xs:schema [17]

Known Usage Locations

- **Within model groups (1):**

  xs:schemaTop [359]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-element

XML Source

```
<xs:element id="element" name="element" type="xs:topLevelElement">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-element"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 11/11)

abstract

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

Default: "false"

block

Type: xs:blockSet [276]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

```
"#all" | list of ("extension" | "restriction" | "substitution")
```

default

Type: xs:string [333]
Use: optional
Defined: locally within *xs:element* complexType

- final

  Type: xs:derivationSet [286]
  Use: optional
  Defined: locally within *xs:element* complexType

  Attribute Value

  ```
  "#all" | list of ("extension" | "restriction")
  ```

- fixed

  Type: xs:string [333]
  Use: optional
  Defined: locally within *xs:element* complexType

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- name

  Type: xs:NCName [313]
  Use: required
  Defined: locally within xs:topLevelElement complexType

- nillable

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within *xs:element* complexType

  Attribute Value

  Default: "false"

- substitutionGroup

  Type: xs:QName [327]
  Use: optional
  Defined: locally within *xs:element* complexType

- type

  Type: xs:QName [327]
  Use: optional
  Defined: locally within *xs:element* complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:topLevelElement complexType

Content Element Detail (all declarations; 6/6)

- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:topLevelElement complexType

xs:complexType [58]

Type: xs:localComplexType [206], complex content
Defined: locally within xs:topLevelElement complexType

xs:key [95]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

xs:keyref [97]

Type: anonymous complexType (extension of xs:keybase) [98], complex content
Defined: by reference within xs:identityConstraint group

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:topLevelElement complexType

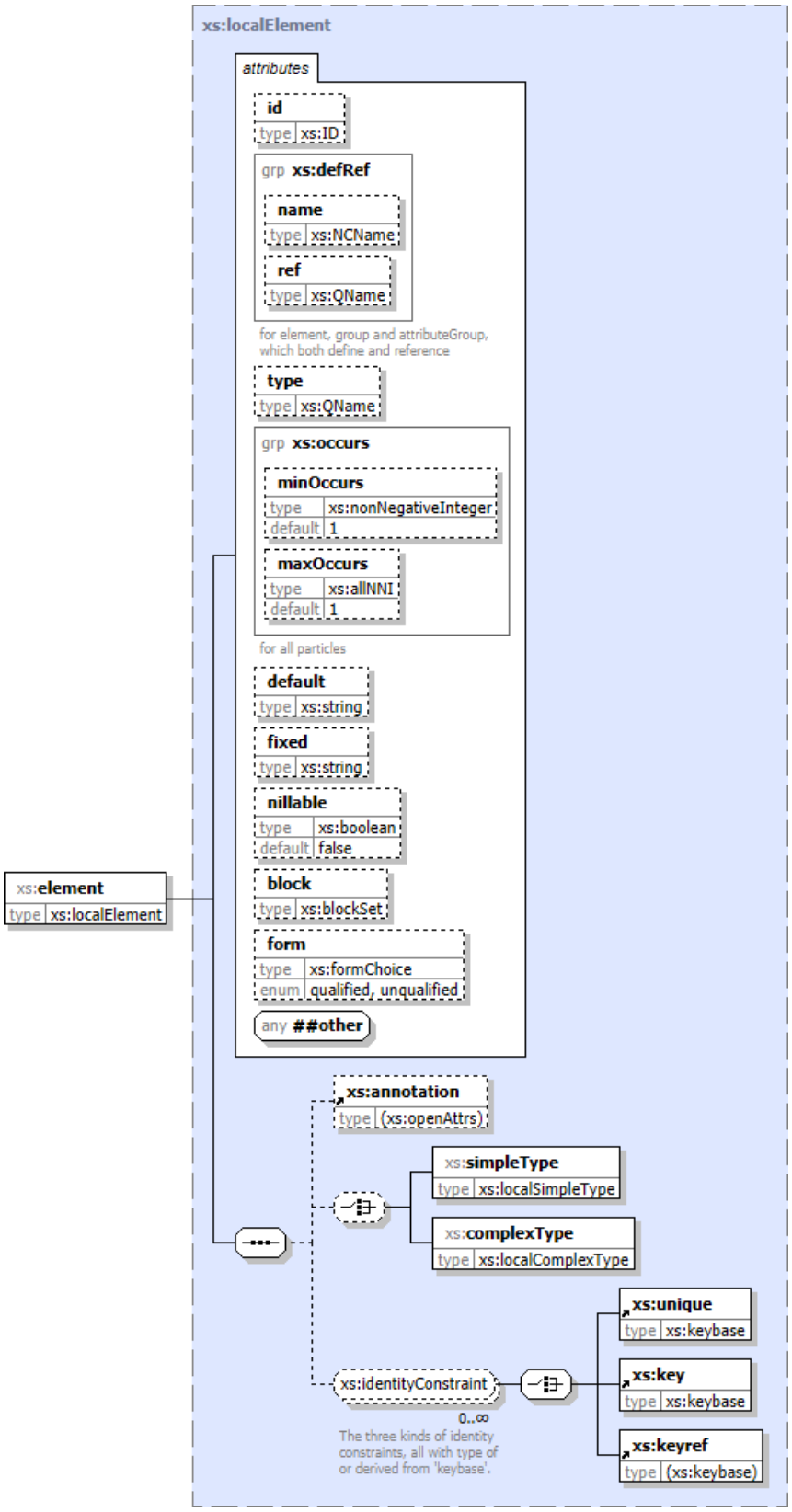
xs:unique [154]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

element <xs:element> (unified local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:localElement [210]
Content: complex, 11 attributes, attr. wildcard, 6 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally at 2 locations in XMLSchema.xsd

Component Diagram



XML Representation Summary

```
<xs:element
    id          = xs:ID
    name        = xs:NCName
    ref         = xs:QName
    type        = xs:QName
    minOccurs   = xs:nonNegativeInteger : "1"
    maxOccurs   = (xs:nonNegativeInteger | "unbounded") : "1"
    default     = xs:string
    fixed       = xs:string
    nillable    = xs:boolean : "false"
    block       = ("#all" | list of ("extension" | "restriction" | "substitution"))
    form        = ("qualified" | "unqualified")
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType | xs:complexType)?, (xs:unique | xs:key | xs:keyref)*
</xs:element>
```

Included in content model of elements (4):

xs:choice [46], xs:sequence [138],
xs:choice (in xs:group) [49], xs:sequence (in xs:group) [141]

Definition Locations

- **Within model groups (2):**

  xs:nestedParticle [352], xs:particle [355]

Annotations (1) (by all definition locations)

Locations (2):

within xs:nestedParticle group [352], within xs:particle group [355]

Annotation:

Attribute Detail (all declarations; 12/12)

block

Type: xs:blockSet [276]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

```
"#all" | list of ("extension" | "restriction" | "substitution")
```

default

Type: xs:string [333]
Use: optional
Defined: locally within *xs:element* complexType

fixed

Type: xs:string [333]
Use: optional
Defined: locally within *xs:element* complexType

form

Type: xs:formChoice [293]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

enumeration of xs:NMTOKEN

Enumeration: "qualified", "unqualified"

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

xs:nonNegativeInteger | "unbounded"

Default: "1"

---

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

---

name

Type: xs:NCName [313]
Use: optional
Defined: locally within xs:defRef attributeGroup

---

nillable

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

Default: "false"

---

ref

Type: xs:QName [327]
Use: optional
Defined: locally within xs:defRef attributeGroup

---

type

Type: xs:QName [327]
Use: optional
Defined: locally within *xs:element* complexType

{any attribute from non-schema namespace}

Defined: within xs:localElement complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:localElement complexType

xs:complexType [58]

Type: xs:localComplexType [206], complex content
Defined: locally within xs:localElement complexType

xs:key [95]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

xs:keyref [97]

Type: anonymous complexType (extension of xs:keybase) [98], complex content
Defined: by reference within xs:identityConstraint group

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:localElement complexType

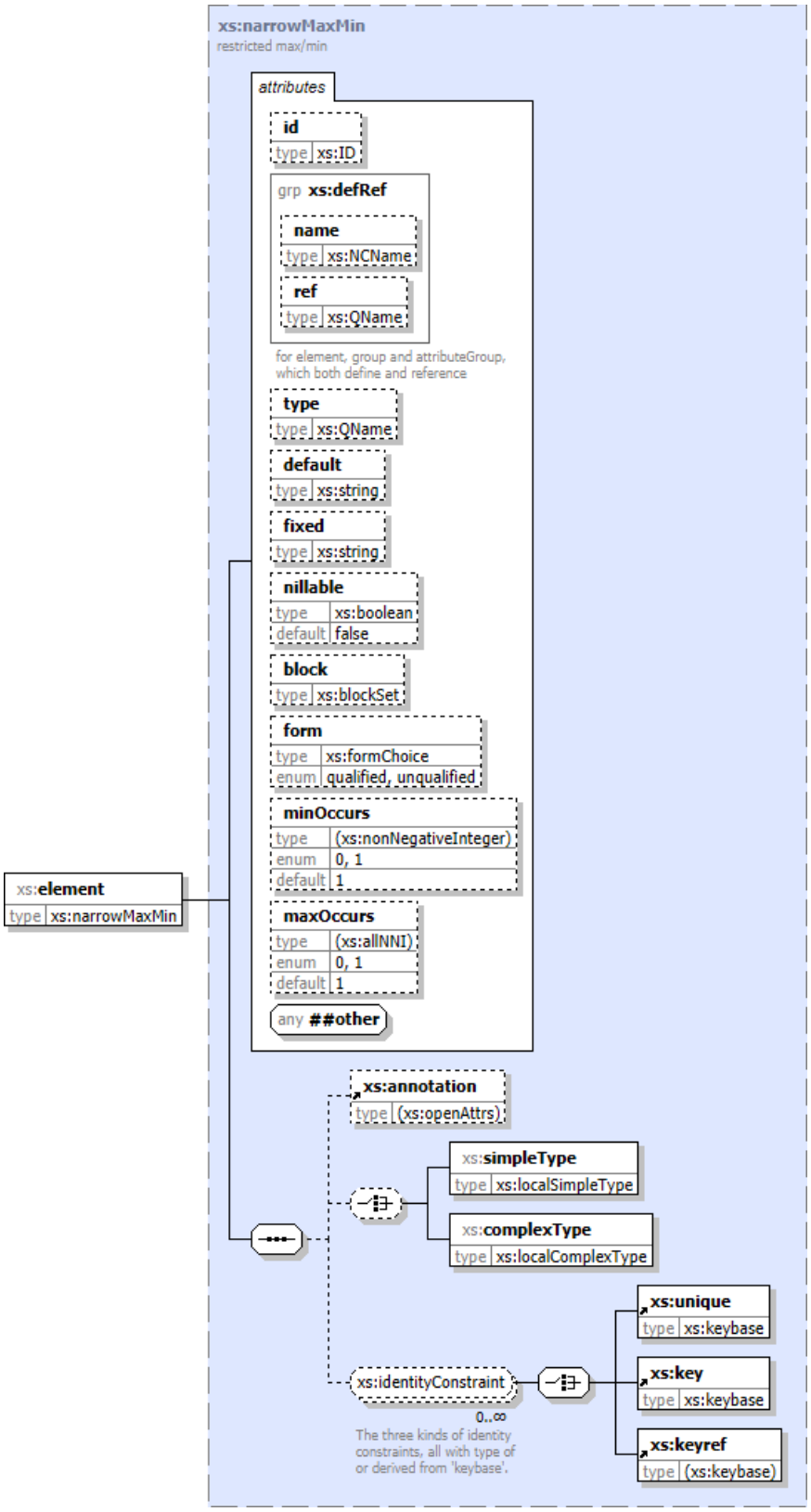
xs:unique [154]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

element <xs:element> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:narrowMaxMin [224]
Content: complex, 11 attributes, attr. wildcard, 6 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:allModel group [343] in XMLSchema.xsd; see XML source [72]

Component Diagram



XML Representation Summary

```
<xs:element
    id          = xs:ID
    name        = xs:NCName
    ref         = xs:QName
    type        = xs:QName
    default     = xs:string
    fixed       = xs:string
    nillable    = xs:boolean : "false"
    block       = ("#all" | list of ("extension" | "restriction" | "substitution"))
    form        = ("qualified" | "unqualified")
    minOccurs   = ("0" | "1") : "1"
    maxOccurs   = ("0" | "1") : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType | xs:complexType)?, (xs:unique | xs:key | xs:keyref)*
</xs:element>
```

Included in content model of elements (2):

xs:all [22], xs:all (in xs:group) [25]

XML Source

```
<xs:element name="element" type="xs:narrowMaxMin"/>
```

Attribute Detail (all declarations; 12/12)

- block

  Type: xs:blockSet [276]
  Use: optional
  Defined: locally within *xs:element* complexType

  Attribute Value

  ```
  "#all" | list of ("extension" | "restriction" | "substitution")
  ```

- default

  Type: xs:string [333]
  Use: optional
  Defined: locally within *xs:element* complexType

- fixed

  Type: xs:string [333]
  Use: optional
  Defined: locally within *xs:element* complexType

- form

  Type: xs:formChoice [293]
  Use: optional
  Defined: locally within *xs:element* complexType

  Attribute Value

  ```
  enumeration of xs:NMTOKEN
  ```

  Enumeration: "qualified", "unqualified"

- id

  Type: xs:ID [302]

Use: optional
Defined: locally within `xs:annotated` complexType

---

maxOccurs

Type: anonymous simpleType (restriction of `xs:allNNI`) [73]
Use: optional
Defined: locally within `xs:narrowMaxMin` complexType

Attribute Value

enumeration of (`xs:nonNegativeInteger` | "unbounded")

Enumeration: "0", "1"
Default: "1"

Anonymous simpleType

Type Derivation Tree

union of (`xs:nonNegativeInteger` | restriction of `xs:NMTOKEN`)
- `xs:allNNI` [272] (restriction)
  - **simpleType** [227]

---

minOccurs

Type: anonymous simpleType (restriction of `xs:nonNegativeInteger`) [73]
Use: optional
Defined: locally within `xs:narrowMaxMin` complexType

Attribute Value

enumeration of `xs:nonNegativeInteger`

Enumeration: "0", "1"
Default: "1"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
- `xs:decimal` [282] (restriction)
  - `xs:integer` [306] (restriction)
    - `xs:nonNegativeInteger` [319] (restriction)
      - **simpleType** [227]

---

name

Type: `xs:NCName` [313]
Use: optional
Defined: locally within `xs:defRef` attributeGroup

---

nillable

Type: `xs:boolean` [278]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

Default: "false"

---

ref

Type: `xs:QName` [327]
Use: optional
Defined: locally within `xs:defRef` attributeGroup

type

Type: xs:QName [327]
Use: optional
Defined: locally within *xs:element* complexType

{any attribute from non-schema namespace}

Defined: within xs:narrowMaxMin complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:narrowMaxMin complexType

xs:complexType [58]

Type: xs:localComplexType [206], complex content
Defined: locally within xs:narrowMaxMin complexType

xs:key [95]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

xs:keyref [97]

Type: anonymous complexType (extension of xs:keybase) [98], complex content
Defined: by reference within xs:identityConstraint group

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:narrowMaxMin complexType

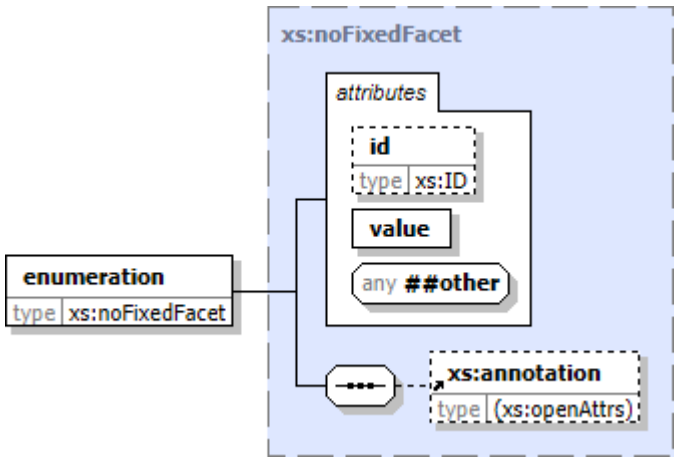
xs:unique [154]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

element <xs:enumeration> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:noFixedFacet [229]
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [75]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:enumeration
    id    = xs:ID
    value = xs:anySimpleType
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:enumeration>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [348]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-enumeration

XML Source

```
<xs:element id="enumeration" name="enumeration" type="xs:noFixedFacet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-enumeration"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional

Defined: locally within `xs:annotated` complexType

`value`

Type: `xs:anySimpleType`
Use: required
Defined: locally within `xs:facet` complexType

{any attribute from non-schema namespace}

Defined: within `xs:noFixedFacet` complexType

Content Element Detail (all declarations; 1/1)

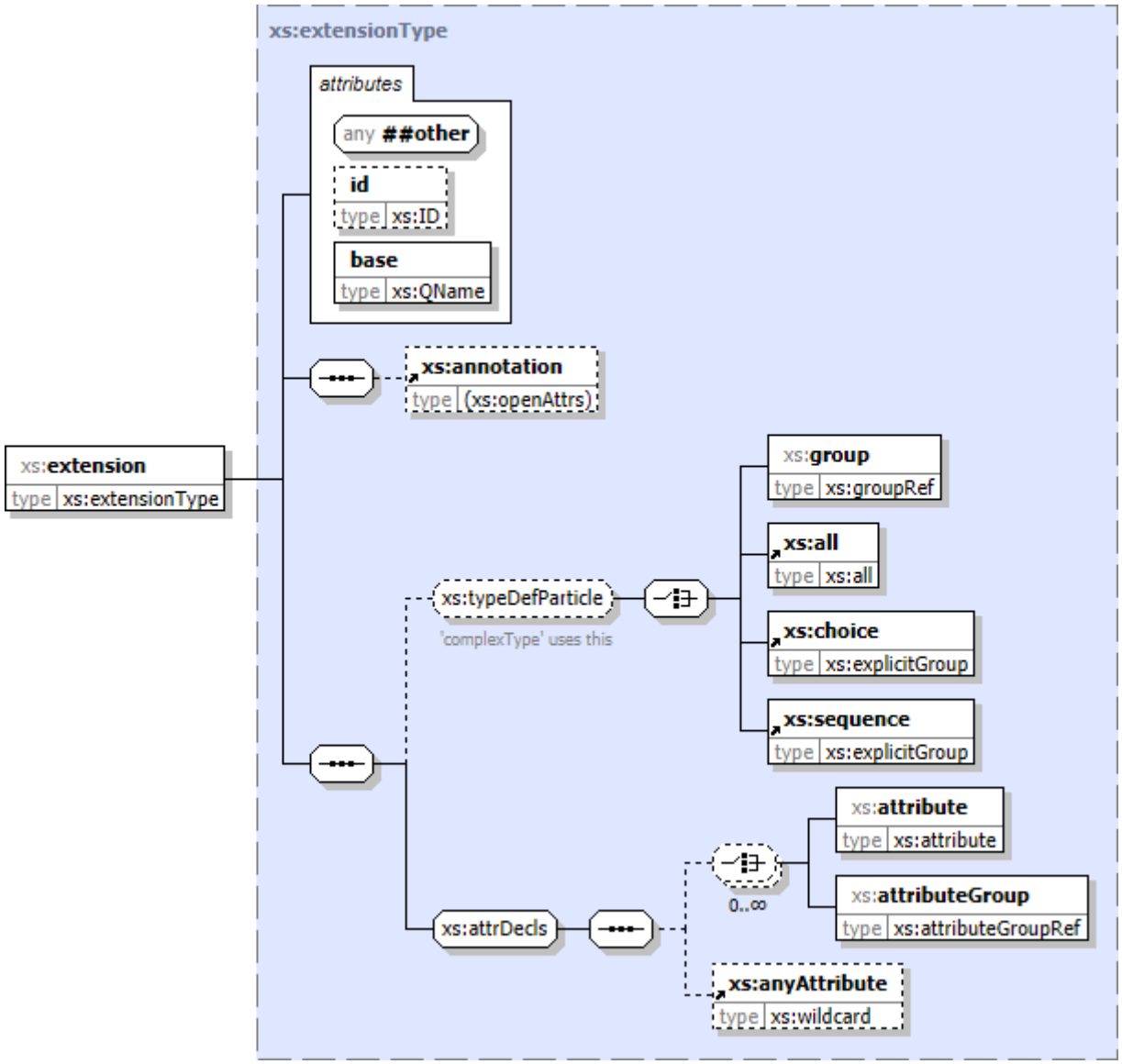
`xs:annotation` [27]

Type: anonymous complexType (extension of `xs:openAttrs`) [28], complex content
Defined: by reference within `xs:noFixedFacet` complexType

element <xs:extension> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:extensionType [192]
Content: complex, 2 attributes, attr. wildcard, 8 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:complexContent element [52] in XMLSchema.xsd; see XML source [78]

Component Diagram



XML Representation Summary

```
<xs:extension
   id   = xs:ID
   base = xs:QName
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:group | xs:all | xs:choice | xs:sequence)?, (xs:attribute |
            xs:attributeGroup)*, xs:anyAttribute?
</xs:extension>
```

Included in content model of elements (1):

xs:complexContent [51]

XML Source

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

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within xs:extensionType complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 8/8)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

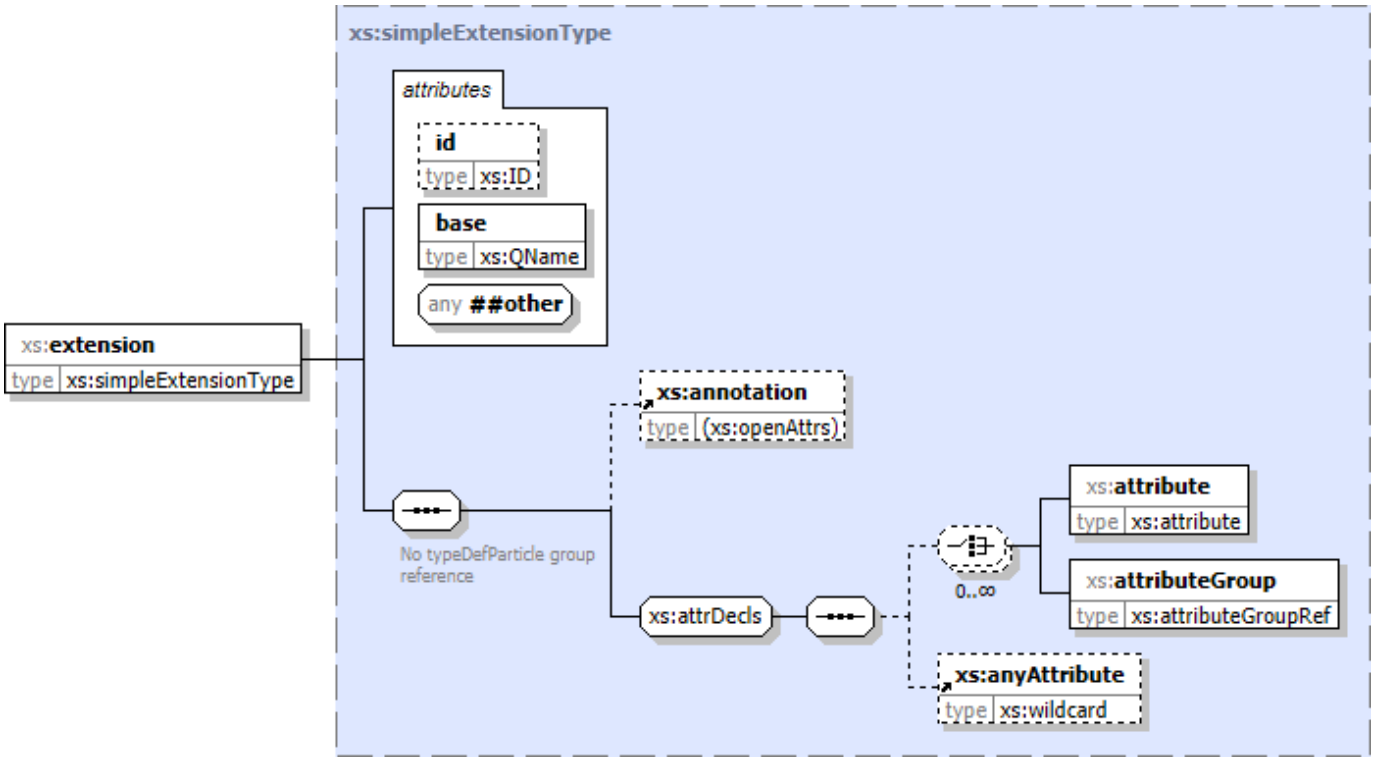
`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:typeDefParticle` group

element <xs:extension> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:simpleExtensionType [245]
Content: complex, 2 attributes, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:simpleContent element [144] in XMLSchema.xsd; see XML source [80]

Component Diagram



XML Representation Summary

```
<xs:extension
   id   = xs:ID
   base = xs:QName
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?
</xs:extension>
```

Included in content model of elements (1):

xs:simpleContent [143]

XML Source

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

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within xs:extensionType complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:simpleExtensionType complexType

Content Element Detail (all declarations; 4/4)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:simpleExtensionType complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

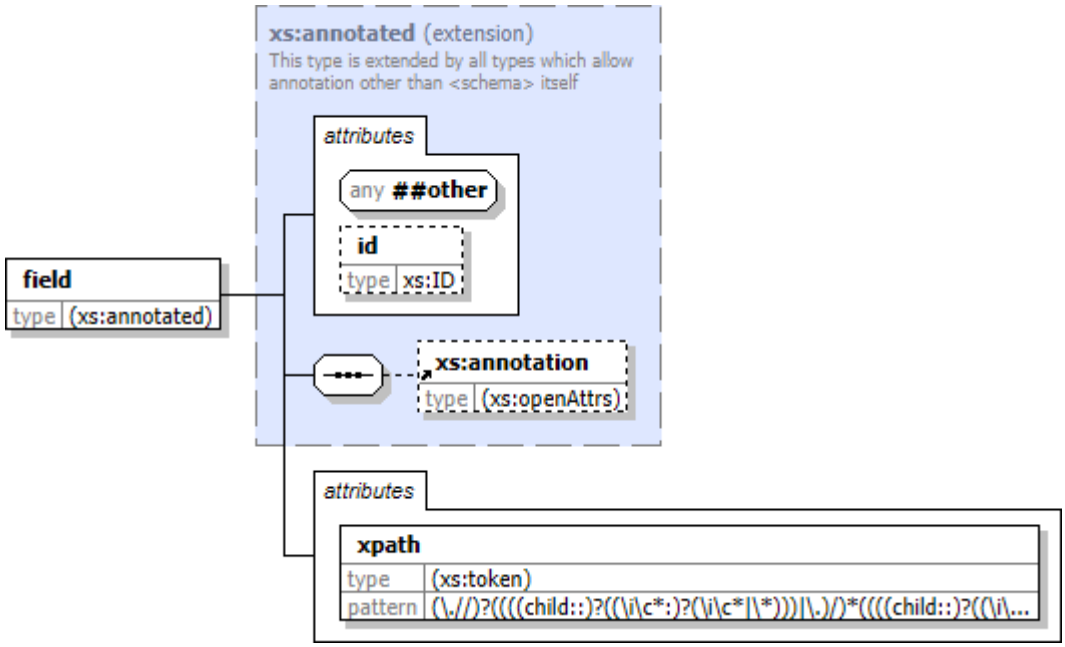
xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

element <xs:field> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [83]
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [83]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:field
   id    = xs:ID
   xpath = xs:token
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?
</xs:field>
```

Included in content model of elements (3):

xs:key [95], xs:keyref [97], xs:unique [154]

Known Usage Locations

- **Within global complexTypes (1):**

  xs:keybase [205]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-field

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ complexType
```

XML Source

```
<xs:element id="field" name="field">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-field"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <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*|\*)))|\.)/)*((((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 Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

xpath

Type: anonymous simpleType (restriction of xs:token) [84]
Use: required
Defined: locally within (this) xs:field element

Attribute Value

xs:token

Pattern:
```
(\.//)?((((child::)?((\i\c*:)?(\i\c*|\*)))|\.)/)*((((child::)?((\i\c*:)?(\i\c*|\*)))|\.)|((
attribute::|@)((\i\c*:)?(\i\c*|\*))))(\|(\.//)?((((child::)?((\i\c*:)?(\i\c*|\*)))|\.)/)*((((
```

child::)?((\i\c*:)?(\i\c*|*))|\.)|((attribute::|@)((\i\c*:)?(\i\c*|*)))))*

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
- xs:string [333] (restriction)
  - xs:normalizedString [322] (restriction)
    - xs:token [336] (restriction)
      - **simpleType**

Annotation 1:

A subset of XPath expressions for use in fields

Annotation 2:

A utility type, not for public use

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

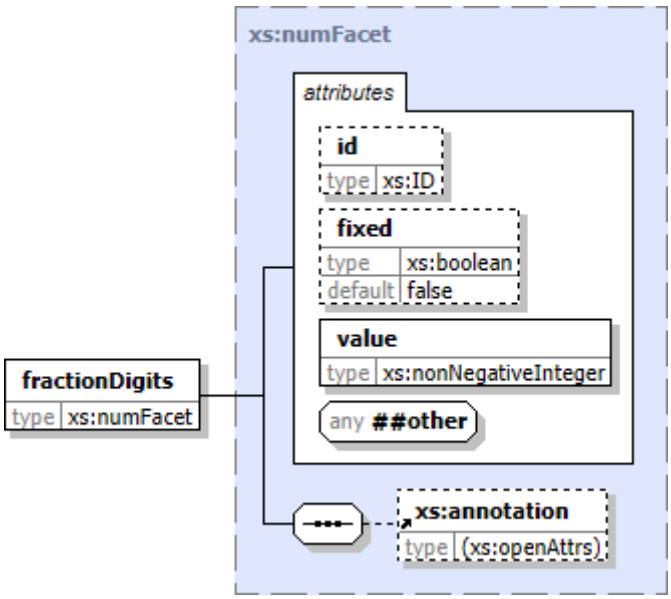
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

element <xs:fractionDigits> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:numFacet [231]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [85]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:fractionDigits
   id    = xs:ID
   fixed = xs:boolean : "false"
   value = xs:nonNegativeInteger
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?
</xs:fractionDigits>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [348]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-fractionDigits

XML Source

```
<xs:element id="fractionDigits" name="fractionDigits" type="xs:numFacet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-fractionDigits"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:nonNegativeInteger [319]
  Use: required
  Defined: locally within xs:numFacet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:numFacet complexType

Content Element Detail (all declarations; 1/1)

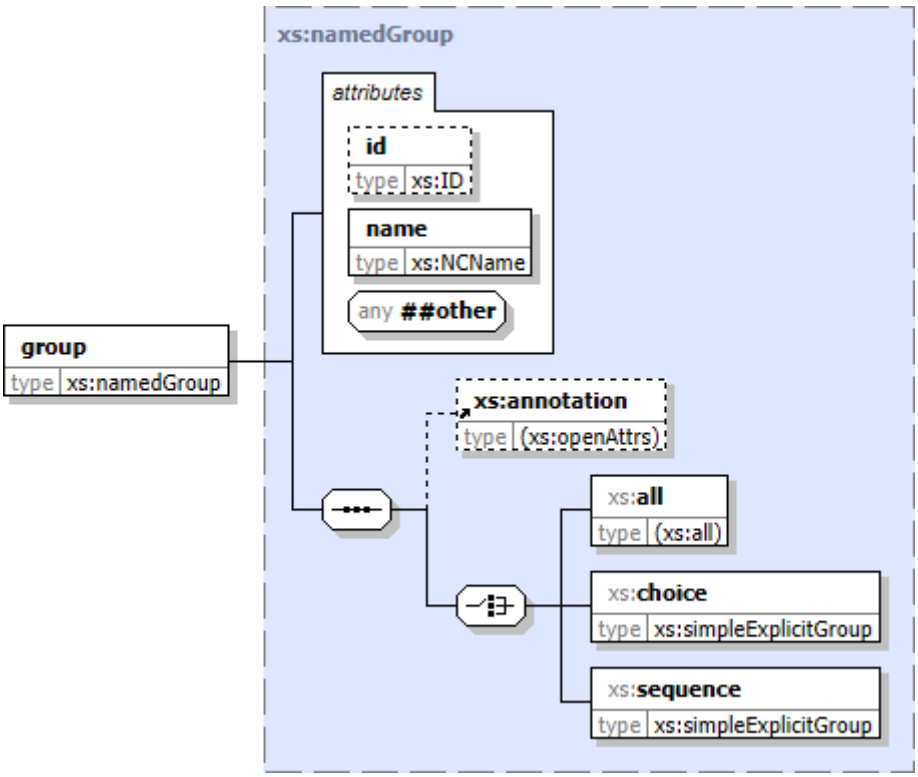
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:numFacet complexType

element <xs:group> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:namedGroup [221]
Content: complex, 2 attributes, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [88]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:group
    id   = xs:ID
    name = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:all | xs:choice | xs:sequence)
</xs:group>
```

Included in content model of elements (2):

xs:redefine [121], xs:schema [17]

Known Usage Locations

- **Within model groups (1):**

  xs:redefinable [357]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-group

XML Source

```
<xs:element id="group" name="group" type="xs:namedGroup">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-group"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:namedGroup complexType

{any attribute from non-schema namespace}

Defined: within xs:namedGroup complexType

Content Element Detail (all declarations; 4/4)

xs:all [25]

Type: anonymous complexType (restriction of xs:all) [26], complex content
Defined: locally within xs:namedGroup complexType

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:namedGroup complexType

xs:choice [49]

Type: xs:simpleExplicitGroup [242], complex content
Defined: locally within xs:namedGroup complexType

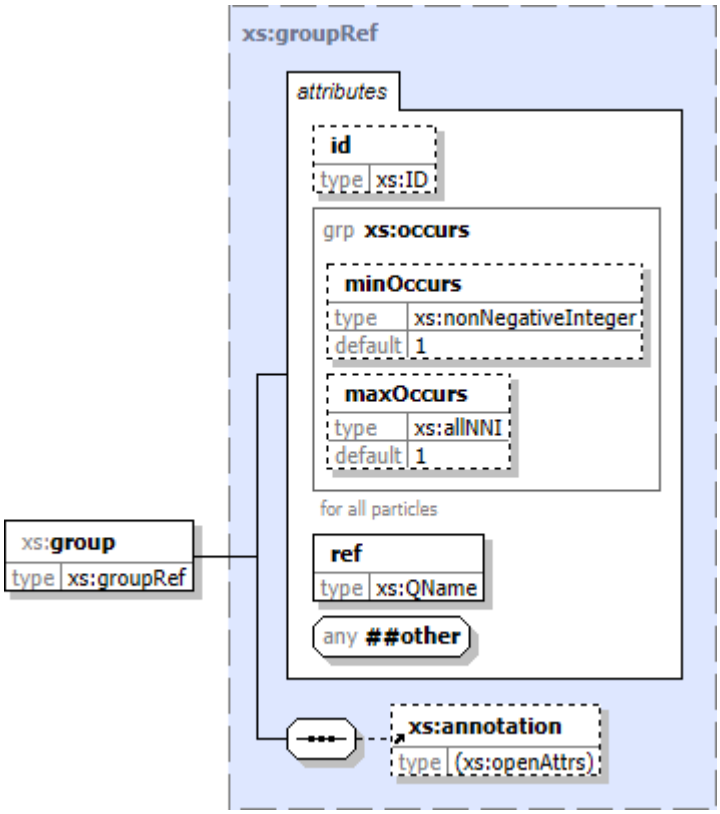
xs:sequence [141]

Type: xs:simpleExplicitGroup [242], complex content
Defined: locally within xs:namedGroup complexType

element <xs:group> (unified local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:groupRef [201]
Content: complex, 4 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally at 3 locations in XMLSchema.xsd

Component Diagram



XML Representation Summary

```
<xs:group
    id          = xs:ID
    minOccurs   = xs:nonNegativeInteger : "1"
    maxOccurs   = (xs:nonNegativeInteger | "unbounded") : "1"
    ref         = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:group>
```

Included in content model of elements (8):

xs:choice [46],
xs:choice (in xs:group) [49],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:extension (in xs:complexContent) [77],
xs:restriction (in xs:complexContent) [128],
xs:sequence [138],
xs:sequence (in xs:group) [141]

Definition Locations

- **Within model groups (3):**

  xs:nestedParticle [353], xs:particle [355], xs:typeDefParticle [365]

Annotations (1) (by all definition locations)

Locations (3):

within `xs:typeDefParticle` group `[365]`, within `xs:nestedParticle` group `[353]`, within `xs:particle` group `[355]`

Annotation:

Attribute Detail (all declarations; 5/5)

id

Type: `xs:ID` `[302]`
Use: optional
Defined: locally within `xs:annotated` complexType

maxOccurs

Type: `xs:allNNI` `[272]`
Use: optional
Defined: locally within `xs:occurs` attributeGroup

Attribute Value

`xs:nonNegativeInteger | "unbounded"`

Default: `"1"`

minOccurs

Type: `xs:nonNegativeInteger` `[319]`
Use: optional
Defined: locally within `xs:occurs` attributeGroup

Attribute Value

Default: `"1"`

ref

Type: `xs:QName` `[327]`
Use: required
Defined: locally within `xs:groupRef` complexType

{any attribute from non-schema namespace}

Defined: within `xs:groupRef` complexType

Content Element Detail (all declarations; 1/1)

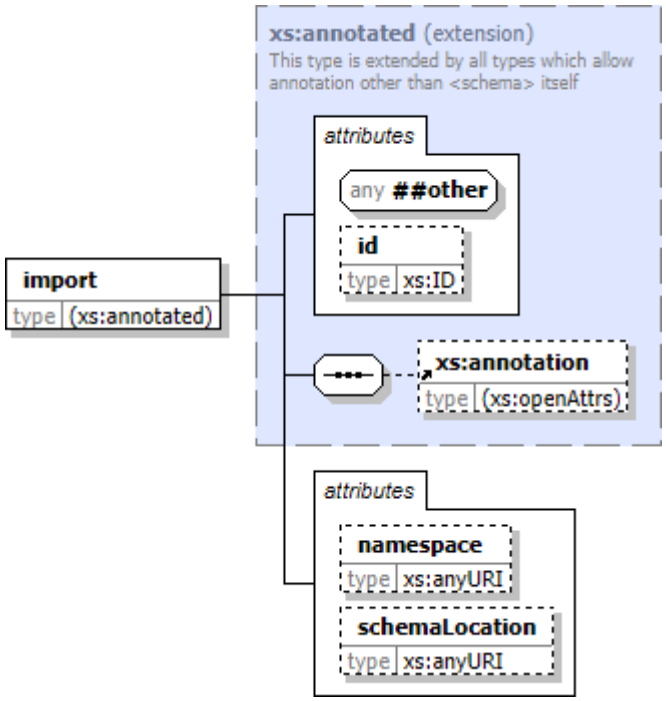
xs:annotation `[27]`

Type: anonymous complexType (extension of `xs:openAttrs`) `[28]`, complex content
Defined: by reference within `xs:groupRef` complexType

element <xs:import> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [92]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [92]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:import
    id             = xs:ID
    namespace      = xs:anyURI
    schemaLocation = xs:anyURI
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:import>
```

Included in content model of elements (1):

xs:schema [17]

Known Usage Locations

- **Within anonymous complexTypes of elements (1):**

  xs:schema [21]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-import

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ **complexType**

XML Source

```
<xs:element id="import" name="import">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-import"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <xs:attribute name="namespace" type="xs:anyURI"/>
        <xs:attribute name="schemaLocation" type="xs:anyURI"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- namespace

  Type: xs:anyURI [273]
  Use: optional
  Defined: locally within (this) xs:import element

- schemaLocation

  Type: xs:anyURI [273]
  Use: optional
  Defined: locally within (this) xs:import element

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

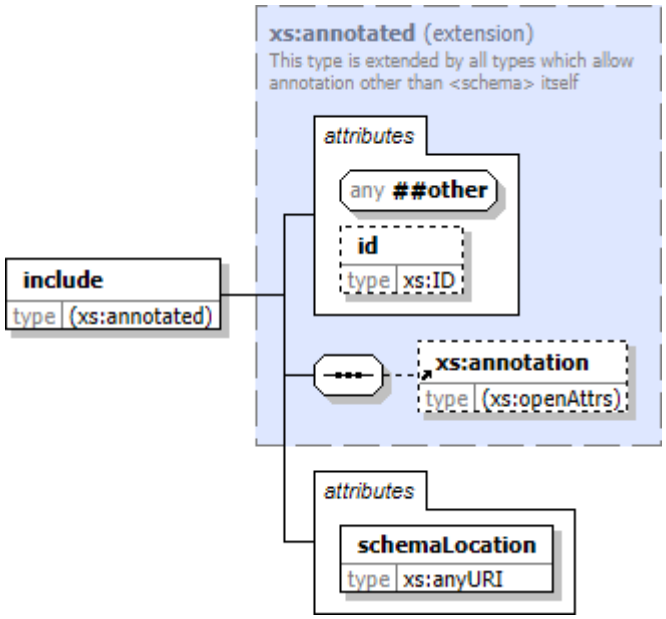
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

element <xs:include> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [94]
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [94]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:include
   id             = xs:ID
   schemaLocation = xs:anyURI
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?
</xs:include>
```

Included in content model of elements (1):

xs:schema [17]

Known Usage Locations

- **Within anonymous complexTypes of elements (1):**

  xs:schema [21]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-include

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ **complexType**

XML Source

```
<xs:element id="include" name="include">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-include"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <xs:attribute name="schemaLocation" type="xs:anyURI" use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- schemaLocation

  Type: xs:anyURI [273]
  Use: required
  Defined: locally within (this) xs:include element

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

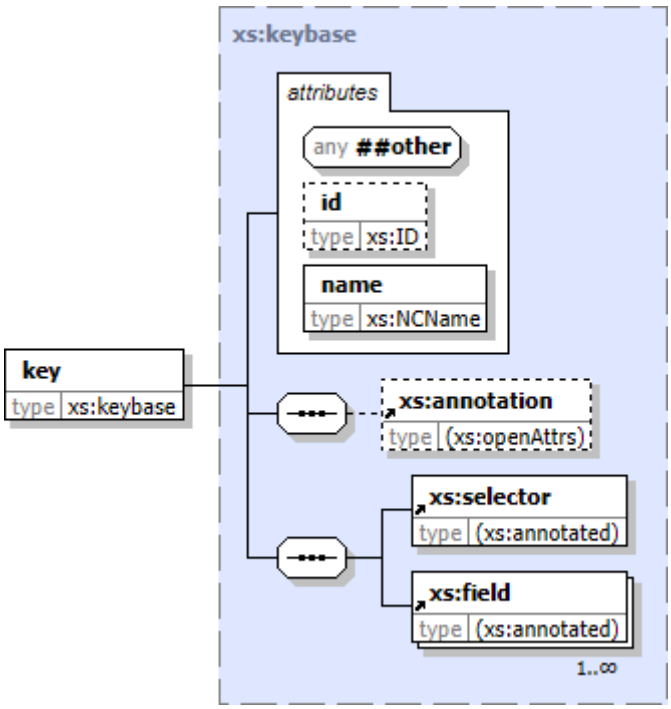
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

element <xs:key> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:keybase [204]
Content: complex, 2 attributes, attr. wildcard, 3 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [95]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:key
   id   = xs:ID
   name = xs:NCName
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, xs:selector, xs:field+
</xs:key>
```

Included in content model of elements (3):

xs:element [63], xs:element (type xs:narrowMaxMin) [71]
xs:element (type xs:localElement) [67],

Known Usage Locations

- **Within model groups (1):**

  xs:identityConstraint [350]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-key

XML Source

```
<xs:element id="key" name="key" type="xs:keybase">
  <xs:annotation>
```

```
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-key"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:keybase complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 3/3)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

---

xs:field [82]

Type: anonymous complexType (extension of xs:annotated) [83], complex content
Defined: by reference within xs:keybase complexType

---

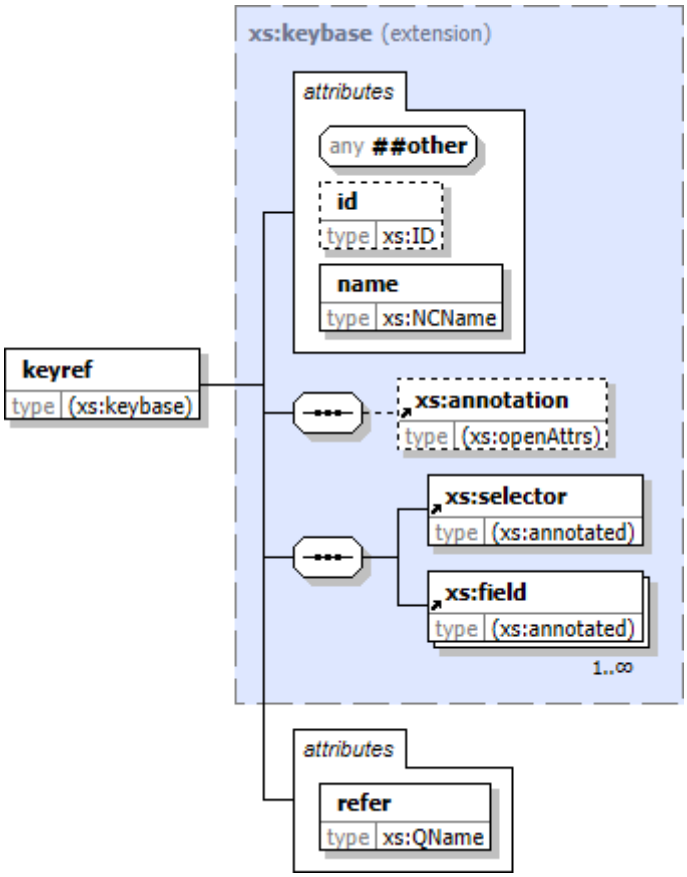
xs:selector [135]

Type: anonymous complexType (extension of xs:annotated) [136], complex content
Defined: by reference within xs:keybase complexType

element <xs:keyref> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:keybase) [98]
Content: complex, 3 attributes, attr. wildcard, 3 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [98]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:keyref
    id     = xs:ID
    name   = xs:NCName
    refer  = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:selector, xs:field+
</xs:keyref>
```

Included in content model of elements (3):

xs:element [63], xs:element (type xs:narrowMaxMin) [71]
xs:element (type xs:localElement) [67],

Known Usage Locations

- **Within model groups (1):**

  xs:identityConstraint [350]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-keyref

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:keybase [204] (extension)
              └ complexType
```

XML Source

```
<xs:element id="keyref" name="keyref">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-keyref"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:keybase">
        <xs:attribute name="refer" type="xs:QName" use="required"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:keybase complexType

refer

Type: xs:QName [327]
Use: required
Defined: locally within (this) xs:keyref element

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 3/3)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:field [82]

Type: anonymous complexType (extension of xs:annotated) [83], complex content

Defined: by reference within `xs:keybase` complexType

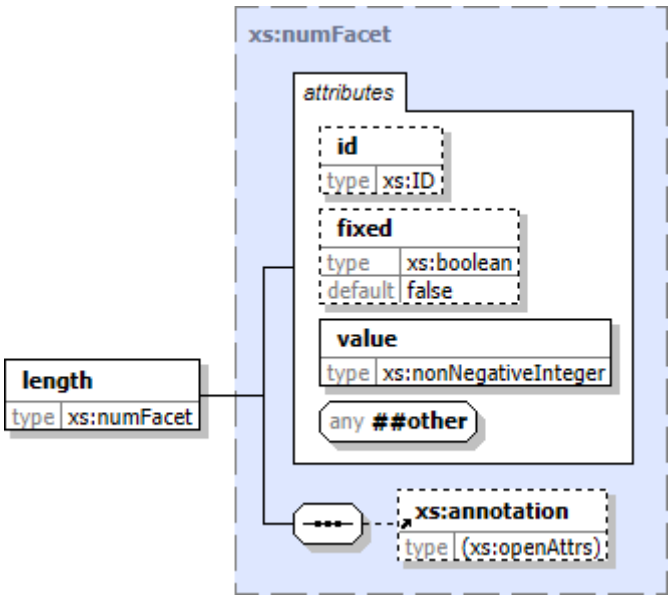
`xs:selector` [135]

Type: anonymous complexType (extension of `xs:annotated`) [136], complex content
Defined: by reference within `xs:keybase` complexType

element <xs:length> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:numFacet [231]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [100]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:length
    id    = xs:ID
    fixed = xs:boolean : "false"
    value = xs:nonNegativeInteger
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:length>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [348]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-length

XML Source

```
<xs:element id="length" name="length" type="xs:numFacet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-length"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:nonNegativeInteger [319]
  Use: required
  Defined: locally within xs:numFacet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:numFacet complexType

Content Element Detail (all declarations; 1/1)

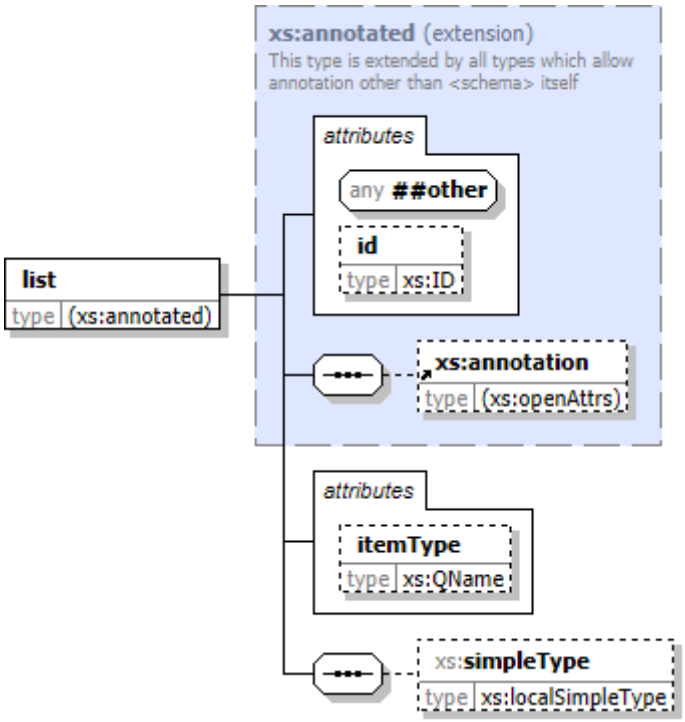
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:numFacet complexType

element <xs:list> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [103]
Content: complex, 2 attributes, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [103]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:list
    id       = xs:ID
    itemType = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:simpleType?
</xs:list>
```

Included in content model of elements (2):

xs:simpleType [145], xs:simpleType (type xs:localSimpleType) [147]

Known Usage Locations

- **Within model groups (1):**

  xs:simpleDerivation [360]

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ complexType
```

Annotation

itemType attribute and simpleType child are mutually exclusive, but one or other is required

See: http://www.w3.org/TR/xmlschema-2/#element-list

XML Source

```
<xs:element id="list" name="list">
  <xs:complexType>
    <xs:annotation>
      <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-list">
        itemType 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:sequence>
          <xs:element minOccurs="0" name="simpleType" type="xs:localSimpleType"/>
        </xs:sequence>
        <xs:attribute name="itemType" type="xs:QName" use="optional"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

itemType

Type: xs:QName [327]
Use: optional
Defined: locally within (this) xs:list element

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

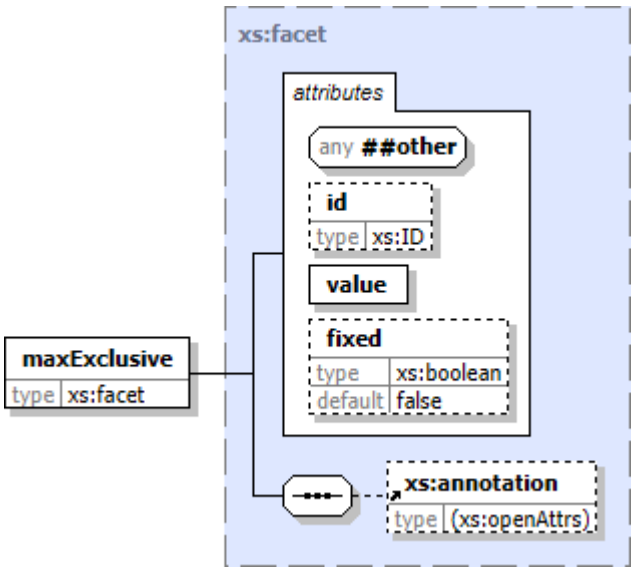
xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within (this) xs:list element

element <xs:maxExclusive> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:facet [195]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [104]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:maxExclusive
    id    = xs:ID
    value = xs:anySimpleType
    fixed = xs:boolean : "false"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:maxExclusive>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [348]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-maxExclusive

XML Source

```
<xs:element id="maxExclusive" name="maxExclusive" type="xs:facet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-maxExclusive"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:anySimpleType
  Use: required
  Defined: locally within xs:facet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

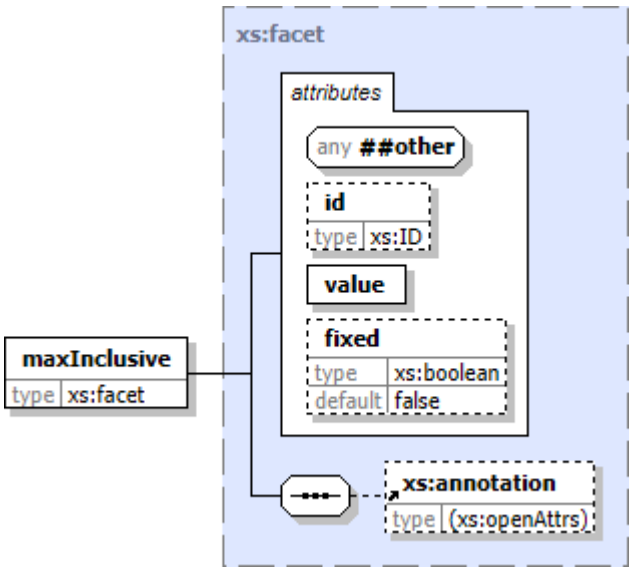
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

element <xs:maxInclusive> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:facet [195]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [106]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:maxInclusive
    id    = xs:ID
    value = xs:anySimpleType
    fixed = xs:boolean : "false"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:maxInclusive>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [348]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-maxInclusive

XML Source

```
<xs:element id="maxInclusive" name="maxInclusive" type="xs:facet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-maxInclusive"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:anySimpleType
  Use: required
  Defined: locally within xs:facet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

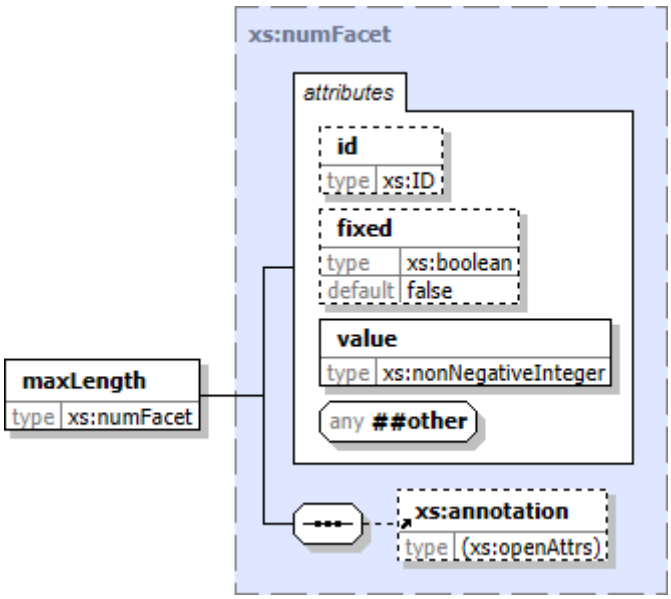
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

element <xs:maxLength> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:numFacet [231]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [108]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:maxLength
    id    = xs:ID
    fixed = xs:boolean : "false"
    value = xs:nonNegativeInteger
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:maxLength>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [348]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-maxLength

XML Source

```
<xs:element id="maxLength" name="maxLength" type="xs:numFacet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-maxLength"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:nonNegativeInteger [319]
  Use: required
  Defined: locally within xs:numFacet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:numFacet complexType

Content Element Detail (all declarations; 1/1)

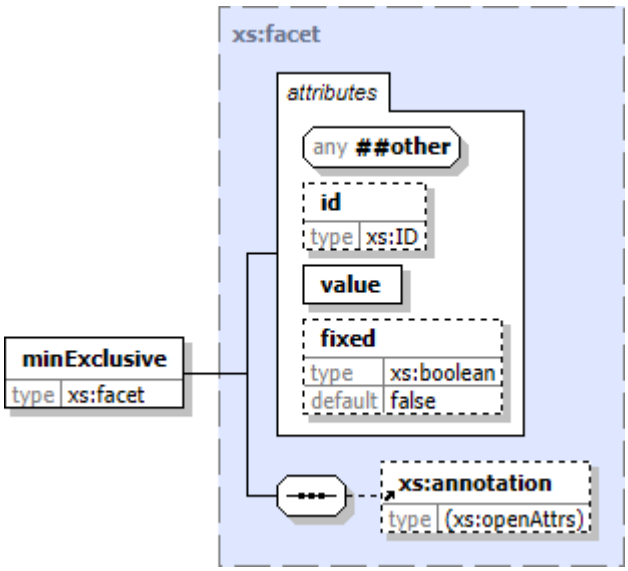
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:numFacet complexType

element <xs:minExclusive> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:facet [195]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [110]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:minExclusive
    id    = xs:ID
    value = xs:anySimpleType
    fixed = xs:boolean : "false"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:minExclusive>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [349]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-minExclusive

XML Source

```
<xs:element id="minExclusive" name="minExclusive" type="xs:facet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-minExclusive"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:anySimpleType
  Use: required
  Defined: locally within xs:facet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

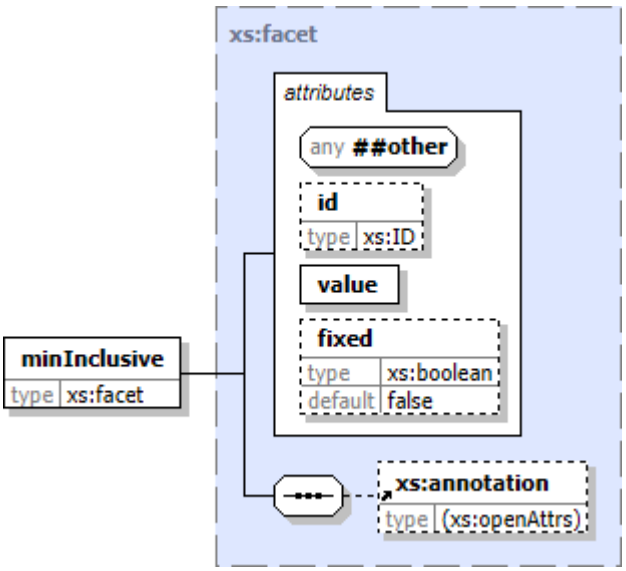
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

element <xs:minInclusive> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:facet [195]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [112]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:minInclusive
    id    = xs:ID
    value = xs:anySimpleType
    fixed = xs:boolean : "false"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:minInclusive>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [349]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-minInclusive

XML Source

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

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:anySimpleType
  Use: required
  Defined: locally within xs:facet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

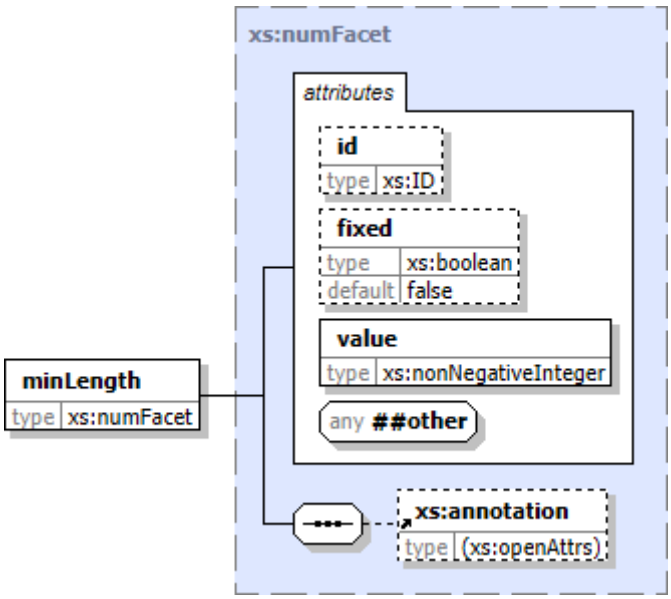
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

element <xs:minLength> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:numFacet [231]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [114]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:minLength
    id    = xs:ID
    fixed = xs:boolean : "false"
    value = xs:nonNegativeInteger
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:minLength>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [349]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-minLength

XML Source

```
<xs:element id="minLength" name="minLength" type="xs:numFacet">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-minLength"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:nonNegativeInteger [319]
  Use: required
  Defined: locally within xs:numFacet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:numFacet complexType

Content Element Detail (all declarations; 1/1)

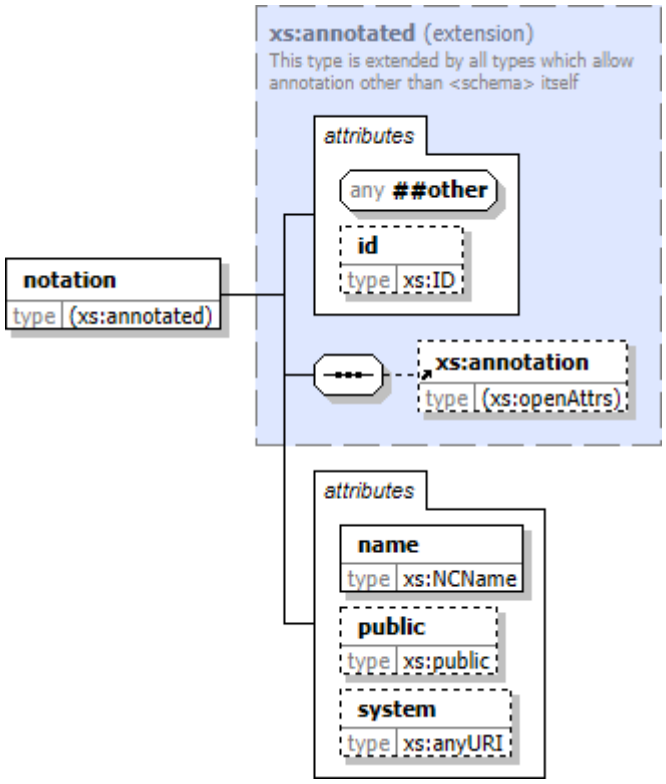
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:numFacet complexType

element <xs:notation> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [117]
Content: complex, 4 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [117]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:notation
    id      = xs:ID
    name    = xs:NCName
    public  = xs:token
    system  = xs:anyURI
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:notation>
```

Included in content model of elements (1):

xs:schema [17]

Known Usage Locations

- **Within model groups (1):**

  xs:schemaTop [359]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-notation

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ **complexType**

XML Source

```
<xs:element id="notation" name="notation">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-notation"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <xs:attribute name="name" type="xs:NCName" use="required"/>
        <xs:attribute name="public" type="xs:public"/>
        <xs:attribute name="system" type="xs:anyURI"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 5/5)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- name

  Type: xs:NCName [313]
  Use: required
  Defined: locally within (this) xs:notation element

- public

  Type: xs:public [326]
  Use: optional
  Defined: locally within (this) xs:notation element

  Attribute Value

  xs:token

- system

  Type: xs:anyURI [273]
  Use: optional
  Defined: locally within (this) xs:notation element

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

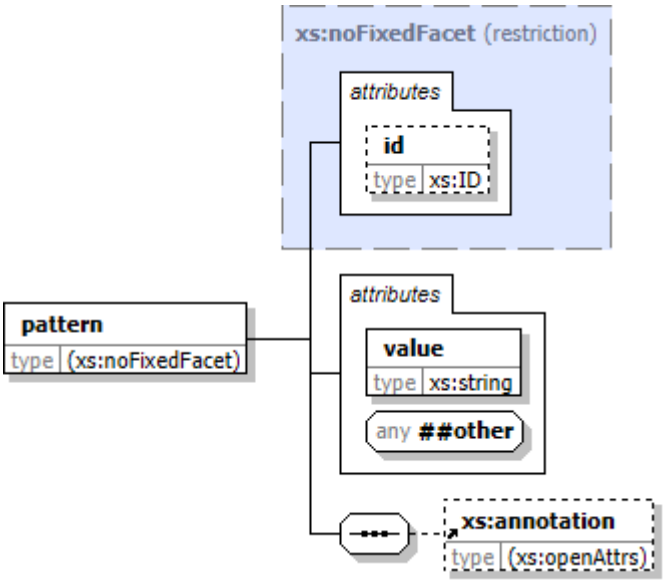
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

element <xs:pattern> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (restriction of xs:noFixedFacet) [120]
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [120]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:pattern
    id    = xs:ID
    value = xs:string
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:pattern>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [349]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-pattern

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ xs:facet [195] (restriction)
        └ xs:noFixedFacet [229] (restriction)
          └ **complexType**

XML Source

```
<xs:element id="pattern" name="pattern">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-pattern"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:restriction base="xs:noFixedFacet">
        <xs:sequence>
          <xs:element minOccurs="0" ref="xs:annotation"/>
        </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 Detail (all declarations; 3/3)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:string [333]
  Use: required
  Defined: locally within (this) xs:pattern element

- *{any attribute from non-schema namespace}*

  Defined: within (this) xs:pattern element

Content Element Detail (all declarations; 1/1)

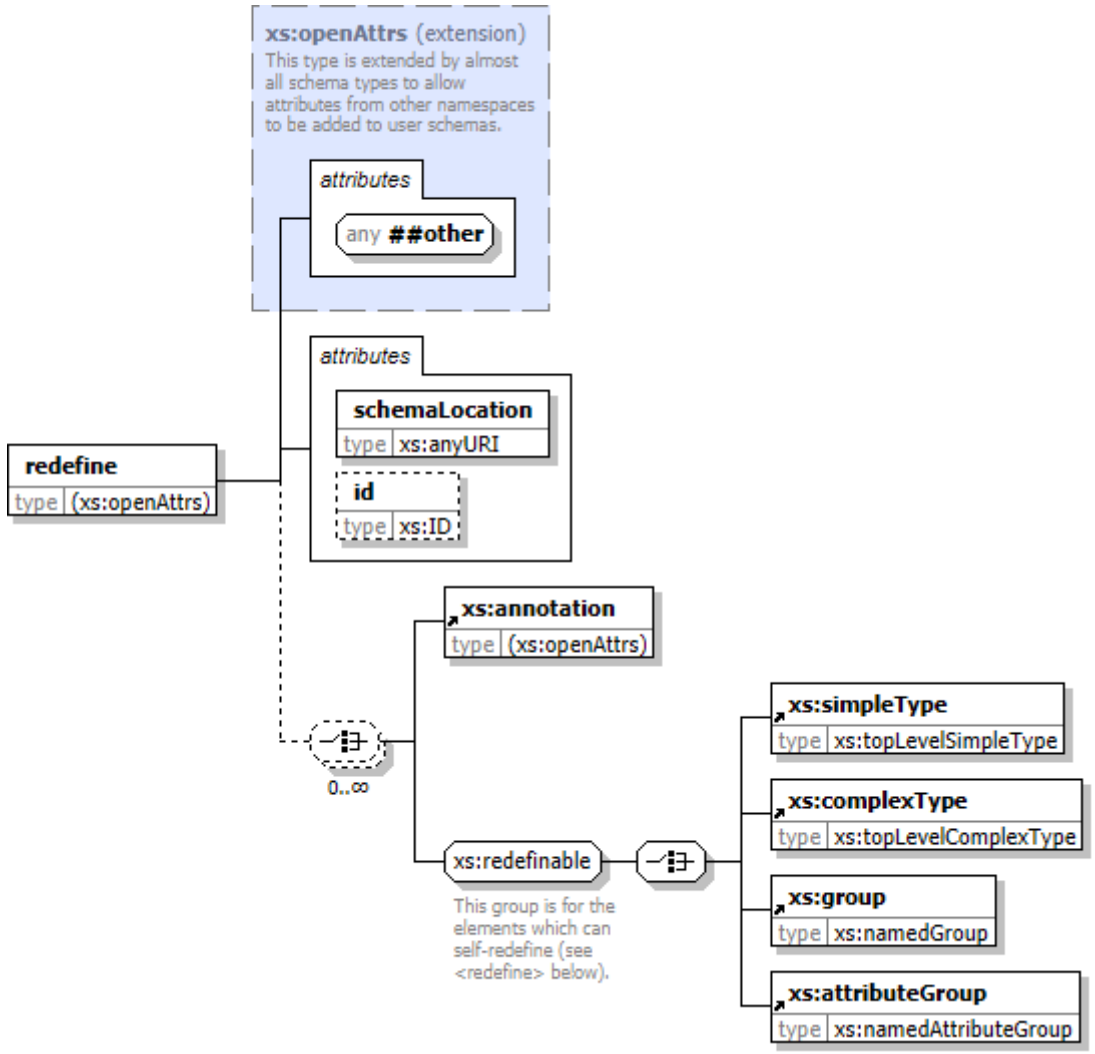
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within (this) xs:pattern element

element <xs:redefine> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:openAttrs) [122]
Content: complex, 2 attributes, attr. wildcard, 5 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [122]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:redefine
    schemaLocation = xs:anyURI
    id             = xs:ID
    {any attribute from non-schema namespace}
    >
    Content: (xs:annotation | xs:simpleType | xs:complexType | xs:group | xs:attributeGroup)*
</xs:redefine>
```

Included in content model of elements (1):

xs:schema [17]

Known Usage Locations

- **Within anonymous complexTypes of elements (1):**

xs:schema [21]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-redefine

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ **complexType**

XML Source

```
<xs:element id="redefine" name="redefine">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-redefine"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:openAttrs">
        <xs:choice maxOccurs="unbounded" minOccurs="0">
          <xs:element ref="xs:annotation"/>
          <xs:group ref="xs:redefinable"/>
        </xs:choice>
        <xs:attribute name="schemaLocation" type="xs:anyURI" use="required"/>
        <xs:attribute name="id" type="xs:ID"/>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within (this) xs:redefine element

schemaLocation

Type: xs:anyURI [273]
Use: required
Defined: locally within (this) xs:redefine element

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 5/5)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:redefine element

xs:attributeGroup [42]

Type: xs:namedAttributeGroup [218], complex content
Defined: by reference within xs:redefinable group

`xs:complexType` [54]

Type: `xs:topLevelComplexType` [258], complex content
Defined: by reference within `xs:redefinable` group

`xs:group` [87]

Type: `xs:namedGroup` [221], complex content
Defined: by reference within `xs:redefinable` group

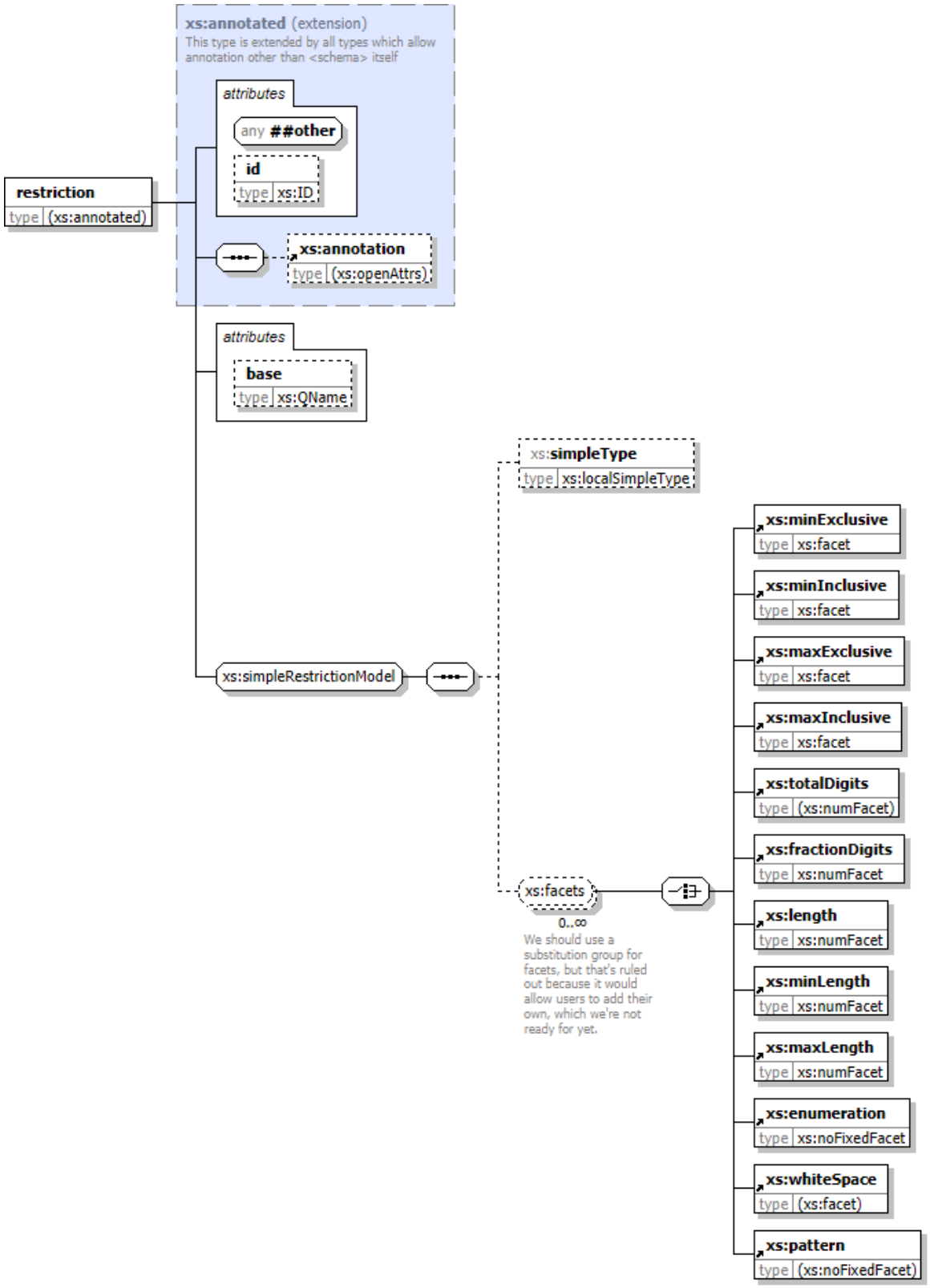
`xs:simpleType` [145]

Type: `xs:topLevelSimpleType` [266], complex content
Defined: by reference within `xs:redefinable` group

element <xs:restriction> (global)

Namespace: `http://www.w3.org/2001/XMLSchema`
Type: anonymous complexType (extension of `xs:annotated`) [125]
Content: complex, 2 attributes, attr. wildcard, 14 elements
Block: `"#all"` *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [125]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:restriction
    id   = xs:ID
    base = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:simpleType?, (xs:minExclusive | xs:minInclusive | xs:maxExclusive |
             xs:maxInclusive | xs:totalDigits | xs:fractionDigits | xs:length | xs:minLength | xs:maxLength |
             xs:enumeration | xs:whiteSpace | xs:pattern)*
</xs:restriction>
```

Included in content model of elements (2):

xs:simpleType [145], xs:simpleType (type xs:localSimpleType) [147]

Known Usage Locations

- **Within model groups (1):**

  xs:simpleDerivation [360]

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ complexType
```

Annotation

base attribute and simpleType child are mutually exclusive, but one or other is required

See: http://www.w3.org/TR/xmlschema-2/#element-restriction

XML Source

```
<xs:element id="restriction" name="restriction">
  <xs:complexType>
    <xs:annotation>
      <xs:documentation 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 Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: optional
Defined: locally within (this) xs:restriction element

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 14/14)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:enumeration [75]

Type: xs:noFixedFacet [229], complex content
Defined: by reference within xs:facets group

xs:fractionDigits [85]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:length [100]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:maxExclusive [104]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxInclusive [106]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxLength [108]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:minExclusive [110]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:minInclusive [112]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:minLength [114]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:pattern [119]

Type: anonymous complexType (restriction of xs:noFixedFacet) [120], complex content
Defined: by reference within xs:facets group

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:simpleRestrictionModel group

xs:totalDigits [149]

Type: anonymous complexType (restriction of xs:numFacet) [150], complex content
Defined: by reference within xs:facets group

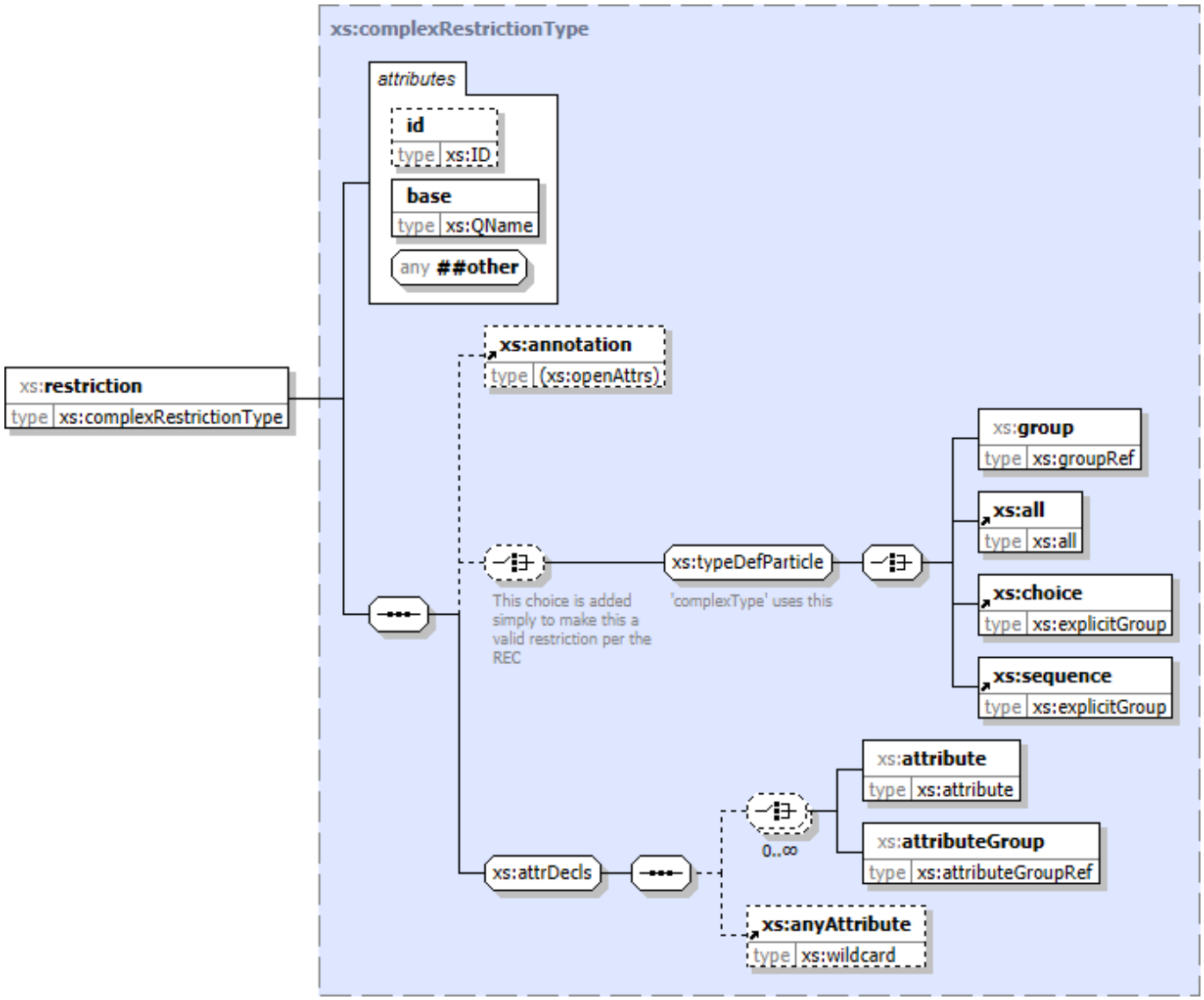
xs:whiteSpace [156]

Type: anonymous complexType (restriction of xs:facet) [157], complex content
Defined: by reference within xs:facets group

element <xs:restriction> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:complexRestrictionType [176]
Content: complex, 2 attributes, attr. wildcard, 8 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:complexContent element [53] in XMLSchema.xsd; see XML source [129]

Component Diagram



XML Representation Summary

```
<xs:restriction
   id   = xs:ID
   base = xs:QName
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:group | xs:all | xs:choice | xs:sequence)?, (xs:attribute |
            xs:attributeGroup)*, xs:anyAttribute?
</xs:restriction>
```

Included in content model of elements (1):

xs:complexContent [51]

XML Source

<xs:element name="**restriction**" type="**xs:complexRestrictionType**"/>

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within xs:restrictionType complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:complexRestrictionType complexType

Content Element Detail (all declarations; 8/8)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:complexRestrictionType complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

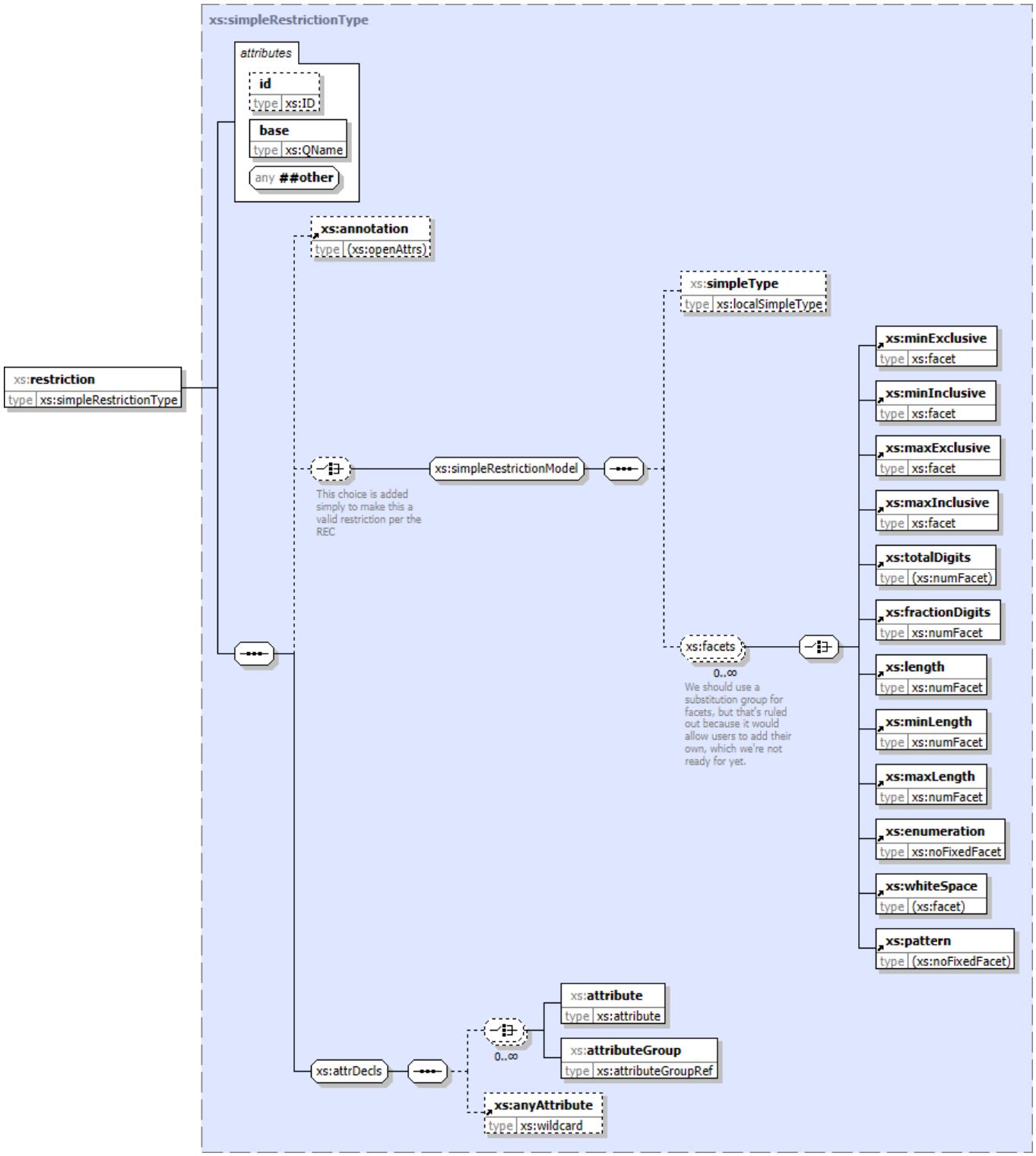
xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

element <xs:restriction> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:simpleRestrictionType [248]
Content: complex, 2 attributes, attr. wildcard, 17 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:simpleContent element [144] in XMLSchema.xsd; see XML source [132]

Component Diagram



XML Representation Summary

```
<xs:restriction
    id   = xs:ID
    base = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType?, (xs:minExclusive | xs:minInclusive | xs:maxExclusive |
             xs:maxInclusive | xs:totalDigits | xs:fractionDigits | xs:length | xs:minLength | xs:maxLength |
             xs:enumeration | xs:whiteSpace | xs:pattern)*)?, (xs:attribute | xs:attributeGroup)*,
             xs:anyAttribute?
</xs:restriction>
```

Included in content model of elements (1):

xs:simpleContent [143]

XML Source

<xs:element name="**restriction**" type="**xs:simpleRestrictionType**"/>

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within xs:restrictionType complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:simpleRestrictionType complexType

Content Element Detail (all declarations; 17/17)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:simpleRestrictionType complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:enumeration [75]

Type: xs:noFixedFacet [229], complex content
Defined: by reference within xs:facets group

xs:fractionDigits [85]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:length [100]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:maxExclusive [104]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxInclusive [106]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxLength [108]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:minExclusive [110]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:minInclusive [112]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:minLength [114]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:pattern [119]

Type: anonymous complexType (restriction of xs:noFixedFacet) [120], complex content
Defined: by reference within xs:facets group

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:simpleRestrictionModel group

xs:totalDigits [149]

Type: anonymous complexType (restriction of xs:numFacet) [150], complex content
Defined: by reference within xs:facets group

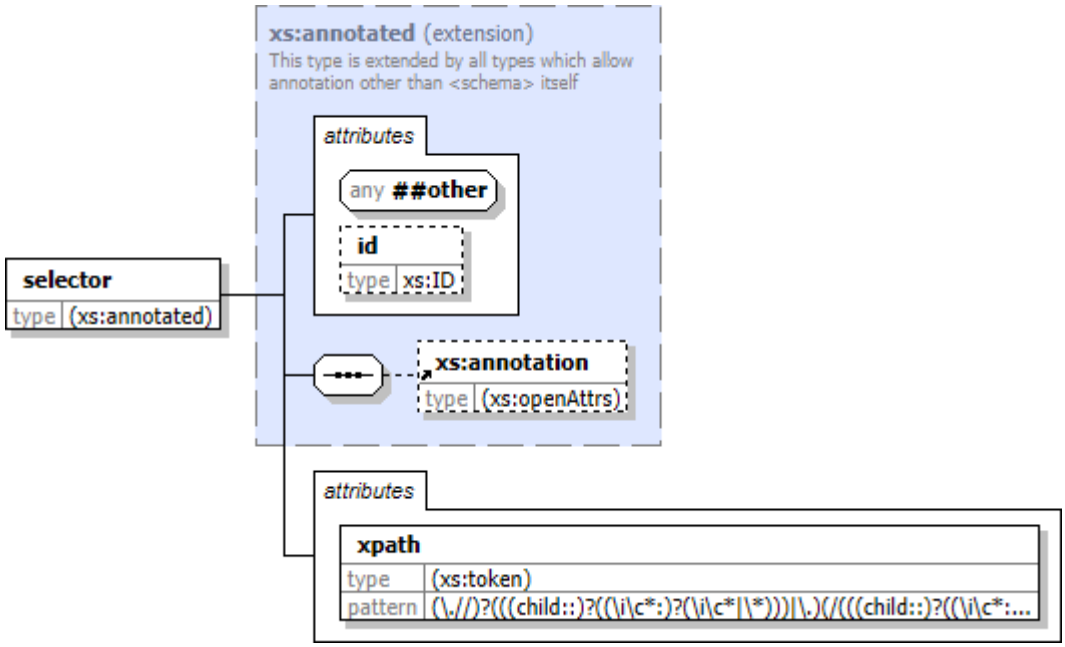
xs:whiteSpace [156]

Type: anonymous complexType (restriction of xs:facet) [157], complex content
Defined: by reference within xs:facets group

element <xs:selector> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [136]
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [136]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:selector
   id    = xs:ID
   xpath = xs:token
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?
</xs:selector>
```

Included in content model of elements (3):

xs:key [95], xs:keyref [97], xs:unique [154]

Known Usage Locations

- **Within global complexTypes (1):**

  xs:keybase [205]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-selector

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ complexType
```

XML Source

```
<xs:element id="selector" name="selector">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-selector"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <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:
                  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 Detail (all declarations; 3/3)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- xpath

  Type: anonymous simpleType (restriction of xs:token) [137]
  Use: required
  Defined: locally within (this) xs:selector element

  Attribute Value

  xs:token

Pattern: (\.//)?(((child::)?((\i\c*:)?(\i\c*|*)))|\.)(/(((child::)?((\i\c*:)?(\i\c*|*)))|\.))*(\|(\.//)?(((child::)?((\i\c*:)?(\i\c*|*)))|\.)(/(((child::)?((\i\c*:)?(\i\c*|*)))|\.))*)*

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
  xs:string [333] (restriction)
    xs:normalizedString [322] (restriction)
      xs:token [336] (restriction)
        simpleType

Annotation 1:

A subset of XPath expressions for use in selectors

Annotation 2:

A utility type, not for public use

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

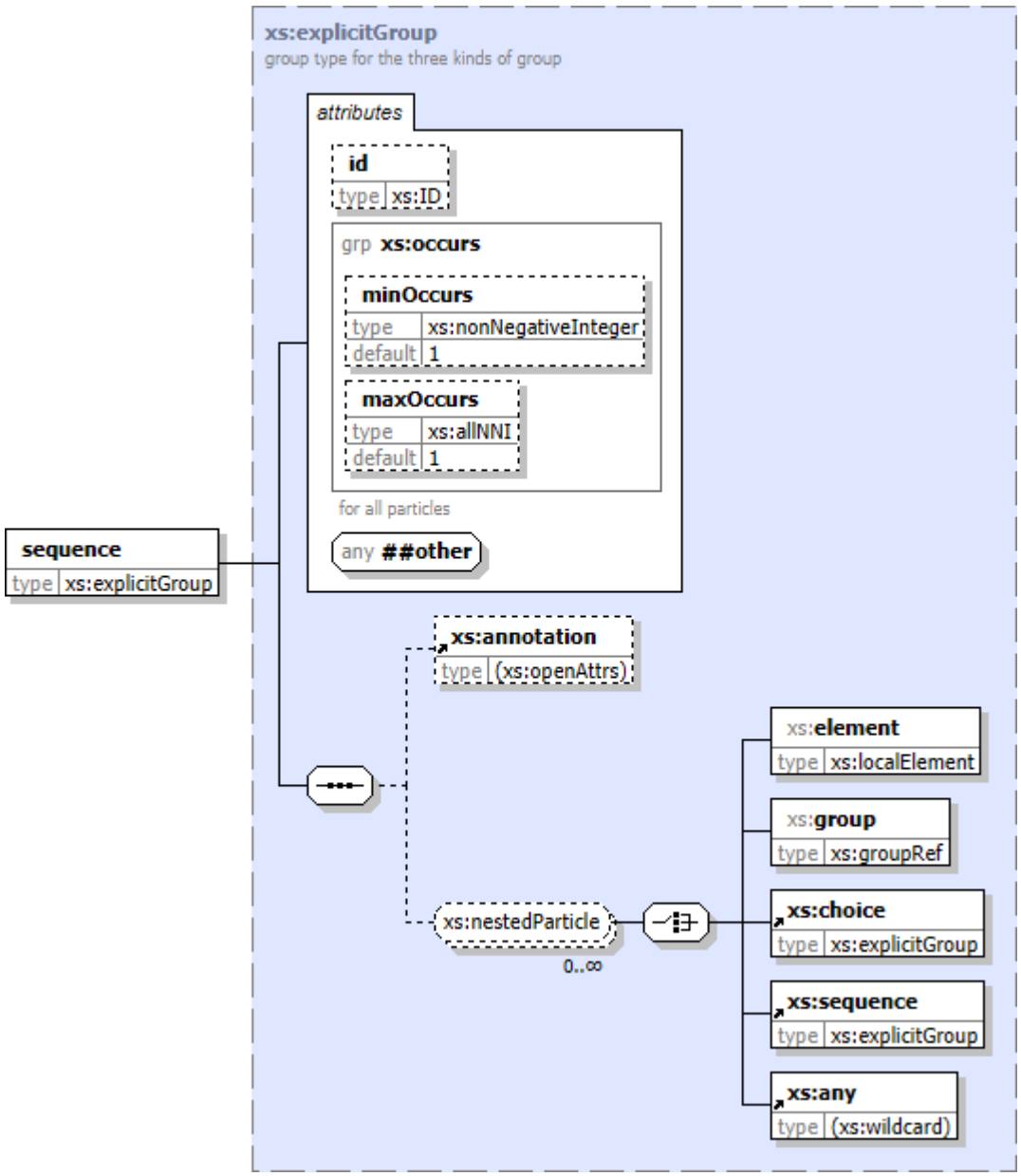
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

element <xs:sequence> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:explicitGroup [188]
Content: complex, 3 attributes, attr. wildcard, 6 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [139]
Used: at 4 locations

Component Diagram



XML Representation Summary

```
<xs:sequence
    id         = xs:ID
    minOccurs  = xs:nonNegativeInteger : "1"
    maxOccurs  = (xs:nonNegativeInteger | "unbounded") : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:element | xs:group | xs:choice | xs:sequence | xs:any)*
</xs:sequence>
```

Included in content model of elements (8):

xs:choice [46],
xs:choice (in xs:group) [49],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:extension (in xs:complexContent) [77],
xs:restriction (in xs:complexContent) [128],
xs:sequence [138],
xs:sequence (in xs:group) [141]

Known Usage Locations

- **Within global complexTypes (1):**

  xs:realGroup [237]

- **Within model groups (3):**

  xs:nestedParticle [353], xs:particle [355], xs:typeDefParticle [365]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-sequence

XML Source

```
<xs:element id="sequence" name="sequence" type="xs:explicitGroup">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-sequence"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

xs:nonNegativeInteger | "unbounded"

Default: "1"

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

{any attribute from non-schema namespace}

Defined: within xs:explicitGroup complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content

Defined: by reference within xs:explicitGroup complexType

---

xs:any [30]

Type: anonymous complexType (extension of xs:wildcard) [31], complex content
Defined: by reference within xs:nestedParticle group

---

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:nestedParticle group

---

xs:element [67]

Type: xs:localElement [210], complex content
Defined: locally within xs:nestedParticle group

---

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:nestedParticle group

---

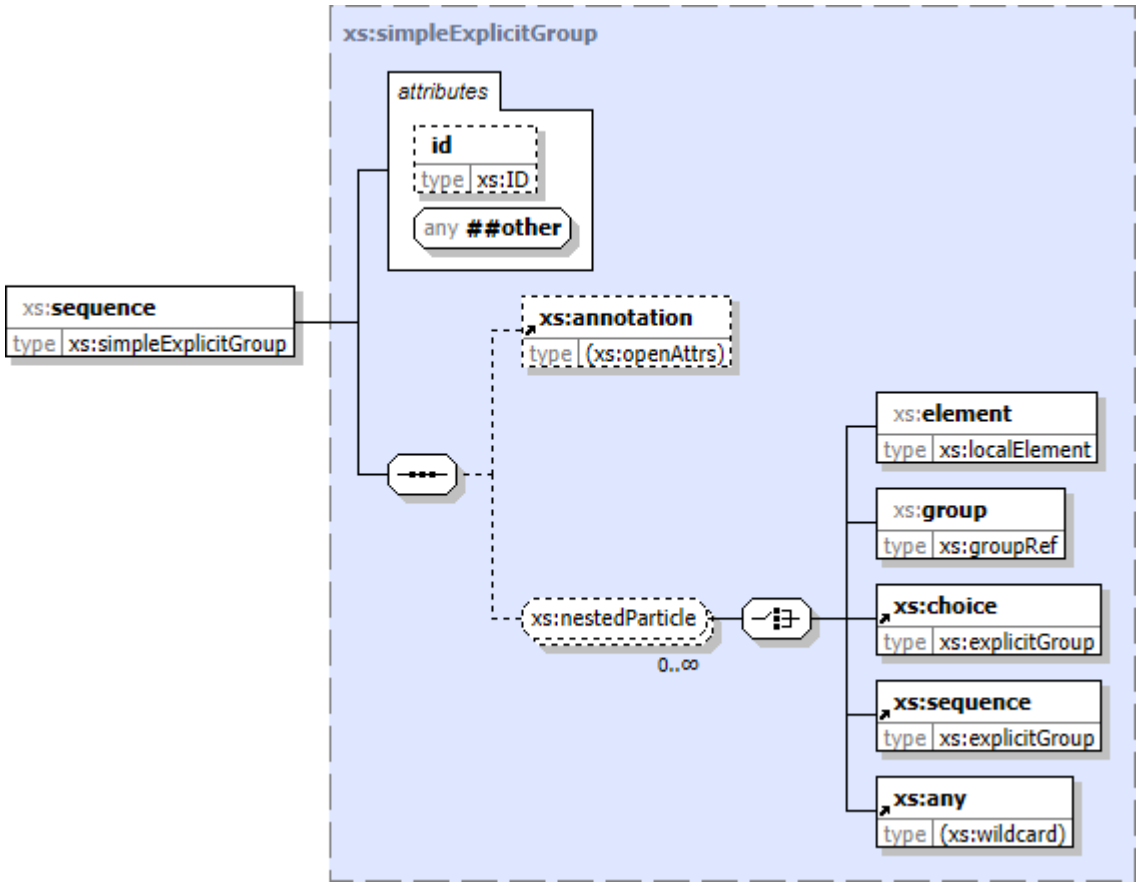
xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:nestedParticle group

element <xs:sequence> (local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:simpleExplicitGroup [242]
Content: complex, 1 attribute, attr. wildcard, 6 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally within xs:namedGroup complexType [223] in XMLSchema.xsd; see XML source [141]

Component Diagram



XML Representation Summary

```
<xs:sequence
   id = xs:ID
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:element | xs:group | xs:choice | xs:sequence | xs:any)*
</xs:sequence>
```

Included in content model of elements (1):

xs:group [87]

XML Source

```
<xs:element name="sequence" type="xs:simpleExplicitGroup"/>
```

Attribute Detail (all declarations; 2/2)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within `xs:simpleExplicitGroup` complexType

Content Element Detail (all declarations; 6/6)

`xs:annotation` [27]

Type: anonymous complexType (extension of `xs:openAttrs`) [28], complex content
Defined: by reference within `xs:simpleExplicitGroup` complexType

`xs:any` [30]

Type: anonymous complexType (extension of `xs:wildcard`) [31], complex content
Defined: by reference within `xs:nestedParticle` group

`xs:choice` [46]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:nestedParticle` group

`xs:element` [67]

Type: `xs:localElement` [210], complex content
Defined: locally within `xs:nestedParticle` group

`xs:group` [89]

Type: `xs:groupRef` [201], complex content
Defined: locally within `xs:nestedParticle` group

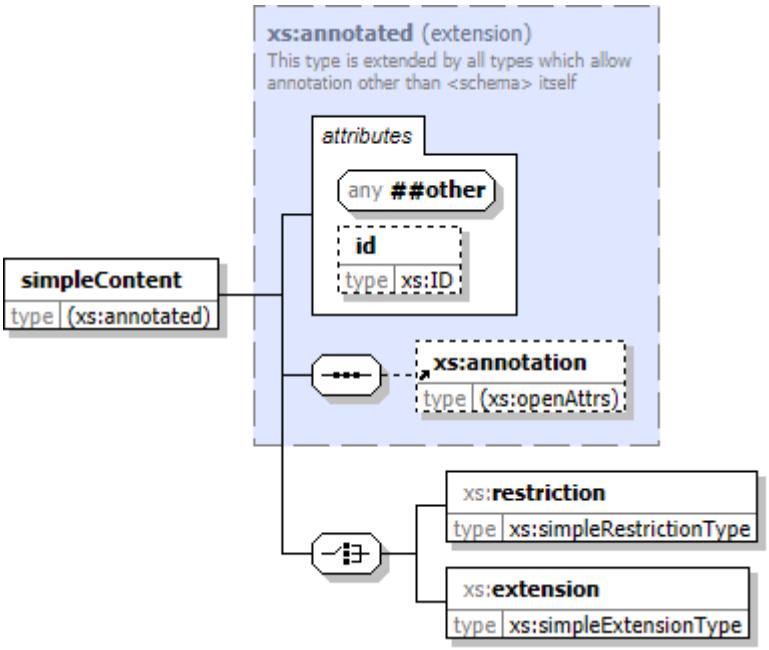
`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:nestedParticle` group

element <xs:simpleContent> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [144]
Content: complex, 1 attribute, attr. wildcard, 3 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [144]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:simpleContent
   id = xs:ID
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:restriction | xs:extension)
</xs:simpleContent>
```

Included in content model of elements (2):

xs:complexType [54], xs:complexType (type xs:localComplexType) [58]

Known Usage Locations

- **Within model groups (1):**

  xs:complexTypeModel [346]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-simpleContent

Anonymous Type Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ **complexType**

XML Source

```
<xs:element id="simpleContent" name="simpleContent">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-simpleContent"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <xs:choice>
          <xs:element name="restriction" type="xs:simpleRestrictionType"/>
          <xs:element name="extension" type="xs:simpleExtensionType"/>
        </xs:choice>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 2/2)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 3/3)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

---

xs:extension [80]

Type: xs:simpleExtensionType [245], complex content
Defined: locally within (this) xs:simpleContent element

---

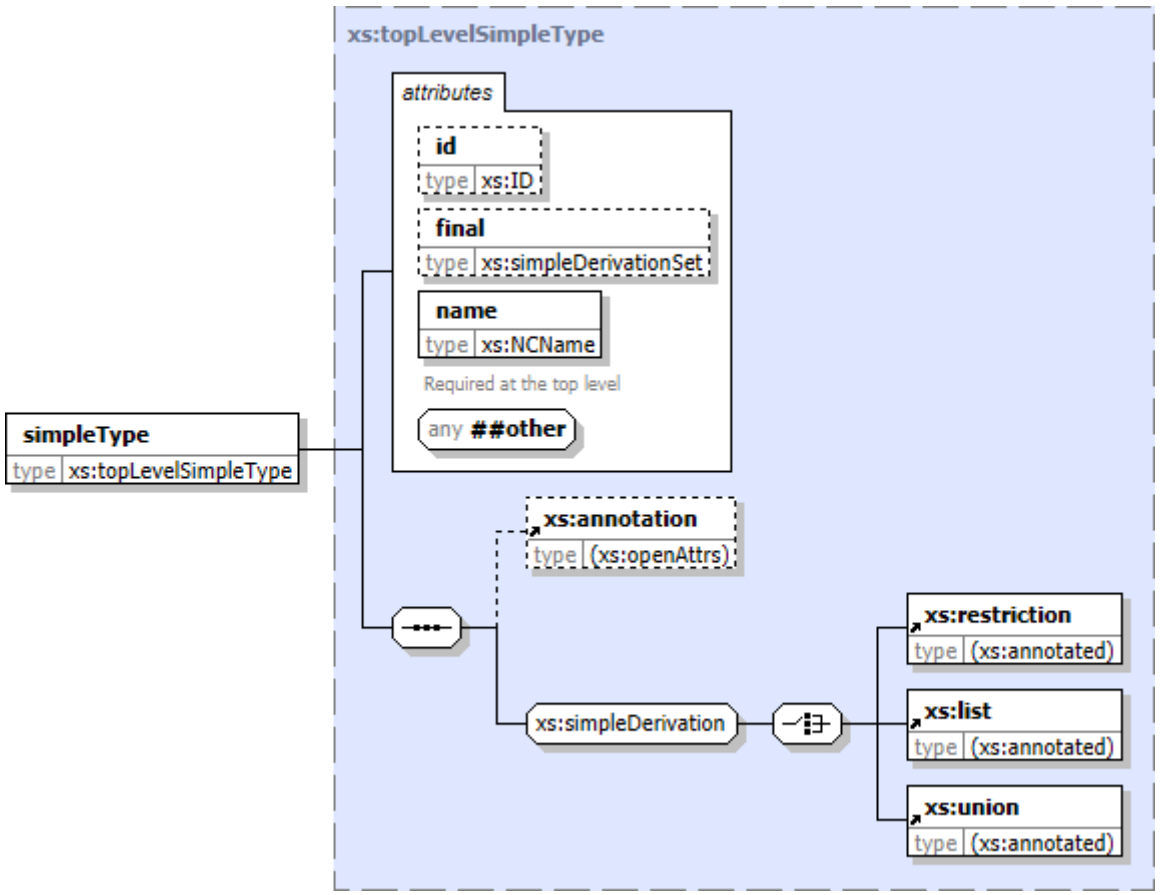
xs:restriction [131]

Type: xs:simpleRestrictionType [248], complex content
Defined: locally within (this) xs:simpleContent element

element <xs:simpleType> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:topLevelSimpleType [266]
Content: complex, 3 attributes, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [146]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:simpleType
    id     = xs:ID
    final  = ("#all" | list of ("list" | "union" | "restriction"))
    name   = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:restriction | xs:list | xs:union)
</xs:simpleType>
```

Included in content model of elements (2):

xs:redefine [121], xs:schema [17]

Known Usage Locations

- **Within model groups (1):**

  xs:redefinable [357]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-simpleType

XML Source

```
<xs:element id="simpleType" name="simpleType" type="xs:topLevelSimpleType">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-simpleType"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

final

Type: xs:simpleDerivationSet [331]
Use: optional
Defined: locally within *xs:simpleType* complexType

Attribute Value

```
"#all" | list of ("list" | "union" | "restriction")
```

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:topLevelSimpleType complexType

Required at the top level

{any attribute from non-schema namespace}

Defined: within xs:topLevelSimpleType complexType

Content Element Detail (all declarations; 4/4)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:topLevelSimpleType complexType

xs:list [102]

Type: anonymous complexType (extension of xs:annotated) [103], complex content
Defined: by reference within xs:simpleDerivation group

xs:restriction [124]

Type: anonymous complexType (extension of xs:annotated) [125], complex content
Defined: by reference within xs:simpleDerivation group

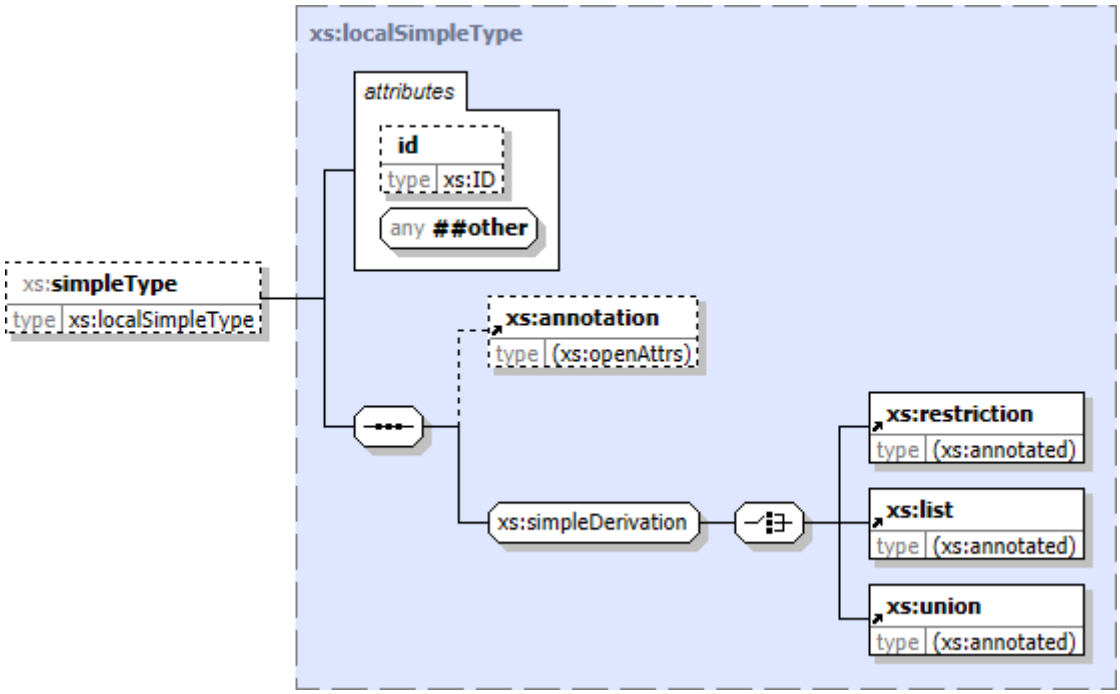
xs:union [151]

Type: anonymous complexType (extension of xs:annotated) [152], complex content
Defined: by reference within xs:simpleDerivation group

element <xs:simpleType> (unified local)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:localSimpleType [215]
Content: complex, 1 attribute, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: locally at 9 locations in XMLSchema.xsd

Component Diagram



XML Representation Summary

```
<xs:simpleType
   id = xs:ID
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?, (xs:restriction | xs:list | xs:union)
</xs:simpleType>
```

Included in content model of elements (9):

xs:attribute [37],
xs:attribute (type xs:attribute) [39],
xs:element [63],
xs:element (type xs:localElement) [67],
xs:element (type xs:narrowMaxMin) [71],
xs:list [102],
xs:restriction [124],
xs:restriction (in xs:simpleContent) [131],
xs:union [151]

Definition Locations

- **Within global complexTypes (6):**

  xs:attribute [170], *xs:element* [187], xs:localElement [214], xs:narrowMaxMin [228], xs:topLevelAttribute [257], xs:topLevelElement [265]

- **Within anonymous complexTypes of elements (2):**

  xs:list [103], xs:union [153]

- **Within model groups (1):**

  xs:simpleRestrictionModel [363]

Annotations (1) (by all definition locations)

Locations (9):

within `xs:attribute` complexType `[170]`, within `xs:topLevelAttribute` complexType `[257]`, within *`xs:element`* complexType `[187]`, within `xs:topLevelElement` complexType `[265]`, within `xs:localElement` complexType `[214]`, within `xs:narrowMaxMin` complexType `[228]`, within `xs:simpleRestrictionModel` group `[363]`, within `xs:list` element `[103]`, within `xs:union` element `[153]`

Annotation:

Attribute Detail (all declarations; 2/2)

`id`

Type: `xs:ID` `[302]`
Use: optional
Defined: locally within `xs:annotated` complexType

`{any attribute from non-schema namespace}`

Defined: within `xs:localSimpleType` complexType

Content Element Detail (all declarations; 4/4)

`xs:annotation` `[27]`

Type: anonymous complexType (extension of `xs:openAttrs`) `[28]`, complex content
Defined: by reference within `xs:localSimpleType` complexType

`xs:list` `[102]`

Type: anonymous complexType (extension of `xs:annotated`) `[103]`, complex content
Defined: by reference within `xs:simpleDerivation` group

`xs:restriction` `[124]`

Type: anonymous complexType (extension of `xs:annotated`) `[125]`, complex content
Defined: by reference within `xs:simpleDerivation` group

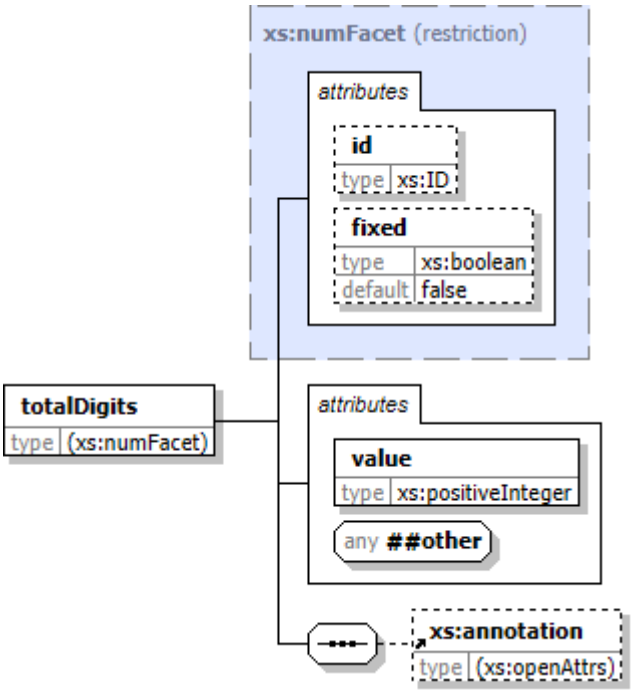
`xs:union` `[151]`

Type: anonymous complexType (extension of `xs:annotated`) `[152]`, complex content
Defined: by reference within `xs:simpleDerivation` group

element <xs:totalDigits> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (restriction of xs:numFacet) [150]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [150]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:totalDigits
   id    = xs:ID
   fixed = xs:boolean : "false"
   value = xs:positiveInteger
   {any attribute from non-schema namespace}
   >
   Content: xs:annotation?
</xs:totalDigits>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [349]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-totalDigits

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:facet [195] (restriction)
              └ xs:numFacet [231] (restriction)
                  └ complexType
```

XML Source

```
<xs:element id="totalDigits" name="totalDigits">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-totalDigits"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:restriction base="xs:numFacet">
        <xs:sequence>
          <xs:element minOccurs="0" ref="xs:annotation"/>
        </xs:sequence>
        <xs:attribute name="value" type="xs:positiveInteger" use="required"/>
        <xs:anyAttribute namespace="##other" processContents="lax"/>
      </xs:restriction>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

fixed

Type: xs:boolean [278]
Use: optional
Defined: locally within xs:facet complexType

Attribute Value

Default: "false"

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

value

Type: xs:positiveInteger [325]
Use: required
Defined: locally within (this) xs:totalDigits element

{any attribute from non-schema namespace}

Defined: within (this) xs:totalDigits element

Content Element Detail (all declarations; 1/1)

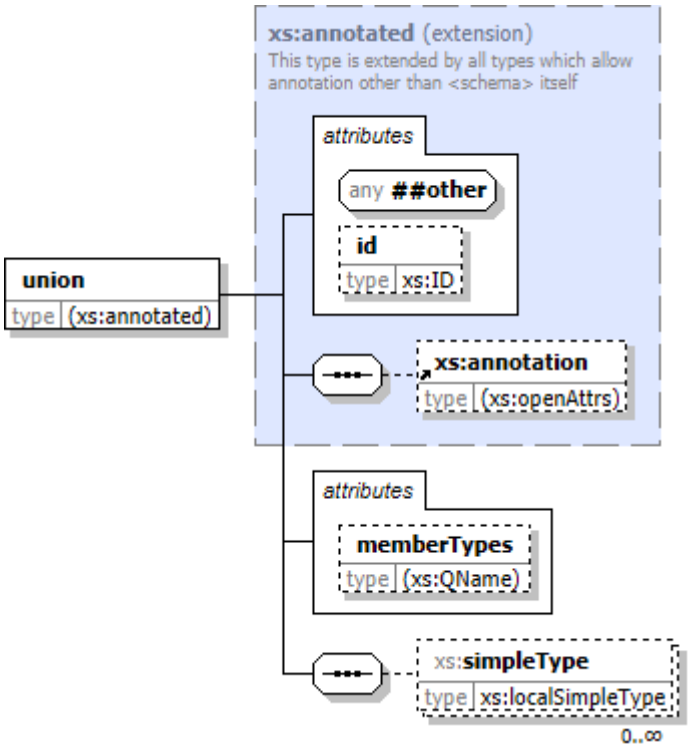
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:totalDigits element

element <xs:union> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (extension of xs:annotated) [152]
Content: complex, 2 attributes, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [152]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:union
    id          = xs:ID
    memberTypes = list of xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:simpleType*
</xs:union>
```

Included in content model of elements (2):

xs:simpleType [145], xs:simpleType (type xs:localSimpleType) [147]

Known Usage Locations

- **Within model groups (1):**

  xs:simpleDerivation [360]

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ complexType
```

Annotation

memberTypes attribute must be non-empty or there must be at least one simpleType child

See: http://www.w3.org/TR/xmlschema-2/#element-union

XML Source

```
<xs:element id="union" name="union">
  <xs:complexType>
    <xs:annotation>
      <xs:documentation 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
      </xs:documentation>
    </xs:annotation>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <xs:sequence>
          <xs:element maxOccurs="unbounded" minOccurs="0" name="simpleType" type="xs:localSimpleType"/>
        </xs:sequence>
        <xs:attribute name="memberTypes" use="optional">
          <xs:simpleType>
            <xs:list itemType="xs:QName"/>
          </xs:simpleType>
        </xs:attribute>
      </xs:extension>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

memberTypes

Type: anonymous simpleType (list of xs:QName) [152]
Use: optional
Defined: locally within (this) xs:union element

Attribute Value

list of xs:QName

Anonymous simpleType

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └ xs:QName [327] (list)
      └ simpleType
```

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

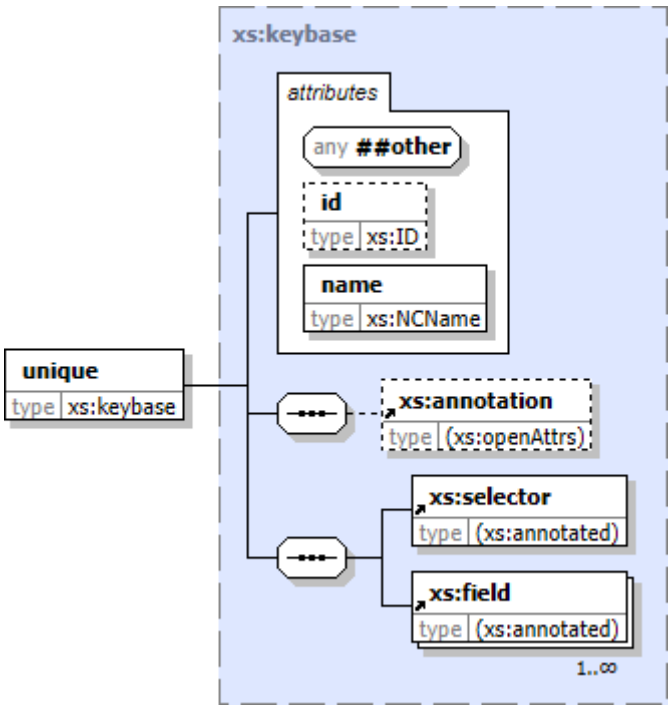
xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within (this) xs:union element

element <xs:unique> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: xs:keybase [204]
Content: complex, 2 attributes, attr. wildcard, 3 elements
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [154]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:unique
    id   = xs:ID
    name = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:selector, xs:field+
</xs:unique>
```

Included in content model of elements (3):

xs:element [63], xs:element (type xs:narrowMaxMin) [71]
xs:element (type xs:localElement) [67],

Known Usage Locations

- **Within model groups (1):**

  xs:identityConstraint [351]

Annotation

See: http://www.w3.org/TR/xmlschema-1/#element-unique

XML Source

```
<xs:element id="unique" name="unique" type="xs:keybase">
  <xs:annotation>
```

```
    <xs:documentation source="http://www.w3.org/TR/xmlschema-1/#element-unique"/>
  </xs:annotation>
</xs:element>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within xs:keybase complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 3/3)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:field [82]

Type: anonymous complexType (extension of xs:annotated) [83], complex content
Defined: by reference within xs:keybase complexType

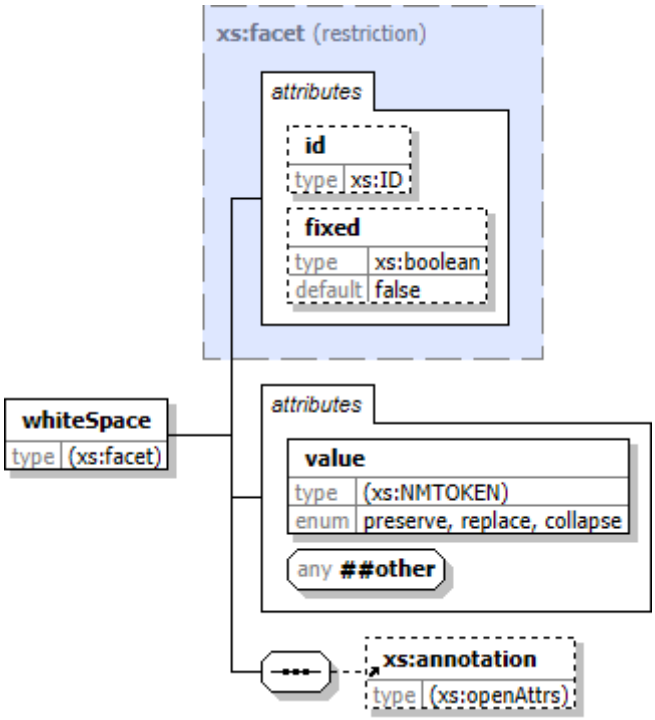
xs:selector [135]

Type: anonymous complexType (extension of xs:annotated) [136], complex content
Defined: by reference within xs:keybase complexType

element <xs:whiteSpace> (global)

Namespace: http://www.w3.org/2001/XMLSchema
Type: anonymous complexType (restriction of xs:facet) [157]
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this element or its type)*
Defined: globally in XMLSchema.xsd; see XML source [157]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<xs:whiteSpace
    id    = xs:ID
    fixed = xs:boolean : "false"
    value = ("preserve" | "replace" | "collapse")
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</xs:whiteSpace>
```

Included in content model of elements (2):

xs:restriction [124], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **Within model groups (1):**

  xs:facets [349]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#element-whiteSpace

Anonymous Type Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:facet [195] (restriction)
              └ complexType
```

XML Source

```
<xs:element id="whiteSpace" name="whiteSpace">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#element-whiteSpace"/>
  </xs:annotation>
  <xs:complexType>
    <xs:complexContent>
      <xs:restriction base="xs:facet">
        <xs:sequence>
          <xs:element minOccurs="0" ref="xs:annotation"/>
        </xs:sequence>
        <xs:attribute name="value" use="required">
          <xs:simpleType>
            <xs:restriction base="xs:NMTOKEN">
              <xs:enumeration value="preserve"/>
              <xs:enumeration value="replace"/>
              <xs:enumeration value="collapse"/>
            </xs:restriction>
          </xs:simpleType>
        </xs:attribute>
        <xs:anyAttribute namespace="##other" processContents="lax"/>
      </xs:restriction>
    </xs:complexContent>
  </xs:complexType>
</xs:element>
```

Attribute Detail (all declarations; 4/4)

fixed

Type: xs:boolean [278]
Use: optional
Defined: locally within xs:facet complexType

Attribute Value

Default: "false"

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

value

Type: anonymous simpleType (restriction of xs:NMTOKEN) [158]
Use: required
Defined: locally within (this) xs:whiteSpace element

Attribute Value

enumeration of xs:NMTOKEN

Enumeration: "preserve", "replace", "collapse"

Anonymous simpleType

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └ xs:string [333] (restriction)
      └ xs:normalizedString [322] (restriction)
          └ xs:token [336] (restriction)
              └ xs:NMTOKEN [316] (restriction)
                  └ simpleType
```

{any attribute from non-schema namespace}

Defined: within (this) xs:whiteSpace element

Content Element Detail (all declarations; 1/1)

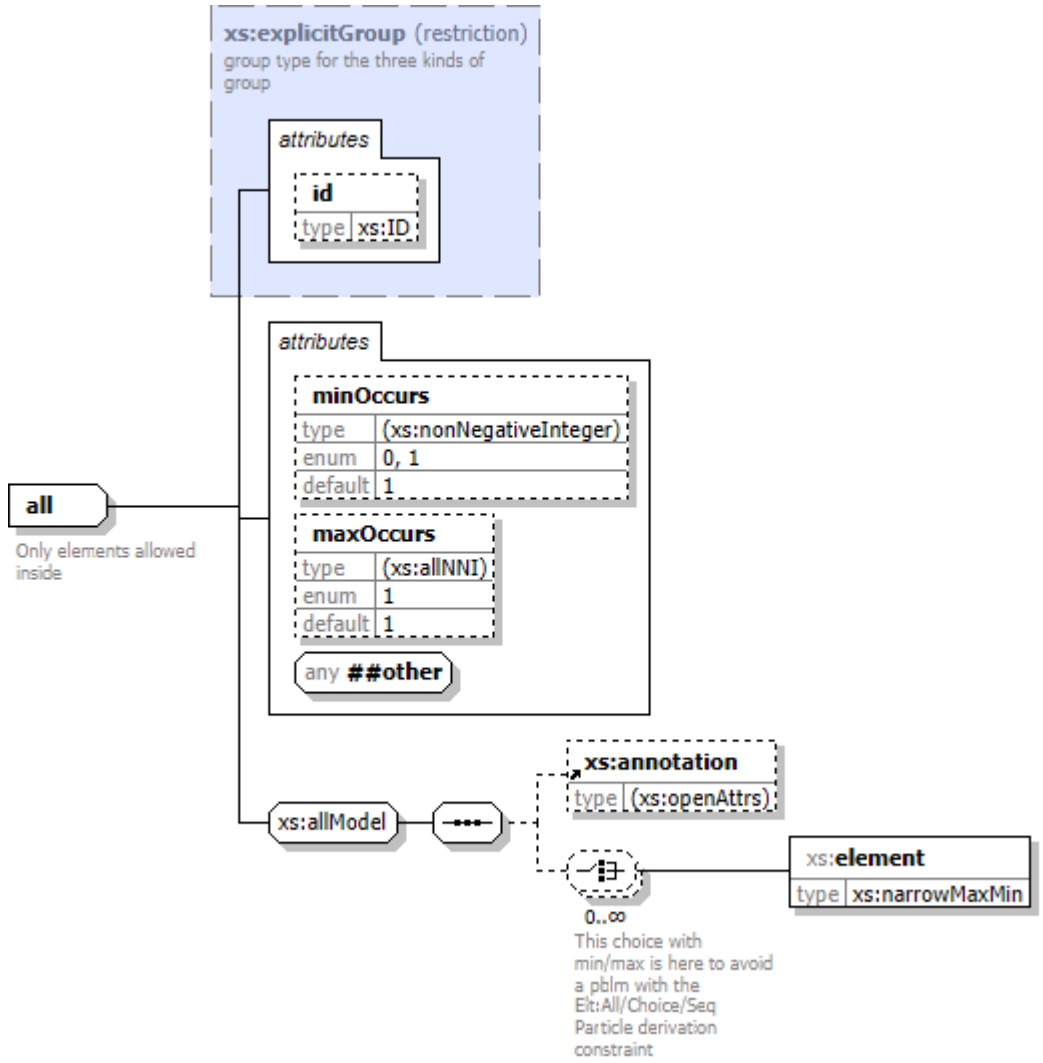
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:whiteSpace element

complexType "xs:all"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 3 attributes, attr. wildcard, 2 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[160]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id          = xs:ID
    minOccurs   = ("0" | "1") : "1"
    maxOccurs   = "1" : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:element*
</...>
```

All Direct / Indirect Based Elements (2):

xs:all `[22]`, xs:all (in xs:group) `[25]`

Known Usage Locations

- **As direct type of elements (1):**

xs:all [22]

- **In derivations of anonymous types of elements (1):**

  xs:all (in xs:group) [25] (as restriction base)

Annotation

Only elements allowed inside

Type Definition Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ *xs:group* [197] (restriction)
        └ xs:explicitGroup [188] (restriction)
          └ **xs:all**

XML Source

```
<xs:complexType name="all">
  <xs:annotation>
    <xs:documentation>
      Only elements allowed inside
    </xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:restriction base="xs:explicitGroup">
      <xs:group ref="xs:allModel"/>
      <xs:attribute default="1" name="minOccurs" use="optional">
        <xs:simpleType>
          <xs:restriction base="xs:nonNegativeInteger">
            <xs:enumeration value="0"/>
            <xs:enumeration value="1"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute default="1" name="maxOccurs" use="optional">
        <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 Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: anonymous simpleType (restriction of xs:allNNI) [161]
Use: optional
Defined: locally within (this) xs:all complexType

Attribute Value

enumeration of (xs:nonNegativeInteger | "unbounded")

Enumeration: "1"
Default: "1"

Anonymous simpleType

Type Derivation Tree

union of (xs:nonNegativeInteger | restriction of xs:NMTOKEN)
  xs:allNNI [272] (restriction)
    simpleType

---

minOccurs

Type: anonymous simpleType (restriction of xs:nonNegativeInteger) [161]
Use: optional
Defined: locally within (this) xs:all complexType

Attribute Value

enumeration of xs:nonNegativeInteger

Enumeration: "0", "1"
Default: "1"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
  xs:decimal [282] (restriction)
    xs:integer [306] (restriction)
      xs:nonNegativeInteger [319] (restriction)
        simpleType

{any attribute from non-schema namespace}

Defined: within (this) xs:all complexType

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:allModel group

---

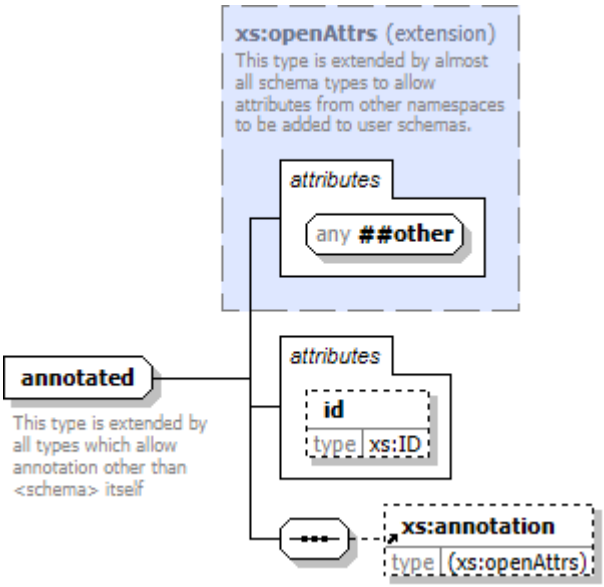
xs:element [71]

Type: xs:narrowMaxMin [224], complex content
Defined: locally within xs:allModel group

complexType "xs:annotated"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 1 attribute, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [163]
Used: at 21 locations

Component Diagram



XML Representation Summary

```
<...
    id = xs:ID
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</...>
```

Known Direct Subtypes (11):

xs:attribute [167], *xs:attributeGroup* [171], *xs:complexType* [179], *xs:element* [183], xs:extensionType [192], xs:facet [195], *xs:group* [197], xs:keybase [204], xs:restrictionType [238], *xs:simpleType* [252], xs:wildcard [269]

Known Indirect Subtypes (21):

xs:all [159], xs:attributeGroupRef [174], xs:complexRestrictionType [176], xs:explicitGroup [188], xs:groupRef [201], xs:localComplexType [206], xs:localElement [210], xs:localSimpleType [215], xs:namedAttributeGroup [218], xs:namedGroup [221], xs:narrowMaxMin [224], xs:noFixedFacet [229], xs:numFacet [231], xs:realGroup [235], xs:simpleExplicitGroup [242], xs:simpleExtensionType [245], xs:simpleRestrictionType [248], xs:topLevelAttribute [255], xs:topLevelComplexType [258], xs:topLevelElement [262], xs:topLevelSimpleType [266]

All Direct / Indirect Based Elements (50):

xs:all [22],
xs:all (in xs:group) [25],
xs:any [30],
xs:anyAttribute [33],
xs:attribute [37],
xs:attribute (type xs:attribute) [39],
xs:attributeGroup [42],
xs:attributeGroup (type xs:attributeGroupRef) [44],
xs:choice [46],
xs:key [95],
xs:keyref [97],
xs:length [100],
xs:list [102],
xs:maxExclusive [104],
xs:maxInclusive [106],
xs:maxLength [108],
xs:minExclusive [110],
xs:minInclusive [112],

xs:choice (in xs:group) [49],
xs:complexContent [51],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:element [63],
xs:element (type xs:localElement) [67],
xs:element (type xs:narrowMaxMin) [71],
xs:enumeration [75],
xs:extension (in xs:complexContent) [77],
xs:extension (in xs:simpleContent) [80],
xs:field [82],
xs:fractionDigits [85],
xs:group [87],
xs:group (type xs:groupRef) [89],
xs:import [91],
xs:include [93],
xs:minLength [114],
xs:notation [116],
xs:pattern [119],
xs:restriction [124],
xs:restriction (in xs:complexContent) [128],
xs:restriction (in xs:simpleContent) [131],
xs:selector [135],
xs:sequence [138],
xs:sequence (in xs:group) [141],
xs:simpleContent [143],
xs:simpleType [145],
xs:simpleType (type xs:localSimpleType) [147],
xs:totalDigits [149],
xs:union [151],
xs:unique [154],
xs:whiteSpace [156]

Known Usage Locations

- **In derivations of other global types (11):**

xs:attribute [167] (as extension base),
xs:attributeGroup [171] (as extension base),
xs:complexType [179] (as extension base),
xs:element [183] (as extension base),
xs:extensionType [192] (as extension base),
xs:facet [195] (as extension base),
xs:group [197] (as extension base),
xs:keybase [204] (as extension base),
xs:restrictionType [238] (as extension base),
xs:simpleType [252] (as extension base),
xs:wildcard [269] (as extension base)

- **In derivations of anonymous types of elements (10):**

xs:complexContent [51] (as extension base),
xs:field [82] (as extension base),
xs:import [91] (as extension base),
xs:include [93] (as extension base),
xs:list [102] (as extension base),
xs:notation [116] (as extension base),
xs:restriction [124] (as extension base),
xs:selector [135] (as extension base),
xs:simpleContent [143] (as extension base),
xs:union [151] (as extension base)

Annotation

This type is extended by all types which allow annotation
other than <schema> itself

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated
```

XML Source

```
<xs:complexType name="annotated">
  <xs:annotation>
    <xs:documentation>
      This type is extended by all types which allow annotation
      other than &lt;schema&gt; itself
    </xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:extension base="xs:openAttrs">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
      </xs:sequence>
      <xs:attribute name="id" type="xs:ID"/>
```

```
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 2/2)

id

Type: xs:ID [302]
Use: optional
Defined: locally within (this) xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

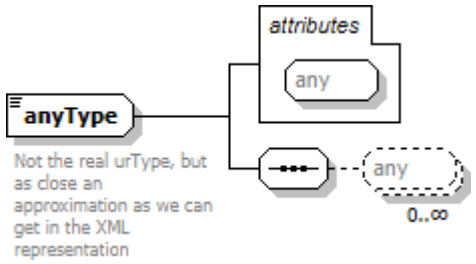
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:annotated complexType

complexType "xs:anyType"

Namespace: http://www.w3.org/2001/XMLSchema
Content: mixed *(allows character data)*, attr. wildcard, elem. wildcard
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [166]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    {any attribute from any namespace}
    >
    Content: {text} × {any}*
</...>
```

Known Direct Subtypes (1):

xs:openAttrs [233]

Known Indirect Subtypes (33):

xs:all [159], xs:annotated [162], xs:attribute [167], *xs:attributeGroup* [171], xs:attributeGroupRef [174], xs:complexRestrictionType [176], *xs:complexType* [179], *xs:element* [183], xs:explicitGroup [188], xs:extensionType [192], xs:facet [195], *xs:group* [197], xs:groupRef [201], xs:keybase [204], xs:localComplexType [206], xs:localElement [210], xs:localSimpleType [215], xs:namedAttributeGroup [218], xs:namedGroup [221], xs:narrowMaxMin [224], xs:noFixedFacet [229], xs:numFacet [231], xs:realGroup [235], xs:restrictionType [238], xs:simpleExplicitGroup [242], xs:simpleExtensionType [245], xs:simpleRestrictionType [248], *xs:simpleType* [252], xs:topLevelAttribute [255], xs:topLevelComplexType [258], xs:topLevelElement [262], xs:topLevelSimpleType [266], xs:wildcard [269]

All Direct / Indirect Based Elements (53):

xs:all [22],
xs:all (in xs:group) [25],
xs:annotation [27],
xs:any [30],
xs:anyAttribute [33],
xs:attribute [37],
xs:attribute (type xs:attribute) [39],
xs:attributeGroup [42],
xs:attributeGroup (type xs:attributeGroupRef) [44],
xs:choice [46],
xs:choice (in xs:group) [49],
xs:complexContent [51],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:element [63],
xs:element (type xs:localElement) [67],
xs:element (type xs:narrowMaxMin) [71],
xs:enumeration [75],
xs:extension (in xs:complexContent) [77],
xs:extension (in xs:simpleContent) [80],
xs:keyref [97],
xs:length [100],
xs:list [102],
xs:maxExclusive [104],
xs:maxInclusive [106],
xs:maxLength [108],
xs:minExclusive [110],
xs:minInclusive [112],
xs:minLength [114],
xs:notation [116],
xs:pattern [119],
xs:redefine [121],
xs:restriction [124],
xs:restriction (in xs:complexContent) [128],
xs:restriction (in xs:simpleContent) [131],
xs:schema [17],
xs:selector [135],
xs:sequence [138],
xs:sequence (in xs:group) [141],
xs:simpleContent [143],

xs:field [82],
xs:fractionDigits [85],
xs:group [87],
xs:group (type xs:groupRef) [89],
xs:import [91],
xs:include [93],
xs:key [95],
xs:simpleType [145],
xs:simpleType (type xs:localSimpleType) [147],
xs:totalDigits [149],
xs:union [151],
xs:unique [154],
xs:whiteSpace [156]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:openAttrs [233] (as restriction base)

Annotation

Not the real urType, but as close an approximation as we can get in the XML representation

XML Source

```
<xs:complexType mixed="true" name="anyType">
  <xs:annotation>
    <xs:documentation>
      Not the real urType, but as close an approximation as we can
      get in the XML representation
    </xs:documentation>
  </xs:annotation>
  <xs:sequence>
    <xs:any maxOccurs="unbounded" minOccurs="0" processContents="lax"/>
  </xs:sequence>
  <xs:anyAttribute processContents="lax"/>
</xs:complexType>
```

Attribute Detail (all declarations; 1/1)

{any attribute from any namespace}

Defined: within (this) xs:anyType complexType

Content Element Detail (all declarations; 1/1)

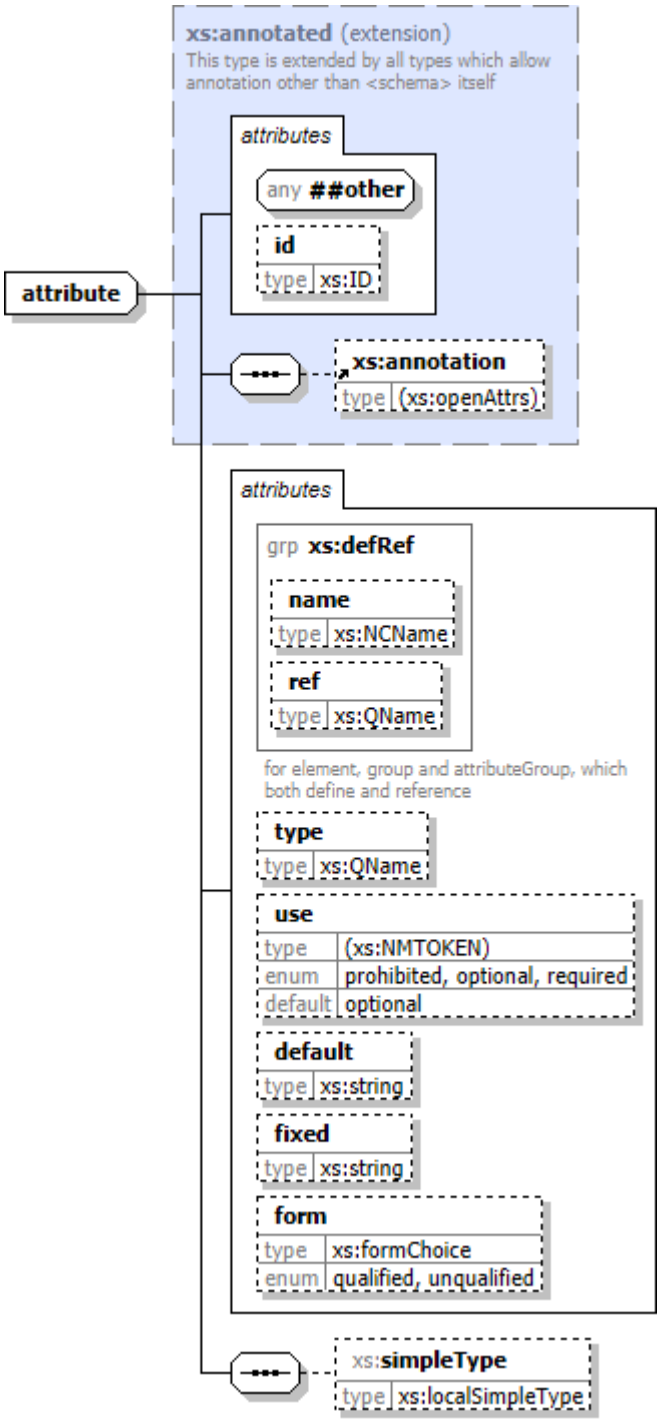
{any element from any namespace}

Defined: within (this) xs:anyType complexType

complexType "xs:attribute"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 8 attributes, attr. wildcard, 2 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[168]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id        = xs:ID
    name      = xs:NCName
    ref       = xs:QName
    type      = xs:QName
    use       = ("prohibited" | "optional" | "required") : "optional"
    default   = xs:string
    fixed     = xs:string
    form      = ("qualified" | "unqualified")
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:simpleType?
</...>
```

Known Direct Subtypes (1):

xs:topLevelAttribute [255]

All Direct / Indirect Based Elements (2):

xs:attribute [37], xs:attribute (type xs:attribute) [39]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:topLevelAttribute [255] (as restriction base)

- **As direct type of elements (1):**

  xs:attribute (type xs:attribute) [39]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:attribute
```

XML Source

```
<xs:complexType name="attribute">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:sequence>
        <xs:element minOccurs="0" name="simpleType" type="xs:localSimpleType"/>
      </xs:sequence>
      <xs:attributeGroup ref="xs:defRef"/>
      <xs:attribute name="type" type="xs:QName"/>
      <xs:attribute default="optional" name="use" use="optional">
        <xs:simpleType>
          <xs:restriction base="xs:NMTOKEN">
            <xs:enumeration value="prohibited"/>
            <xs:enumeration value="optional"/>
            <xs:enumeration value="required"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute name="default" type="xs:string"/>
      <xs:attribute name="fixed" type="xs:string"/>
      <xs:attribute name="form" type="xs:formChoice"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 9/9)

- default

  Type: xs:string [333]
  Use: optional
  Defined: locally within (this) xs:attribute complexType

- fixed

  Type: xs:string [333]
  Use: optional
  Defined: locally within (this) xs:attribute complexType

- form

  Type: xs:formChoice [293]
  Use: optional
  Defined: locally within (this) xs:attribute complexType

  Attribute Value

  enumeration of xs:NMTOKEN

  Enumeration: "qualified", "unqualified"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- name

  Type: xs:NCName [313]
  Use: optional
  Defined: locally within xs:defRef attributeGroup

- ref

  Type: xs:QName [327]
  Use: optional
  Defined: locally within xs:defRef attributeGroup

- type

  Type: xs:QName [327]
  Use: optional
  Defined: locally within (this) xs:attribute complexType

- use

  Type: anonymous simpleType (restriction of xs:NMTOKEN) [170]
  Use: optional
  Defined: locally within (this) xs:attribute complexType

  Attribute Value

  enumeration of xs:NMTOKEN

  Enumeration: "prohibited", "optional", "required"
  Default: "optional"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
- xs:string [333] (restriction)
  - xs:normalizedString [322] (restriction)
    - xs:token [336] (restriction)
      - xs:NMTOKEN [316] (restriction)
        - **simpleType**

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 2/2)

- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

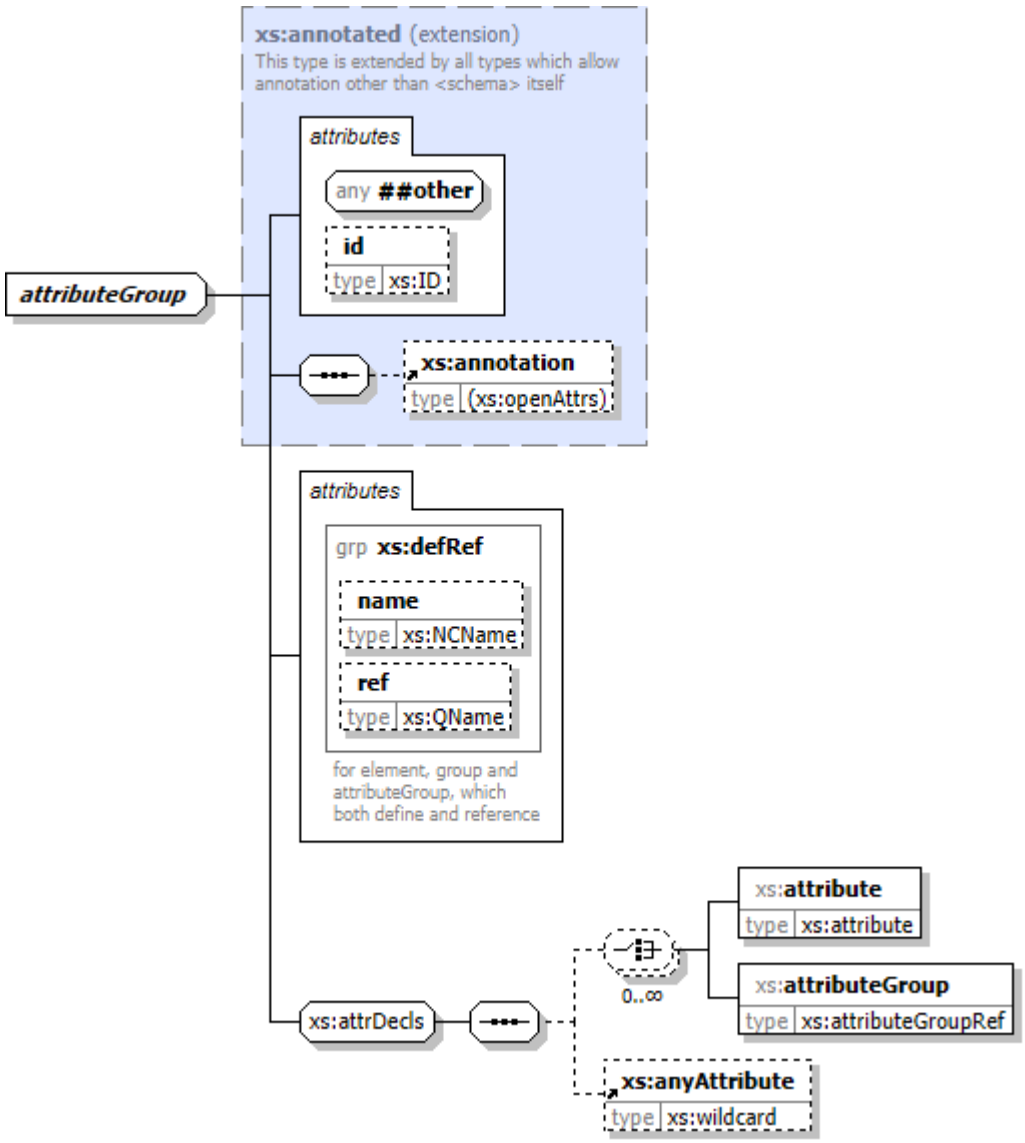
- xs:simpleType [147]

  Type: xs:localSimpleType [215], complex content
  Defined: locally within (this) xs:attribute complexType

complexType "xs:attributeGroup"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 3 attributes, attr. wildcard, 4 elements
Abstract: *(cannot be assigned directly to elements used in instance XML documents)*
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [172]
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id   = xs:ID
    name = xs:NCName
    ref  = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?
</...>
```

Known Direct Subtypes (2):

xs:attributeGroupRef [174], xs:namedAttributeGroup [218]

All Direct / Indirect Based Elements (2):

xs:attributeGroup [42], xs:attributeGroup (type xs:attributeGroupRef) [44]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:attributeGroupRef [174] (as restriction base), xs:namedAttributeGroup [218] (as restriction base)

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:attributeGroup
```

XML Source

```
<xs:complexType abstract="true" name="attributeGroup">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:group ref="xs:attrDecls"/>
      <xs:attributeGroup ref="xs:defRef"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: optional
Defined: locally within xs:defRef attributeGroup

ref

Type: xs:QName [327]
Use: optional
Defined: locally within xs:defRef attributeGroup

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 4/4)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

`xs:anyAttribute` [33]

Type: `xs:wildcard` [269], complex content
Defined: by reference within `xs:attrDecls` group

`xs:attribute` [39]

Type: `xs:attribute` [167], complex content
Defined: locally within `xs:attrDecls` group

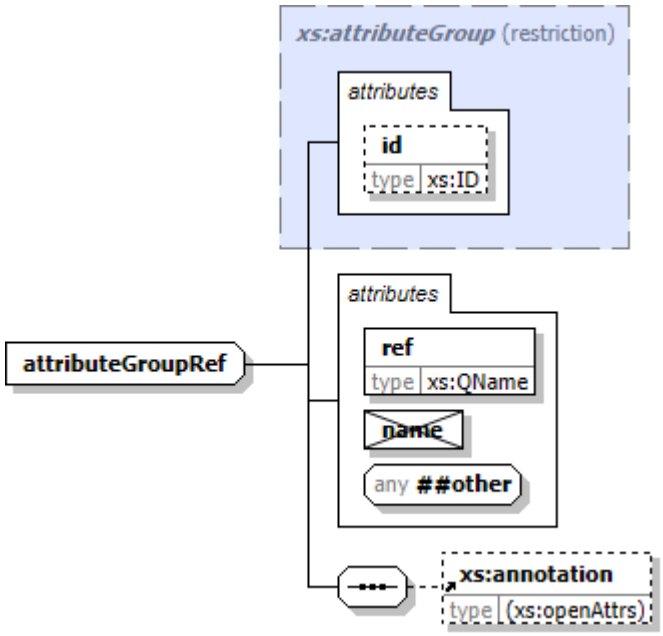
`xs:attributeGroup` [44]

Type: `xs:attributeGroupRef` [174], complex content
Defined: locally within `xs:attrDecls` group

complexType "xs:attributeGroupRef"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [175]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id  = xs:ID
    ref = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</...>
```

All Direct / Indirect Based Elements (1):

xs:attributeGroup (type xs:attributeGroupRef) [44]

Known Usage Locations

- **As direct type of elements (1):**

  xs:attributeGroup (type xs:attributeGroupRef) [44]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:attributeGroup [171] (restriction)
              └ xs:attributeGroupRef
```

XML Source

```
<xs:complexType name="attributeGroupRef">
  <xs:complexContent>
    <xs:restriction base="xs:attributeGroup">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
      </xs:sequence>
      <xs:attribute name="ref" type="xs:QName" use="required"/>
      <xs:attribute name="name" use="prohibited"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- ~~name~~

  Use: prohibited

- ref

  Type: xs:QName [327]
  Use: required
  Defined: locally within (this) xs:attributeGroupRef complexType

- *{any attribute from non-schema namespace}*

  Defined: within (this) xs:attributeGroupRef complexType

Content Element Detail (all declarations; 1/1)

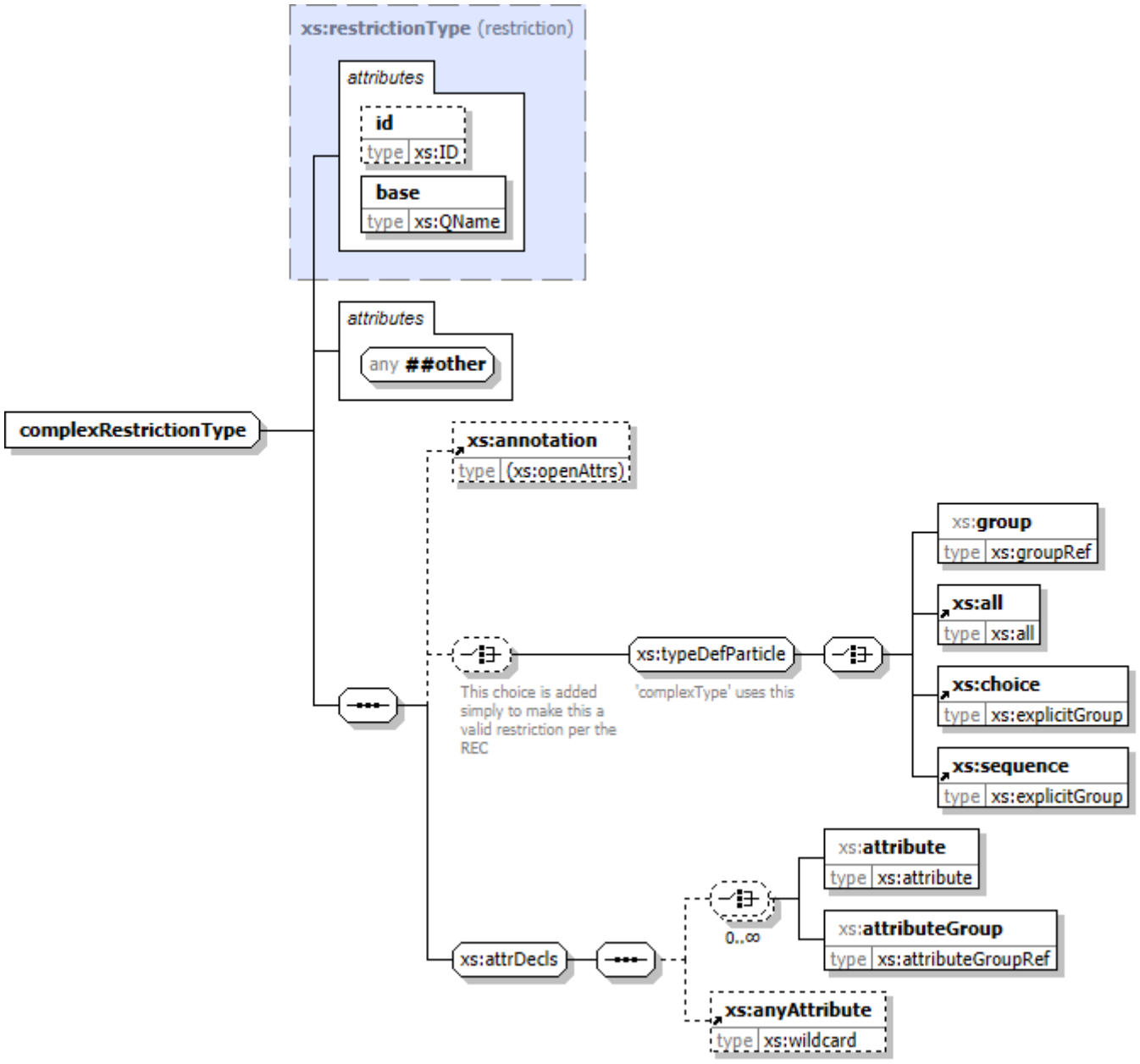
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within (this) xs:attributeGroupRef complexType

complexType "xs:complexRestrictionType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 2 attributes, attr. wildcard, 8 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[177]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id    = xs:ID
    base  = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:group | xs:all | xs:choice | xs:sequence)?, (xs:attribute |
             xs:attributeGroup)*, xs:anyAttribute?
</...>
```

All Direct / Indirect Based Elements (1):

xs:restriction (in xs:complexContent) [128]

Known Usage Locations

- **As direct type of elements (1):**

  xs:restriction (in xs:complexContent) [128]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:restrictionType [238] (restriction)
              └xs:complexRestrictionType
```

XML Source

```
<xs:complexType name="complexRestrictionType">
  <xs:complexContent>
    <xs:restriction base="xs:restrictionType">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <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:typeDefParticle"/>
        </xs:choice>
        <xs:group ref="xs:attrDecls"/>
      </xs:sequence>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within xs:restrictionType complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within (this) xs:complexRestrictionType complexType

Content Element Detail (all declarations; 8/8)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

`xs:annotation` [27]

Type: anonymous complexType (extension of `xs:openAttrs` [28], complex content
Defined: by reference within (this) `xs:complexRestrictionType` complexType

`xs:anyAttribute` [33]

Type: `xs:wildcard` [269], complex content
Defined: by reference within `xs:attrDecls` group

`xs:attribute` [39]

Type: `xs:attribute` [167], complex content
Defined: locally within `xs:attrDecls` group

`xs:attributeGroup` [44]

Type: `xs:attributeGroupRef` [174], complex content
Defined: locally within `xs:attrDecls` group

`xs:choice` [46]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:typeDefParticle` group

`xs:group` [89]

Type: `xs:groupRef` [201], complex content
Defined: locally within `xs:typeDefParticle` group

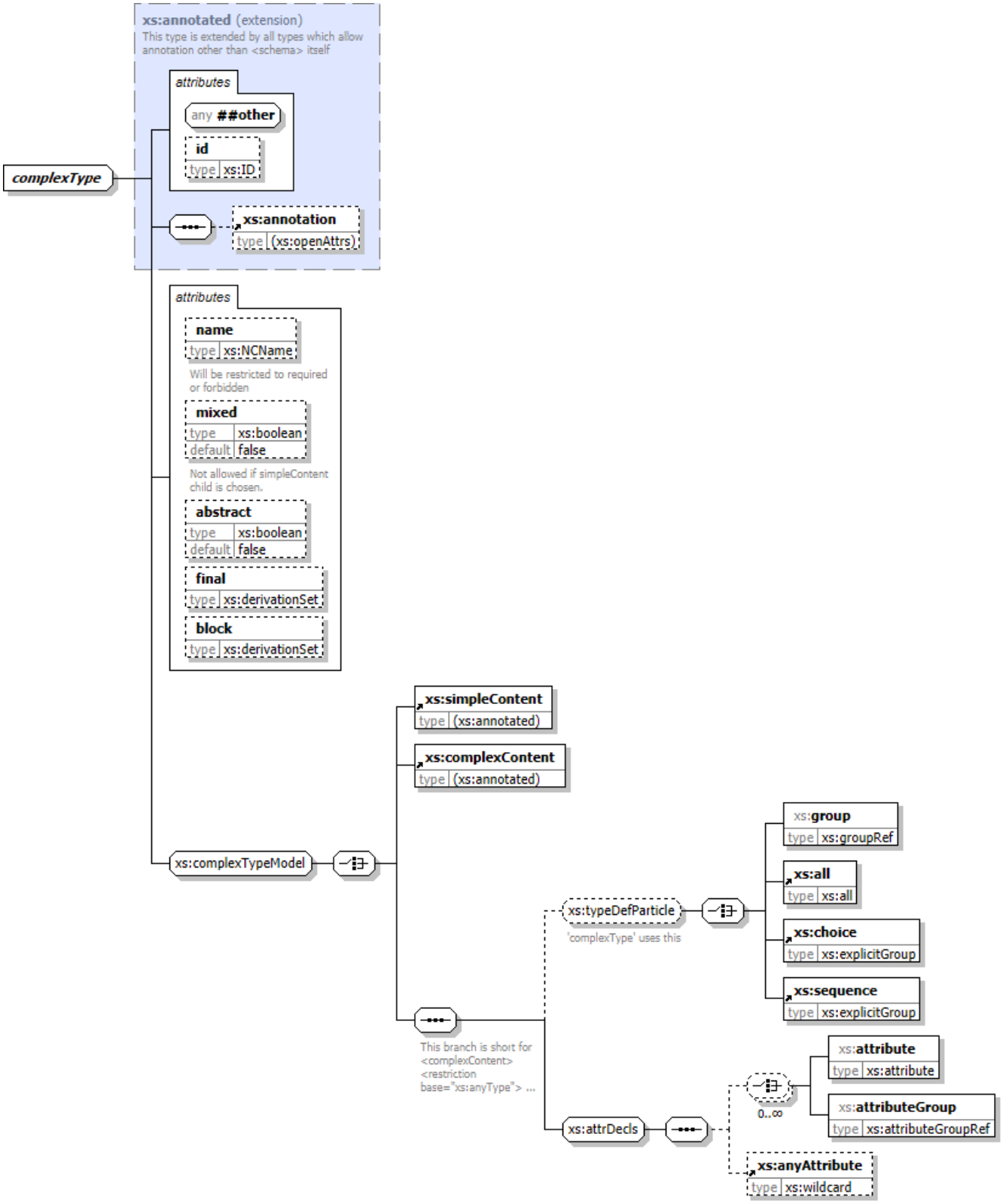
`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:typeDefParticle` group

complexType "xs:complexType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 6 attributes, attr. wildcard, 10 elements
Abstract: *(cannot be assigned directly to elements used in instance XML documents)*
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[180]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id        = xs:ID
    name      = xs:NCName
    mixed     = xs:boolean : "false"
    abstract  = xs:boolean : "false"
    final     = ("#all" | list of ("extension" | "restriction"))
    block     = ("#all" | list of ("extension" | "restriction"))
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleContent | xs:complexContent | ((xs:group | xs:all | xs:choice |
             xs:sequence)?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?))
</...>
```

Known Direct Subtypes (2):

xs:localComplexType [206], xs:topLevelComplexType [258]

All Direct / Indirect Based Elements (2):

xs:complexType [54], xs:complexType (type xs:localComplexType) [58]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:localComplexType [206] (as restriction base), xs:topLevelComplexType [258] (as restriction base)

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:complexType
```

XML Source

```
<xs:complexType abstract="true" name="complexType">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:group ref="xs:complexTypeModel"/>
      <xs:attribute name="name" type="xs:NCName">
        <xs:annotation>
          <xs:documentation>
            Will be restricted to required or forbidden
          </xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute default="false" name="mixed" type="xs:boolean" use="optional">
        <xs:annotation>
          <xs:documentation>
            Not allowed if simpleContent child is chosen.
            May be overriden by setting on complexContent child.
          </xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute default="false" name="abstract" type="xs:boolean" use="optional"/>
      <xs:attribute name="final" type="xs:derivationSet"/>
      <xs:attribute name="block" type="xs:derivationSet"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 7/7)

abstract

Type: xs:boolean [278]
Use: optional
Defined: locally within (this) *xs:complexType* complexType

Attribute Value

Default: "false"

---

block

Type: xs:derivationSet [286]
Use: optional
Defined: locally within (this) *xs:complexType* complexType

Attribute Value

"#all" | *list of* ("extension" | "restriction")

---

final

Type: xs:derivationSet [286]
Use: optional
Defined: locally within (this) *xs:complexType* complexType

Attribute Value

"#all" | *list of* ("extension" | "restriction")

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

mixed

Type: xs:boolean [278]
Use: optional
Defined: locally within (this) *xs:complexType* complexType

Not allowed if simpleContent child is chosen.
May be overriden by setting on complexContent child.

Attribute Value

Default: "false"

---

name

Type: xs:NCName [313]
Use: optional
Defined: locally within (this) *xs:complexType* complexType

Will be restricted to required or forbidden

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 10/10)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

---

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

---

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

---

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

---

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:complexContent [51]

Type: anonymous complexType (extension of xs:annotated) [52], complex content
Defined: by reference within xs:complexTypeModel group

---

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

---

xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

---

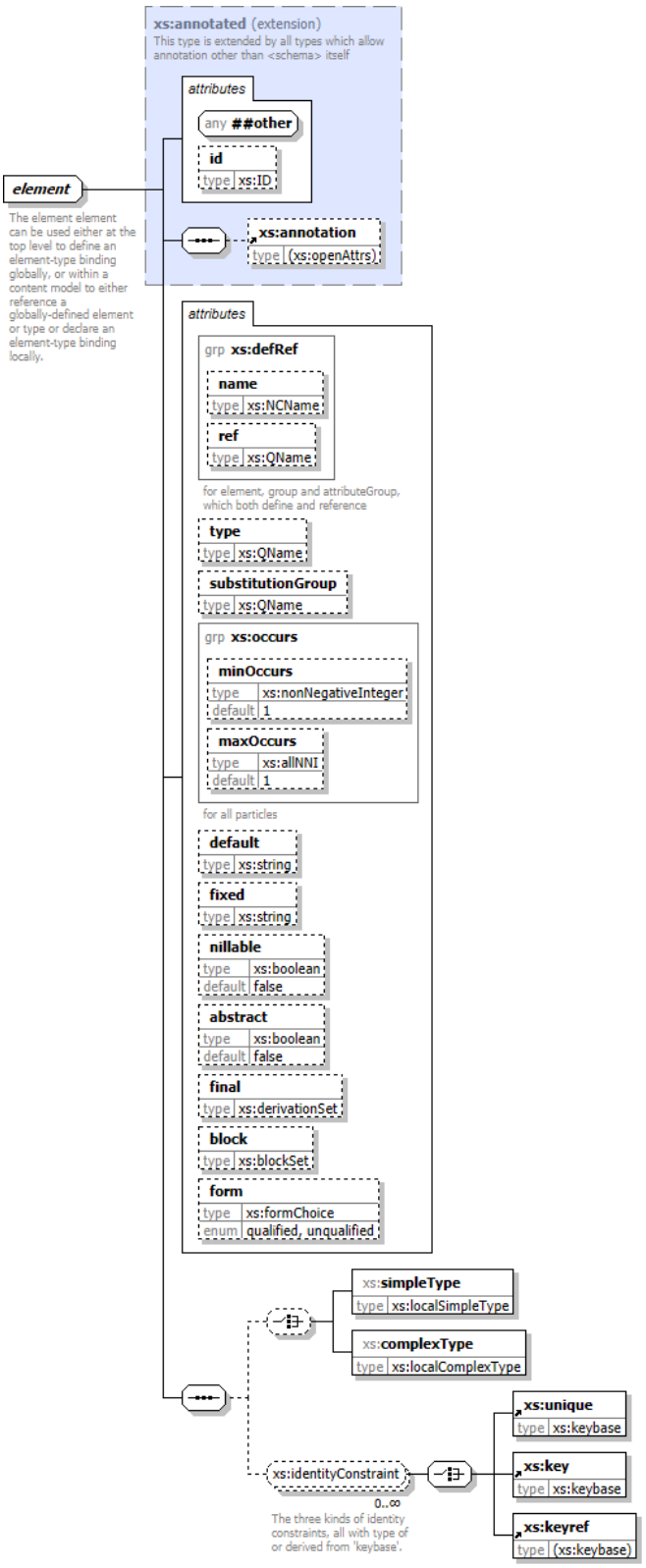
xs:simpleContent [143]

Type: anonymous complexType (extension of xs:annotated) [144], complex content
Defined: by reference within xs:complexTypeModel group

complexType "xs:element"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 14 attributes, attr. wildcard, 6 elements
Abstract: *(cannot be assigned directly to elements used in instance XML documents)*
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[184]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id                = xs:ID
    name              = xs:NCName
    ref               = xs:QName
    type              = xs:QName
    substitutionGroup = xs:QName
    minOccurs         = xs:nonNegativeInteger : "1"
    maxOccurs         = (xs:nonNegativeInteger | "unbounded") : "1"
    default           = xs:string
    fixed             = xs:string
    nillable          = xs:boolean : "false"
    abstract          = xs:boolean : "false"
    final             = ("#all" | list of ("extension" | "restriction"))
    block             = ("#all" | list of ("extension" | "restriction" | "substitution"))
    form              = ("qualified" | "unqualified")
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType | xs:complexType)?, (xs:unique | xs:key | xs:keyref)*
</...>
```

Known Direct Subtypes (2):

xs:localElement [210], xs:topLevelElement [262]

Known Indirect Subtypes (1):

xs:narrowMaxMin [224]

All Direct / Indirect Based Elements (3):

xs:element [63], xs:element (type xs:narrowMaxMin) [71]
xs:element (type xs:localElement) [67],

Known Usage Locations

- **In derivations of other global types (2):**

  xs:localElement [210] (as restriction base), xs:topLevelElement [262] (as restriction base)

Annotation

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.

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:element
```

XML Source

```
<xs:complexType abstract="true" name="element">
  <xs:annotation>
    <xs:documentation>
      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.
      </xs:documentation>
    </xs:annotation>
    <xs:complexContent>
      <xs:extension base="xs:annotated">
        <xs:sequence>
          <xs:choice minOccurs="0">
            <xs:element name="simpleType" type="xs:localSimpleType"/>
            <xs:element name="complexType" type="xs:localComplexType"/>
          </xs:choice>
          <xs:group maxOccurs="unbounded" minOccurs="0" ref="xs:identityConstraint"/>
        </xs:sequence>
        <xs:attributeGroup ref="xs:defRef"/>
        <xs:attribute name="type" type="xs:QName"/>
        <xs:attribute name="substitutionGroup" type="xs:QName"/>
        <xs:attributeGroup ref="xs:occurs"/>
        <xs:attribute name="default" type="xs:string"/>
        <xs:attribute name="fixed" type="xs:string"/>
        <xs:attribute default="false" name="nillable" type="xs:boolean" use="optional"/>
        <xs:attribute default="false" name="abstract" type="xs:boolean" use="optional"/>
        <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 Detail (all declarations; 15/15)

abstract

Type: xs:boolean [278]
Use: optional
Defined: locally within (this) *xs:element* complexType

Attribute Value

Default: "false"

---

block

Type: xs:blockSet [276]
Use: optional
Defined: locally within (this) *xs:element* complexType

Attribute Value

"#all" | *list of* ("extension" | "restriction" | "substitution")

---

default

Type: xs:string [333]
Use: optional
Defined: locally within (this) *xs:element* complexType

---

final

Type: xs:derivationSet [286]
Use: optional
Defined: locally within (this) *xs:element* complexType

Attribute Value

"#all" | *list of* ("extension" | "restriction")

---

fixed

Type: xs:string [333]

Use: optional
Defined: locally within (this) *xs:element* complexType

---

form

Type: xs:formChoice [293]
Use: optional
Defined: locally within (this) *xs:element* complexType

Attribute Value

enumeration of xs:NMTOKEN

Enumeration: "qualified", "unqualified"

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

xs:nonNegativeInteger | "unbounded"

Default: "1"

---

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

---

name

Type: xs:NCName [313]
Use: optional
Defined: locally within xs:defRef attributeGroup

---

nillable

Type: xs:boolean [278]
Use: optional
Defined: locally within (this) *xs:element* complexType

Attribute Value

Default: "false"

---

ref

Type: xs:QName [327]
Use: optional
Defined: locally within xs:defRef attributeGroup

- `substitutionGroup`

  Type: `xs:QName [327]`
  Use: optional
  Defined: locally within (this) *`xs:element`* complexType

- `type`

  Type: `xs:QName [327]`
  Use: optional
  Defined: locally within (this) *`xs:element`* complexType

- *`{any attribute from non-schema namespace}`*

  Defined: within `xs:openAttrs` complexType

Content Element Detail (all declarations; 6/6)

- `xs:annotation [27]`

  Type: anonymous complexType (extension of `xs:openAttrs`) `[28]`, complex content
  Defined: by reference within `xs:annotated` complexType

- `xs:complexType [58]`

  Type: `xs:localComplexType [206]`, complex content
  Defined: locally within (this) *`xs:element`* complexType

- `xs:key [95]`

  Type: `xs:keybase [204]`, complex content
  Defined: by reference within `xs:identityConstraint` group

- `xs:keyref [97]`

  Type: anonymous complexType (extension of `xs:keybase`) `[98]`, complex content
  Defined: by reference within `xs:identityConstraint` group

- `xs:simpleType [147]`

  Type: `xs:localSimpleType [215]`, complex content
  Defined: locally within (this) *`xs:element`* complexType

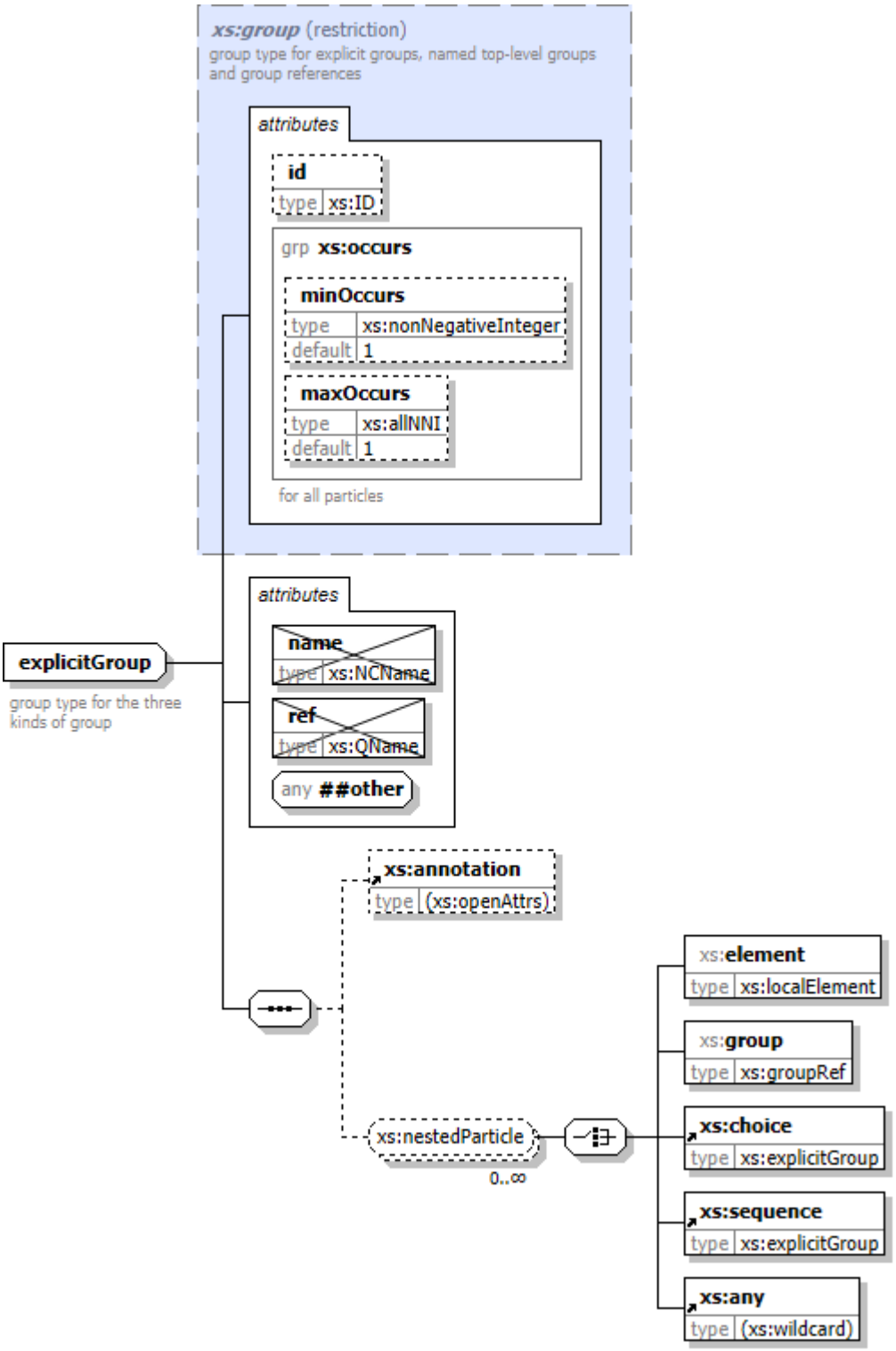
- `xs:unique [154]`

  Type: `xs:keybase [204]`, complex content
  Defined: by reference within `xs:identityConstraint` group

complexType "xs:explicitGroup"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 3 attributes, attr. wildcard, 6 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[189]`
Used: at 4 locations

Component Diagram



XML Representation Summary

```
<...
    id          = xs:ID
    minOccurs   = xs:nonNegativeInteger : "1"
    maxOccurs   = (xs:nonNegativeInteger | "unbounded") : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:element | xs:group | xs:choice | xs:sequence | xs:any)*
</...>
```

Known Direct Subtypes (2):

xs:all [159], xs:simpleExplicitGroup [242]

All Direct / Indirect Based Elements (6):

xs:all [22], xs:all (in xs:group) [25], xs:choice [46], xs:choice (in xs:group) [49], xs:sequence [138], xs:sequence (in xs:group) [141]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:all [159] (as restriction base), xs:simpleExplicitGroup [242] (as restriction base)

- **As direct type of elements (2):**

  xs:choice [46], xs:sequence [138]

Annotation

group type for the three kinds of group

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:group [197] (restriction)
              └xs:explicitGroup
```

XML Source

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

Attribute Detail (all declarations; 6/6)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

```
xs:nonNegativeInteger | "unbounded"
```

Default: "1"

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

~~name~~

Use: prohibited

~~ref~~

Use: prohibited

{any attribute from non-schema namespace}

Defined: within (this) xs:explicitGroup complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:explicitGroup complexType

xs:any [30]

Type: anonymous complexType (extension of xs:wildcard) [31], complex content
Defined: by reference within xs:nestedParticle group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:nestedParticle group

xs:element [67]

Type: xs:localElement [210], complex content
Defined: locally within xs:nestedParticle group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:nestedParticle group

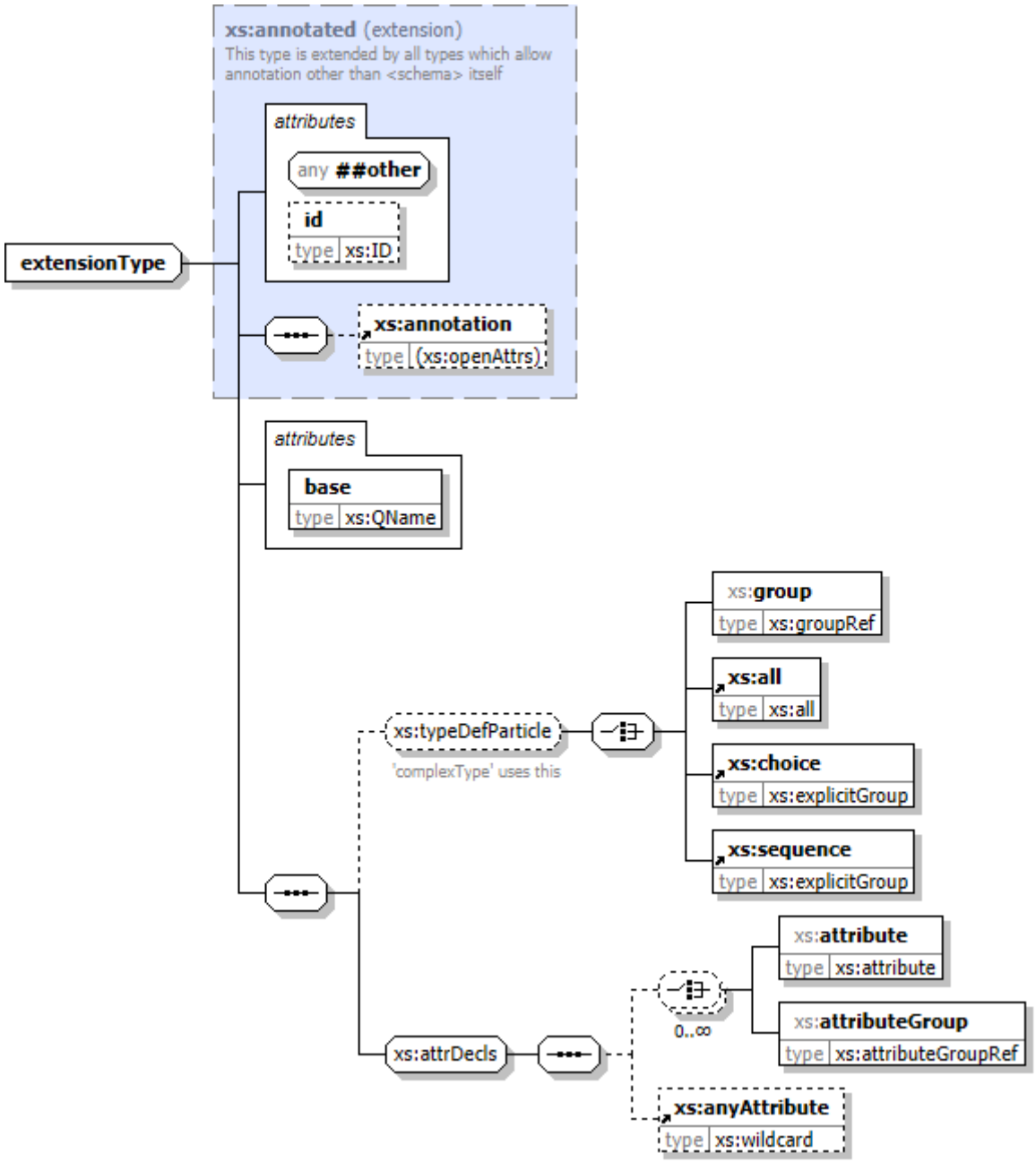
xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:nestedParticle group

complexType "xs:extensionType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 2 attributes, attr. wildcard, 8 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [193]
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id    = xs:ID
    base  = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:group | xs:all | xs:choice | xs:sequence)?, (xs:attribute |
             xs:attributeGroup)*, xs:anyAttribute?
</...>
```

Known Direct Subtypes (1):

xs:simpleExtensionType [245]

All Direct / Indirect Based Elements (2):

xs:extension (in xs:complexContent) [77], xs:extension (in xs:simpleContent) [80]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:simpleExtensionType [245] (as restriction base)

- **As direct type of elements (1):**

  xs:extension (in xs:complexContent) [77]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:extensionType
```

XML Source

```
<xs:complexType name="extensionType">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:sequence>
        <xs:group minOccurs="0" ref="xs:typeDefParticle"/>
        <xs:group ref="xs:attrDecls"/>
      </xs:sequence>
      <xs:attribute name="base" type="xs:QName" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within (this) xs:extensionType complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 8/8)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

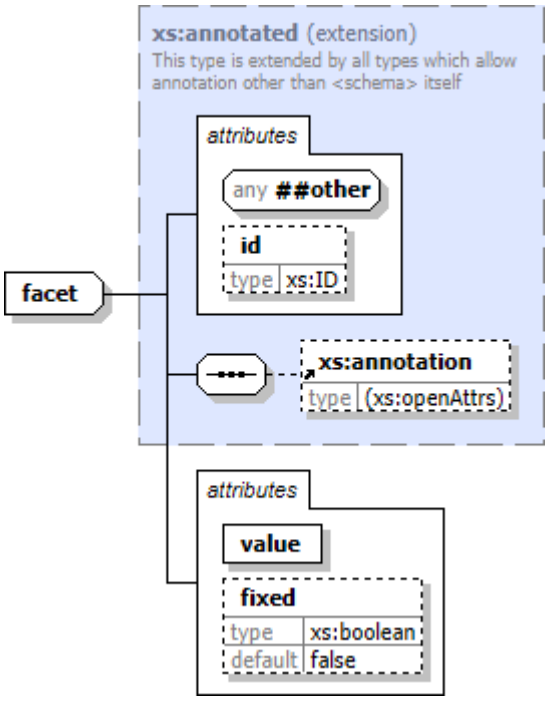
xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

complexType "xs:facet"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [196]
Used: at 7 locations

Component Diagram



XML Representation Summary

```
<...
    id    = xs:ID
    value = xs:anySimpleType
    fixed = xs:boolean : "false"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</...>
```

Known Direct Subtypes (2):

xs:noFixedFacet [229], xs:numFacet [231]

All Direct / Indirect Based Elements (12):

xs:enumeration [75], xs:fractionDigits [85], xs:length [100], xs:maxExclusive [104], xs:maxInclusive [106], xs:maxLength [108], xs:minExclusive [110], xs:minInclusive [112], xs:minLength [114], xs:pattern [119], xs:totalDigits [149], xs:whiteSpace [156]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:noFixedFacet[229] (as restriction base), xs:numFacet[231] (as restriction base)

- **As direct type of elements (4):**

  xs:maxExclusive [104], xs:maxInclusive [106], xs:minExclusive [110], xs:minInclusive [112]

- **In derivations of anonymous types of elements (1):**

xs:whiteSpace [156] (as restriction base)

Type Definition Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ **xs:facet**

XML Source

```
<xs:complexType name="facet">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:attribute name="value" use="required"/>
      <xs:attribute default="false" name="fixed" type="xs:boolean" use="optional"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within (this) xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:anySimpleType
  Use: required
  Defined: locally within (this) xs:facet complexType

- *{any attribute from non-schema namespace}*

  Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

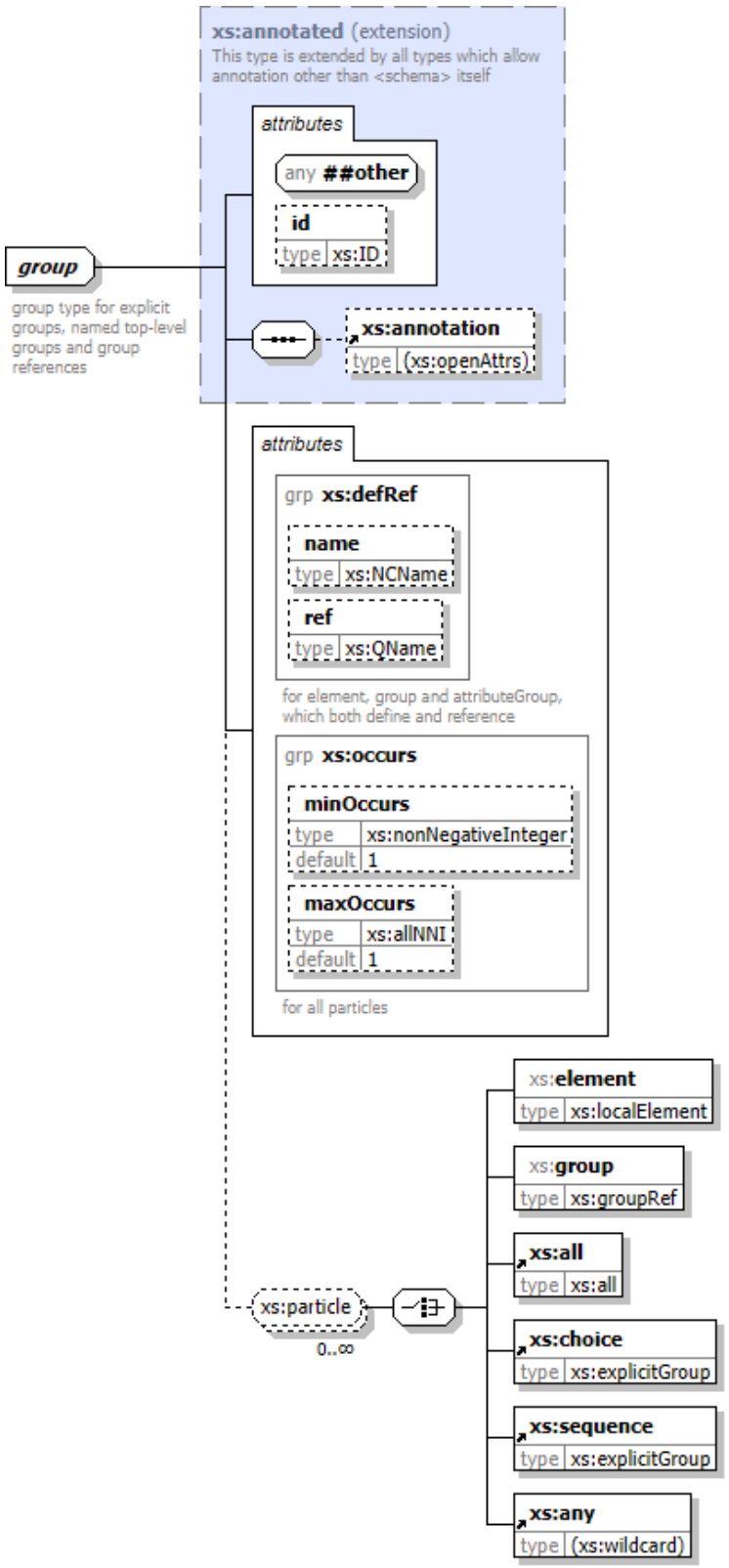
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within xs:annotated complexType

complexType "xs:group"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 5 attributes, attr. wildcard, 7 elements
Abstract: *(cannot be assigned directly to elements used in instance XML documents)*
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[198]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id          = xs:ID
    name        = xs:NCName
    ref         = xs:QName
    minOccurs   = xs:nonNegativeInteger : "1"
    maxOccurs   = (xs:nonNegativeInteger | "unbounded") : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:element | xs:group | xs:all | xs:choice | xs:sequence | xs:any)*
</...>
```

Known Direct Subtypes (2):

xs:explicitGroup [188], xs:realGroup [235]

Known Indirect Subtypes (4):

xs:all [159], xs:groupRef [201], xs:namedGroup [221], xs:simpleExplicitGroup [242]

All Direct / Indirect Based Elements (8):

xs:all [22],
xs:all (in xs:group) [25],
xs:choice [46],
xs:choice (in xs:group) [49],
xs:group [87],
xs:group (type xs:groupRef) [89],
xs:sequence [138],
xs:sequence (in xs:group) [141]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:explicitGroup [188] (as restriction base), xs:realGroup [235] (as restriction base)

Annotation

group type for explicit groups, named top-level groups and group references

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:group
```

XML Source

```
<xs:complexType abstract="true" name="group">
  <xs:annotation>
    <xs:documentation>
      group type for explicit groups, named top-level groups and
      group references
    </xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:group maxOccurs="unbounded" minOccurs="0" ref="xs:particle"/>
      <xs:attributeGroup ref="xs:defRef"/>
      <xs:attributeGroup ref="xs:occurs"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 6/6)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

```
xs:nonNegativeInteger | "unbounded"
```

Default: "1"

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

name

Type: xs:NCName [313]
Use: optional
Defined: locally within xs:defRef attributeGroup

ref

Type: xs:QName [327]
Use: optional
Defined: locally within xs:defRef attributeGroup

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 7/7)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:particle group

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:any [30]

Type: anonymous complexType (extension of xs:wildcard) [31], complex content
Defined: by reference within xs:particle group

`xs:choice` [46]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:particle` group

`xs:element` [67]

Type: `xs:localElement` [210], complex content
Defined: locally within `xs:particle` group

`xs:group` [89]

Type: `xs:groupRef` [201], complex content
Defined: locally within `xs:particle` group

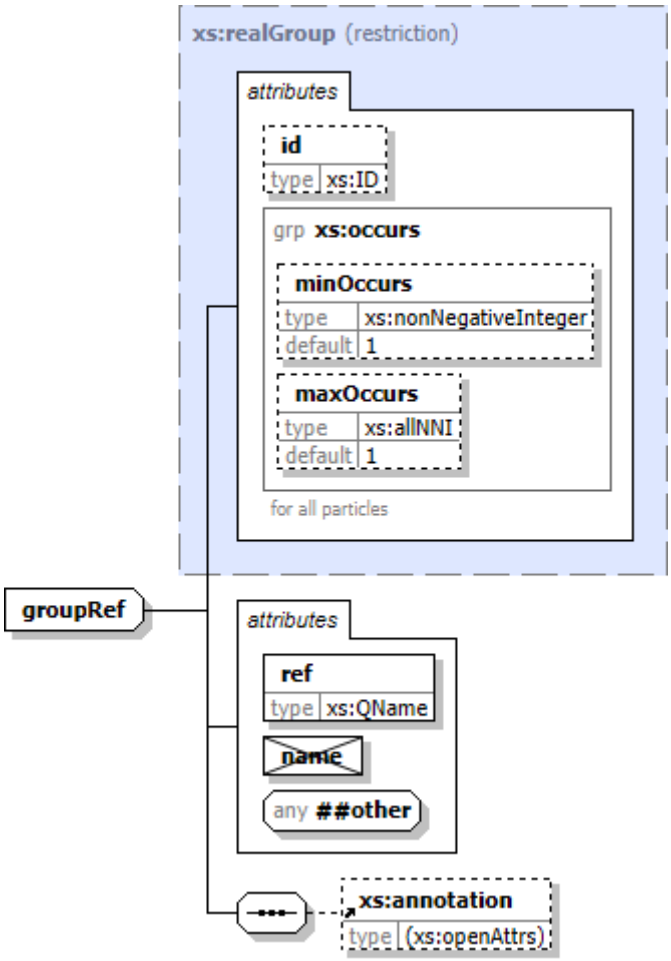
`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within `xs:particle` group

complexType "xs:groupRef"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 4 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [202]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id         = xs:ID
    minOccurs  = xs:nonNegativeInteger : "1"
    maxOccurs  = (xs:nonNegativeInteger | "unbounded") : "1"
    ref        = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</...>
```

All Direct / Indirect Based Elements (1):

xs:group (type xs:groupRef) [89]

Known Usage Locations

- **As direct type of elements (1):**

  xs:group (type xs:groupRef) [89]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:group [197] (restriction)
              └xs:realGroup [235] (restriction)
                  └xs:groupRef
```

XML Source

```
<xs:complexType name="groupRef">
  <xs:complexContent>
    <xs:restriction base="xs:realGroup">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
      </xs:sequence>
      <xs:attribute name="ref" type="xs:QName" use="required"/>
      <xs:attribute name="name" use="prohibited"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 6/6)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- maxOccurs

  Type: xs:allNNI [272]
  Use: optional
  Defined: locally within xs:occurs attributeGroup

  Attribute Value

  `xs:nonNegativeInteger | "unbounded"`

  Default: "1"

- minOccurs

  Type: xs:nonNegativeInteger [319]
  Use: optional
  Defined: locally within xs:occurs attributeGroup

  Attribute Value

  Default: "1"

- ~~name~~

  Use: prohibited

- ref

  Type: xs:QName [327]
  Use: required
  Defined: locally within (this) xs:groupRef complexType

{any attribute from non-schema namespace}

Defined: within (this) xs:groupRef complexType

Content Element Detail (all declarations; 1/1)

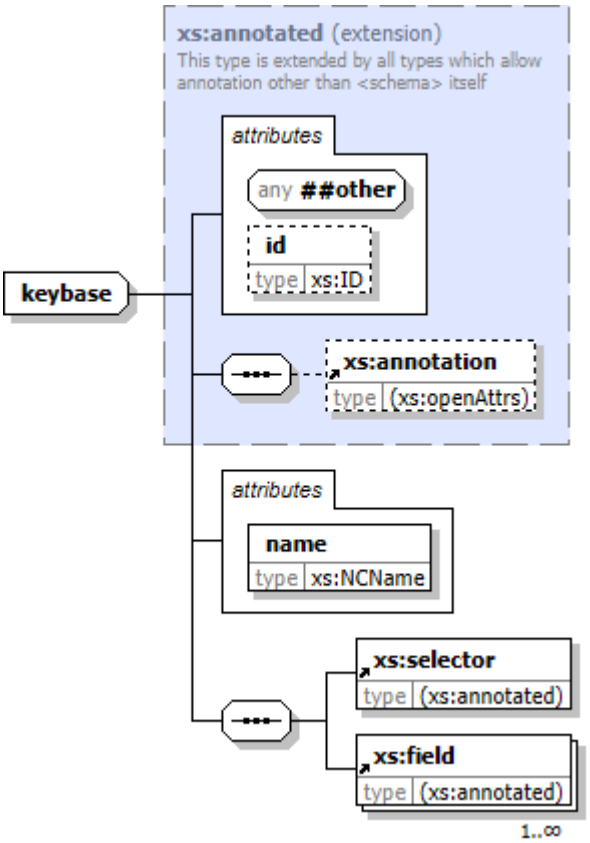
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:groupRef complexType

complexType "xs:keybase"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 2 attributes, attr. wildcard, 3 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[205]`
Used: at 3 locations

Component Diagram



XML Representation Summary

```
<...
    id   = xs:ID
    name = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:selector, xs:field+
</...>
```

All Direct / Indirect Based Elements (3):

xs:key `[95]`, xs:keyref `[97]`, xs:unique `[154]`

Known Usage Locations

- **As direct type of elements (2):**

  xs:key `[95]`, xs:unique `[154]`

- **In derivations of anonymous types of elements (1):**

  xs:keyref `[97]` (as extension base)

Type Definition Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ **xs:keybase**

XML Source

```
<xs:complexType name="keybase">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:sequence>
        <xs:element ref="xs:selector"/>
        <xs:element maxOccurs="unbounded" minOccurs="1" ref="xs:field"/>
      </xs:sequence>
      <xs:attribute name="name" type="xs:NCName" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 3/3)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within (this) xs:keybase complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 3/3)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:field [82]

Type: anonymous complexType (extension of xs:annotated) [83], complex content
Defined: by reference within (this) xs:keybase complexType

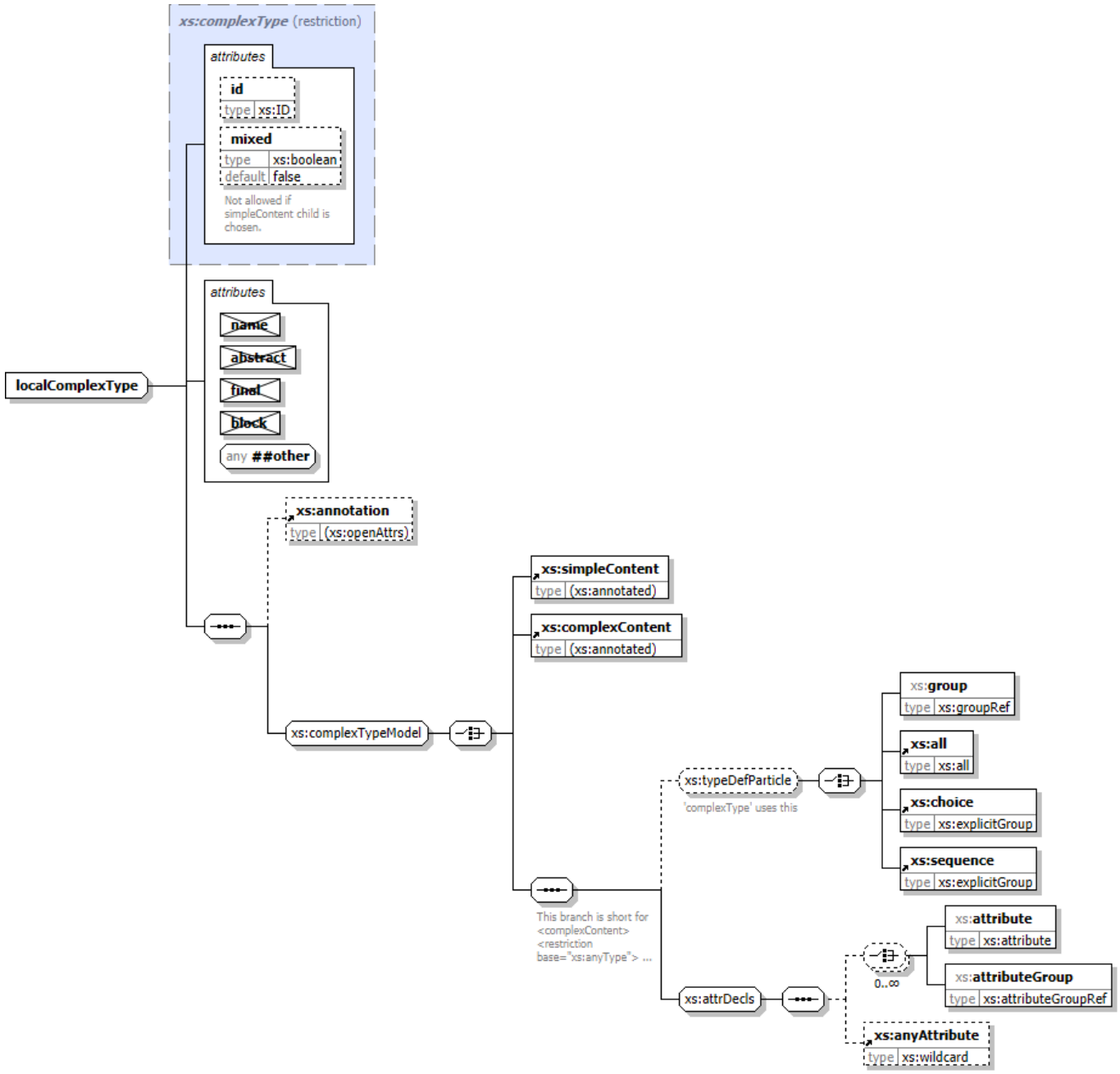
xs:selector [135]

Type: anonymous complexType (extension of xs:annotated) [136], complex content
Defined: by reference within (this) xs:keybase complexType

complexType "xs:localComplexType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 2 attributes, attr. wildcard, 10 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[207]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id     = xs:ID
    mixed  = xs:boolean : "false"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleContent | xs:complexContent | ((xs:group | xs:all | xs:choice |
             xs:sequence)?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?))
</...>
```

All Direct / Indirect Based Elements (1):

xs:complexType (type xs:localComplexType) [58]

Known Usage Locations

- **As direct type of elements (1):**

  xs:complexType (type xs:localComplexType) [58]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:complexType [179] (restriction)
              └xs:localComplexType
```

XML Source

```
<xs:complexType name="localComplexType">
  <xs:complexContent>
    <xs:restriction base="xs:complexType">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <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 Detail (all declarations; 7/7)

~~abstract~~

Use: prohibited

~~block~~

Use: prohibited

~~final~~

Use: prohibited

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

mixed

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:complexType* complexType

Not allowed if simpleContent child is chosen.
May be overriden by setting on complexContent child.

Attribute Value

Default: "false"

~~name~~

Use: prohibited

{any attribute from non-schema namespace}

Defined: within (this) xs:localComplexType complexType

Content Element Detail (all declarations; 10/10)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:localComplexType complexType

---

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

---

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

---

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

---

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:complexContent [51]

Type: anonymous complexType (extension of xs:annotated) [52], complex content
Defined: by reference within xs:complexTypeModel group

---

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

---

xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

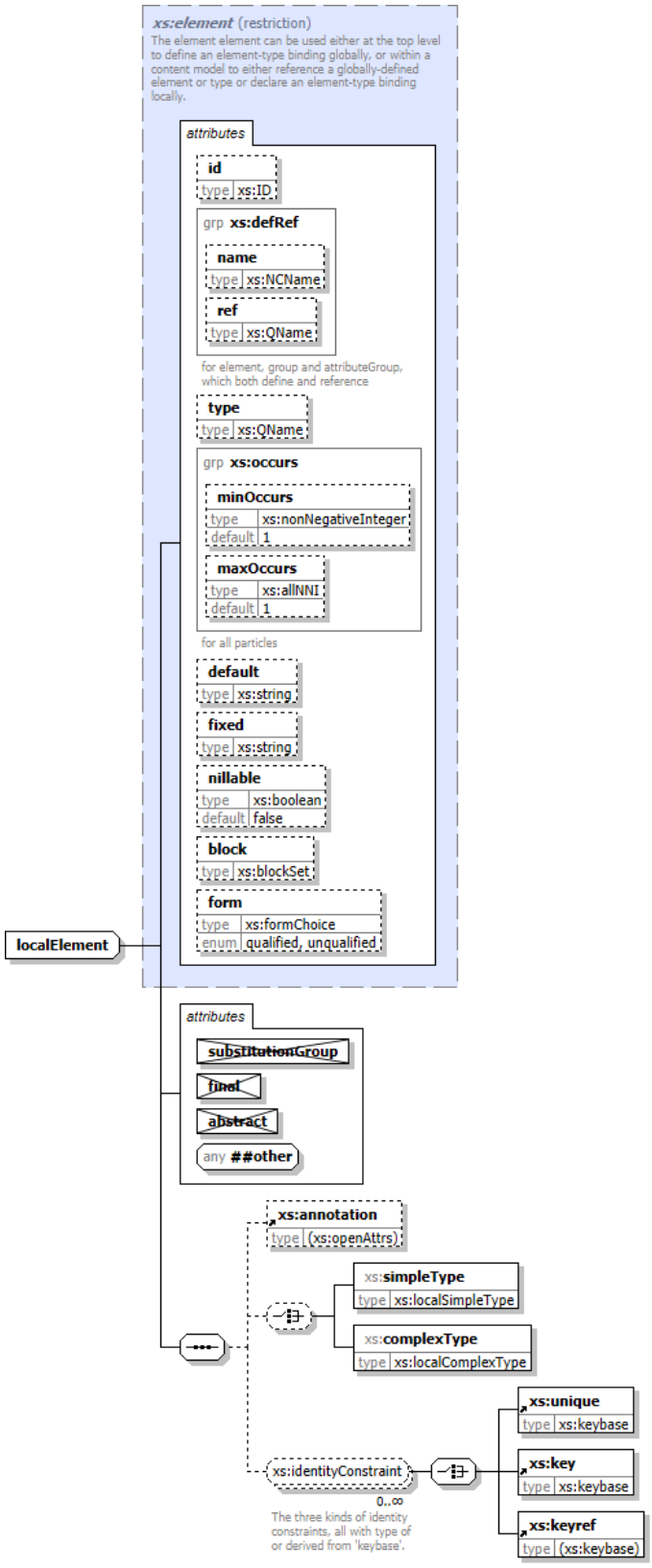
`xs:simpleContent` [143]

Type: anonymous complexType (extension of `xs:annotated`) [144], complex content
Defined: by reference within `xs:complexTypeModel` group

complexType "xs:localElement"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 11 attributes, attr. wildcard, 6 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[211]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id          = xs:ID
    name        = xs:NCName
    ref         = xs:QName
    type        = xs:QName
    minOccurs   = xs:nonNegativeInteger : "1"
    maxOccurs   = (xs:nonNegativeInteger | "unbounded") : "1"
    default     = xs:string
    fixed       = xs:string
    nillable    = xs:boolean : "false"
    block       = ("#all" | list of ("extension" | "restriction" | "substitution"))
    form        = ("qualified" | "unqualified")
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType | xs:complexType)?, (xs:unique | xs:key | xs:keyref)*
</...>
```

Known Direct Subtypes (1):

xs:narrowMaxMin [224]

All Direct / Indirect Based Elements (2):

xs:element (type xs:localElement) [67], xs:element (type xs:narrowMaxMin) [71]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:narrowMaxMin [224] (as restriction base)

- **As direct type of elements (1):**

  xs:element (type xs:localElement) [67]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:element [183] (restriction)
              └xs:localElement
```

XML Source

```
<xs:complexType name="localElement">
  <xs:complexContent>
    <xs:restriction base="xs:element">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:choice minOccurs="0">
          <xs:element name="simpleType" type="xs:localSimpleType"/>
          <xs:element name="complexType" type="xs:localComplexType"/>
        </xs:choice>
        <xs:group maxOccurs="unbounded" minOccurs="0" ref="xs:identityConstraint"/>
      </xs:sequence>
      <xs:attribute name="substitutionGroup" use="prohibited"/>
      <xs:attribute name="final" use="prohibited"/>
      <xs:attribute name="abstract" use="prohibited"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 15/15)

- ~~abstract~~

  Use: prohibited

- block

  Type: xs:blockSet [276]
  Use: optional
  Defined: locally within *xs:element* complexType

  Attribute Value

  ```
  "#all" | list of ("extension" | "restriction" | "substitution")
  ```

- default

  Type: xs:string [333]
  Use: optional
  Defined: locally within *xs:element* complexType

- ~~final~~

  Use: prohibited

- fixed

  Type: xs:string [333]
  Use: optional
  Defined: locally within *xs:element* complexType

- form

  Type: xs:formChoice [293]
  Use: optional
  Defined: locally within *xs:element* complexType

  Attribute Value

  ```
  enumeration of xs:NMTOKEN
  ```

  Enumeration: "qualified", "unqualified"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- maxOccurs

  Type: xs:allNNI [272]
  Use: optional
  Defined: locally within xs:occurs attributeGroup

  Attribute Value

  ```
  xs:nonNegativeInteger | "unbounded"
  ```

  Default: "1"

- minOccurs

  Type: xs:nonNegativeInteger [319]

Use: optional
Defined: locally within xs:occurs attributeGroup

Attribute Value

Default: "1"

---

name

Type: xs:NCName [313]
Use: optional
Defined: locally within xs:defRef attributeGroup

---

nillable

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

Default: "false"

---

ref

Type: xs:QName [327]
Use: optional
Defined: locally within xs:defRef attributeGroup

~~substitutionGroup~~

Use: prohibited

---

type

Type: xs:QName [327]
Use: optional
Defined: locally within *xs:element* complexType

{any attribute from non-schema namespace}

Defined: within (this) xs:localElement complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:localElement complexType

---

xs:complexType [58]

Type: xs:localComplexType [206], complex content
Defined: locally within (this) xs:localElement complexType

---

xs:key [95]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

---

xs:keyref [97]

Type: anonymous complexType (extension of xs:keybase) [98], complex content
Defined: by reference within xs:identityConstraint group

`xs:simpleType` [147]

Type: `xs:localSimpleType` [215], complex content
Defined: locally within (this) `xs:localElement` complexType

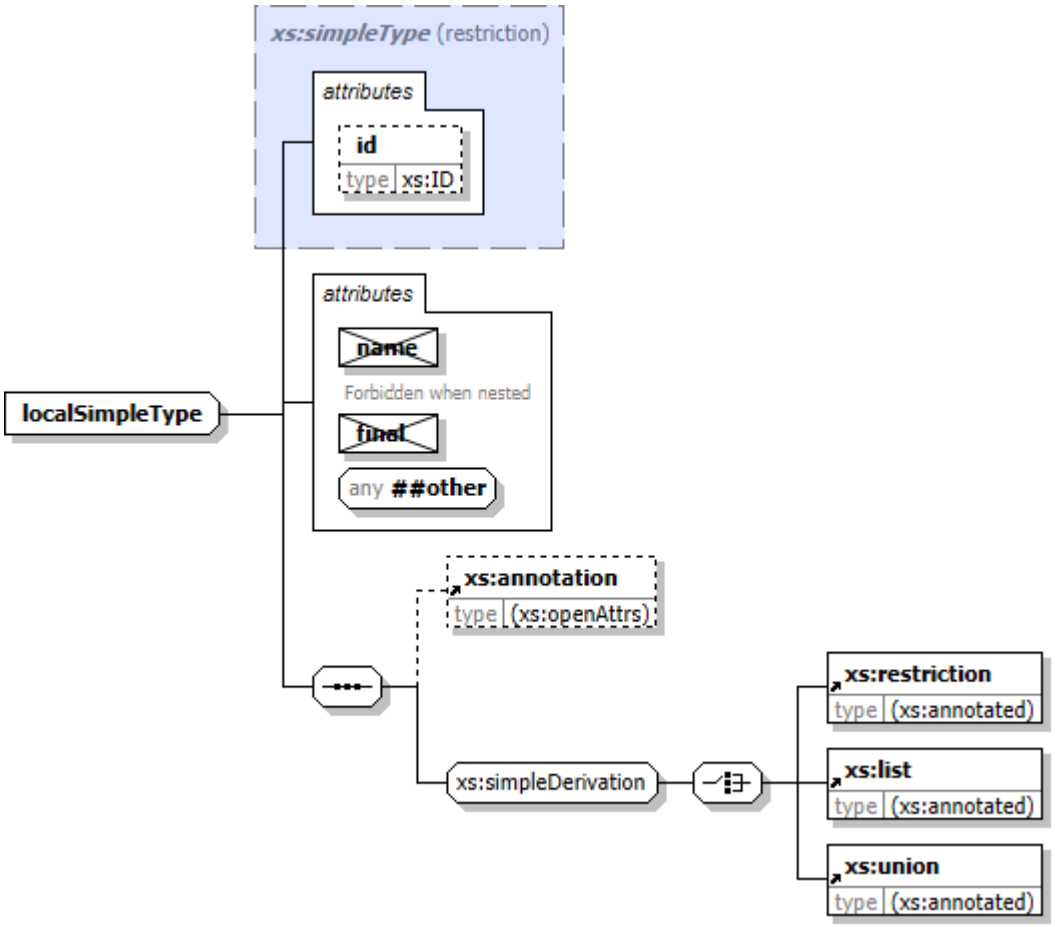
`xs:unique` [154]

Type: `xs:keybase` [204], complex content
Defined: by reference within `xs:identityConstraint` group

complexType "xs:localSimpleType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 1 attribute, attr. wildcard, 4 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[216]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id = xs:ID
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:restriction | xs:list | xs:union)
</...>
```

All Direct / Indirect Based Elements (1):

xs:simpleType (type xs:localSimpleType) `[147]`

Known Usage Locations

- **As direct type of elements (1):**

  xs:simpleType (type xs:localSimpleType) `[147]`

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:simpleType [252] (restriction)
              └ xs:localSimpleType
```

XML Source

```
<xs:complexType name="localSimpleType">
  <xs:complexContent>
    <xs:restriction base="xs:simpleType">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:group ref="xs:simpleDerivation"/>
      </xs:sequence>
      <xs:attribute name="name" use="prohibited">
        <xs:annotation>
          <xs:documentation>
            Forbidden when nested
          </xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attribute name="final" use="prohibited"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

~~final~~

Use: prohibited

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

~~name~~

Use: prohibited

Forbidden when nested

{any attribute from non-schema namespace}

Defined: within (this) xs:localSimpleType complexType

Content Element Detail (all declarations; 4/4)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:localSimpleType complexType

---

xs:list [102]

Type: anonymous complexType (extension of xs:annotated) [103], complex content

Defined: by reference within `xs:simpleDerivation` group

`xs:restriction` [124]

Type: anonymous complexType (extension of `xs:annotated`) [125], complex content
Defined: by reference within `xs:simpleDerivation` group

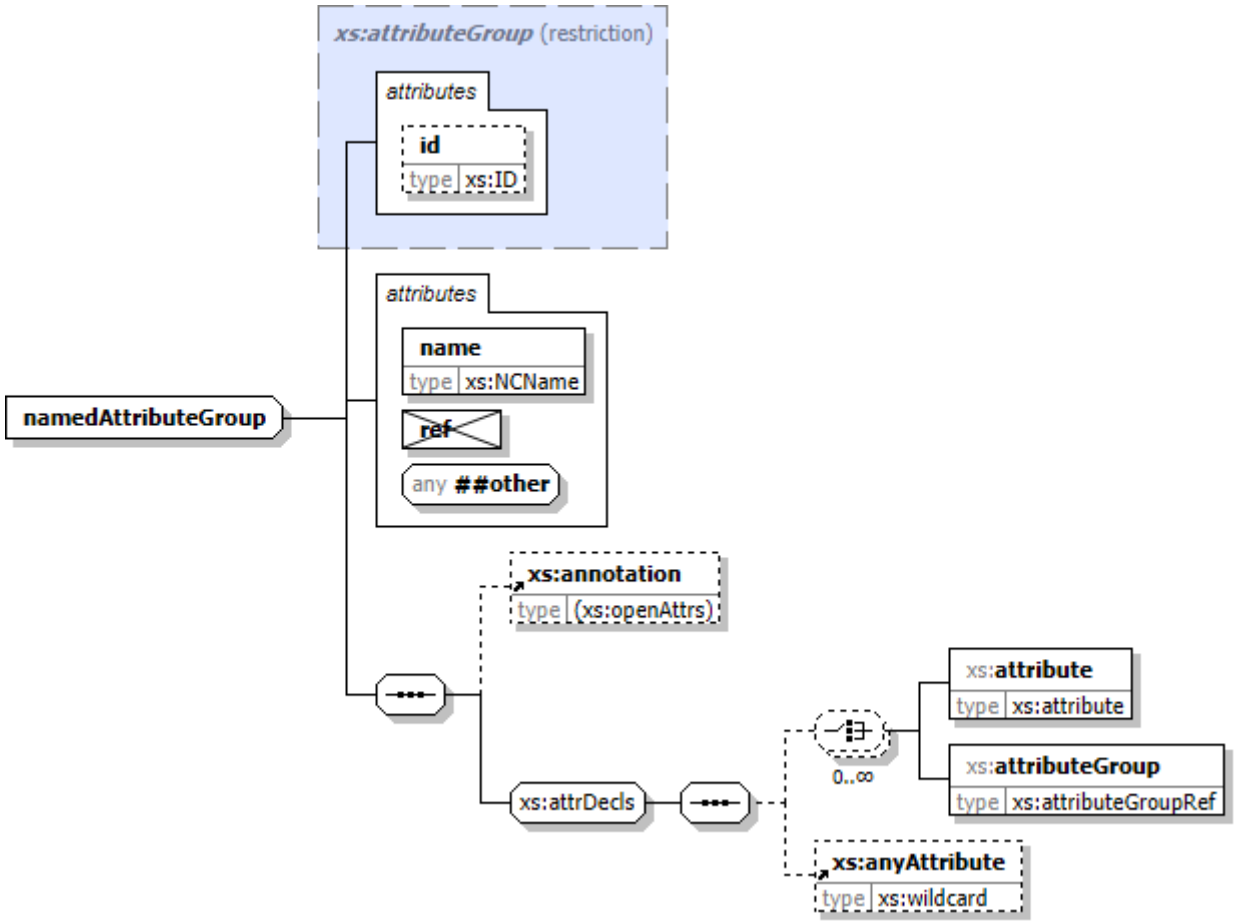
`xs:union` [151]

Type: anonymous complexType (extension of `xs:annotated`) [152], complex content
Defined: by reference within `xs:simpleDerivation` group

complexType "xs:namedAttributeGroup"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 2 attributes, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [219]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id   = xs:ID
    name = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?
</...>
```

All Direct / Indirect Based Elements (1):

xs:attributeGroup [42]

Known Usage Locations

- **As direct type of elements (1):**

  xs:attributeGroup [42]

Type Definition Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ *xs:attributeGroup* [171] (restriction)
        └ **xs:namedAttributeGroup**

XML Source

```
<xs:complexType name="namedAttributeGroup">
  <xs:complexContent>
    <xs:restriction base="xs:attributeGroup">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:group ref="xs:attrDecls"/>
      </xs:sequence>
      <xs:attribute name="name" type="xs:NCName" use="required"/>
      <xs:attribute name="ref" use="prohibited"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within (this) xs:namedAttributeGroup complexType

~~ref~~

Use: prohibited

{any attribute from non-schema namespace}

Defined: within (this) xs:namedAttributeGroup complexType

Content Element Detail (all declarations; 4/4)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:namedAttributeGroup complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content

Defined: locally within `xs:attrDecls` group

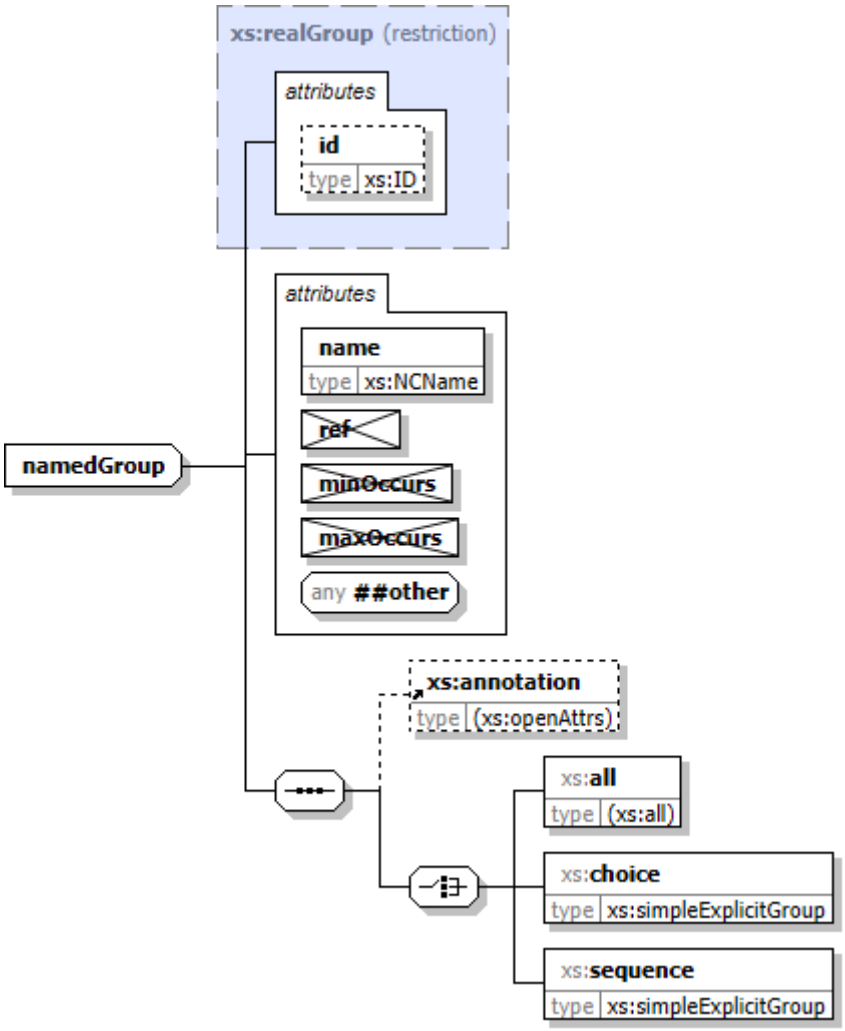
`xs:attributeGroup` [44]

Type: `xs:attributeGroupRef` [174], complex content
Defined: locally within `xs:attrDecls` group

complexType "xs:namedGroup"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 2 attributes, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [222]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id    = xs:ID
    name  = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:all | xs:choice | xs:sequence)
</...>
```

All Direct / Indirect Based Elements (1):

xs:group [87]

Known Usage Locations

- **As direct type of elements (1):**

  xs:group [87]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:group [197] (restriction)
              └ xs:realGroup [235] (restriction)
                  └ xs:namedGroup
```

XML Source

```
<xs:complexType name="namedGroup">
  <xs:complexContent>
    <xs:restriction base="xs:realGroup">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:choice maxOccurs="1" minOccurs="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 Detail (all declarations; 6/6)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- ~~maxOccurs~~

  Use: prohibited

- ~~minOccurs~~

  Use: prohibited

- name

  Type: xs:NCName [313]
  Use: required
  Defined: locally within (this) xs:namedGroup complexType

~~ref~~

Use: prohibited

{any attribute from non-schema namespace}

Defined: within (this) xs:namedGroup complexType

Content Element Detail (all declarations; 4/4)

xs:all [25]

Type: anonymous complexType (restriction of xs:all) [26], complex content
Defined: locally within (this) xs:namedGroup complexType

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:namedGroup complexType

xs:choice [49]

Type: xs:simpleExplicitGroup [242], complex content
Defined: locally within (this) xs:namedGroup complexType

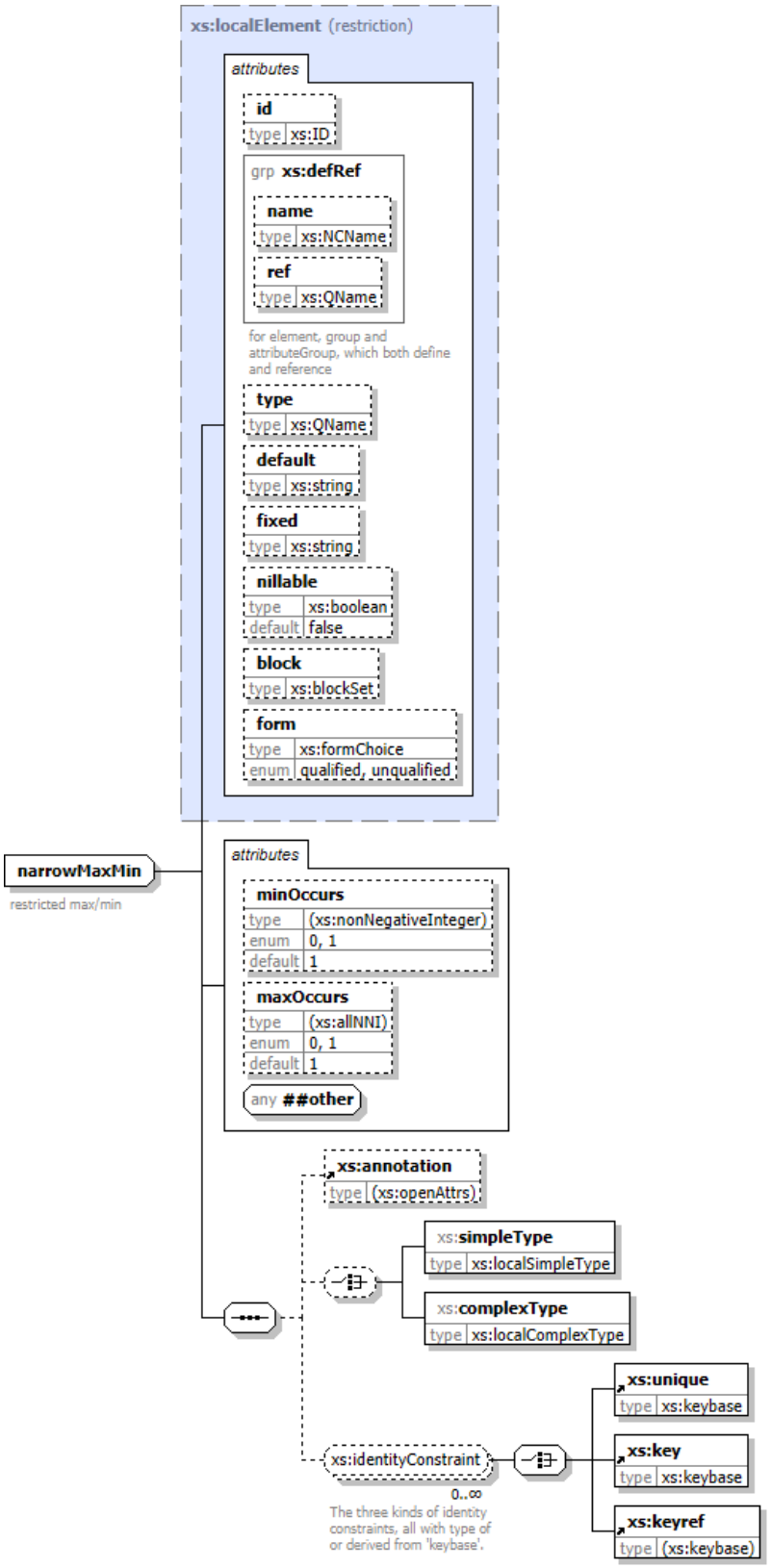
xs:sequence [141]

Type: xs:simpleExplicitGroup [242], complex content
Defined: locally within (this) xs:namedGroup complexType

complexType "xs:narrowMaxMin"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 11 attributes, attr. wildcard, 6 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[225]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id          = xs:ID
    name        = xs:NCName
    ref         = xs:QName
    type        = xs:QName
    default     = xs:string
    fixed       = xs:string
    nillable    = xs:boolean : "false"
    block       = ("#all" | list of ("extension" | "restriction" | "substitution"))
    form        = ("qualified" | "unqualified")
    minOccurs   = ("0" | "1") : "1"
    maxOccurs   = ("0" | "1") : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType | xs:complexType)?, (xs:unique | xs:key | xs:keyref)*
</...>
```

All Direct / Indirect Based Elements (1):

xs:element (type xs:narrowMaxMin) [71]

Known Usage Locations

- **As direct type of elements (1):**

  xs:element (type xs:narrowMaxMin) [71]

Annotation

restricted max/min

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:element [183] (restriction)
              └xs:localElement [210] (restriction)
                  └xs:narrowMaxMin
```

XML Source

```
<xs:complexType name="narrowMaxMin">
  <xs:annotation>
    <xs:documentation>restricted max/min</xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:restriction base="xs:localElement">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:choice minOccurs="0">
          <xs:element name="simpleType" type="xs:localSimpleType"/>
          <xs:element name="complexType" type="xs:localComplexType"/>
        </xs:choice>
        <xs:group maxOccurs="unbounded" minOccurs="0" ref="xs:identityConstraint"/>
      </xs:sequence>
      <xs:attribute default="1" name="minOccurs" use="optional">
        <xs:simpleType>
          <xs:restriction base="xs:nonNegativeInteger">
            <xs:enumeration value="0"/>
            <xs:enumeration value="1"/>
          </xs:restriction>
```

```
        </xs:simpleType>
      </xs:attribute>
      <xs:attribute default="1" name="maxOccurs" use="optional">
        <xs:simpleType>
          <xs:restriction base="xs:allNNI">
            <xs:enumeration value="0"/>
            <xs:enumeration value="1"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 12/12)

block

Type: xs:blockSet [276]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

`"#all" | list of ("extension" | "restriction" | "substitution")`

---

default

Type: xs:string [333]
Use: optional
Defined: locally within *xs:element* complexType

---

fixed

Type: xs:string [333]
Use: optional
Defined: locally within *xs:element* complexType

---

form

Type: xs:formChoice [293]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

`enumeration of xs:NMTOKEN`

Enumeration: "qualified", "unqualified"

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

maxOccurs

Type: anonymous simpleType (restriction of xs:allNNI) [227]
Use: optional
Defined: locally within (this) xs:narrowMaxMin complexType

Attribute Value

`enumeration of (xs:nonNegativeInteger | "unbounded")`

Enumeration: "0", "1"

Default: "1"

Anonymous simpleType

Type Derivation Tree

union of (xs:nonNegativeInteger | restriction of xs:NMTOKEN)
  └ xs:allNNI [272] (restriction)
    └ **simpleType**

---

minOccurs

Type: anonymous simpleType (restriction of xs:nonNegativeInteger) [227]
Use: optional
Defined: locally within (this) xs:narrowMaxMin complexType

Attribute Value

enumeration of xs:nonNegativeInteger

Enumeration: "0", "1"
Default: "1"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
  └ xs:decimal [282] (restriction)
    └ xs:integer [306] (restriction)
      └ xs:nonNegativeInteger [319] (restriction)
        └ **simpleType**

---

name

Type: xs:NCName [313]
Use: optional
Defined: locally within xs:defRef attributeGroup

---

nillable

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

Default: "false"

---

ref

Type: xs:QName [327]
Use: optional
Defined: locally within xs:defRef attributeGroup

---

type

Type: xs:QName [327]
Use: optional
Defined: locally within *xs:element* complexType

{any attribute from non-schema namespace}

Defined: within (this) xs:narrowMaxMin complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:narrowMaxMin complexType

xs:complexType [58]

Type: xs:localComplexType [206], complex content
Defined: locally within (this) xs:narrowMaxMin complexType

xs:key [95]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

xs:keyref [97]

Type: anonymous complexType (extension of xs:keybase) [98], complex content
Defined: by reference within xs:identityConstraint group

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within (this) xs:narrowMaxMin complexType

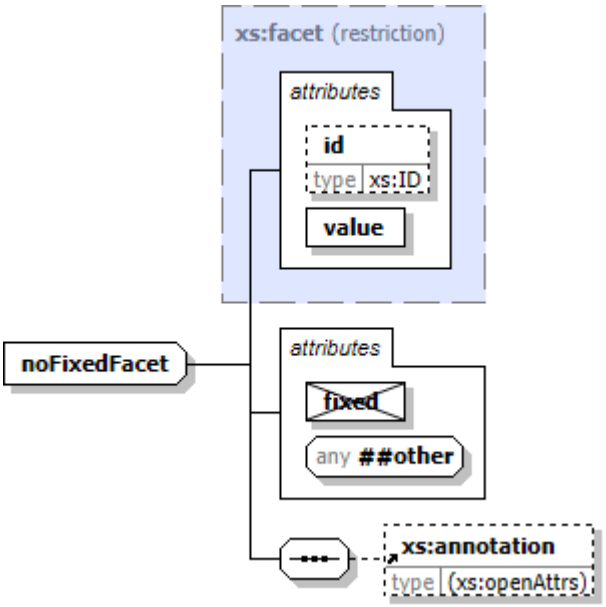
xs:unique [154]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

complexType "xs:noFixedFacet"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 2 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [230]
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id    = xs:ID
    value = xs:anySimpleType
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</...>
```

All Direct / Indirect Based Elements (2):

xs:enumeration [75], xs:pattern [119]

Known Usage Locations

- **As direct type of elements (1):**

  xs:enumeration [75]

- **In derivations of anonymous types of elements (1):**

  xs:pattern [119] (as restriction base)

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:facet [195] (restriction)
              └ xs:noFixedFacet
```

XML Source

```
<xs:complexType name="noFixedFacet">
  <xs:complexContent>
    <xs:restriction base="xs:facet">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
      </xs:sequence>
      <xs:attribute name="fixed" use="prohibited"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

~~fixed~~

Use: prohibited

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

value

Type: xs:anySimpleType
Use: required
Defined: locally within xs:facet complexType

{any attribute from non-schema namespace}

Defined: within (this) xs:noFixedFacet complexType

Content Element Detail (all declarations; 1/1)

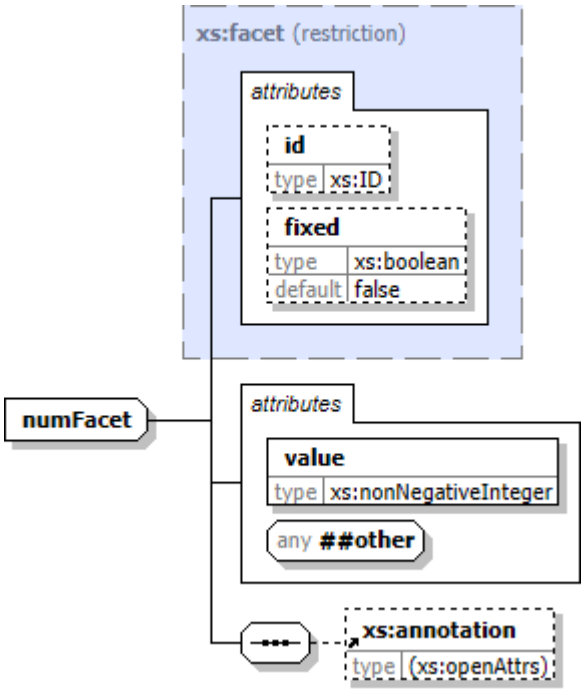
xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:noFixedFacet complexType

complexType "xs:numFacet"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [232]
Used: at 5 locations

Component Diagram



XML Representation Summary

```
<...
    id    = xs:ID
    fixed = xs:boolean : "false"
    value = xs:nonNegativeInteger
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</...>
```

All Direct / Indirect Based Elements (5):

xs:fractionDigits [85], xs:length [100], xs:maxLength [108], xs:minLength [114], xs:totalDigits [149]

Known Usage Locations

- **As direct type of elements (4):**

  xs:fractionDigits [85], xs:length [100], xs:maxLength [108], xs:minLength [114]

- **In derivations of anonymous types of elements (1):**

  xs:totalDigits [149] (as restriction base)

Type Definition Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ xs:facet [195] (restriction)
        └ **xs:numFacet**

XML Source

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

Attribute Detail (all declarations; 4/4)

- fixed

  Type: xs:boolean [278]
  Use: optional
  Defined: locally within xs:facet complexType

  Attribute Value

  Default: "false"

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- value

  Type: xs:nonNegativeInteger [319]
  Use: required
  Defined: locally within (this) xs:numFacet complexType

- *{any attribute from non-schema namespace}*

  Defined: within (this) xs:numFacet complexType

Content Element Detail (all declarations; 1/1)

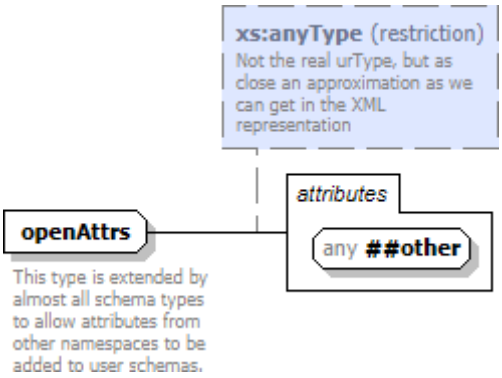
- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within (this) xs:numFacet complexType

complexType "xs:openAttrs"

Namespace: http://www.w3.org/2001/XMLSchema
Content: empty, attr. wildcard
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [234]
Used: at 4 locations

Component Diagram



XML Representation Summary

```
<...
    {any attribute from non-schema namespace}
/>
```

Known Direct Subtypes (1):

xs:annotated [162]

Known Indirect Subtypes (32):

xs:all [159], xs:attribute [167], *xs:attributeGroup* [171], xs:attributeGroupRef [174], xs:complexRestrictionType [176], *xs:complexType* [179], *xs:element* [183], xs:explicitGroup [188], xs:extensionType [192], xs:facet [195], *xs:group* [197], xs:groupRef [201], xs:keybase [204], xs:localComplexType [206], xs:localElement [210], xs:localSimpleType [215], xs:namedAttributeGroup [218], xs:namedGroup [221], xs:narrowMaxMin [224], xs:noFixedFacet [229], xs:numFacet [231], xs:realGroup [235], xs:restrictionType [238], xs:simpleExplicitGroup [242], xs:simpleExtensionType [245], xs:simpleRestrictionType [248], *xs:simpleType* [252], xs:topLevelAttribute [255], xs:topLevelComplexType [258], xs:topLevelElement [262], xs:topLevelSimpleType [266], xs:wildcard [269]

All Direct / Indirect Based Elements (53):

xs:all [22],
xs:all (in xs:group) [25],
xs:annotation [27],
xs:any [30],
xs:anyAttribute [33],
xs:attribute [37],
xs:attribute (type xs:attribute) [39],
xs:attributeGroup [42],
xs:attributeGroup (type xs:attributeGroupRef) [44],
xs:choice [46],
xs:choice (in xs:group) [49],
xs:complexContent [51],
xs:complexType [54],
xs:complexType (type xs:localComplexType) [58],
xs:element [63],
xs:element (type xs:localElement) [67],
xs:element (type xs:narrowMaxMin) [71],
xs:enumeration [75],
xs:keyref [97],
xs:length [100],
xs:list [102],
xs:maxExclusive [104],
xs:maxInclusive [106],
xs:maxLength [108],
xs:minExclusive [110],
xs:minInclusive [112],
xs:minLength [114],
xs:notation [116],
xs:pattern [119],
xs:redefine [121],
xs:restriction [124],
xs:restriction (in xs:complexContent) [128],
xs:restriction (in xs:simpleContent) [131],
xs:schema [17],
xs:selector [135],
xs:sequence [138],

xs:extension (in xs:complexContent) [77],
xs:extension (in xs:simpleContent) [80],
xs:field [82],
xs:fractionDigits [85],
xs:group [87],
xs:group (type xs:groupRef) [89],
xs:import [91],
xs:include [93],
xs:key [95],
xs:sequence (in xs:group) [141],
xs:simpleContent [143],
xs:simpleType [145],
xs:simpleType (type xs:localSimpleType) [147],
xs:totalDigits [149],
xs:union [151],
xs:unique [154],
xs:whiteSpace [156]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:annotated [162] (as extension base)

- **In derivations of anonymous types of elements (3):**

  xs:annotation [27] (as extension base), xs:schema [17] (as extension base)
  xs:redefine [121] (as extension base),

Annotation

This type is extended by almost all schema types to allow attributes from other namespaces to be added to user schemas.

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs
```

XML Source

```
<xs:complexType name="openAttrs">
  <xs:annotation>
    <xs:documentation>
      This type is extended by almost all schema types
      to allow attributes from other namespaces to be
      added to user schemas.
    </xs:documentation>
  </xs:annotation>
  <xs:complexContent>
    <xs:restriction base="xs:anyType">
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 1/1)

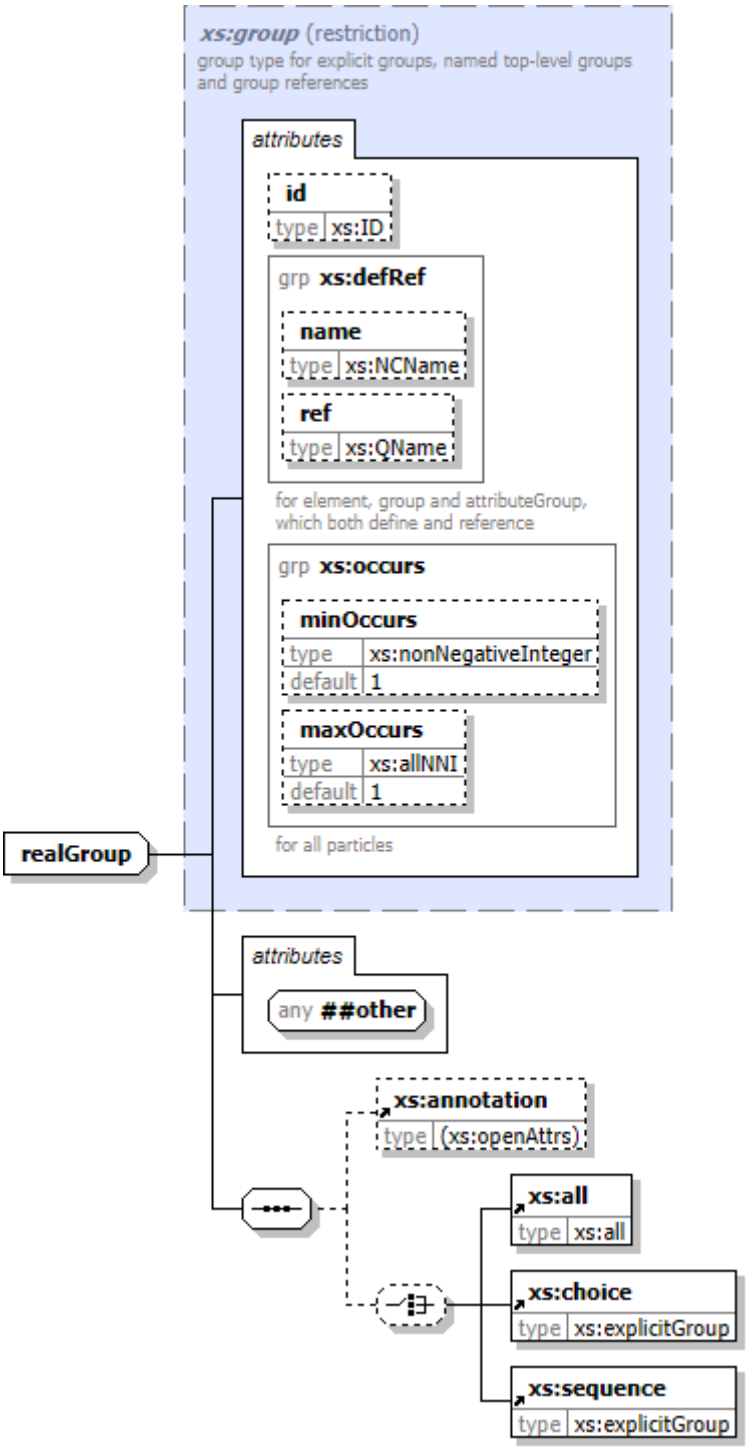
{any attribute from non-schema namespace}

Defined: within (this) xs:openAttrs complexType

complexType "xs:realGroup"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 5 attributes, attr. wildcard, 4 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [236]
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id          = xs:ID
    name        = xs:NCName
    ref         = xs:QName
    minOccurs   = xs:nonNegativeInteger : "1"
    maxOccurs   = (xs:nonNegativeInteger | "unbounded") : "1"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:all | xs:choice | xs:sequence)?
</...>
```

Known Direct Subtypes (2):

xs:groupRef [201], xs:namedGroup [221]

All Direct / Indirect Based Elements (2):

xs:group [87], xs:group (type xs:groupRef) [89]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:groupRef[201] (as restriction base), xs:namedGroup[221] (as restriction base)

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:group [197] (restriction)
              └xs:realGroup
```

XML Source

```
<xs:complexType name="realGroup">
  <xs:complexContent>
    <xs:restriction base="xs:group">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:choice maxOccurs="1" minOccurs="0">
          <xs:element ref="xs:all"/>
          <xs:element ref="xs:choice"/>
          <xs:element ref="xs:sequence"/>
        </xs:choice>
      </xs:sequence>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 6/6)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

maxOccurs

Type: xs:allNNI [272]

Use: optional
Defined: locally within `xs:occurs` attributeGroup

Attribute Value

```
xs:nonNegativeInteger | "unbounded"
```

Default: `"1"`

`minOccurs`

Type: `xs:nonNegativeInteger [319]`
Use: optional
Defined: locally within `xs:occurs` attributeGroup

Attribute Value

Default: `"1"`

`name`

Type: `xs:NCName [313]`
Use: optional
Defined: locally within `xs:defRef` attributeGroup

`ref`

Type: `xs:QName [327]`
Use: optional
Defined: locally within `xs:defRef` attributeGroup

{any attribute from non-schema namespace}

Defined: within (this) `xs:realGroup` complexType

Content Element Detail (all declarations; 4/4)

`xs:all [22]`

Type: `xs:all [159]`, complex content
Defined: by reference within (this) `xs:realGroup` complexType

`xs:annotation [27]`

Type: anonymous complexType (extension of `xs:openAttrs`) `[28]`, complex content
Defined: by reference within (this) `xs:realGroup` complexType

`xs:choice [46]`

Type: `xs:explicitGroup [188]`, complex content
Defined: by reference within (this) `xs:realGroup` complexType

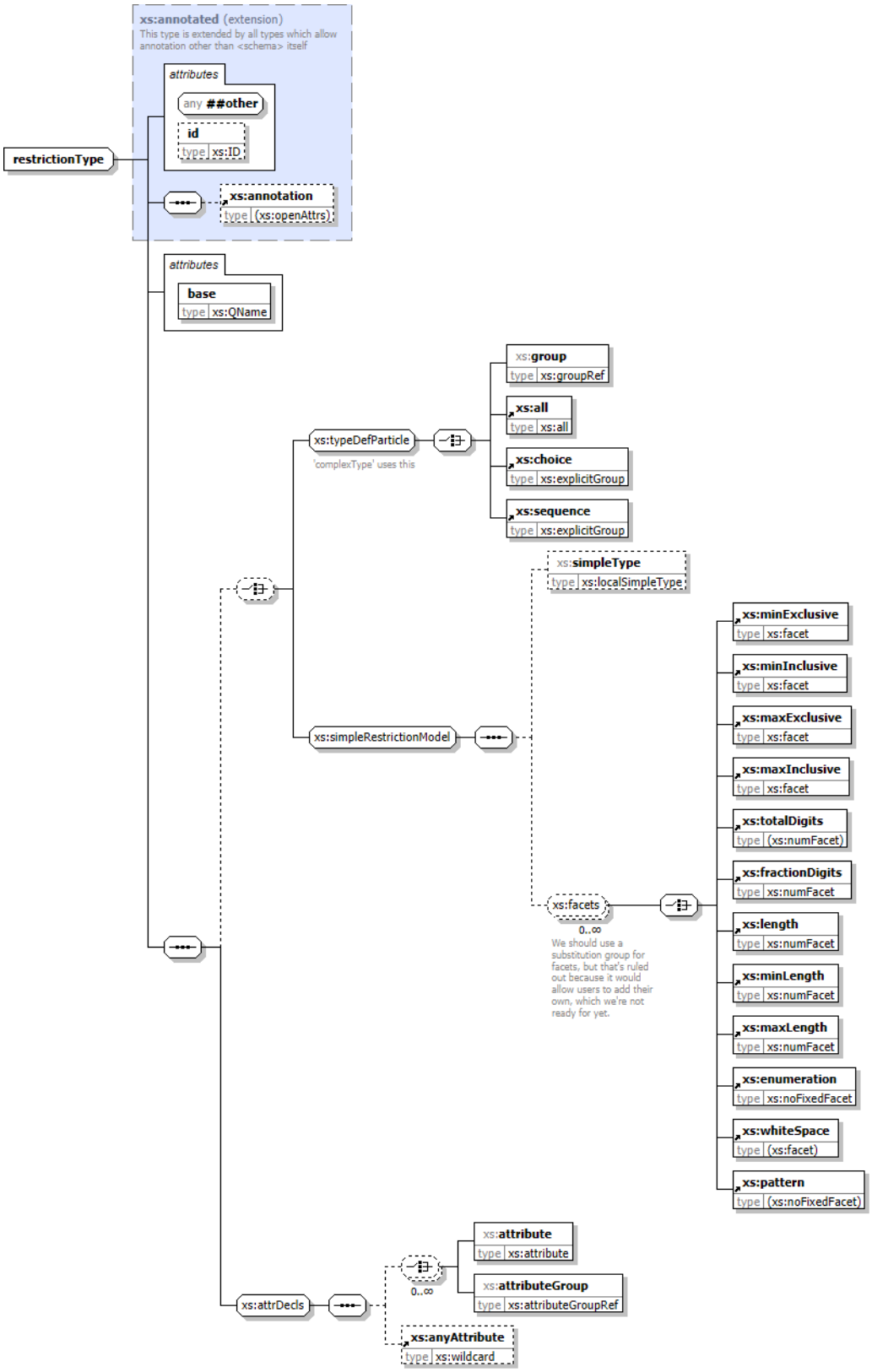
`xs:sequence [138]`

Type: `xs:explicitGroup [188]`, complex content
Defined: by reference within (this) `xs:realGroup` complexType

complexType "xs:restrictionType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 2 attributes, attr. wildcard, 21 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[239]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id   = xs:ID
    base = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:group | xs:all | xs:choice | xs:sequence | (xs:simpleType?,
             (xs:minExclusive | xs:minInclusive | xs:maxExclusive | xs:maxInclusive | xs:totalDigits |
             xs:fractionDigits | xs:length | xs:minLength | xs:maxLength | xs:enumeration | xs:whiteSpace
             | xs:pattern)*))?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?
</...>
```

Known Direct Subtypes (2):

xs:complexRestrictionType [176], xs:simpleRestrictionType [248]

All Direct / Indirect Based Elements (2):

xs:restriction (in xs:complexContent) [128], xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:complexRestrictionType [176] (as restriction base),
  xs:simpleRestrictionType [248] (as restriction base)

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:restrictionType
```

XML Source

```
<xs:complexType name="restrictionType">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:sequence>
        <xs:choice minOccurs="0">
          <xs:group ref="xs:typeDefParticle"/>
          <xs:group ref="xs:simpleRestrictionModel"/>
        </xs:choice>
        <xs:group ref="xs:attrDecls"/>
      </xs:sequence>
      <xs:attribute name="base" type="xs:QName" use="required"/>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within (this) xs:restrictionType complexType

id

Type: xs:ID [302]
Use: optional

Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 21/21)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

xs:enumeration [75]

Type: xs:noFixedFacet [229], complex content
Defined: by reference within xs:facets group

xs:fractionDigits [85]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

xs:length [100]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:maxExclusive [104]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxInclusive [106]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxLength [108]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:minExclusive [110]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:minInclusive [112]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:minLength [114]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:pattern [119]

Type: anonymous complexType (restriction of xs:noFixedFacet) [120], complex content
Defined: by reference within xs:facets group

xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within xs:simpleRestrictionModel group

xs:totalDigits [149]

Type: anonymous complexType (restriction of xs:numFacet) [150], complex content
Defined: by reference within xs:facets group

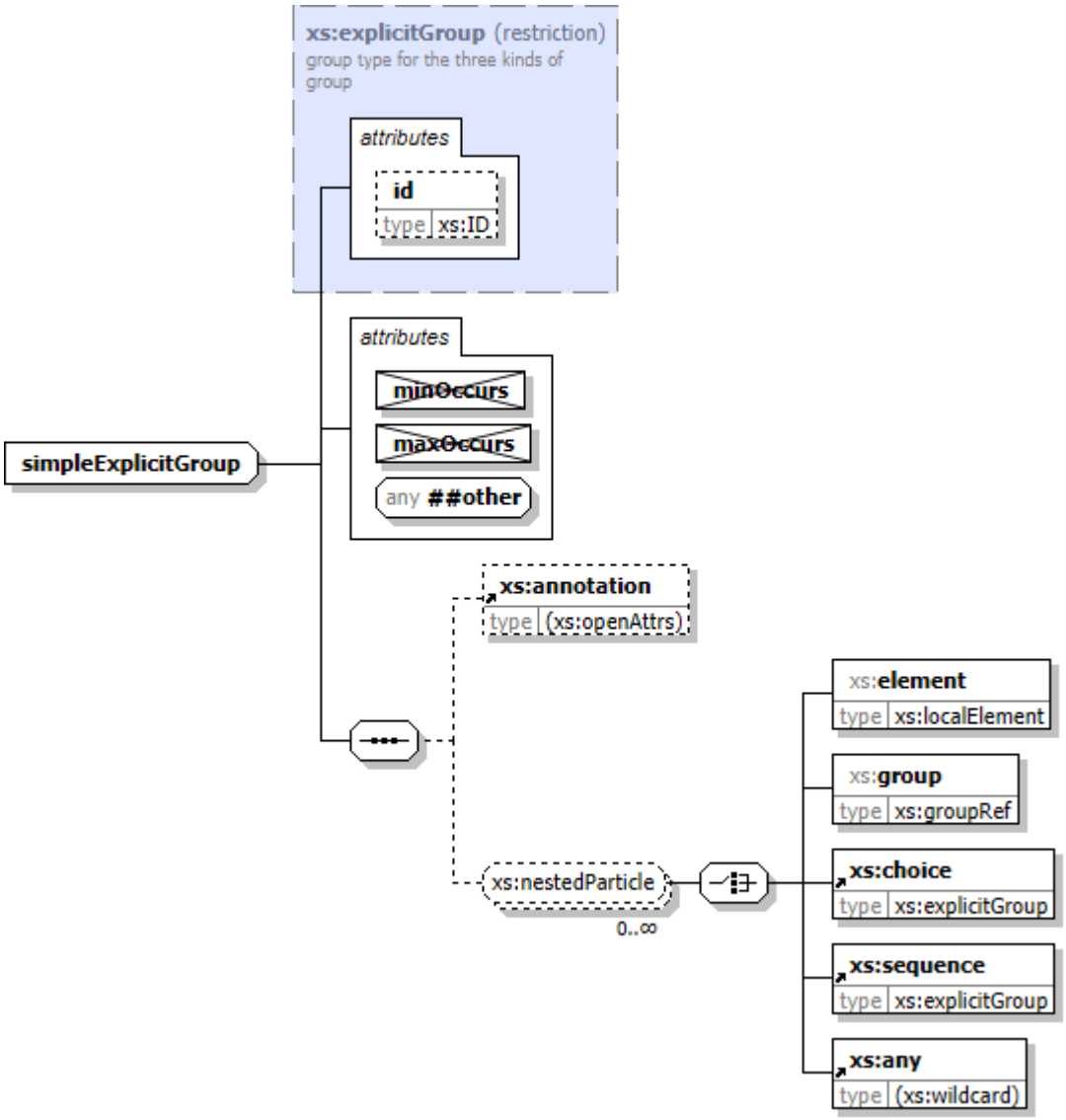
xs:whiteSpace [156]

Type: anonymous complexType (restriction of xs:facet) [157], complex content
Defined: by reference within xs:facets group

complexType "xs:simpleExplicitGroup"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 1 attribute, attr. wildcard, 6 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[243]`
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id = xs:ID
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:element | xs:group | xs:choice | xs:sequence | xs:any)*
</...>
```

All Direct / Indirect Based Elements (2):

xs:choice (in xs:group) [49], xs:sequence (in xs:group) [141]

Known Usage Locations

- **As direct type of elements (2):**

xs:choice (in xs:group) [49], xs:sequence (in xs:group) [141]

Type Definition Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ *xs:group* [197] (restriction)
        └ xs:explicitGroup [188] (restriction)
          └ **xs:simpleExplicitGroup**

XML Source

```
<xs:complexType name="simpleExplicitGroup">
  <xs:complexContent>
    <xs:restriction base="xs:explicitGroup">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:group maxOccurs="unbounded" minOccurs="0" ref="xs:nestedParticle"/>
      </xs:sequence>
      <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 Detail (all declarations; 4/4)

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

~~maxOccurs~~

Use: prohibited

~~minOccurs~~

Use: prohibited

{any attribute from non-schema namespace}

Defined: within (this) xs:simpleExplicitGroup complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:simpleExplicitGroup complexType

---

xs:any [30]

Type: anonymous complexType (extension of xs:wildcard) [31], complex content
Defined: by reference within xs:nestedParticle group

---

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:nestedParticle group

xs:element [67]

Type: xs:localElement [210], complex content
Defined: locally within xs:nestedParticle group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:nestedParticle group

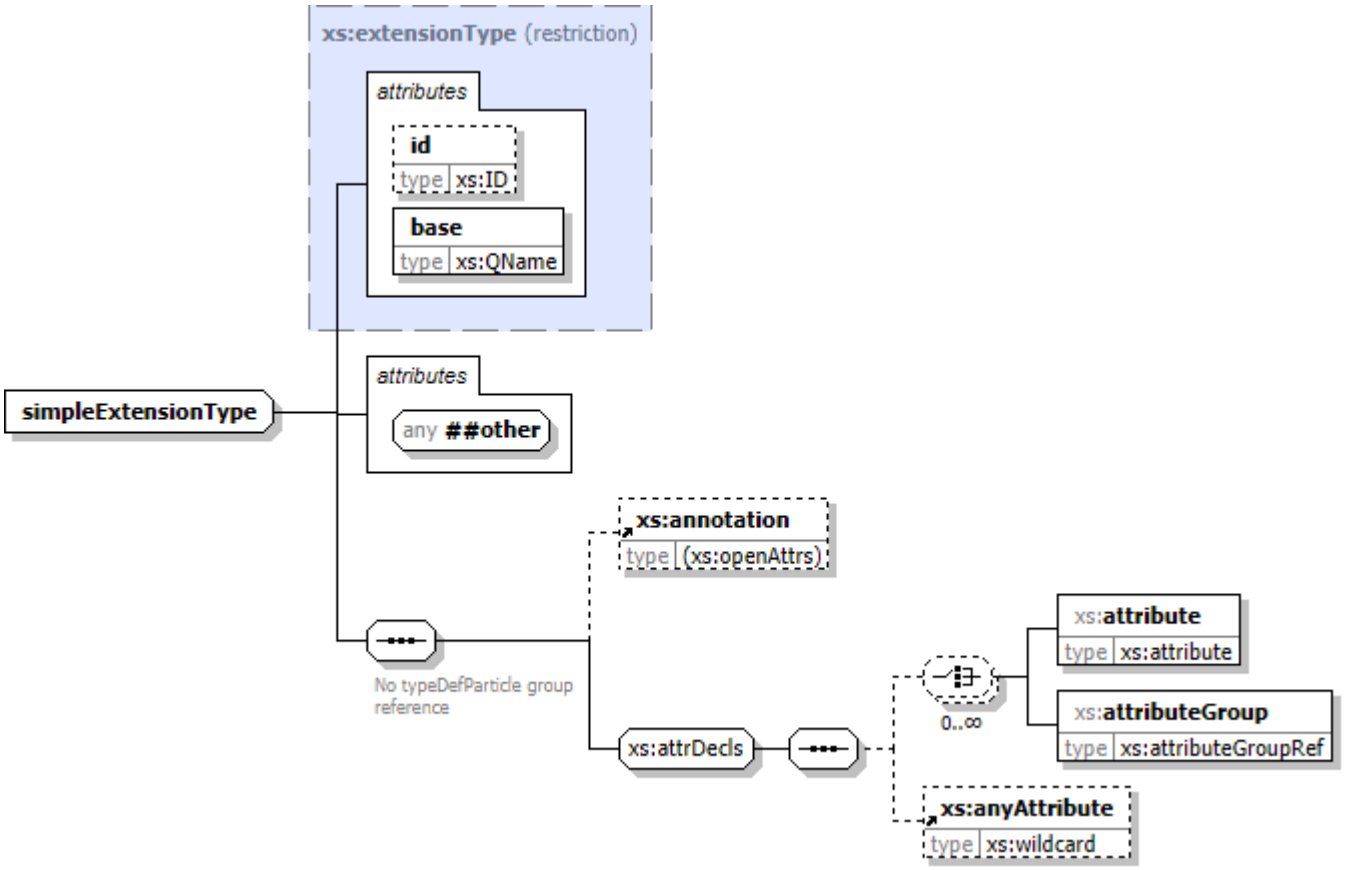
xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:nestedParticle group

complexType "xs:simpleExtensionType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 2 attributes, attr. wildcard, 4 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[246]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id    = xs:ID
    base  = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?
</...>
```

All Direct / Indirect Based Elements (1):

xs:extension (in xs:simpleContent) `[80]`

Known Usage Locations

- **As direct type of elements (1):**

  xs:extension (in xs:simpleContent) `[80]`

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:extensionType [192] (restriction)
              └ xs:simpleExtensionType
```

XML Source

```
<xs:complexType name="simpleExtensionType">
  <xs:complexContent>
    <xs:restriction base="xs:extensionType">
      <xs:sequence>
        <xs:annotation>
          <xs:documentation>
            No typeDefParticle group reference
          </xs:documentation>
        </xs:annotation>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:group ref="xs:attrDecls"/>
      </xs:sequence>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 3/3)

- `base`

  Type: xs:QName [327]
  Use: required
  Defined: locally within xs:extensionType complexType

- `id`

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- *{any attribute from non-schema namespace}*

  Defined: within (this) xs:simpleExtensionType complexType

Content Element Detail (all declarations; 4/4)

- xs:annotation [27]

  Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
  Defined: by reference within (this) xs:simpleExtensionType complexType

- xs:anyAttribute [33]

  Type: xs:wildcard [269], complex content
  Defined: by reference within xs:attrDecls group

- xs:attribute [39]

  Type: xs:attribute [167], complex content
  Defined: locally within xs:attrDecls group

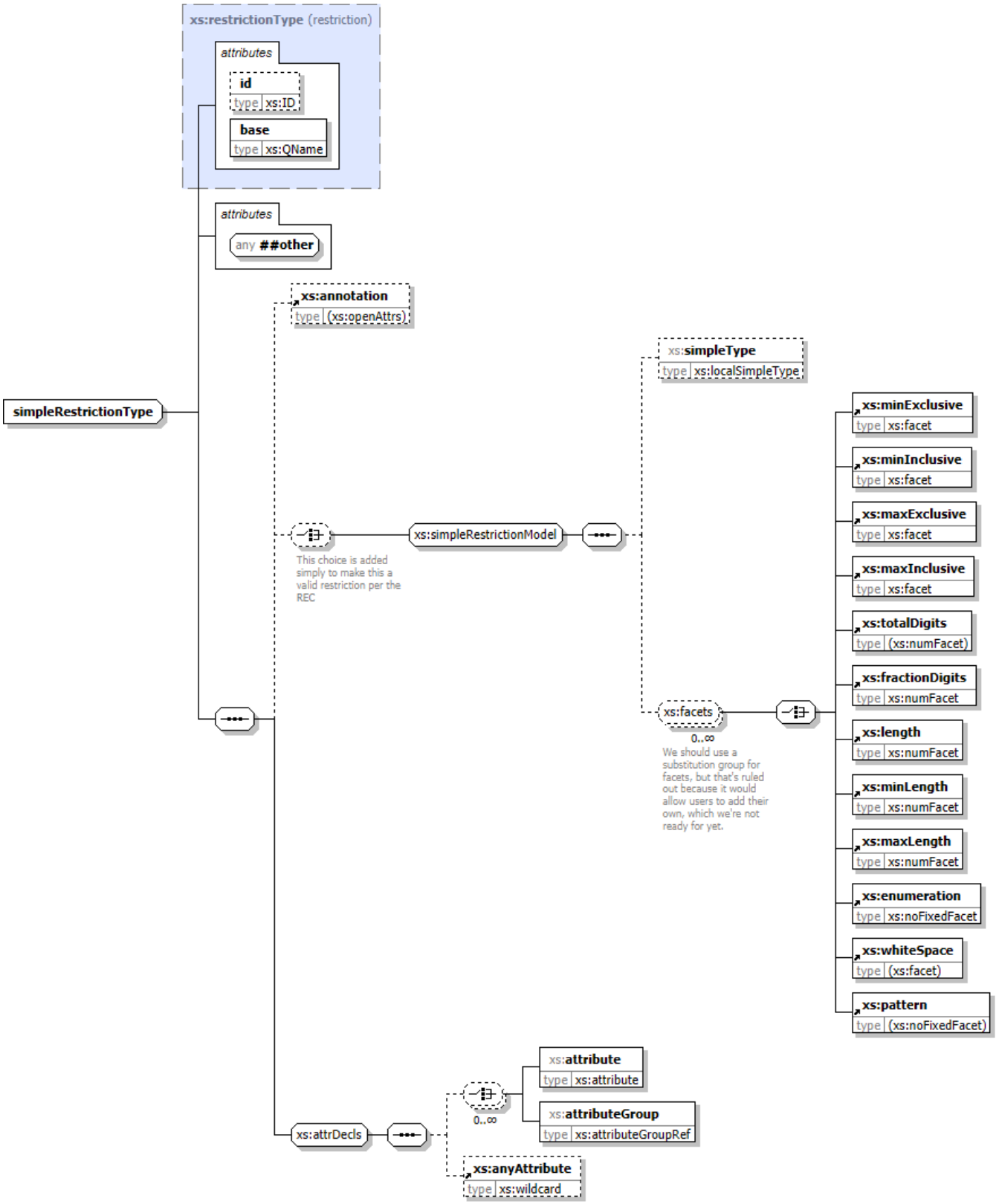
xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

complexType "xs:simpleRestrictionType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 2 attributes, attr. wildcard, 17 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[249]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id   = xs:ID
    base = xs:QName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType?, (xs:minExclusive | xs:minInclusive | xs:maxExclusive |
             xs:maxInclusive | xs:totalDigits | xs:fractionDigits | xs:length | xs:minLength | xs:maxLength |
             xs:enumeration | xs:whiteSpace | xs:pattern)*)?, (xs:attribute | xs:attributeGroup)*,
             xs:anyAttribute?
</...>
```

All Direct / Indirect Based Elements (1):

xs:restriction (in xs:simpleContent) [131]

Known Usage Locations

- **As direct type of elements (1):**

  xs:restriction (in xs:simpleContent) [131]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:restrictionType [238] (restriction)
              └xs:simpleRestrictionType
```

XML Source

```
<xs:complexType name="simpleRestrictionType">
  <xs:complexContent>
    <xs:restriction base="xs:restrictionType">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <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>
```

Attribute Detail (all declarations; 3/3)

base

Type: xs:QName [327]
Use: required
Defined: locally within xs:restrictionType complexType

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

{any attribute from non-schema namespace}

Defined: within (this) xs:simpleRestrictionType complexType

Content Element Detail (all declarations; 17/17)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:simpleRestrictionType complexType

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:enumeration [75]

Type: xs:noFixedFacet [229], complex content
Defined: by reference within xs:facets group

xs:fractionDigits [85]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:length [100]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

xs:maxExclusive [104]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxInclusive [106]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

xs:maxLength [108]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

`xs:minExclusive` [110]

Type: `xs:facet` [195], complex content
Defined: by reference within `xs:facets` group

`xs:minInclusive` [112]

Type: `xs:facet` [195], complex content
Defined: by reference within `xs:facets` group

`xs:minLength` [114]

Type: `xs:numFacet` [231], complex content
Defined: by reference within `xs:facets` group

`xs:pattern` [119]

Type: anonymous complexType (restriction of `xs:noFixedFacet`) [120], complex content
Defined: by reference within `xs:facets` group

`xs:simpleType` [147]

Type: `xs:localSimpleType` [215], complex content
Defined: locally within `xs:simpleRestrictionModel` group

`xs:totalDigits` [149]

Type: anonymous complexType (restriction of `xs:numFacet`) [150], complex content
Defined: by reference within `xs:facets` group

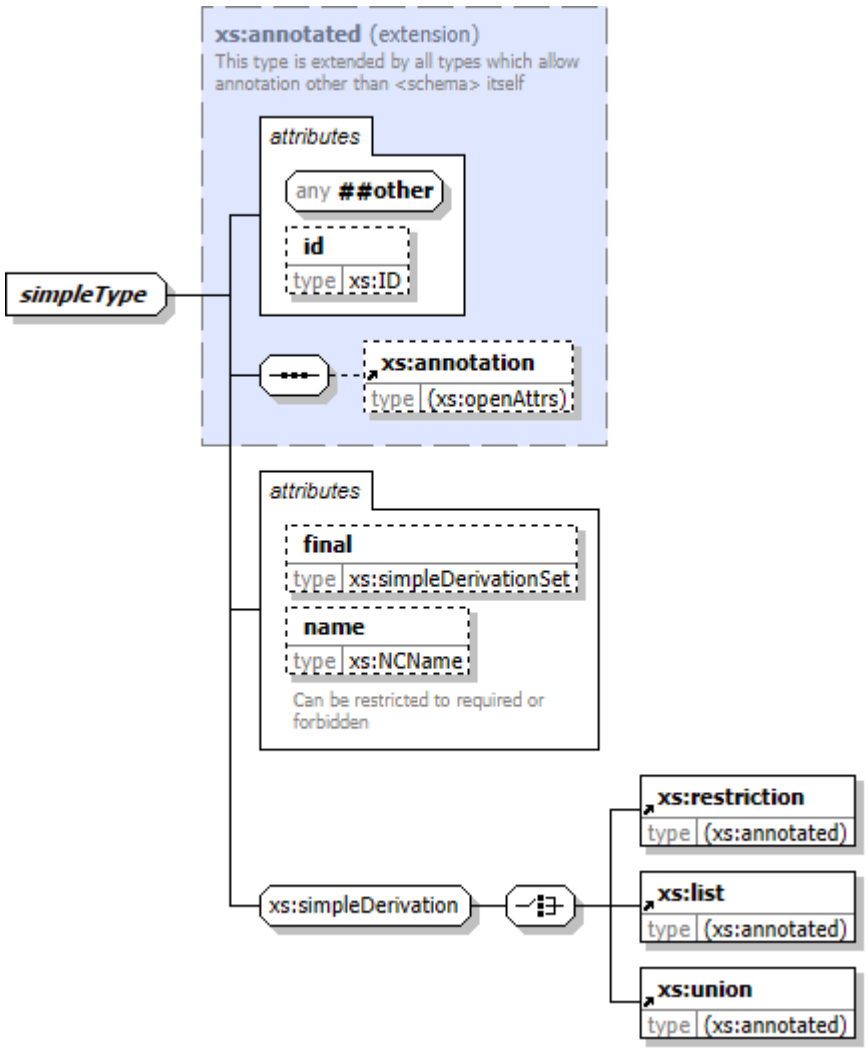
`xs:whiteSpace` [156]

Type: anonymous complexType (restriction of `xs:facet`) [157], complex content
Defined: by reference within `xs:facets` group

complexType "xs:simpleType"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 3 attributes, attr. wildcard, 4 elements
Abstract: *(cannot be assigned directly to elements used in instance XML documents)*
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [253]
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id     = xs:ID
    final  = ("#all" | list of ("list" | "union" | "restriction"))
    name   = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:restriction | xs:list | xs:union)
</...>
```

Known Direct Subtypes (2):

xs:localSimpleType [215], xs:topLevelSimpleType [266]

All Direct / Indirect Based Elements (2):

xs:simpleType [145], xs:simpleType (type xs:localSimpleType) [147]

Known Usage Locations

- **In derivations of other global types (2):**

  xs:localSimpleType [215] (as restriction base), xs:topLevelSimpleType [266] (as restriction base)

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:simpleType
```

XML Source

```
<xs:complexType abstract="true" name="simpleType">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:group ref="xs:simpleDerivation"/>
      <xs:attribute name="final" type="xs:simpleDerivationSet"/>
      <xs:attribute name="name" type="xs:NCName">
        <xs:annotation>
          <xs:documentation>
            Can be restricted to required or forbidden
          </xs:documentation>
        </xs:annotation>
      </xs:attribute>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

final

Type: xs:simpleDerivationSet [331]
Use: optional
Defined: locally within (this) *xs:simpleType* complexType

Attribute Value

```
"#all" | list of ("list" | "union" | "restriction")
```

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: optional
Defined: locally within (this) *xs:simpleType* complexType

Can be restricted to required or forbidden

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 4/4)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

xs:list [102]

Type: anonymous complexType (extension of xs:annotated) [103], complex content
Defined: by reference within xs:simpleDerivation group

xs:restriction [124]

Type: anonymous complexType (extension of xs:annotated) [125], complex content
Defined: by reference within xs:simpleDerivation group

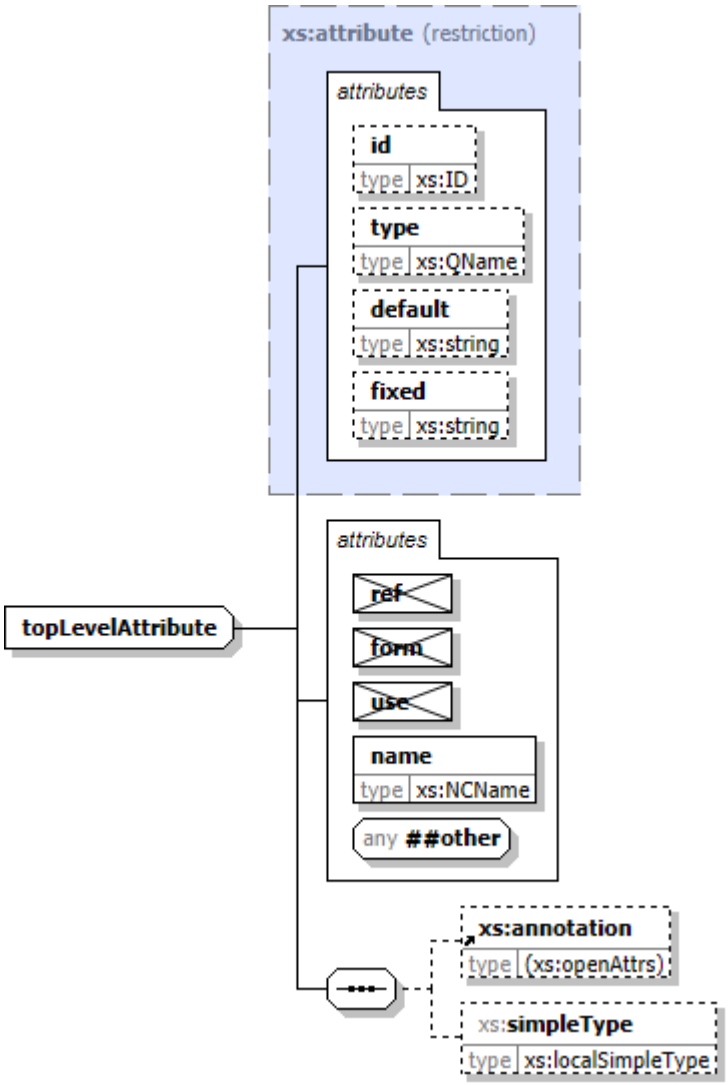
xs:union [151]

Type: anonymous complexType (extension of xs:annotated) [152], complex content
Defined: by reference within xs:simpleDerivation group

complexType "xs:topLevelAttribute"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 5 attributes, attr. wildcard, 2 elements
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [256]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id         = xs:ID
    type       = xs:QName
    default    = xs:string
    fixed      = xs:string
    name       = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, xs:simpleType?
</...>
```

All Direct / Indirect Based Elements (1):

xs:attribute [37]

Known Usage Locations

- **As direct type of elements (1):**

  xs:attribute [37]

Type Definition Detail

Type Derivation Tree

xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
    └ xs:annotated [162] (extension)
      └ xs:attribute [167] (restriction)
        └ **xs:topLevelAttribute**

XML Source

```
<xs:complexType name="topLevelAttribute">
  <xs:complexContent>
    <xs:restriction base="xs:attribute">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:element minOccurs="0" name="simpleType" type="xs:localSimpleType"/>
      </xs:sequence>
      <xs:attribute name="ref" use="prohibited"/>
      <xs:attribute name="form" use="prohibited"/>
      <xs:attribute name="use" use="prohibited"/>
      <xs:attribute name="name" type="xs:NCName" use="required"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 9/9)

default

Type: xs:string [333]
Use: optional
Defined: locally within xs:attribute complexType

fixed

Type: xs:string [333]
Use: optional
Defined: locally within xs:attribute complexType

~~form~~

Use: prohibited

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

name

Type: xs:NCName [313]
Use: required
Defined: locally within (this) xs:topLevelAttribute complexType

~~ref~~

Use: prohibited

type

Type: xs:QName [327]
Use: optional
Defined: locally within xs:attribute complexType

~~use~~

Use: prohibited

{any attribute from non-schema namespace}

Defined: within (this) xs:topLevelAttribute complexType

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:topLevelAttribute complexType

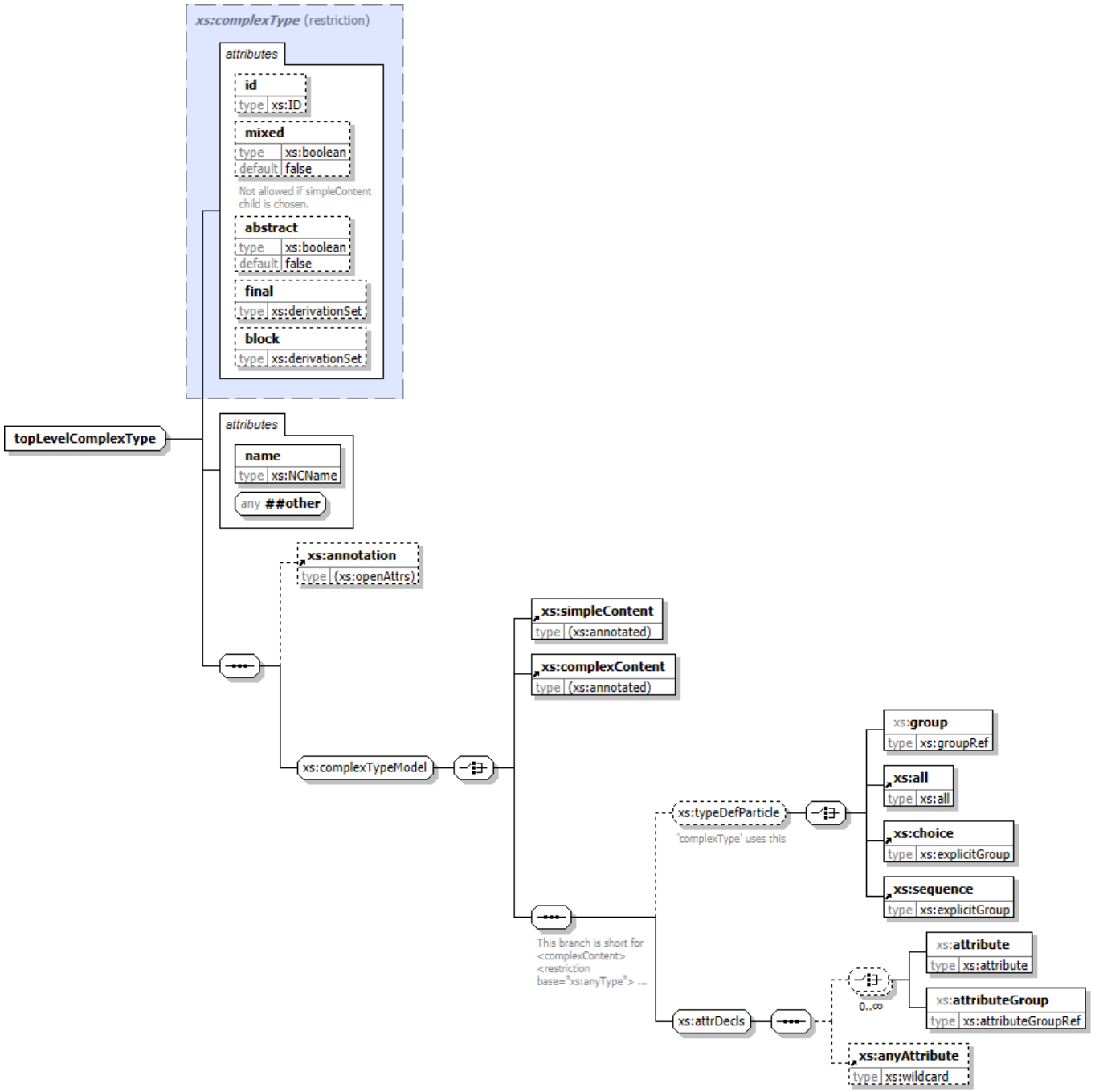
xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within (this) xs:topLevelAttribute complexType

complexType "xs:topLevelComplexType"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 6 attributes, attr. wildcard, 10 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[259]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id        = xs:ID
    mixed     = xs:boolean : "false"
    abstract  = xs:boolean : "false"
    final     = ("#all" | list of ("extension" | "restriction"))
    block     = ("#all" | list of ("extension" | "restriction"))
    name      = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleContent | xs:complexContent | ((xs:group | xs:all | xs:choice |
             xs:sequence)?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?))
</...>
```

All Direct / Indirect Based Elements (1):

xs:complexType [54]

Known Usage Locations

- **As direct type of elements (1):**

  xs:complexType [54]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:complexType [179] (restriction)
              └xs:topLevelComplexType
```

XML Source

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

Attribute Detail (all declarations; 7/7)

abstract

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:complexType* complexType

Attribute Value

Default: "false"

block

Type: xs:derivationSet [286]
Use: optional

Defined: locally within *xs:complexType* complexType

Attribute Value

```
"#all" | list of ("extension" | "restriction")
```

---

final

Type: xs:derivationSet [286]
Use: optional
Defined: locally within *xs:complexType* complexType

Attribute Value

```
"#all" | list of ("extension" | "restriction")
```

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

---

mixed

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:complexType* complexType

Not allowed if simpleContent child is chosen.
May be overriden by setting on complexContent child.

Attribute Value

Default: "false"

---

name

Type: xs:NCName [313]
Use: required
Defined: locally within (this) xs:topLevelComplexType complexType

---

{any attribute from non-schema namespace}

Defined: within (this) xs:topLevelComplexType complexType

Content Element Detail (all declarations; 10/10)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:topLevelComplexType complexType

---

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

---

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

xs:complexContent [51]

Type: anonymous complexType (extension of xs:annotated) [52], complex content
Defined: by reference within xs:complexTypeModel group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

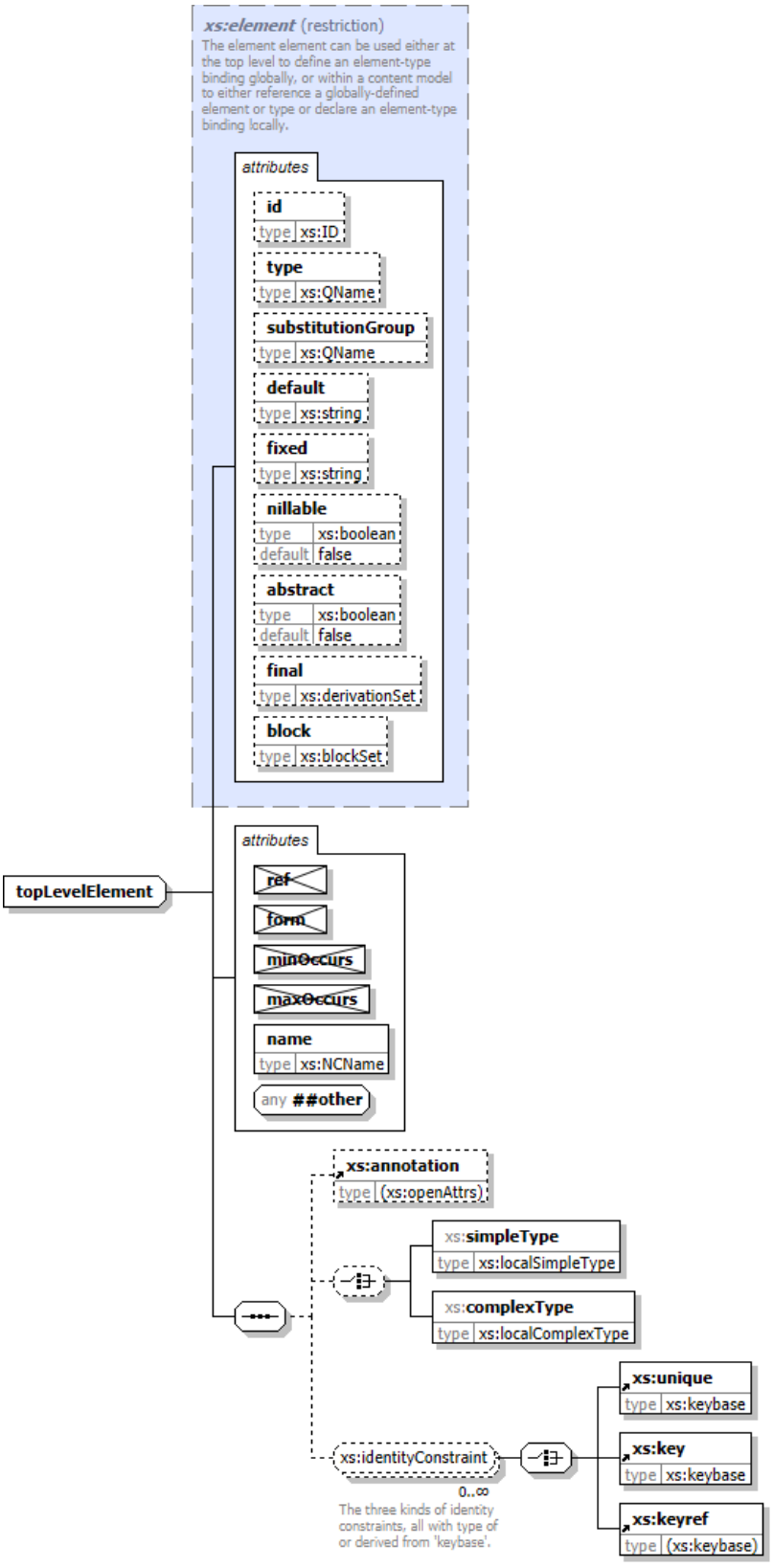
xs:simpleContent [143]

Type: anonymous complexType (extension of xs:annotated) [144], complex content
Defined: by reference within xs:complexTypeModel group

complexType "xs:topLevelElement"

Namespace: `http://www.w3.org/2001/XMLSchema`
Content: complex, 10 attributes, attr. wildcard, 6 elements
Block: `"#all"` *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source `[263]`
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id                = xs:ID
    type              = xs:QName
    substitutionGroup = xs:QName
    default           = xs:string
    fixed             = xs:string
    nillable          = xs:boolean : "false"
    abstract          = xs:boolean : "false"
    final             = ("#all" | list of ("extension" | "restriction"))
    block             = ("#all" | list of ("extension" | "restriction" | "substitution"))
    name              = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:simpleType | xs:complexType)?, (xs:unique | xs:key | xs:keyref)*
</...>
```

All Direct / Indirect Based Elements (1):

xs:element [63]

Known Usage Locations

- **As direct type of elements (1):**

  xs:element [63]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └xs:openAttrs [233] (extension)
      └xs:annotated [162] (extension)
          └xs:element [183] (restriction)
              └xs:topLevelElement
```

XML Source

```
<xs:complexType name="topLevelElement">
  <xs:complexContent>
    <xs:restriction base="xs:element">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:choice minOccurs="0">
          <xs:element name="simpleType" type="xs:localSimpleType"/>
          <xs:element name="complexType" type="xs:localComplexType"/>
        </xs:choice>
        <xs:group maxOccurs="unbounded" minOccurs="0" ref="xs:identityConstraint"/>
      </xs:sequence>
      <xs:attribute name="ref" use="prohibited"/>
      <xs:attribute name="form" use="prohibited"/>
      <xs:attribute name="minOccurs" use="prohibited"/>
      <xs:attribute name="maxOccurs" use="prohibited"/>
      <xs:attribute name="name" type="xs:NCName" use="required"/>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 15/15)

abstract

Type: xs:boolean [278]
Use: optional

Defined: locally within *xs:element* complexType

Attribute Value

Default: "false"

---

block

Type: xs:blockSet [276]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

"#all" | *list of* ("extension" | "restriction" | "substitution")

---

default

Type: xs:string [333]
Use: optional
Defined: locally within *xs:element* complexType

---

final

Type: xs:derivationSet [286]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

"#all" | *list of* ("extension" | "restriction")

---

fixed

Type: xs:string [333]
Use: optional
Defined: locally within *xs:element* complexType

~~form~~

Use: prohibited

---

id

Type: xs:ID [302]
Use: optional
Defined: locally within xs:annotated complexType

~~maxOccurs~~

Use: prohibited

~~minOccurs~~

Use: prohibited

---

name

Type: xs:NCName [313]
Use: required
Defined: locally within (this) xs:topLevelElement complexType

---

nillable

Type: xs:boolean [278]
Use: optional
Defined: locally within *xs:element* complexType

Attribute Value

Default: "false"

~~ref~~

Use: prohibited

---

substitutionGroup

Type: xs:QName [327]
Use: optional
Defined: locally within *xs:element* complexType

---

type

Type: xs:QName [327]
Use: optional
Defined: locally within *xs:element* complexType

{any attribute from non-schema namespace}

Defined: within (this) xs:topLevelElement complexType

Content Element Detail (all declarations; 6/6)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:topLevelElement complexType

---

xs:complexType [58]

Type: xs:localComplexType [206], complex content
Defined: locally within (this) xs:topLevelElement complexType

---

xs:key [95]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

---

xs:keyref [97]

Type: anonymous complexType (extension of xs:keybase) [98], complex content
Defined: by reference within xs:identityConstraint group

---

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within (this) xs:topLevelElement complexType

---

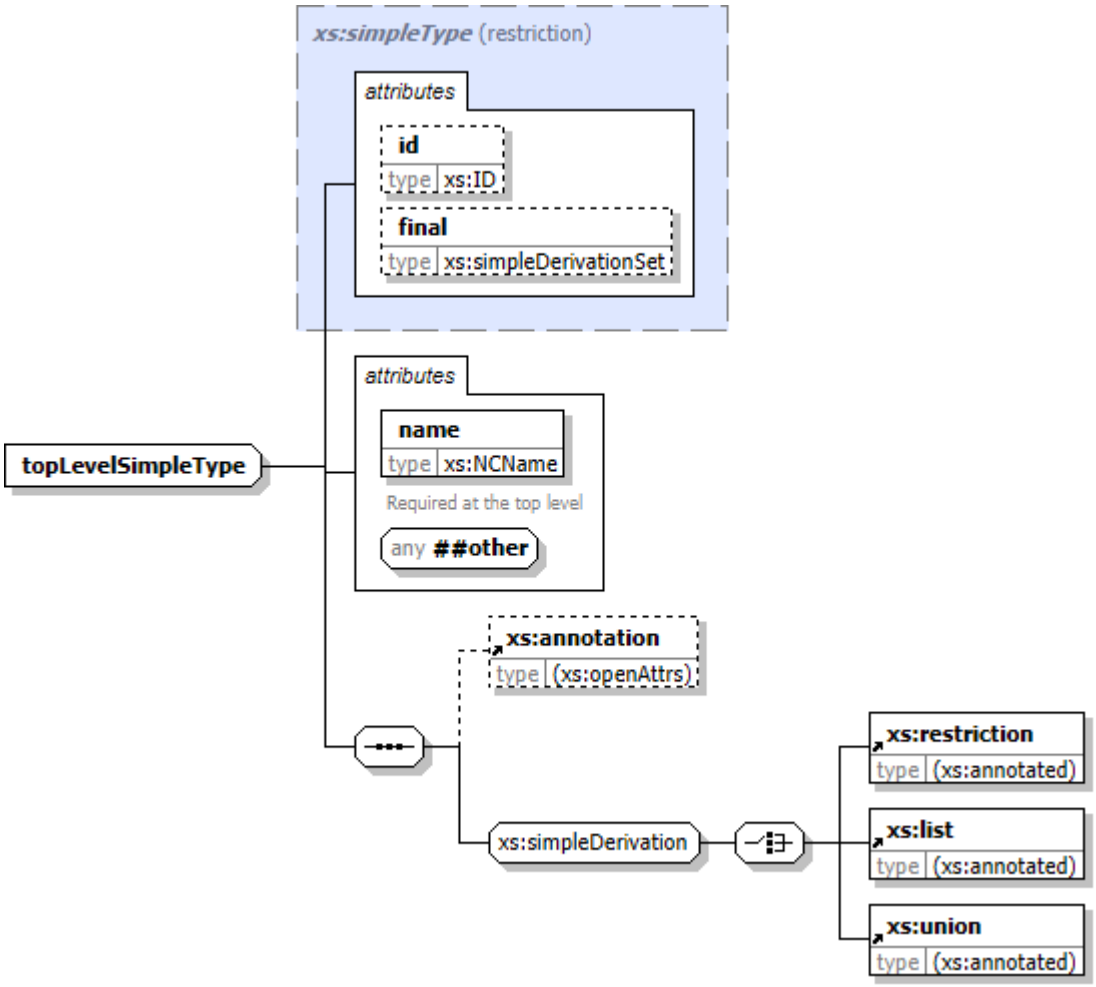
xs:unique [154]

Type: xs:keybase [204], complex content
Defined: by reference within xs:identityConstraint group

complexType "xs:topLevelSimpleType"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 3 attributes, attr. wildcard, 4 elements
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [267]
Used: at 1 location

Component Diagram



XML Representation Summary

```
<...
    id     = xs:ID
    final  = ("#all" | list of ("list" | "union" | "restriction"))
    name   = xs:NCName
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?, (xs:restriction | xs:list | xs:union)
</...>
```

All Direct / Indirect Based Elements (1):

xs:simpleType [145]

Known Usage Locations

- **As direct type of elements (1):**

  xs:simpleType [145]

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:simpleType [252] (restriction)
              └ xs:topLevelSimpleType
```

XML Source

```
<xs:complexType name="topLevelSimpleType">
  <xs:complexContent>
    <xs:restriction base="xs:simpleType">
      <xs:sequence>
        <xs:element minOccurs="0" ref="xs:annotation"/>
        <xs:group ref="xs:simpleDerivation"/>
      </xs:sequence>
      <xs:attribute name="name" type="xs:NCName" use="required">
        <xs:annotation>
          <xs:documentation>
            Required at the top level
          </xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:anyAttribute namespace="##other" processContents="lax"/>
    </xs:restriction>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

- `final`

  Type: xs:simpleDerivationSet [331]
  Use: optional
  Defined: locally within *xs:simpleType* complexType

  Attribute Value

  `"#all" | list of ("list" | "union" | "restriction")`

- `id`

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- `name`

  Type: xs:NCName [313]
  Use: required
  Defined: locally within (this) xs:topLevelSimpleType complexType

  Required at the top level

- *{any attribute from non-schema namespace}*

  Defined: within (this) xs:topLevelSimpleType complexType

Content Element Detail (all declarations; 4/4)

`xs:annotation` [27]

Type: anonymous complexType (extension of `xs:openAttrs`) [28], complex content
Defined: by reference within (this) `xs:topLevelSimpleType` complexType

`xs:list` [102]

Type: anonymous complexType (extension of `xs:annotated`) [103], complex content
Defined: by reference within `xs:simpleDerivation` group

`xs:restriction` [124]

Type: anonymous complexType (extension of `xs:annotated`) [125], complex content
Defined: by reference within `xs:simpleDerivation` group

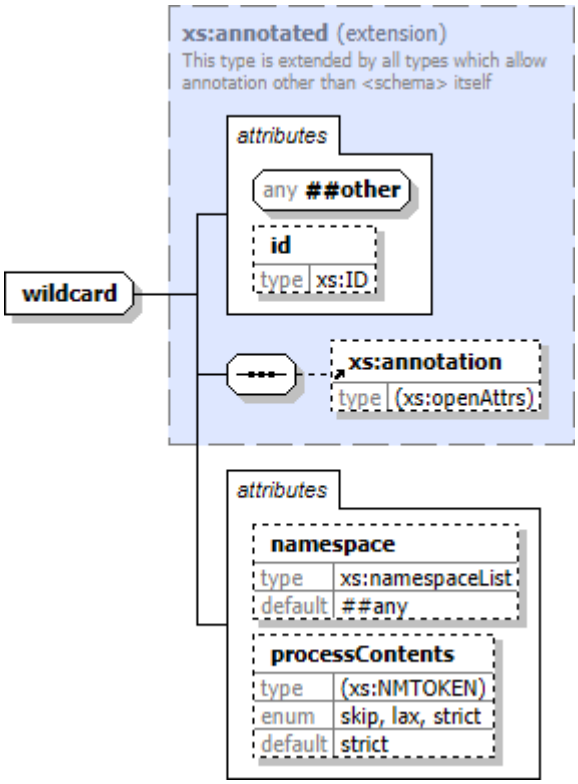
`xs:union` [151]

Type: anonymous complexType (extension of `xs:annotated`) [152], complex content
Defined: by reference within `xs:simpleDerivation` group

complexType "xs:wildcard"

Namespace: http://www.w3.org/2001/XMLSchema
Content: complex, 3 attributes, attr. wildcard, 1 element
Block: "#all" *(blocks all substitutions of this complex type through xsi:type attribute in instance XML documents)*
Defined: globally in XMLSchema.xsd; see XML source [270]
Used: at 2 locations

Component Diagram



XML Representation Summary

```
<...
    id              = xs:ID
    namespace       = ((("##any" | "##other") | list of (xs:anyURI | ("##targetNamespace" | "##local"))) :
                      "##any"
    processContents = ("skip" | "lax" | "strict") : "strict"
    {any attribute from non-schema namespace}
    >
    Content: xs:annotation?
</...>
```

All Direct / Indirect Based Elements (2):

xs:any [30], xs:anyAttribute [33]

Known Usage Locations

- **As direct type of elements (1):**

  xs:anyAttribute [33]

- **In derivations of anonymous types of elements (1):**

  xs:any [30] (as extension base)

Type Definition Detail

Type Derivation Tree

```
xs:anyType [165] (restriction)
  └ xs:openAttrs [233] (extension)
      └ xs:annotated [162] (extension)
          └ xs:wildcard
```

XML Source

```
<xs:complexType name="wildcard">
  <xs:complexContent>
    <xs:extension base="xs:annotated">
      <xs:attribute default="##any" name="namespace" type="xs:namespaceList" use="optional"/>
      <xs:attribute default="strict" name="processContents" use="optional">
        <xs:simpleType>
          <xs:restriction base="xs:NMTOKEN">
            <xs:enumeration value="skip"/>
            <xs:enumeration value="lax"/>
            <xs:enumeration value="strict"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:attribute>
    </xs:extension>
  </xs:complexContent>
</xs:complexType>
```

Attribute Detail (all declarations; 4/4)

- id

  Type: xs:ID [302]
  Use: optional
  Defined: locally within xs:annotated complexType

- namespace

  Type: xs:namespaceList [311]
  Use: optional
  Defined: locally within (this) xs:wildcard complexType

  Attribute Value

  ```
  ("##any" | "##other") | list of (xs:anyURI | ("##targetNamespace" | "##local"))
  ```

  Default: "##any"

- processContents

  Type: anonymous simpleType (restriction of xs:NMTOKEN) [271]
  Use: optional
  Defined: locally within (this) xs:wildcard complexType

  Attribute Value

  ```
  enumeration of xs:NMTOKEN
  ```

  Enumeration: "skip", "lax", "strict"
  Default: "strict"

Anonymous simpleType

Type Derivation Tree

xs:anySimpleType (restriction)
- xs:string [333] (restriction)
  - xs:normalizedString [322] (restriction)
    - xs:token [336] (restriction)
      - xs:NMTOKEN [316] (restriction)
        - **simpleType**

{any attribute from non-schema namespace}

Defined: within xs:openAttrs complexType

Content Element Detail (all declarations; 1/1)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within xs:annotated complexType

simpleType "xs:allNNI"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [272]
Used: at 3 locations

Simple Content Model

xs:nonNegativeInteger | "unbounded"

All Direct / Indirect Based Attributes (3):

xs:all/@maxOccurs [160], xs:occurs/@maxOccurs [367]
xs:narrowMaxMin/@maxOccurs [226],

Known Usage Locations

- **As direct type of attributes within attributeGroups (1):**

  xs:occurs/@maxOccurs [367]

- **In derivations of anonymous types of attributes within complexTypes (2):**

  xs:narrowMaxMin/@maxOccurs [226] (as restriction base)
  xs:all/@maxOccurs [160] (as restriction base)

Annotation

for maxOccurs

Type Definition Detail

Type Derivation Tree

union of (xs:nonNegativeInteger | restriction of xs:NMTOKEN)
└ **xs:allNNI**

Derivation: by union

Member Types

1. xs:nonNegativeInteger
2. anonymous simpleType:

   Derivation: restriction of xs:NMTOKEN
   Facets: **enumeration:** "unbounded"

XML Source

```
<xs:simpleType name="allNNI">
  <xs:annotation>
    <xs:documentation>
      for maxOccurs
    </xs:documentation>
  </xs:annotation>
  <xs:union memberTypes="xs:nonNegativeInteger">
    <xs:simpleType>
      <xs:restriction base="xs:NMTOKEN">
        <xs:enumeration value="unbounded"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
```

simpleType "xs:anyURI"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [273]
Used: at 10 locations

Simple Content Model

xs:anyURI

Simple Content Restrictions:

WhiteSpace: collapse

Known Direct Subtypes (1):

xs:namespaceList [311]

All Direct / Indirect Based Attributes (10):

xml:base [371],
xs:appinfo/@source [35],
xs:documentation/@source [62],
xs:import/@namespace [92],
xs:import/@schemaLocation [92],
xs:include/@schemaLocation [94],
xs:notation/@system [117],
xs:redefine/@schemaLocation [122],
xs:schema/@targetNamespace [20],
xs:wildcard/@namespace [270]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:namespaceList [311] (as union member)

- **As direct type of global attributes (1):**

  xml:base [371]

- **As direct type of attributes within elements (8):**

  xs:appinfo/@source [35],
  xs:documentation/@source [62],
  xs:import/@namespace [92],
  xs:import/@schemaLocation [92],
  xs:include/@schemaLocation [94],
  xs:notation/@system [117],
  xs:redefine/@schemaLocation [122],
  xs:schema/@targetNamespace [20]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#anyURI

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:anyURI**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="anyURI" name="anyURI">
  <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/#anyURI"/>
    </xs:annotation>
    <xs:restriction base="xs:anySimpleType">
      <xs:whiteSpace fixed="true" id="anyURI.whiteSpace" value="collapse"/>
    </xs:restriction>
  </xs:simpleType>
```

simpleType "xs:base64Binary"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [275]
Used: never

Simple Content Model

xs:base64Binary

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#base64Binary

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:base64Binary**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="base64Binary" name="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 fixed="true" id="base64Binary.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:blockSet"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [276]
Used: at 2 locations

Simple Content Model

"#all" | *list of* ("extension" | "restriction" | "substitution")

All Direct / Indirect Based Attributes (2):

xs:element/@block [185], xs:schema/@blockDefault [19]

Known Usage Locations

- **As direct type of attributes within elements (1):**

  xs:schema/@blockDefault [19]

- **As direct type of attributes within complexTypes (1):**

  xs:element/@block [185]

Annotation

Annotation 1:

A utility type, not for public use

Annotation 2:

#all or (possibly empty) subset of {substitution, extension, restriction}

Type Definition Detail

Type Derivation Tree

union of (restriction of xs:token | list of restriction of xs:derivationControl)
└ **xs:blockSet**

Derivation: by union

Member Types

1. anonymous simpleType:

   Derivation: restriction of xs:token
   Facets: **enumeration:** "#all"

2. anonymous simpleType:

   Derivation: list of anonymous simpleType

   Anonymous simpleType

   Derivation: restriction of xs:derivationControl
   Facets: **enumeration:** "extension", "restriction", "substitution"

XML Source

```
<xs:simpleType name="blockSet">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
    <xs:documentation>
      #all or (possibly empty) subset of {substitution, extension,
      restriction}
    </xs:documentation>
```

```
  </xs:annotation>
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="#all"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
      <xs:list>
        <xs:simpleType>
          <xs:restriction base="xs:derivationControl">
            <xs:enumeration value="extension"/>
            <xs:enumeration value="restriction"/>
            <xs:enumeration value="substitution"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:list>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
```

simpleType "xs:boolean"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [278]
Used: at 6 locations

Simple Content Model

xs:boolean

Simple Content Restrictions:

WhiteSpace: collapse

All Direct / Indirect Based Attributes (6):

xs:complexContent/@mixed [52], *xs:element*/@abstract [185],
xs:complexType/@abstract [181], *xs:element*/@nillable [186],
xs:complexType/@mixed [181], xs:facet/@fixed [196]

Known Usage Locations

- **As direct type of attributes within elements (1):**

  xs:complexContent/@mixed [52]

- **As direct type of attributes within complexTypes (5):**

  xs:complexType/@abstract [181], *xs:element*/@nillable [186],
  xs:complexType/@mixed [181], xs:facet/@fixed [196]
  xs:element/@abstract [185],

Annotation

See: http://www.w3.org/TR/xmlschema-2/#boolean

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:boolean**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="boolean" name="boolean">
  <xs:annotation>
    <xs: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"/>
    </xs:appinfo>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#boolean"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="boolean.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:byte"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [279]
Used: never

Simple Content Model

xs:byte

Simple Content Restrictions:

MinInclusive: -128
MaxInclusive: 127

Annotation

See: http://www.w3.org/TR/xmlschema-2/#byte

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:long [308] (restriction)
              └xs:int [305] (restriction)
                  └xs:short [330] (restriction)
                      └xs:byte
```

Derivation: restriction of xs:short
Facets: **minInclusive:** -128
maxInclusive: 127

XML Source

```
<xs:simpleType id="byte" name="byte">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#byte"/>
  </xs:annotation>
  <xs:restriction base="xs:short">
    <xs:minInclusive id="byte.minInclusive" value="-128"/>
    <xs:maxInclusive id="byte.maxInclusive" value="127"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:date"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [280]
Used: never

Simple Content Model

xs:date

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#date

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:date**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="date" name="date">
  <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/#date"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="date.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:dateTime"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [281]
Used: never

Simple Content Model

xs:dateTime

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#dateTime

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:dateTime**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="dateTime" name="dateTime">
  <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 fixed="true" id="dateTime.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:decimal"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [282]
Used: at 1 location

Simple Content Model

xs:decimal

Simple Content Restrictions:

WhiteSpace: collapse

Known Direct Subtypes (1):

xs:integer [306]

Known Indirect Subtypes (13):

xs:allNNI [272], xs:byte [279], xs:int [305], xs:long [308], xs:negativeInteger [315], xs:nonNegativeInteger [319], xs:nonPositiveInteger [321], xs:positiveInteger [325], xs:short [330], xs:unsignedByte [339], xs:unsignedInt [340], xs:unsignedLong [341], xs:unsignedShort [342]

All Direct / Indirect Based Attributes (8):

xs:all/@maxOccurs [160],
xs:all/@minOccurs [161],
xs:narrowMaxMin/@maxOccurs [226],
xs:narrowMaxMin/@minOccurs [227],
xs:numFacet/@value [232],
xs:occurs/@maxOccurs [367],
xs:occurs/@minOccurs [368],
xs:totalDigits/@value [150]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:integer [306] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#decimal

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:decimal**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="decimal" name="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"/>
      <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"/>
      </xs:appinfo>
      <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#decimal"/>
    </xs:annotation>
    <xs:restriction base="xs:anySimpleType">
      <xs:whiteSpace fixed="true" id="decimal.whiteSpace" value="collapse"/>
    </xs:restriction>
  </xs:simpleType>
```

simpleType "xs:derivationControl"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [284]
Used: at 4 locations

Simple Content Model

enumeration of xs:NMTOKEN

Simple Content Restrictions:

Enumeration: "substitution", "extension", "restriction", "list", "union"

Known Direct Subtypes (4):

xs:blockSet [276], xs:reducedDerivationControl [329], xs:simpleDerivationSet [331], xs:typeDerivationControl [338]

Known Indirect Subtypes (2):

xs:derivationSet [286], xs:fullDerivationSet [294]

All Direct / Indirect Based Attributes (7):

xs:complexType/@block [181], *xs:complexType*/@final [181], *xs:element*/@block [185], *xs:element*/@final [185], xs:schema/@blockDefault [19], xs:schema/@finalDefault [19], *xs:simpleType*/@final [253]

Known Usage Locations

- **In derivations of other global types (4):**

  xs:blockSet [276] (as restriction base),
  xs:reducedDerivationControl [329] (as restriction base),
  xs:simpleDerivationSet [331] (as restriction base),
  xs:typeDerivationControl [338] (as restriction base)

Annotation

A utility type, not for public use

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
    └xs:normalizedString [322] (restriction)
      └xs:token [336] (restriction)
        └xs:NMTOKEN [316] (restriction)
          └xs:derivationControl
```

Derivation: restriction of xs:NMTOKEN
Facets: **enumeration:** "substitution", "extension", "restriction", "list", "union"

XML Source

```
<xs:simpleType name="derivationControl">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
```

```
      </xs:documentation>
    </xs:annotation>
    <xs:restriction base="xs:NMTOKEN">
      <xs:enumeration value="substitution"/>
      <xs:enumeration value="extension"/>
      <xs:enumeration value="restriction"/>
      <xs:enumeration value="list"/>
      <xs:enumeration value="union"/>
    </xs:restriction>
</xs:simpleType>
```

simpleType "xs:derivationSet"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [286]
Used: at 3 locations

Simple Content Model

"#all" | *list of* ("extension" | "restriction")

All Direct / Indirect Based Attributes (3):

xs:complexType/@block [181], *xs:element*/@final [185]
xs:complexType/@final [181],

Known Usage Locations

- **As direct type of attributes within complexTypes (3):**

  xs:complexType/@block [181], *xs:element*/@final [185]
  xs:complexType/@final [181],

Annotation

Annotation 1:

A utility type, not for public use

Annotation 2:

#all or (possibly empty) subset of {extension, restriction}

Type Definition Detail

Type Derivation Tree

union of (restriction of xs:token | list of xs:reducedDerivationControl)
└ **xs:derivationSet**

Derivation: by union

Member Types

1. anonymous simpleType:
   Derivation: restriction of xs:token
   Facets: **enumeration:** "#all"
2. anonymous simpleType:
   Derivation: list of xs:reducedDerivationControl

XML Source

```
<xs:simpleType name="derivationSet">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
    <xs:documentation>
      #all or (possibly empty) subset of {extension, restriction}
    </xs:documentation>
  </xs:annotation>
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="#all"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
```

```
        <xs:list itemType="xs:reducedDerivationControl"/>
      </xs:simpleType>
    </xs:union>
</xs:simpleType>
```

simpleType "xs:double"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [288]
Used: never

Simple Content Model

xs:double

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#double

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:double**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

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

simpleType "xs:duration"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [289]
Used: never

Simple Content Model

xs:duration

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#duration

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:duration**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="duration" name="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 fixed="true" id="duration.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:ENTITIES"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [290]
Used: never

Simple Content Model

xs:ENTITIES

Simple Content Restrictions:

MinLength: 1

Annotation

See: http://www.w3.org/TR/xmlschema-2/#ENTITIES

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:Name [309] (restriction)
                  └xs:NCName [313] (restriction)
                      └xs:ENTITY [291] (restriction of list)
                          └xs:ENTITIES
```

Derivation: restriction of anonymous simpleType
Facets: **minLength:** 1

Anonymous simpleType

Derivation: list of xs:ENTITY

XML Source

```
<xs:simpleType id="ENTITIES" name="ENTITIES">
  <xs:annotation>
    <xs: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"/>
    </xs:appinfo>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#ENTITIES"/>
  </xs:annotation>
  <xs:restriction>
    <xs:simpleType>
      <xs:list itemType="xs:ENTITY"/>
    </xs:simpleType>
    <xs:minLength id="ENTITIES.minLength" value="1"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:ENTITY"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [291]
Used: at 1 location

Simple Content Model

xs:ENTITY

Known Direct Subtypes (1):

xs:ENTITIES [290]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:ENTITIES [290] (as list item type)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#ENTITY

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
    └xs:normalizedString [322] (restriction)
      └xs:token [336] (restriction)
        └xs:Name [309] (restriction)
          └xs:NCName [313] (restriction)
            └xs:ENTITY
```

Derivation: restriction of xs:NCName

XML Source

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

simpleType "xs:float"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [292]
Used: never

Simple Content Model

xs:float

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#float

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:float**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="float" name="float">
  <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="total"/>
      <hfp:hasProperty name="bounded" value="true"/>
      <hfp:hasProperty name="cardinality" value="finite"/>
      <hfp:hasProperty name="numeric" value="true"/>
    </xs:appinfo>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#float"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="float.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:formChoice"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [293]
Used: at 4 locations

Simple Content Model

enumeration of xs:NMTOKEN

Simple Content Restrictions:

Enumeration: "qualified", "unqualified"

All Direct / Indirect Based Attributes (4):

xs:attribute/@form [169], xs:schema/@attributeFormDefault [19],
xs:element/@form [186], xs:schema/@elementFormDefault [19]

Known Usage Locations

- **As direct type of attributes within elements (2):**

  xs:schema/@attributeFormDefault [19], xs:schema/@elementFormDefault [19]

- **As direct type of attributes within complexTypes (2):**

  xs:attribute/@form [169], *xs:element*/@form [186]

Annotation

A utility type, not for public use

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:NMTOKEN [316] (restriction)
                  └xs:formChoice
```

Derivation: restriction of xs:NMTOKEN
Facets: **enumeration:** "qualified", "unqualified"

XML Source

```
<xs:simpleType name="formChoice">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:NMTOKEN">
    <xs:enumeration value="qualified"/>
    <xs:enumeration value="unqualified"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:fullDerivationSet"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [294]
Used: at 1 location

Simple Content Model

"#all" | *list of* ("extension" | "restriction" | "list" | "union")

All Direct / Indirect Based Attributes (1):

xs:schema/@finalDefault [19]

Known Usage Locations

- **As direct type of attributes within elements (1):**

  xs:schema/@finalDefault [19]

Annotation

Annotation 1:

A utility type, not for public use

Annotation 2:

#all or (possibly empty) subset of {extension, restriction, list, union}

Type Definition Detail

Type Derivation Tree

union of (restriction of xs:token | list of xs:typeDerivationControl)
└ **xs:fullDerivationSet**

Derivation: by union

Member Types

1. anonymous simpleType:

   Derivation: restriction of xs:token
   Facets: **enumeration:** "#all"

2. anonymous simpleType:

   Derivation: list of xs:typeDerivationControl

XML Source

```
<xs:simpleType name="fullDerivationSet">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
    <xs:documentation>
      #all or (possibly empty) subset of {extension, restriction, list, union}
    </xs:documentation>
  </xs:annotation>
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="#all"/>
      </xs:restriction>
    </xs:simpleType>
    <xs:simpleType>
      <xs:list itemType="xs:typeDerivationControl"/>
    </xs:simpleType>
```

```
  </xs:union>
</xs:simpleType>
```

simpleType "xs:gDay"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [296]
Used: never

Simple Content Model

xs:gDay

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#gDay

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:gDay**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="gDay" name="gDay">
  <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/#gDay"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="gDay.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:gMonth"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [297]
Used: never

Simple Content Model

xs:gMonth

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#gMonth

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:gMonth**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="gMonth" name="gMonth">
  <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/#gMonth"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="gMonth.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:gMonthDay"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [298]
Used: never

Simple Content Model

xs:gMonthDay

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#gMonthDay

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:gMonthDay**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="gMonthDay" name="gMonthDay">
  <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/#gMonthDay"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="gMonthDay.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:gYear"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [299]
Used: never

Simple Content Model

xs:gYear

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#gYear

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:gYear**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="gYear" name="gYear">
  <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/#gYear"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="gYear.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:gYearMonth"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [300]
Used: never

Simple Content Model

xs:gYearMonth

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#gYearMonth

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:gYearMonth**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="gYearMonth" name="gYearMonth">
  <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/#gYearMonth"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="gYearMonth.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:hexBinary"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [301]
Used: never

Simple Content Model

xs:hexBinary

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#binary

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:hexBinary**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="hexBinary" name="hexBinary">
  <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/#binary"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="hexBinary.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:ID"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [302]
Used: at 5 locations

Simple Content Model

xs:ID

All Direct / Indirect Based Attributes (5):

xml:id [372], xs:redefine/@id [122], xs:annotated/@id [164], xs:schema/@id [20] xs:annotation/@id [28],

Known Usage Locations

- **As direct type of global attributes (1):**

  xml:id [372]

- **As direct type of attributes within elements (3):**

  xs:annotation/@id [28], xs:schema/@id [20] xs:redefine/@id [122],

- **As direct type of attributes within complexTypes (1):**

  xs:annotated/@id [164]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#ID

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
    └xs:normalizedString [322] (restriction)
      └xs:token [336] (restriction)
        └xs:Name [309] (restriction)
          └xs:NCName [313] (restriction)
            └xs:ID
```

Derivation: restriction of xs:NCName

XML Source

```
<xs:simpleType id="ID" name="ID">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#ID"/>
  </xs:annotation>
  <xs:restriction base="xs:NCName"/>
</xs:simpleType>
```

simpleType "xs:IDREF"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [303]
Used: at 1 location

Simple Content Model

xs:IDREF

Known Direct Subtypes (1):

xs:IDREFS [304]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:IDREFS [304] (as list item type)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#IDREF

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:Name [309] (restriction)
                  └xs:NCName [313] (restriction)
                      └xs:IDREF
```

Derivation: restriction of xs:NCName

XML Source

```
<xs:simpleType id="IDREF" name="IDREF">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#IDREF"/>
  </xs:annotation>
  <xs:restriction base="xs:NCName"/>
</xs:simpleType>
```

simpleType "xs:IDREFS"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [304]
Used: never

Simple Content Model

xs:IDREFS

Simple Content Restrictions:

MinLength: 1

Annotation

See: http://www.w3.org/TR/xmlschema-2/#IDREFS

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
- xs:string [333] (restriction)
  - xs:normalizedString [322] (restriction)
    - xs:token [336] (restriction)
      - xs:Name [309] (restriction)
        - xs:NCName [313] (restriction)
          - xs:IDREF [303] (restriction of list)
            - **xs:IDREFS**

Derivation: restriction of anonymous simpleType
Facets: **minLength:** 1

Anonymous simpleType

Derivation: list of xs:IDREF

XML Source

```
<xs:simpleType id="IDREFS" name="IDREFS">
  <xs:annotation>
    <xs: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"/>
    </xs:appinfo>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#IDREFS"/>
  </xs:annotation>
  <xs:restriction>
    <xs:simpleType>
      <xs:list itemType="xs:IDREF"/>
    </xs:simpleType>
    <xs:minLength id="IDREFS.minLength" value="1"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:int"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [305]
Used: at 1 location

Simple Content Model

xs:int

Simple Content Restrictions:

MinInclusive: -2147483648
MaxInclusive: 2147483647

Known Direct Subtypes (1):

xs:short [330]

Known Indirect Subtypes (1):

xs:byte [279]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:short [330] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#int

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:long [308] (restriction)
              └xs:int
```

Derivation: restriction of xs:long
Facets: **minInclusive:** -2147483648
maxInclusive: 2147483647

XML Source

```
<xs:simpleType id="int" name="int">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#int"/>
  </xs:annotation>
  <xs:restriction base="xs:long">
    <xs:minInclusive id="int.minInclusive" value="-2147483648"/>
    <xs:maxInclusive id="int.maxInclusive" value="2147483647"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:integer"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [306]
Used: at 3 locations

Simple Content Model

xs:integer

Simple Content Restrictions:

FractionDigits: 0
Pattern: [\-+]?[0-9]+

Known Direct Subtypes (3):

xs:long [308], xs:nonNegativeInteger [319], xs:nonPositiveInteger [321]

Known Indirect Subtypes (10):

xs:allNNI [272], xs:byte [279], xs:int [305], xs:negativeInteger [315], xs:positiveInteger [325], xs:short [330], xs:unsignedByte [339], xs:unsignedInt [340], xs:unsignedLong [341], xs:unsignedShort [342]

All Direct / Indirect Based Attributes (8):

xs:all/@maxOccurs [160],
xs:all/@minOccurs [161],
xs:narrowMaxMin/@maxOccurs [226],
xs:narrowMaxMin/@minOccurs [227],
xs:numFacet/@value [232],
xs:occurs/@maxOccurs [367],
xs:occurs/@minOccurs [368],
xs:totalDigits/@value [150]

Known Usage Locations

- **In derivations of other global types (3):**

xs:long [308] (as restriction base),
xs:nonNegativeInteger [319] (as restriction base),
xs:nonPositiveInteger [321] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#integer

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer
```

Derivation: restriction of xs:decimal
Facets: **fractionDigits:** 0
pattern: [\-+]?[0-9]+

XML Source

```
<xs:simpleType id="integer" name="integer">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#integer"/>
  </xs:annotation>
  <xs:restriction base="xs:decimal">
    <xs:fractionDigits fixed="true" id="integer.fractionDigits" value="0"/>
    <xs:pattern value="[\-+]?[0-9]+"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:language"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [307]
Used: at 1 location

Simple Content Model

xs:language

Simple Content Restrictions:

Pattern: [a-zA-Z]{1,8}(-[a-zA-Z0-9]{1,8})*
pattern specifies the content of section 2.12 of XML 1.0e2
and RFC 3066 (Revised version of RFC 1766).

See: http://www.ietf.org/rfc/rfc3066.txt

All Direct / Indirect Based Attributes (1):

xml:lang [373]

Known Usage Locations

- **In derivations of anonymous types of global attributes (1):**

  xml:lang [373] (as union member)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#language

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:language
```

Derivation: restriction of xs:token
Facets: **pattern:** [a-zA-Z]{1,8}(-[a-zA-Z0-9]{1,8})*
pattern specifies the content of section 2.12 of XML 1.0e2
and RFC 3066 (Revised version of RFC 1766).

See: http://www.ietf.org/rfc/rfc3066.txt

XML Source

```
<xs:simpleType id="language" name="language">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#language"/>
  </xs:annotation>
  <xs:restriction base="xs:token">
    <xs:pattern id="language.pattern" value="[a-zA-Z]{1,8}(-[a-zA-Z0-9]{1,8})*">
      <xs:annotation>
        <xs:documentation source="http://www.ietf.org/rfc/rfc3066.txt">
          pattern specifies the content of section 2.12 of XML 1.0e2
          and RFC 3066 (Revised version of RFC 1766).
        </xs:documentation>
      </xs:annotation>
    </xs:pattern>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:long"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [308]
Used: at 1 location

Simple Content Model

xs:long

Simple Content Restrictions:

MinInclusive: -9223372036854775808
MaxInclusive: 9223372036854775807

Known Direct Subtypes (1):

xs:int [305]

Known Indirect Subtypes (2):

xs:byte [279], xs:short [330]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:int [305] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#long

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:long
```

Derivation: restriction of xs:integer
Facets: **minInclusive:** -9223372036854775808
maxInclusive: 9223372036854775807

XML Source

```
<xs:simpleType id="long" name="long">
  <xs:annotation>
    <xs:appinfo>
      <hfp:hasProperty name="bounded" value="true"/>
      <hfp:hasProperty name="cardinality" value="finite"/>
    </xs:appinfo>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#long"/>
  </xs:annotation>
  <xs:restriction base="xs:integer">
    <xs:minInclusive id="long.minInclusive" value="-9223372036854775808"/>
    <xs:maxInclusive id="long.maxInclusive" value="9223372036854775807"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:Name"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [310]
Used: at 1 location

Simple Content Model

xs:Name

Simple Content Restrictions:

Pattern: \i\c*
pattern matches production 5 from the XML spec

See: http://www.w3.org/TR/REC-xml#NT-Name

Known Direct Subtypes (1):

xs:NCName [313]

Known Indirect Subtypes (5):

xs:ENTITIES [290], xs:ENTITY [291], xs:ID [302], xs:IDREF [303], xs:IDREFS [304]

All Direct / Indirect Based Attributes (17):

xml:id [372],
xml:space [375],
xs:annotated/@id [164],
xs:annotation/@id [28],
xs:complexType/@name [181],
xs:defRef/@name [366],
xs:keybase/@name [205],
xs:namedAttributeGroup/@name [219],
xs:namedGroup/@name [222],
xs:notation/@name [117],
xs:redefine/@id [122],
xs:schema/@id [20],
xs:simpleType/@name [253],
xs:topLevelAttribute/@name [256],
xs:topLevelComplexType/@name [260],
xs:topLevelElement/@name [264],
xs:topLevelSimpleType/@name [267]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:NCName [313] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#Name

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:Name
```

Derivation: restriction of xs:token
Facets: **pattern:** \i\c*
pattern matches production 5 from the XML spec

See: http://www.w3.org/TR/REC-xml#NT-Name

XML Source

```
<xs:simpleType id="Name" name="Name">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#Name"/>
  </xs:annotation>
  <xs:restriction base="xs:token">
    <xs:pattern id="Name.pattern" value="\i\c*">
      <xs:annotation>
        <xs:documentation source="http://www.w3.org/TR/REC-xml#NT-Name">
          pattern matches production 5 from the XML spec
        </xs:documentation>
      </xs:annotation>
    </xs:pattern>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:namespaceList"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [311]
Used: at 1 location

Simple Content Model

("##any" | "##other") | *list of* (xs:anyURI | ("##targetNamespace" | "##local"))

All Direct / Indirect Based Attributes (1):

xs:wildcard/@namespace [270]

Known Usage Locations

- **As direct type of attributes within complexTypes (1):**

  xs:wildcard/@namespace [270]

Annotation

A utility type, not for public use

Type Definition Detail

Type Derivation Tree

union of (restriction of xs:token | list of union of (xs:anyURI | restriction of xs:token))
└ **xs:namespaceList**

Derivation: by union

Member Types

1. anonymous simpleType:

   Derivation: restriction of xs:token
   Facets: **enumeration:** "##any", "##other"

2. anonymous simpleType:

   Derivation: list of anonymous simpleType

   Anonymous simpleType

   Derivation: by union

   Member Types

   1. xs:anyURI
   2. anonymous simpleType:

      Derivation: restriction of xs:token
      Facets: **enumeration:** "##targetNamespace", "##local"

XML Source

```
<xs:simpleType name="namespaceList">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
  </xs:annotation>
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="##any"/>
        <xs:enumeration value="##other"/>
      </xs:restriction>
    </xs:simpleType>
```

```
    <xs:simpleType>
      <xs:list>
        <xs:simpleType>
          <xs:union memberTypes="xs:anyURI">
            <xs:simpleType>
              <xs:restriction base="xs:token">
                <xs:enumeration value="##targetNamespace"/>
                <xs:enumeration value="##local"/>
              </xs:restriction>
            </xs:simpleType>
          </xs:union>
        </xs:simpleType>
      </xs:list>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
```

simpleType "xs:NCName"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [314]
Used: at 15 locations

Simple Content Model

xs:NCName

Simple Content Restrictions:

Pattern: [\i-[:]][\c-[:]]*
pattern matches production 4 from the Namespaces in XML spec

See: http://www.w3.org/TR/REC-xml-names/#NT-NCName

Known Direct Subtypes (3):

xs:ENTITY [291], xs:ID [302], xs:IDREF [303]

Known Indirect Subtypes (2):

xs:ENTITIES [290], xs:IDREFS [304]

All Direct / Indirect Based Attributes (17):

xml:id [372],
xml:space [375],
xs:annotated/@id [164],
xs:annotation/@id [28],
xs:complexType/@name [181],
xs:defRef/@name [366],
xs:keybase/@name [205],
xs:namedAttributeGroup/@name [219],
xs:namedGroup/@name [222],
xs:notation/@name [117],
xs:redefine/@id [122],
xs:schema/@id [20],
xs:simpleType/@name [253],
xs:topLevelAttribute/@name [256],
xs:topLevelComplexType/@name [260],
xs:topLevelElement/@name [264],
xs:topLevelSimpleType/@name [267]

Known Usage Locations

- **In derivations of other global types (3):**

  xs:ENTITY [291] (as restriction base), xs:IDREF [303] (as restriction base)
  xs:ID [302] (as restriction base),

- **As direct type of attributes within elements (1):**

  xs:notation/@name [117]

- **As direct type of attributes within complexTypes (9):**

  xs:complexType/@name [181],
  xs:keybase/@name [205],
  xs:namedAttributeGroup/@name [219],
  xs:namedGroup/@name [222],
  xs:simpleType/@name [253],
  xs:topLevelAttribute/@name [256],
  xs:topLevelComplexType/@name [260],
  xs:topLevelElement/@name [264],
  xs:topLevelSimpleType/@name [267]

- **As direct type of attributes within attributeGroups (1):**

  xs:defRef/@name [366]

- **In derivations of anonymous types of global attributes (1):**

  xml:space [375] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#NCName

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └ xs:string [333] (restriction)
      └ xs:normalizedString [322] (restriction)
          └ xs:token [336] (restriction)
              └ xs:Name [309] (restriction)
                  └ xs:NCName
```

Derivation: restriction of `xs:Name`
Facets: **pattern:** `[\i-[:]][\c-[:]]*`
pattern matches production 4 from the Namespaces in XML spec

See: http://www.w3.org/TR/REC-xml-names/#NT-NCName

XML Source

```
<xs:simpleType id="NCName" name="NCName">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#NCName"/>
  </xs:annotation>
  <xs:restriction base="xs:Name">
    <xs:pattern id="NCName.pattern" value="[\i-[:]][\c-[:]]*">
      <xs:annotation>
        <xs:documentation source="http://www.w3.org/TR/REC-xml-names/#NT-NCName">
          pattern matches production 4 from the Namespaces in XML spec
        </xs:documentation>
      </xs:annotation>
    </xs:pattern>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:negativeInteger"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [315]
Used: never

Simple Content Model

xs:negativeInteger

Simple Content Restrictions:

MaxInclusive: -1

Annotation

See: http://www.w3.org/TR/xmlschema-2/#negativeInteger

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └ xs:decimal [282] (restriction)
      └ xs:integer [306] (restriction)
          └ xs:nonPositiveInteger [321] (restriction)
              └ xs:negativeInteger
```

Derivation: restriction of xs:nonPositiveInteger
Facets: **maxInclusive:** -1

XML Source

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

simpleType "xs:NMTOKEN"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [317]
Used: at 7 locations

Simple Content Model

xs:NMTOKEN

Simple Content Restrictions:

Pattern: \c+
pattern matches production 7 from the XML spec

See: http://www.w3.org/TR/REC-xml#NT-Nmtoken

Known Direct Subtypes (4):

xs:NMTOKENS [318], xs:allNNI [272], xs:derivationControl [284], xs:formChoice [293]

Known Indirect Subtypes (6):

xs:blockSet [276], xs:derivationSet [286], xs:fullDerivationSet [294], xs:reducedDerivationControl [329], xs:simpleDerivationSet [331], xs:typeDerivationControl [338]

All Direct / Indirect Based Attributes (17):

xs:all/@maxOccurs [160],
xs:attribute/@form [169],
xs:attribute/@use [169],
xs:complexType/@block [181],
xs:complexType/@final [181],
xs:element/@block [185],
xs:element/@final [185],
xs:element/@form [186],
xs:narrowMaxMin/@maxOccurs [226],
xs:occurs/@maxOccurs [367],
xs:schema/@attributeFormDefault [19],
xs:schema/@blockDefault [19],
xs:schema/@elementFormDefault [19],
xs:schema/@finalDefault [19],
xs:simpleType/@final [253],
xs:whiteSpace/@value [157],
xs:wildcard/@processContents [270]

Known Usage Locations

- **In derivations of other global types (4):**

  xs:NMTOKENS [318] (as list item type),
  xs:allNNI [272] (as restriction base),
  xs:derivationControl [284] (as restriction base),
  xs:formChoice [293] (as restriction base)

- **In derivations of anonymous types of attributes within elements (1):**

  xs:whiteSpace/@value [157] (as restriction base)

- **In derivations of anonymous types of attributes within complexTypes (2):**

  xs:attribute/@use [169] (as restriction base)
  xs:wildcard/@processContents [270] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#NMTOKEN

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:NMTOKEN
```

Derivation: restriction of `xs:token`

Facets: **pattern:** `\c+`
pattern matches production 7 from the XML spec

See: http://www.w3.org/TR/REC-xml#NT-Nmtoken

XML Source

```
<xs:simpleType id="NMTOKEN" name="NMTOKEN">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#NMTOKEN"/>
  </xs:annotation>
  <xs:restriction base="xs:token">
    <xs:pattern id="NMTOKEN.pattern" value="\c+">
      <xs:annotation>
        <xs:documentation source="http://www.w3.org/TR/REC-xml#NT-Nmtoken">
          pattern matches production 7 from the XML spec
        </xs:documentation>
      </xs:annotation>
    </xs:pattern>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:NMTOKENS"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [318]
Used: never

Simple Content Model

xs:NMTOKENS

Simple Content Restrictions:

MinLength: 1

Annotation

See: http://www.w3.org/TR/xmlschema-2/#NMTOKENS

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:NMTOKEN [316] (restriction of list)
                  └xs:NMTOKENS
```

Derivation: restriction of anonymous simpleType
Facets: **minLength:** 1

Anonymous simpleType

Derivation: list of xs:NMTOKEN

XML Source

```
<xs:simpleType id="NMTOKENS" name="NMTOKENS">
  <xs:annotation>
    <xs: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"/>
    </xs:appinfo>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#NMTOKENS"/>
  </xs:annotation>
  <xs:restriction>
    <xs:simpleType>
      <xs:list itemType="xs:NMTOKEN"/>
    </xs:simpleType>
    <xs:minLength id="NMTOKENS.minLength" value="1"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:nonNegativeInteger"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [320]
Used: at 7 locations

Simple Content Model

xs:nonNegativeInteger

Simple Content Restrictions:

MinInclusive: 0

Known Direct Subtypes (3):

xs:allNNI [272], xs:positiveInteger [325], xs:unsignedLong [341]

Known Indirect Subtypes (3):

xs:unsignedByte [339], xs:unsignedInt [340], xs:unsignedShort [342]

All Direct / Indirect Based Attributes (8):

xs:all/@maxOccurs [160],
xs:all/@minOccurs [161],
xs:narrowMaxMin/@maxOccurs [226],
xs:narrowMaxMin/@minOccurs [227],
xs:numFacet/@value [232],
xs:occurs/@maxOccurs [367],
xs:occurs/@minOccurs [368],
xs:totalDigits/@value [150]

Known Usage Locations

- **In derivations of other global types (3):**

  xs:allNNI [272] (as union member),
  xs:positiveInteger [325] (as restriction base),
  xs:unsignedLong [341] (as restriction base)

- **As direct type of attributes within complexTypes (1):**

  xs:numFacet/@value [232]

- **As direct type of attributes within attributeGroups (1):**

  xs:occurs/@minOccurs [368]

- **In derivations of anonymous types of attributes within complexTypes (2):**

  xs:narrowMaxMin/@minOccurs [227] (as restriction base)
  xs:all/@minOccurs [161] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#nonNegativeInteger

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:nonNegativeInteger
```

Derivation: restriction of xs:integer
Facets: **minInclusive:** 0

XML Source

```
<xs:simpleType id="nonNegativeInteger" name="nonNegativeInteger">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#nonNegativeInteger"/>
  </xs:annotation>
  <xs:restriction base="xs:integer">
    <xs:minInclusive id="nonNegativeInteger.minInclusive" value="0"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:nonPositiveInteger"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [321]
Used: at 1 location

Simple Content Model

xs:nonPositiveInteger

Simple Content Restrictions:

MaxInclusive: 0

Known Direct Subtypes (1):

xs:negativeInteger [315]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:negativeInteger [315] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#nonPositiveInteger

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:nonPositiveInteger
```

Derivation: restriction of xs:integer
Facets: **maxInclusive:** 0

XML Source

```
<xs:simpleType id="nonPositiveInteger" name="nonPositiveInteger">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#nonPositiveInteger"/>
  </xs:annotation>
  <xs:restriction base="xs:integer">
    <xs:maxInclusive id="nonPositiveInteger.maxInclusive" value="0"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:normalizedString"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [323]
Used: at 1 location

Simple Content Model

xs:normalizedString

Simple Content Restrictions:

WhiteSpace: replace

Known Direct Subtypes (1):

xs:token [336]

Known Indirect Subtypes (21):

xs:ENTITIES [290], xs:ENTITY [291], xs:ID [302], xs:IDREF [303], xs:IDREFS [304], xs:NCName [313], xs:NMTOKEN [316], xs:NMTOKENS [318], xs:Name [309], xs:allNNI [272], xs:blockSet [276], xs:derivationControl [284], xs:derivationSet [286], xs:formChoice [293], xs:fullDerivationSet [294], xs:language [307], xs:namespaceList [311], xs:public [326], xs:reducedDerivationControl [329], xs:simpleDerivationSet [331], xs:typeDerivationControl [338]

All Direct / Indirect Based Attributes (40):

xml:id [372],
xml:lang [373],
xml:space [375],
xs:all/@maxOccurs [160],
xs:annotated/@id [164],
xs:annotation/@id [28],
xs:attribute/@form [169],
xs:attribute/@use [169],
xs:complexType/@block [181],
xs:complexType/@final [181],
xs:complexType/@name [181],
xs:defRef/@name [366],
xs:element/@block [185],
xs:element/@final [185],
xs:element/@form [186],
xs:field/@xpath [83],
xs:keybase/@name [205],
xs:namedAttributeGroup/@name [219],
xs:namedGroup/@name [222],
xs:narrowMaxMin/@maxOccurs [226],
xs:notation/@name [117],
xs:notation/@public [117],
xs:occurs/@maxOccurs [367],
xs:redefine/@id [122],
xs:schema/@attributeFormDefault [19],
xs:schema/@blockDefault [19],
xs:schema/@elementFormDefault [19],
xs:schema/@finalDefault [19],
xs:schema/@id [20],
xs:schema/@version [20],
xs:selector/@xpath [136],
xs:simpleType/@final [253],
xs:simpleType/@name [253],
xs:topLevelAttribute/@name [256],
xs:topLevelComplexType/@name [260],
xs:topLevelElement/@name [264],
xs:topLevelSimpleType/@name [267],
xs:whiteSpace/@value [157],
xs:wildcard/@namespace [270],
xs:wildcard/@processContents [270]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:token [336] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#normalizedString

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └ xs:string [333] (restriction)
      └ xs:normalizedString
```

Derivation: restriction of `xs:string`
Facets: **whiteSpace:** `replace`

XML Source

```
<xs:simpleType id="normalizedString" name="normalizedString">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#normalizedString"/>
  </xs:annotation>
  <xs:restriction base="xs:string">
    <xs:whiteSpace id="normalizedString.whiteSpace" value="replace"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:NOTATION"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [324]
Used: never

Simple Content Model

xs:NOTATION

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

Annotation 1:

See: http://www.w3.org/TR/xmlschema-2/#NOTATION

Annotation 2:

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.

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:NOTATION**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="NOTATION" name="NOTATION">
  <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/#NOTATION"/>
    <xs:documentation>
      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.
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="NOTATION.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:positiveInteger"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [325]
Used: at 1 location

Simple Content Model

xs:positiveInteger

Simple Content Restrictions:

MinInclusive: 1

All Direct / Indirect Based Attributes (1):

xs:totalDigits/@value [150]

Known Usage Locations

- **As direct type of attributes within elements (1):**

  xs:totalDigits/@value [150]

Annotation

See: http://www.w3.org/TR/xmlschema-2/#positiveInteger

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:nonNegativeInteger [319] (restriction)
              └xs:positiveInteger
```

Derivation: restriction of xs:nonNegativeInteger
Facets: **minInclusive:** 1

XML Source

```
<xs:simpleType id="positiveInteger" name="positiveInteger">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#positiveInteger"/>
  </xs:annotation>
  <xs:restriction base="xs:nonNegativeInteger">
    <xs:minInclusive id="positiveInteger.minInclusive" value="1"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:public"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [326]
Used: at 1 location

Simple Content Model

xs:token

All Direct / Indirect Based Attributes (1):

xs:notation/@public [117]

Known Usage Locations

- **As direct type of attributes within elements (1):**

  xs:notation/@public [117]

Annotation

Annotation 1:

A utility type, not for public use

Annotation 2:

A public identifier, per ISO 8879

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:public
```

Derivation: restriction of xs:token

XML Source

```
<xs:simpleType name="public">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
    <xs:documentation>
      A public identifier, per ISO 8879
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:token"/>
</xs:simpleType>
```

simpleType "xs:QName"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [327]
Used: at 12 locations

Simple Content Model

xs:QName

Simple Content Restrictions:

WhiteSpace: collapse

All Direct / Indirect Based Attributes (12):

xs:attribute/@type [169],
xs:attributeGroupRef/@ref [175],
xs:defRef/@ref [366],
xs:element/@substitutionGroup [187],
xs:element/@type [187],
xs:extensionType/@base [193],
xs:groupRef/@ref [202],
xs:keyref/@refer [98],
xs:list/@itemType [103],
xs:restriction/@base [125],
xs:restrictionType/@base [239],
xs:union/@memberTypes [152]

Known Usage Locations

- **As direct type of attributes within elements (3):**

  xs:keyref/@refer [98],
  xs:list/@itemType [103],
  xs:restriction/@base [125]

- **As direct type of attributes within complexTypes (7):**

  xs:attribute/@type [169],
  xs:attributeGroupRef/@ref [175],
  xs:element/@substitutionGroup [187],
  xs:element/@type [187],
  xs:extensionType/@base [193],
  xs:groupRef/@ref [202],
  xs:restrictionType/@base [239]

- **As direct type of attributes within attributeGroups (1):**

  xs:defRef/@ref [366]

- **In derivations of anonymous types of attributes within elements (1):**

  xs:union/@memberTypes [152] (as list item type)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#QName

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:QName**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="QName" name="QName">
  <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/#QName"/>
    </xs:annotation>
    <xs:restriction base="xs:anySimpleType">
      <xs:whiteSpace fixed="true" id="QName.whiteSpace" value="collapse"/>
    </xs:restriction>
  </xs:simpleType>
```

simpleType "xs:reducedDerivationControl"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [329]
Used: at 1 location

Simple Content Model

enumeration of xs:NMTOKEN

Simple Content Restrictions:

Enumeration: "extension", "restriction"

Known Direct Subtypes (1):

xs:derivationSet [286]

All Direct / Indirect Based Attributes (3):

xs:complexType/@block [181], *xs:element*/@final [185]
xs:complexType/@final [181],

Known Usage Locations

- **In derivations of other global types (1):**

  xs:derivationSet [286] (as list item type)

Annotation

A utility type, not for public use

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:NMTOKEN [316] (restriction)
                  └xs:derivationControl [284] (restriction)
                      └xs:reducedDerivationControl
```

Derivation: restriction of xs:derivationControl
Facets: **enumeration:** "extension", "restriction"

XML Source

```
<xs:simpleType name="reducedDerivationControl">
  <xs:annotation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:derivationControl">
    <xs:enumeration value="extension"/>
    <xs:enumeration value="restriction"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:short"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [330]
Used: at 1 location

Simple Content Model

xs:short

Simple Content Restrictions:

MinInclusive: -32768
MaxInclusive: 32767

Known Direct Subtypes (1):

xs:byte [279]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:byte [279] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#short

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:long [308] (restriction)
              └xs:int [305] (restriction)
                  └xs:short
```

Derivation: restriction of xs:int
Facets: **minInclusive:** -32768
maxInclusive: 32767

XML Source

```
<xs:simpleType id="short" name="short">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#short"/>
  </xs:annotation>
  <xs:restriction base="xs:int">
    <xs:minInclusive id="short.minInclusive" value="-32768"/>
    <xs:maxInclusive id="short.maxInclusive" value="32767"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:simpleDerivationSet"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [331]
Used: at 1 location

Simple Content Model

"#all" | *list of* ("list" | "union" | "restriction")

All Direct / Indirect Based Attributes (1):

xs:simpleType/@final [253]

Known Usage Locations

- **As direct type of attributes within complexTypes (1):**

  xs:simpleType/@final [253]

Annotation

Annotation 1:

#all or (possibly empty) subset of {restriction, union, list}

Annotation 2:

A utility type, not for public use

Type Definition Detail

Type Derivation Tree

union of (restriction of xs:token | list of restriction of xs:derivationControl)
└ **xs:simpleDerivationSet**

Derivation: by union

Member Types

1. anonymous simpleType:

   Derivation: restriction of xs:token
   Facets: **enumeration:** "#all"

2. anonymous simpleType:

   Derivation: list of anonymous simpleType

   Anonymous simpleType

   Derivation: restriction of xs:derivationControl
   Facets: **enumeration:** "list", "union", "restriction"

XML Source

```
<xs:simpleType name="simpleDerivationSet">
  <xs:annotation>
    <xs:documentation>
      #all or (possibly empty) subset of {restriction, union, list}
    </xs:documentation>
    <xs:documentation>
      A utility type, not for public use
    </xs:documentation>
  </xs:annotation>
  <xs:union>
    <xs:simpleType>
      <xs:restriction base="xs:token">
        <xs:enumeration value="#all"/>
      </xs:restriction>
```

```
    </xs:simpleType>
    <xs:simpleType>
      <xs:list>
        <xs:simpleType>
          <xs:restriction base="xs:derivationControl">
            <xs:enumeration value="list"/>
            <xs:enumeration value="union"/>
            <xs:enumeration value="restriction"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:list>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
```

simpleType "xs:string"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [334]
Used: at 7 locations

Simple Content Model

xs:string

Simple Content Restrictions:

WhiteSpace: preserve

Known Direct Subtypes (1):

xs:normalizedString [322]

Known Indirect Subtypes (22):

xs:ENTITIES [290], xs:ENTITY [291], xs:ID [302], xs:IDREF [303], xs:IDREFS [304], xs:NCName [313], xs:NMTOKEN [316], xs:NMTOKENS [318], xs:Name [309], xs:allNNI [272], xs:blockSet [276], xs:derivationControl [284], xs:derivationSet [286], xs:formChoice [293], xs:fullDerivationSet [294], xs:language [307], xs:namespaceList [311], xs:public [326], xs:reducedDerivationControl [329], xs:simpleDerivationSet [331], xs:token [336], xs:typeDerivationControl [338]

All Direct / Indirect Based Attributes (45):

xml:id [372],
xml:lang [373],
xml:space [375],
xs:all/@maxOccurs [160],
xs:annotated/@id [164],
xs:annotation/@id [28],
xs:attribute/@default [169],
xs:attribute/@fixed [169],
xs:attribute/@form [169],
xs:attribute/@use [169],
xs:complexType/@block [181],
xs:complexType/@final [181],
xs:complexType/@name [181],
xs:defRef/@name [366],
xs:element/@block [185],
xs:element/@default [185],
xs:element/@final [185],
xs:element/@fixed [185],
xs:element/@form [186],
xs:field/@xpath [83],
xs:keybase/@name [205],
xs:namedAttributeGroup/@name [219],
xs:namedGroup/@name [222],
xs:narrowMaxMin/@maxOccurs [226],
xs:notation/@name [117],
xs:notation/@public [117],
xs:occurs/@maxOccurs [367],
xs:pattern/@value [120],
xs:redefine/@id [122],
xs:schema/@attributeFormDefault [19],
xs:schema/@blockDefault [19],
xs:schema/@elementFormDefault [19],
xs:schema/@finalDefault [19],
xs:schema/@id [20],
xs:schema/@version [20],
xs:selector/@xpath [136],
xs:simpleType/@final [253],
xs:simpleType/@name [253],
xs:topLevelAttribute/@name [256],
xs:topLevelComplexType/@name [260],
xs:topLevelElement/@name [264],
xs:topLevelSimpleType/@name [267],
xs:whiteSpace/@value [157],
xs:wildcard/@namespace [270],
xs:wildcard/@processContents [270]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:normalizedString [322] (as restriction base)

- **As direct type of attributes within elements (1):**

  xs:pattern/@value [120]

- **As direct type of attributes within complexTypes (4):**

  xs:attribute/@default [169], *xs:element*/@default [185],

xs:attribute/@fixed [169], *xs:element*/@fixed [185]

- **In derivations of anonymous types of global attributes (1):**

  xml:lang [373] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#string

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string
```

Derivation: restriction of `xs:anySimpleType`
Facets: **whiteSpace:** `preserve`

XML Source

```
<xs:simpleType id="string" name="string">
  <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/#string"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace id="string.preserve" value="preserve"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:time"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [335]
Used: never

Simple Content Model

xs:time

Simple Content Restrictions:

WhiteSpace: collapse

Annotation

See: http://www.w3.org/TR/xmlschema-2/#time

Type Definition Detail

Type Derivation Tree

xs:anySimpleType (restriction)
  └ **xs:time**

Derivation: restriction of xs:anySimpleType
Facets: **whiteSpace:** collapse

XML Source

```
<xs:simpleType id="time" name="time">
  <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/#time"/>
  </xs:annotation>
  <xs:restriction base="xs:anySimpleType">
    <xs:whiteSpace fixed="true" id="time.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:token"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [337]
Used: at 13 locations

Simple Content Model

xs:token

Simple Content Restrictions:

WhiteSpace: collapse

Known Direct Subtypes (9):

xs:NMTOKEN [316], xs:Name [309], xs:blockSet [276], xs:derivationSet [286], xs:fullDerivationSet [294], xs:language [307], xs:namespaceList [311], xs:public [326], xs:simpleDerivationSet [331]

Known Indirect Subtypes (12):

xs:ENTITIES [290], xs:ENTITY [291], xs:ID [302], xs:IDREF [303], xs:IDREFS [304], xs:NCName [313], xs:NMTOKENS [318], xs:allNNI [272], xs:derivationControl [284], xs:formChoice [293], xs:reducedDerivationControl [329], xs:typeDerivationControl [338]

All Direct / Indirect Based Attributes (40):

xml:id [372],
xml:lang [373],
xml:space [375],
xs:all/@maxOccurs [160],
xs:annotated/@id [164],
xs:annotation/@id [28],
xs:attribute/@form [169],
xs:attribute/@use [169],
xs:complexType/@block [181],
xs:complexType/@final [181],
xs:complexType/@name [181],
xs:defRef/@name [366],
xs:element/@block [185],
xs:element/@final [185],
xs:element/@form [186],
xs:field/@xpath [83],
xs:keybase/@name [205],
xs:namedAttributeGroup/@name [219],
xs:namedGroup/@name [222],
xs:narrowMaxMin/@maxOccurs [226],
xs:notation/@name [117],
xs:notation/@public [117],
xs:occurs/@maxOccurs [367],
xs:redefine/@id [122],
xs:schema/@attributeFormDefault [19],
xs:schema/@blockDefault [19],
xs:schema/@elementFormDefault [19],
xs:schema/@finalDefault [19],
xs:schema/@id [20],
xs:schema/@version [20],
xs:selector/@xpath [136],
xs:simpleType/@final [253],
xs:simpleType/@name [253],
xs:topLevelAttribute/@name [256],
xs:topLevelComplexType/@name [260],
xs:topLevelElement/@name [264],
xs:topLevelSimpleType/@name [267],
xs:whiteSpace/@value [157],
xs:wildcard/@namespace [270],
xs:wildcard/@processContents [270]

Known Usage Locations

- **In derivations of other global types (10):**

  xs:NMTOKEN [316] (as restriction base),
  xs:Name [309] (as restriction base),
  xs:blockSet [276] (as restriction base),
  xs:derivationSet [286] (as restriction base),
  xs:fullDerivationSet [294] (as restriction base),
  xs:language [307] (as restriction base),
  xs:namespaceList [311] (as restriction base),
  xs:namespaceList [311] (as restriction base),
  xs:public [326] (as restriction base),
  xs:simpleDerivationSet [331] (as restriction base)

- **As direct type of attributes within elements (1):**

  xs:schema/@version [20]

- **In derivations of anonymous types of attributes within elements (2):**

  xs:selector/@xpath [136] (as restriction base)

xs:field/@xpath [83] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#token

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └ xs:string [333] (restriction)
      └ xs:normalizedString [322] (restriction)
          └ xs:token
```

Derivation: restriction of `xs:normalizedString`
Facets: **whiteSpace:** `collapse`

XML Source

```
<xs:simpleType id="token" name="token">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#token"/>
  </xs:annotation>
  <xs:restriction base="xs:normalizedString">
    <xs:whiteSpace id="token.whiteSpace" value="collapse"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:typeDerivationControl"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [338]
Used: at 1 location

Simple Content Model

enumeration of xs:NMTOKEN

Simple Content Restrictions:

Enumeration: "extension", "restriction", "list", "union"

Known Direct Subtypes (1):

xs:fullDerivationSet [294]

All Direct / Indirect Based Attributes (1):

xs:schema/@finalDefault [19]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:fullDerivationSet [294] (as list item type)

Annotation

A utility type, not for public use

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:NMTOKEN [316] (restriction)
                  └xs:derivationControl [284] (restriction)
                      └xs:typeDerivationControl
```

Derivation: restriction of xs:derivationControl
Facets: **enumeration:** "extension", "restriction", "list", "union"

XML Source

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

simpleType "xs:unsignedByte"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [339]
Used: never

Simple Content Model

xs:unsignedByte

Simple Content Restrictions:

MaxInclusive: 255

Annotation

See: http://www.w3.org/TR/xmlschema-2/#unsignedByte

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:nonNegativeInteger [319] (restriction)
              └xs:unsignedLong [341] (restriction)
                  └xs:unsignedInt [340] (restriction)
                      └xs:unsignedShort [342] (restriction)
                          └xs:unsignedByte
```

Derivation: restriction of xs:unsignedShort
Facets: **maxInclusive:** 255

XML Source

```
<xs:simpleType id="unsignedByte" name="unsignedByte">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedByte"/>
  </xs:annotation>
  <xs:restriction base="xs:unsignedShort">
    <xs:maxInclusive id="unsignedByte.maxInclusive" value="255"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:unsignedInt"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [340]
Used: at 1 location

Simple Content Model

xs:unsignedInt

Simple Content Restrictions:

MaxInclusive: 4294967295

Known Direct Subtypes (1):

xs:unsignedShort [342]

Known Indirect Subtypes (1):

xs:unsignedByte [339]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:unsignedShort [342] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#unsignedInt

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
    └xs:integer [306] (restriction)
      └xs:nonNegativeInteger [319] (restriction)
        └xs:unsignedLong [341] (restriction)
          └xs:unsignedInt
```

Derivation: restriction of xs:unsignedLong
Facets: **maxInclusive:** 4294967295

XML Source

```
<xs:simpleType id="unsignedInt" name="unsignedInt">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedInt"/>
  </xs:annotation>
  <xs:restriction base="xs:unsignedLong">
    <xs:maxInclusive id="unsignedInt.maxInclusive" value="4294967295"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:unsignedLong"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [341]
Used: at 1 location

Simple Content Model

xs:unsignedLong

Simple Content Restrictions:

MaxInclusive: 18446744073709551615

Known Direct Subtypes (1):

xs:unsignedInt [340]

Known Indirect Subtypes (2):

xs:unsignedByte [339], xs:unsignedShort [342]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:unsignedInt [340] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#unsignedLong

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
      └xs:integer [306] (restriction)
          └xs:nonNegativeInteger [319] (restriction)
              └xs:unsignedLong
```

Derivation: restriction of xs:nonNegativeInteger
Facets: **maxInclusive:** 18446744073709551615

XML Source

```
<xs:simpleType id="unsignedLong" name="unsignedLong">
  <xs:annotation>
    <xs:appinfo>
      <hfp:hasProperty name="bounded" value="true"/>
      <hfp:hasProperty name="cardinality" value="finite"/>
    </xs:appinfo>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedLong"/>
  </xs:annotation>
  <xs:restriction base="xs:nonNegativeInteger">
    <xs:maxInclusive id="unsignedLong.maxInclusive" value="18446744073709551615"/>
  </xs:restriction>
</xs:simpleType>
```

simpleType "xs:unsignedShort"

Namespace: http://www.w3.org/2001/XMLSchema
Defined: globally in XMLSchema.xsd; see XML source [342]
Used: at 1 location

Simple Content Model

xs:unsignedShort

Simple Content Restrictions:

MaxInclusive: 65535

Known Direct Subtypes (1):

xs:unsignedByte [339]

Known Usage Locations

- **In derivations of other global types (1):**

  xs:unsignedByte [339] (as restriction base)

Annotation

See: http://www.w3.org/TR/xmlschema-2/#unsignedShort

Type Definition Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:decimal [282] (restriction)
    └xs:integer [306] (restriction)
      └xs:nonNegativeInteger [319] (restriction)
        └xs:unsignedLong [341] (restriction)
          └xs:unsignedInt [340] (restriction)
            └xs:unsignedShort
```

Derivation: restriction of xs:unsignedInt
Facets: **maxInclusive:** 65535

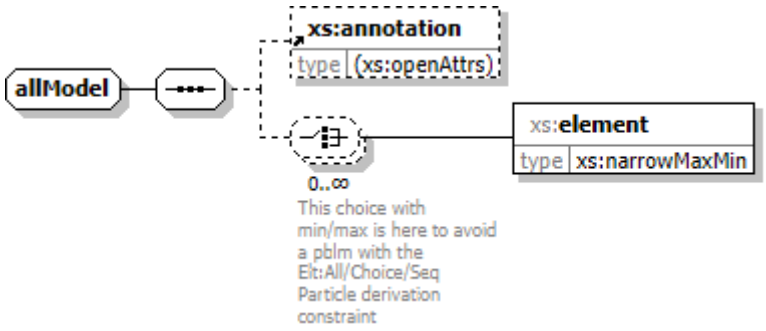
XML Source

```
<xs:simpleType id="unsignedShort" name="unsignedShort">
  <xs:annotation>
    <xs:documentation source="http://www.w3.org/TR/xmlschema-2/#unsignedShort"/>
  </xs:annotation>
  <xs:restriction base="xs:unsignedInt">
    <xs:maxInclusive id="unsignedShort.maxInclusive" value="65535"/>
  </xs:restriction>
</xs:simpleType>
```

group "xs:allModel"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 2 elements
Defined: globally in XMLSchema.xsd; see XML source [343]
Used: at 2 locations

Component Diagram



Complex Content Model

xs:annotation?, xs:element*

Known Usage Locations

- **In definitions of global complexTypes (1):**

  xs:all [159]

- **In definitions of anonymous complexTypes of elements (1):**

  xs:all (in xs:group) [25]

XML Source

```
<xs:group name="allModel">
  <xs:sequence>
    <xs:element minOccurs="0" ref="xs:annotation"/>
    <xs:choice maxOccurs="unbounded" minOccurs="0">
      <xs:annotation>
        <xs:documentation>
          This choice with min/max is here to
          avoid a pblm with the Elt:All/Choice/Seq
          Particle derivation constraint
        </xs:documentation>
      </xs:annotation>
      <xs:element name="element" type="xs:narrowMaxMin"/>
    </xs:choice>
  </xs:sequence>
</xs:group>
```

Content Element Detail (all declarations; 2/2)

xs:annotation [27]

Type: anonymous complexType (extension of xs:openAttrs) [28], complex content
Defined: by reference within (this) xs:allModel group

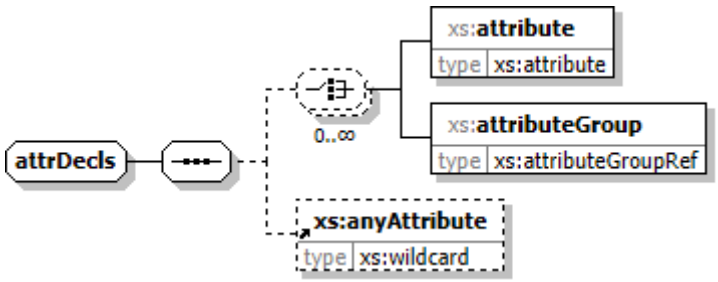
xs:element [71]

Type: xs:narrowMaxMin [224], complex content
Defined: locally within (this) xs:allModel group

group "xs:attrDecls"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 3 elements
Defined: globally in XMLSchema.xsd; see XML source [344]
Used: at 8 locations

Component Diagram



Complex Content Model

(xs:attribute | xs:attributeGroup)*, xs:anyAttribute?

Known Usage Locations

- **In definitions of other model groups (1):**

  xs:complexTypeModel [345]

- **In definitions of global complexTypes (7):**

  xs:attributeGroup [171], xs:complexRestrictionType [176], xs:extensionType [192], xs:namedAttributeGroup [218], xs:restrictionType [238], xs:simpleExtensionType [245], xs:simpleRestrictionType [248]

XML Source

```
<xs:group name="attrDecls">
  <xs:sequence>
    <xs:choice maxOccurs="unbounded" minOccurs="0">
      <xs:element name="attribute" type="xs:attribute"/>
      <xs:element name="attributeGroup" type="xs:attributeGroupRef"/>
    </xs:choice>
    <xs:element minOccurs="0" ref="xs:anyAttribute"/>
  </xs:sequence>
</xs:group>
```

Content Element Detail (all declarations; 3/3)

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within (this) xs:attrDecls group

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within (this) xs:attrDecls group

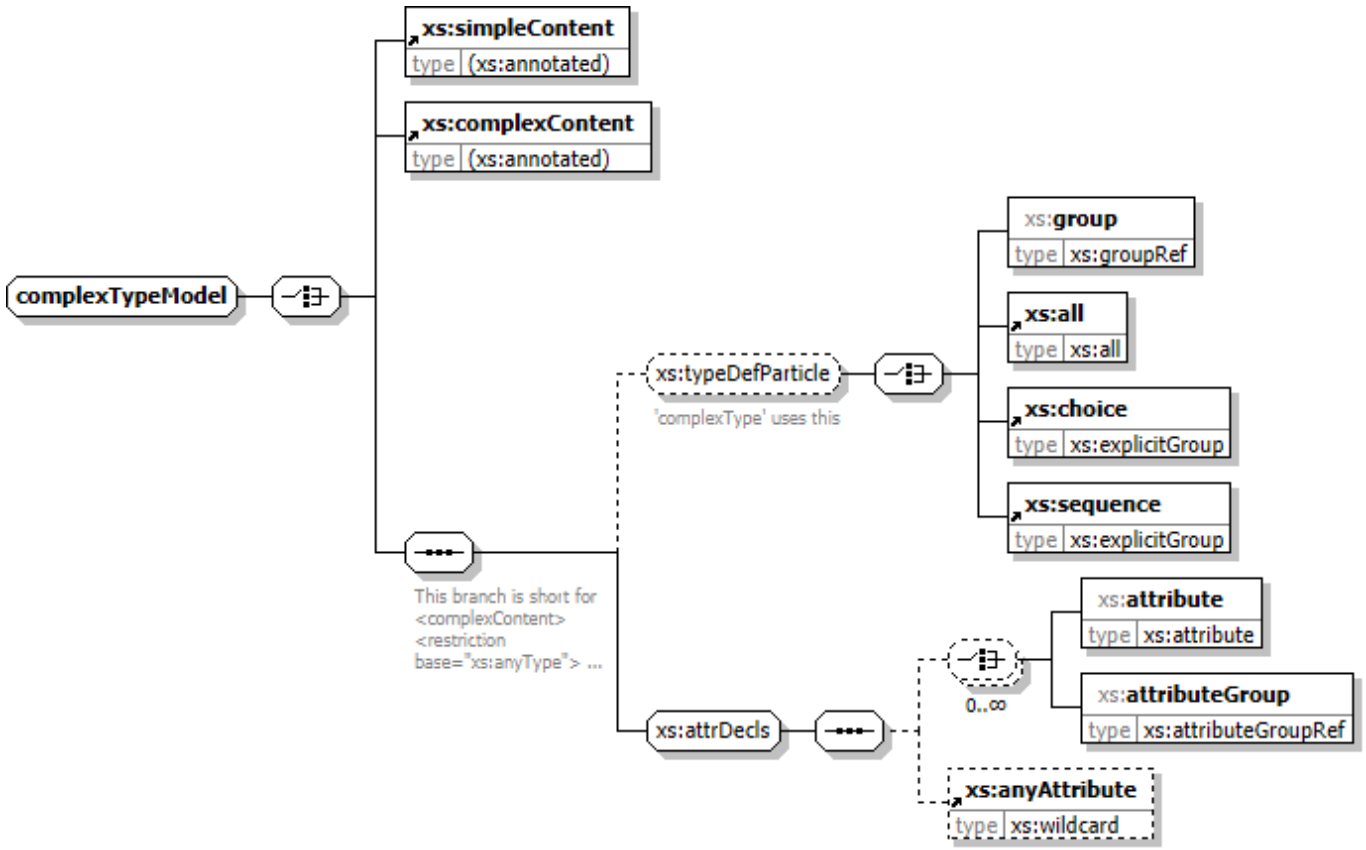
xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within (this) xs:attrDecls group

group "xs:complexTypeModel"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 9 elements
Defined: globally in XMLSchema.xsd; see XML source [345]
Used: at 3 locations

Component Diagram



Complex Content Model

xs:simpleContent | xs:complexContent | ((xs:group | xs:all | xs:choice | xs:sequence)?, (xs:attribute | xs:attributeGroup)*, xs:anyAttribute?)

Known Usage Locations

- **In definitions of global complexTypes (3):**

  xs:complexType [179], xs:localComplexType [206], xs:topLevelComplexType [258]

XML Source

```
<xs:group name="complexTypeModel">
  <xs:choice>
    <xs:element ref="xs:simpleContent"/>
    <xs:element ref="xs:complexContent"/>
    <xs:sequence>
      <xs:annotation>
        <xs:documentation>
          This branch is short for
          &lt;complexContent&gt;
          &lt;restriction base="xs:anyType"&gt;
          ...
          &lt;/restriction&gt;
          &lt;/complexContent&gt;
        </xs:documentation>
      </xs:annotation>
```

```
      <xs:group minOccurs="0" ref="xs:typeDefParticle"/>
      <xs:group ref="xs:attrDecls"/>
    </xs:sequence>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 9/9)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:anyAttribute [33]

Type: xs:wildcard [269], complex content
Defined: by reference within xs:attrDecls group

---

xs:attribute [39]

Type: xs:attribute [167], complex content
Defined: locally within xs:attrDecls group

---

xs:attributeGroup [44]

Type: xs:attributeGroupRef [174], complex content
Defined: locally within xs:attrDecls group

---

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

---

xs:complexContent [51]

Type: anonymous complexType (extension of xs:annotated) [52], complex content
Defined: by reference within (this) xs:complexTypeModel group

---

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within xs:typeDefParticle group

---

xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within xs:typeDefParticle group

---

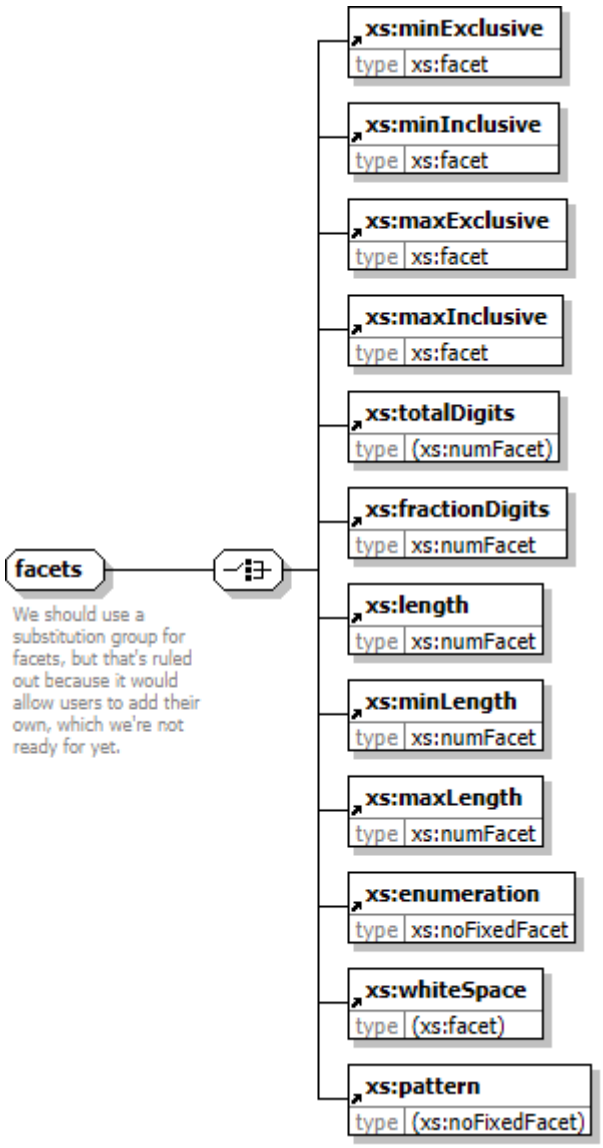
xs:simpleContent [143]

Type: anonymous complexType (extension of xs:annotated) [144], complex content
Defined: by reference within (this) xs:complexTypeModel group

group "xs:facets"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 12 elements
Defined: globally in XMLSchema.xsd; see XML source [348]
Used: at 1 location

Component Diagram



Complex Content Model

xs:minExclusive | xs:minInclusive | xs:maxExclusive | xs:maxInclusive | xs:totalDigits | xs:fractionDigits | xs:length | xs:minLength | xs:maxLength | xs:enumeration | xs:whiteSpace | xs:pattern

Known Usage Locations

- **In definitions of other model groups (1):**

  xs:simpleRestrictionModel [361]

Annotation

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.

XML Source

```
<xs:group name="facets">
  <xs:annotation>
    <xs:documentation>
      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.
    </xs:documentation>
  </xs:annotation>
  <xs:choice>
    <xs:element ref="xs:minExclusive"/>
    <xs:element ref="xs:minInclusive"/>
    <xs:element ref="xs:maxExclusive"/>
    <xs:element ref="xs:maxInclusive"/>
    <xs:element ref="xs:totalDigits"/>
    <xs:element ref="xs:fractionDigits"/>
    <xs:element ref="xs:length"/>
    <xs:element ref="xs:minLength"/>
    <xs:element ref="xs:maxLength"/>
    <xs:element ref="xs:enumeration"/>
    <xs:element ref="xs:whiteSpace"/>
    <xs:element ref="xs:pattern"/>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 12/12)

xs:enumeration [75]

Type: xs:noFixedFacet [229], complex content
Defined: by reference within (this) xs:facets group

xs:fractionDigits [85]

Type: xs:numFacet [231], complex content
Defined: by reference within (this) xs:facets group

xs:length [100]

Type: xs:numFacet [231], complex content
Defined: by reference within (this) xs:facets group

xs:maxExclusive [104]

Type: xs:facet [195], complex content
Defined: by reference within (this) xs:facets group

xs:maxInclusive [106]

Type: xs:facet [195], complex content
Defined: by reference within (this) xs:facets group

xs:maxLength [108]

Type: xs:numFacet [231], complex content
Defined: by reference within (this) xs:facets group

xs:minExclusive [110]

Type: xs:facet [195], complex content
Defined: by reference within (this) xs:facets group

xs:minInclusive [112]

Type: xs:facet [195], complex content
Defined: by reference within (this) xs:facets group

xs:minLength [114]

Type: xs:numFacet [231], complex content
Defined: by reference within (this) xs:facets group

xs:pattern [119]

Type: anonymous complexType (restriction of xs:noFixedFacet) [120], complex content
Defined: by reference within (this) xs:facets group

xs:totalDigits [149]

Type: anonymous complexType (restriction of xs:numFacet) [150], complex content
Defined: by reference within (this) xs:facets group

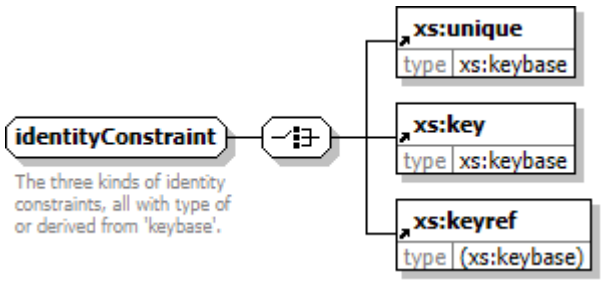
xs:whiteSpace [156]

Type: anonymous complexType (restriction of xs:facet) [157], complex content
Defined: by reference within (this) xs:facets group

group "xs:identityConstraint"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 3 elements
Defined: globally in XMLSchema.xsd; see XML source [350]
Used: at 4 locations

Component Diagram



Complex Content Model

xs:unique | xs:key | xs:keyref

Known Usage Locations

- **In definitions of global complexTypes (4):**

  xs:element [183], xs:localElement [210], xs:narrowMaxMin [224], xs:topLevelElement [262]

Annotation

The three kinds of identity constraints, all with type of or derived from 'keybase'.

XML Source

```
<xs:group name="identityConstraint">
  <xs:annotation>
    <xs:documentation>
      The three kinds of identity constraints, all with
      type of or derived from 'keybase'.
    </xs:documentation>
  </xs:annotation>
  <xs:choice>
    <xs:element ref="xs:unique"/>
    <xs:element ref="xs:key"/>
    <xs:element ref="xs:keyref"/>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 3/3)

xs:key [95]

Type: xs:keybase [204], complex content
Defined: by reference within (this) xs:identityConstraint group

xs:keyref [97]

Type: anonymous complexType (extension of xs:keybase) [98], complex content
Defined: by reference within (this) xs:identityConstraint group

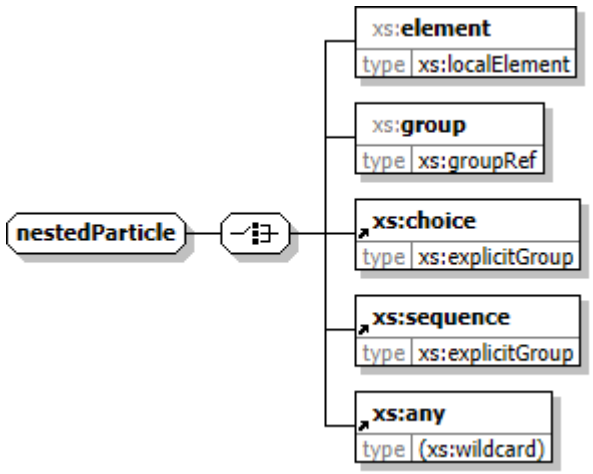
xs:unique [154]

Type: xs:keybase [204], complex content
Defined: by reference within (this) xs:identityConstraint group

group "xs:nestedParticle"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 5 elements
Defined: globally in XMLSchema.xsd; see XML source [352]
Used: at 2 locations

Component Diagram



Complex Content Model

xs:element | xs:group | xs:choice | xs:sequence | xs:any

Known Usage Locations

- **In definitions of global complexTypes (2):**

  xs:explicitGroup [188], xs:simpleExplicitGroup [242]

XML Source

```
<xs:group name="nestedParticle">
  <xs:choice>
    <xs:element name="element" type="xs:localElement"/>
    <xs:element name="group" type="xs:groupRef"/>
    <xs:element ref="xs:choice"/>
    <xs:element ref="xs:sequence"/>
    <xs:element ref="xs:any"/>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 5/5)

xs:any [30]

Type: anonymous complexType (extension of xs:wildcard) [31], complex content
Defined: by reference within (this) xs:nestedParticle group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within (this) xs:nestedParticle group

xs:element [67]

Type: xs:localElement [210], complex content
Defined: locally within (this) xs:nestedParticle group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within (this) xs:nestedParticle group

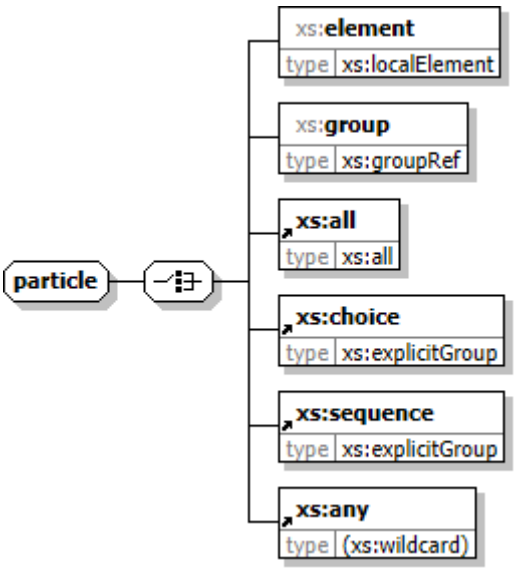
xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within (this) xs:nestedParticle group

group "xs:particle"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 6 elements
Defined: globally in XMLSchema.xsd; see XML source [354]
Used: at 1 location

Component Diagram



Complex Content Model

xs:element | xs:group | xs:all | xs:choice | xs:sequence | xs:any

Known Usage Locations

- **In definitions of global complexTypes (1):**

  xs:group [197]

XML Source

```
<xs:group name="particle">
  <xs:choice>
    <xs:element name="element" type="xs:localElement"/>
    <xs:element name="group" type="xs:groupRef"/>
    <xs:element ref="xs:all"/>
    <xs:element ref="xs:choice"/>
    <xs:element ref="xs:sequence"/>
    <xs:element ref="xs:any"/>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 6/6)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within (this) xs:particle group

xs:any [30]

Type: anonymous complexType (extension of xs:wildcard) [31], complex content
Defined: by reference within (this) xs:particle group

xs:choice [46]

Type: xs:explicitGroup [188], complex content
Defined: by reference within (this) xs:particle group

xs:element [67]

Type: xs:localElement [210], complex content
Defined: locally within (this) xs:particle group

xs:group [89]

Type: xs:groupRef [201], complex content
Defined: locally within (this) xs:particle group

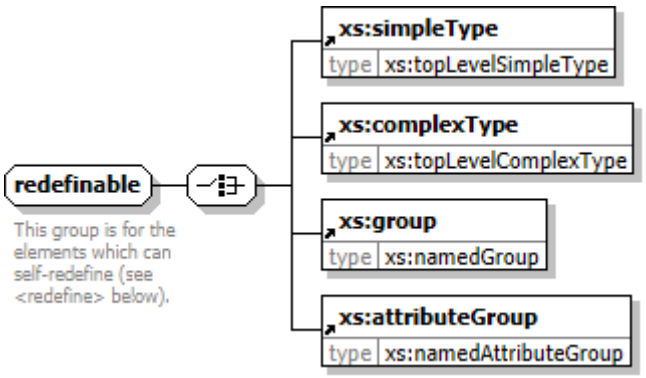
xs:sequence [138]

Type: xs:explicitGroup [188], complex content
Defined: by reference within (this) xs:particle group

group "xs:redefinable"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 4 elements
Defined: globally in XMLSchema.xsd; see XML source [356]
Used: at 2 locations

Component Diagram



Complex Content Model

xs:simpleType | xs:complexType | xs:group | xs:attributeGroup

Known Usage Locations

- **In definitions of other model groups (1):**

  xs:schemaTop [358]

- **In definitions of anonymous complexTypes of elements (1):**

  xs:redefine [121]

Annotation

This group is for the
elements which can self-redefine (see <redefine> below).

XML Source

```
<xs:group name="redefinable">
  <xs:annotation>
    <xs:documentation>
      This group is for the
      elements which can self-redefine (see &lt;redefine&gt; below).
    </xs:documentation>
  </xs:annotation>
  <xs:choice>
    <xs:element ref="xs:simpleType"/>
    <xs:element ref="xs:complexType"/>
    <xs:element ref="xs:group"/>
    <xs:element ref="xs:attributeGroup"/>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 4/4)

xs:attributeGroup [42]

Type: xs:namedAttributeGroup [218], complex content
Defined: by reference within (this) xs:redefinable group

xs:complexType [54]

Type: xs:topLevelComplexType [258], complex content
Defined: by reference within (this) xs:redefinable group

xs:group [87]

Type: xs:namedGroup [221], complex content
Defined: by reference within (this) xs:redefinable group

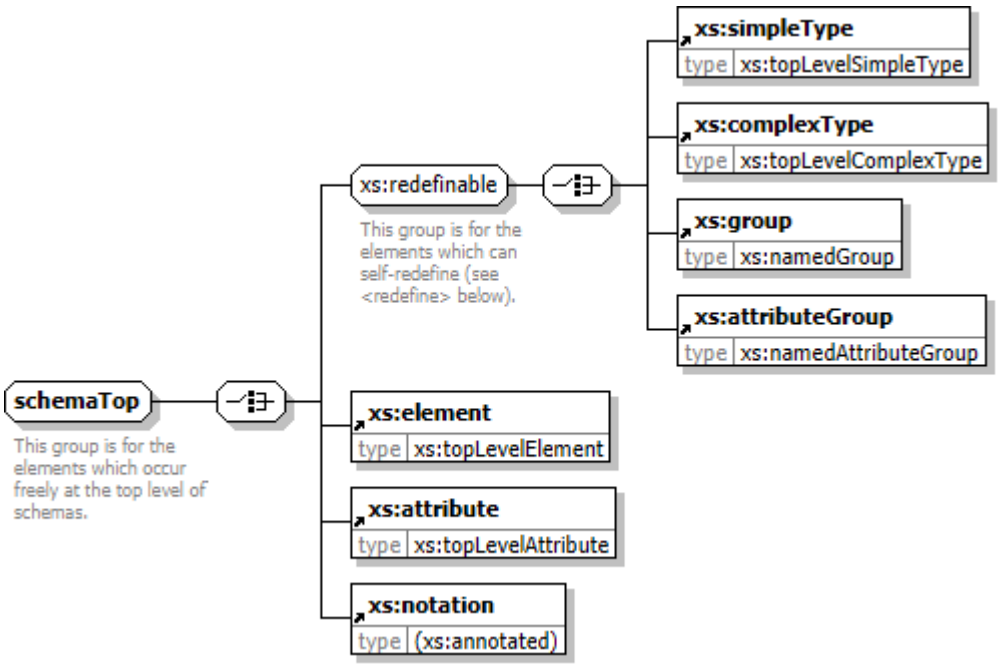
xs:simpleType [145]

Type: xs:topLevelSimpleType [266], complex content
Defined: by reference within (this) xs:redefinable group

group "xs:schemaTop"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 7 elements
Defined: globally in XMLSchema.xsd; see XML source [358]
Used: at 1 location

Component Diagram



Complex Content Model

xs:simpleType | xs:complexType | xs:group | xs:attributeGroup | xs:element | xs:attribute | xs:notation

Known Usage Locations

- **In definitions of anonymous complexTypes of elements (1):**

  xs:schema [17]

Annotation

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.

XML Source

```
<xs:group name="schemaTop">
  <xs:annotation>
    <xs:documentation>
      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.
    </xs:documentation>
  </xs:annotation>
  <xs:choice>
    <xs:group ref="xs:redefinable"/>
    <xs:element ref="xs:element"/>
    <xs:element ref="xs:attribute"/>
    <xs:element ref="xs:notation"/>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 7/7)

xs:attribute [37]

Type: xs:topLevelAttribute [255], complex content
Defined: by reference within (this) xs:schemaTop group

---

xs:attributeGroup [42]

Type: xs:namedAttributeGroup [218], complex content
Defined: by reference within xs:redefinable group

---

xs:complexType [54]

Type: xs:topLevelComplexType [258], complex content
Defined: by reference within xs:redefinable group

---

xs:element [63]

Type: xs:topLevelElement [262], complex content
Defined: by reference within (this) xs:schemaTop group

---

xs:group [87]

Type: xs:namedGroup [221], complex content
Defined: by reference within xs:redefinable group

---

xs:notation [116]

Type: anonymous complexType (extension of xs:annotated) [117], complex content
Defined: by reference within (this) xs:schemaTop group

---

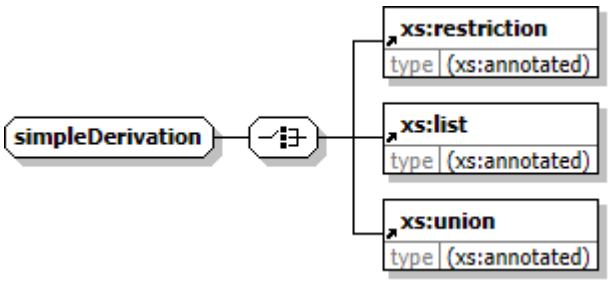
xs:simpleType [145]

Type: xs:topLevelSimpleType [266], complex content
Defined: by reference within xs:redefinable group

group "xs:simpleDerivation"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 3 elements
Defined: globally in XMLSchema.xsd; see XML source [360]
Used: at 3 locations

Component Diagram



Complex Content Model

xs:restriction | xs:list | xs:union

Known Usage Locations

- **In definitions of global complexTypes (3):**

  xs:localSimpleType [215], *xs:simpleType* [252], xs:topLevelSimpleType [266]

XML Source

```
<xs:group name="simpleDerivation">
  <xs:choice>
    <xs:element ref="xs:restriction"/>
    <xs:element ref="xs:list"/>
    <xs:element ref="xs:union"/>
  </xs:choice>
</xs:group>
```

Content Element Detail (all declarations; 3/3)

xs:list [102]

Type: anonymous complexType (extension of xs:annotated) [103], complex content
Defined: by reference within (this) xs:simpleDerivation group

xs:restriction [124]

Type: anonymous complexType (extension of xs:annotated) [125], complex content
Defined: by reference within (this) xs:simpleDerivation group

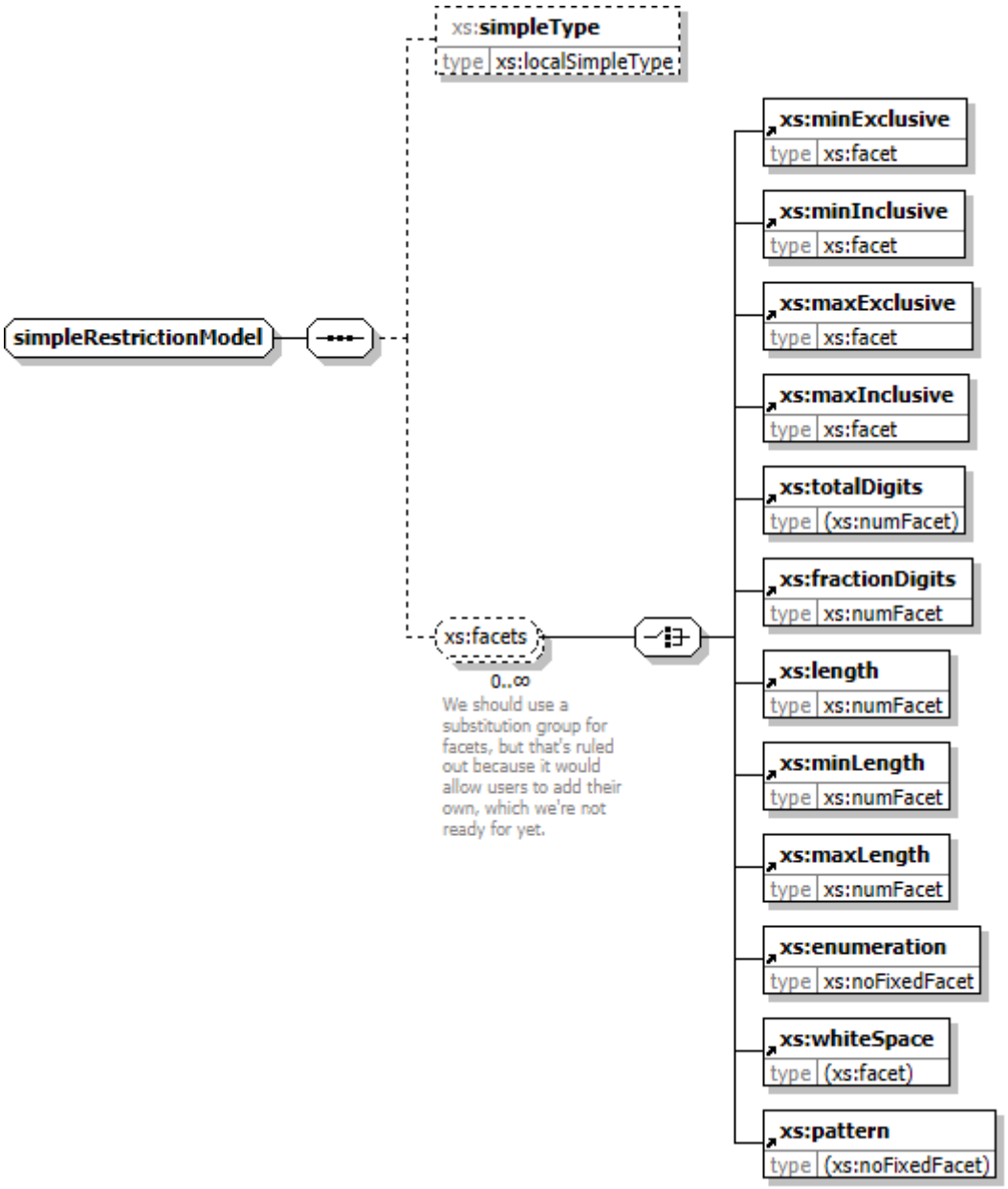
xs:union [151]

Type: anonymous complexType (extension of xs:annotated) [152], complex content
Defined: by reference within (this) xs:simpleDerivation group

group "xs:simpleRestrictionModel"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 13 elements
Defined: globally in XMLSchema.xsd; see XML source [362]
Used: at 3 locations

Component Diagram



Complex Content Model

xs:simpleType?, (xs:minExclusive | xs:minInclusive | xs:maxExclusive | xs:maxInclusive | xs:totalDigits | xs:fractionDigits | xs:length | xs:minLength | xs:maxLength | xs:enumeration | xs:whiteSpace | xs:pattern)*

Known Usage Locations

- **In definitions of global complexTypes (2):**

  xs:restrictionType [238], xs:simpleRestrictionType [248]

- **In definitions of anonymous complexTypes of elements (1):**

xs:restriction [124]

XML Source

```
<xs:group name="simpleRestrictionModel">
  <xs:sequence>
    <xs:element minOccurs="0" name="simpleType" type="xs:localSimpleType"/>
    <xs:group maxOccurs="unbounded" minOccurs="0" ref="xs:facets"/>
  </xs:sequence>
</xs:group>
```

Content Element Detail (all declarations; 13/13)

xs:enumeration [75]

Type: xs:noFixedFacet [229], complex content
Defined: by reference within xs:facets group

---

xs:fractionDigits [85]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

---

xs:length [100]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

---

xs:maxExclusive [104]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

---

xs:maxInclusive [106]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

---

xs:maxLength [108]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

---

xs:minExclusive [110]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

---

xs:minInclusive [112]

Type: xs:facet [195], complex content
Defined: by reference within xs:facets group

---

xs:minLength [114]

Type: xs:numFacet [231], complex content
Defined: by reference within xs:facets group

---

xs:pattern [119]

Type: anonymous complexType (restriction of xs:noFixedFacet) [120], complex content

Defined: by reference within xs:facets group

---

xs:simpleType [147]

Type: xs:localSimpleType [215], complex content
Defined: locally within (this) xs:simpleRestrictionModel group

---

xs:totalDigits [149]

Type: anonymous complexType (restriction of xs:numFacet) [150], complex content
Defined: by reference within xs:facets group

---

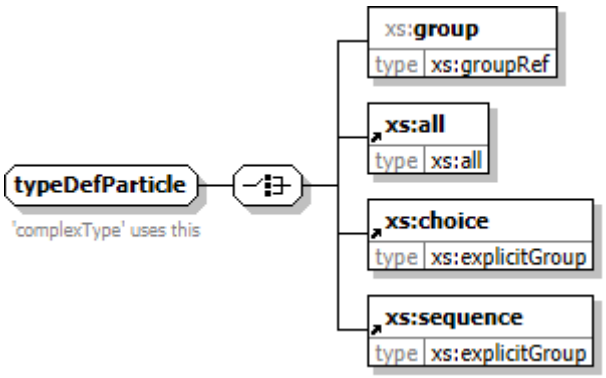
xs:whiteSpace [156]

Type: anonymous complexType (restriction of xs:facet) [157], complex content
Defined: by reference within xs:facets group

group "xs:typeDefParticle"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 4 elements
Defined: globally in XMLSchema.xsd; see XML source [364]
Used: at 4 locations

Component Diagram



Complex Content Model

xs:group | xs:all | xs:choice | xs:sequence

Known Usage Locations

- **In definitions of other model groups (1):**

  xs:complexTypeModel [345]

- **In definitions of global complexTypes (3):**

  xs:complexRestrictionType [176], xs:extensionType [192], xs:restrictionType [238]

Annotation

'complexType' uses this

XML Source

```
<xs:group name="typeDefParticle">
  <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>
```

Content Element Detail (all declarations; 4/4)

xs:all [22]

Type: xs:all [159], complex content
Defined: by reference within (this) xs:typeDefParticle group

`xs:choice` [46]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within (this) `xs:typeDefParticle` group

`xs:group` [89]

Type: `xs:groupRef` [201], complex content
Defined: locally within (this) `xs:typeDefParticle` group

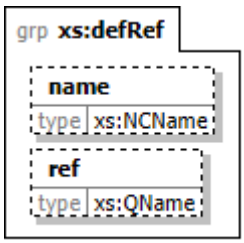
`xs:sequence` [138]

Type: `xs:explicitGroup` [188], complex content
Defined: by reference within (this) `xs:typeDefParticle` group

attributeGroup "xs:defRef"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 2 attributes
Defined: globally in XMLSchema.xsd; see XML source [366]
Used: at 4 locations

Component Diagram



for element, group and attributeGroup, which both define and reference

XML Representation Summary

```
<...
      name  = xs:NCName
      ref   = xs:QName
...>
```

Known Usage Locations

- **In definitions of global complexTypes (4):**

  xs:attribute [167], *xs:attributeGroup* [171], *xs:element* [183], *xs:group* [197]

Annotation

for element, group and attributeGroup,
which both define and reference

XML Source

```
<xs:attributeGroup name="defRef">
  <xs:annotation>
    <xs:documentation>
      for element, group and attributeGroup,
      which both define and reference
    </xs:documentation>
  </xs:annotation>
  <xs:attribute name="name" type="xs:NCName"/>
  <xs:attribute name="ref" type="xs:QName"/>
</xs:attributeGroup>
```

Attribute Detail (all declarations; 2/2)

name

Type: xs:NCName [313]
Use: optional
Defined: locally within (this) xs:defRef attributeGroup

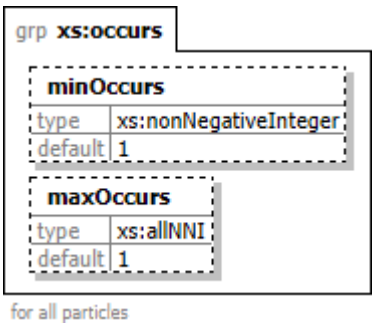
ref

Type: xs:QName [327]
Use: optional
Defined: locally within (this) xs:defRef attributeGroup

attributeGroup "xs:occurs"

Namespace: http://www.w3.org/2001/XMLSchema
Content: 2 attributes
Defined: globally in XMLSchema.xsd; see XML source [367]
Used: at 3 locations

Component Diagram



XML Representation Summary

```
<...
    minOccurs = xs:nonNegativeInteger : "1"
    maxOccurs = (xs:nonNegativeInteger | "unbounded") : "1"
...>
```

Known Usage Locations

- **In definitions of global complexTypes (2):**

  xs:element [183], *xs:group* [197]

- **In definitions of anonymous complexTypes of elements (1):**

  xs:any [30]

Annotation

for all particles

XML Source

```
<xs:attributeGroup name="occurs">
  <xs:annotation>
    <xs:documentation>
      for all particles
    </xs:documentation>
  </xs:annotation>
  <xs:attribute default="1" name="minOccurs" type="xs:nonNegativeInteger" use="optional"/>
  <xs:attribute default="1" name="maxOccurs" type="xs:allNNI" use="optional"/>
</xs:attributeGroup>
```

Attribute Detail (all declarations; 2/2)

maxOccurs

Type: xs:allNNI [272]
Use: optional
Defined: locally within (this) xs:occurs attributeGroup

Attribute Value

```
xs:nonNegativeInteger | "unbounded"
```

Default: "1"

minOccurs

Type: xs:nonNegativeInteger [319]
Use: optional
Defined: locally within (this) xs:occurs attributeGroup

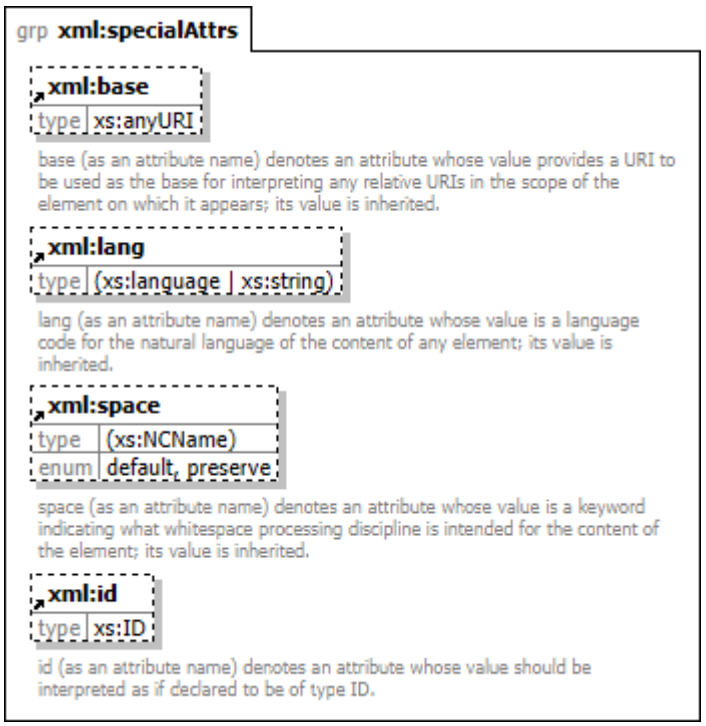
Attribute Value

Default: "1"

attributeGroup "xml:specialAttrs"

Namespace: http://www.w3.org/XML/1998/namespace
Content: 4 attributes
Defined: globally in xml.xsd; see XML source [369]
Used: never

Component Diagram



XML Representation Summary

```
<...
    xml:base  = xs:anyURI
    xml:lang  = (xs:language | "")
    xml:space = ("default" | "preserve")
    xml:id    = xs:ID
...>
```

XML Source

```
<xs:attributeGroup name="specialAttrs">
  <xs:attribute ref="xml:base"/>
  <xs:attribute ref="xml:lang"/>
  <xs:attribute ref="xml:space"/>
  <xs:attribute ref="xml:id"/>
</xs:attributeGroup>
```

Attribute Detail (all declarations; 4/4)

xml:base [371]

Type: xs:anyURI [273]
Use: optional
Defined: by reference within (this) xml:specialAttrs attributeGroup

xml:id [372]

Type: xs:ID [302]
Use: optional
Defined: by reference within (this) xml:specialAttrs attributeGroup

xml:lang [373]

Type: anonymous simpleType (union of (xs:language | restriction of xs:string)) [373]
Use: optional
Defined: by reference within (this) xml:specialAttrs attributeGroup

Attribute Value

```
xs:language | ""
```

xml:space [375]

Type: anonymous simpleType (restriction of xs:NCName) [375]
Use: optional
Defined: by reference within (this) xml:specialAttrs attributeGroup

Attribute Value

```
enumeration of xs:NCName
```

Enumeration: "default", "preserve"

attribute "xml:base" (global)

Namespace: http://www.w3.org/XML/1998/namespace
Type: xs:anyURI [273]
Defined: globally in xml.xsd; see XML source [371]
Used: at 1 location

XML Representation Summary

```
<...
     xml:base = xs:anyURI
...>
```

Attribute Value Detail:

WhiteSpace: collapse

Known Usage Locations

- **In definitions of attributeGroups (1):**

  xml:specialAttrs [369]

Annotation

base (as an attribute name)

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.

See http://www.w3.org/TR/xmlbase/ for information about this attribute.

XML Source

```
<xs:attribute name="base" type="xs:anyURI">
  <xs:annotation>
    <xs:documentation>
      <div>
        <h3>base (as an attribute name)</h3>
        <p>
          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.
        </p>
        <p>
          See
          <a href="http://www.w3.org/TR/xmlbase/">http://www.w3.org/TR/xmlbase/</a>
          for information about this attribute.
        </p>
      </div>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
```

attribute "xml:id" (global)

Namespace: http://www.w3.org/XML/1998/namespace
Type: xs:ID [302]
Defined: globally in xml.xsd; see XML source [372]
Used: at 1 location

XML Representation Summary

```
<...
      xml:id = xs:ID
...>
```

Known Usage Locations

- **In definitions of attributeGroups (1):**

  xml:specialAttrs [369]

Annotation

id (as an attribute name)

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.

See http://www.w3.org/TR/xml-id/ for information about this attribute.

XML Source

```
<xs:attribute name="id" type="xs:ID">
  <xs:annotation>
    <xs:documentation>
      <div>
        <h3>id (as an attribute name)</h3>
        <p>
          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.
        </p>
        <p>
          See
          <a href="http://www.w3.org/TR/xml-id/">http://www.w3.org/TR/xml-id/</a>
          for information about this attribute.
        </p>
      </div>
    </xs:documentation>
  </xs:annotation>
</xs:attribute>
```

attribute "xml:lang" (global)

Namespace: http://www.w3.org/XML/1998/namespace
Type: anonymous simpleType (union of (xs:language | restriction of xs:string)) [373]
Defined: globally in xml.xsd; see XML source [373]
Used: at 3 locations

XML Representation Summary

```
<...
    xml:lang = (xs:language | "")
...>
```

Known Usage Locations

- **In definitions of attributeGroups (1):**

  xml:specialAttrs [370]

- **In definitions of anonymous complexTypes of elements (2):**

  xs:documentation [62], xs:schema [20]

Annotation

lang (as an attribute name)

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.

Notes

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.

See BCP 47 at http://www.rfc-editor.org/rfc/bcp/bcp47.txt and the IANA language subtag registry at http://www.iana.org/assignments/language-subtag-registry for further information.

The union allows for the 'un-declaration' of xml:lang with the empty string.

Anonymous Type Detail

Type Derivation Tree

union of (xs:language | restriction of xs:string)
  └ **simpleType**

Derivation: by union

Member Types

1. xs:language
2. anonymous simpleType:

   Derivation: restriction of xs:string
   Facets: **enumeration:** ""

XML Source

```
<xs:attribute name="lang">
  <xs:annotation>
    <xs: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-registry
            </a>
            for further information.
          </p>
          <p>
            The union allows for the 'un-declaration' of xml:lang with
            the empty string.
          </p>
        </div>
      </xs:documentation>
    </xs:annotation>
    <xs:simpleType>
      <xs:union memberTypes="xs:language">
        <xs:simpleType>
          <xs:restriction base="xs:string">
            <xs:enumeration value=""/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
```

attribute "xml:space" (global)

Namespace: http://www.w3.org/XML/1998/namespace
Type: anonymous simpleType (restriction of xs:NCName) [375]
Defined: globally in xml.xsd; see XML source [375]
Used: at 1 location

XML Representation Summary

```
<...
    xml:space = enumeration of xs:NCName
...>
```

Attribute Value Detail:

Enumeration: "default", "preserve"

Known Usage Locations

- **In definitions of attributeGroups (1):**

  xml:specialAttrs [370]

Annotation

space (as an attribute name)

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.

Anonymous Type Detail

Type Derivation Tree

```
xs:anySimpleType (restriction)
  └xs:string [333] (restriction)
      └xs:normalizedString [322] (restriction)
          └xs:token [336] (restriction)
              └xs:Name [309] (restriction)
                  └xs:NCName [313] (restriction)
                      └simpleType
```

Derivation: restriction of xs:NCName
Facets: **enumeration:** "default", "preserve"

XML Source

```
<xs:attribute name="space">
  <xs:annotation>
    <xs:documentation>
      <div>
        <h3>space (as an attribute name)</h3>
        <p>
          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.
        </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>
```

XML Schema "xml.xsd"

Target Namespace:
`http://www.w3.org/XML/1998/namespace`

Defined Components:
attribute groups (1), global attributes (4)

Default Namespace-Qualified Form:
Local Elements: unqualified; Local Attributes: unqualified

Schema Location:
http://www.w3.org/2001/xml.xsd

Imported by Schemas (1):
XMLSchema.xsd

Annotation

About the XML namespace

This schema document describes the XML namespace, in a form suitable for import by other schema documents.

See http://www.w3.org/XML/1998/namespace.html and http://www.w3.org/TR/REC-xml for information about this namespace.

Note that local names in this namespace are intended to be defined only by the World Wide Web Consortium or its subgroups. The names currently defined in this namespace are listed below. They should not be used with conflicting semantics by any Working Group, specification, or document instance.

See further below in this document for more information about how to refer to this schema document from your own XSD schema documents and about the namespace-versioning policy governing this schema document.

Father (in any context at all)

denotes Jon Bosak, the chair of the original XML Working Group. This name is reserved by the following decision of the W3C XML Plenary and XML Coordination groups:

> In appreciation for his vision, leadership and dedication the W3C XML Plenary on this 10th day of February, 2000, reserves for Jon Bosak in perpetuity the XML name "xml:Father".

About this schema document

This schema defines attributes and an attribute group suitable for use by schemas wishing to allow `xml:base`, `xml:lang`, `xml:space` or `xml:id` attributes on elements they define.

To enable this, such a schema must import this schema for the XML namespace, e.g. as follows:

```
<schema . . .>
 . . .
 <import namespace="http://www.w3.org/XML/1998/namespace"
            schemaLocation="http://www.w3.org/2001/xml.xsd"/>
```

or

```
 <import namespace="http://www.w3.org/XML/1998/namespace"
            schemaLocation="http://www.w3.org/2009/01/xml.xsd"/>
```

Subsequently, qualified reference to any of the attributes or the group defined below will have the desired effect, e.g.

```
<type . . .>
 . . .
 <attributeGroup ref="xml:specialAttrs"/>
```

will define a type which will schema-validate an instance element with any of those attributes.

Versioning policy for this schema document

In keeping with the XML Schema WG's standard versioning policy, this schema document will persist at http://www.w3.org/2009/01/xml.xsd.

At the date of issue it can also be found at http://www.w3.org/2001/xml.xsd.

The schema document at that URI may however change in the future, in order to remain compatible with the latest version of XML Schema itself, or with the XML namespace itself. In other words, if the XML Schema or XML namespaces change, the version of this document at http://www.w3.org/2001/xml.xsd will change accordingly; the version at http://www.w3.org/2009/01/xml.xsd will not change.

Previous dated (and unchanging) versions of this schema document are at:

- http://www.w3.org/2009/01/xml.xsd
- http://www.w3.org/2007/08/xml.xsd
- http://www.w3.org/2004/10/xml.xsd
- http://www.w3.org/2001/03/xml.xsd

XML Schema "XMLSchema.xsd"

Target Namespace:
`http://www.w3.org/2001/XMLSchema`

Version:
1.0

Defined Components:
elements (41 global + 28 local), complexTypes (35), simpleTypes (55), element groups (12), attribute groups (2)

Default Namespace-Qualified Form:
Local Elements: qualified; Local Attributes: unqualified

Default Block Attribute:
`"#all"` *(blocks all substitutions of elements and their types both through substitution groups and xsi:type attribute in instance XML documents)*

Schema Location:
http://www.w3.org/2001/XMLSchema.xsd

Imports Schemas (1):
xml.xsd

Annotation

Annotation 1:

Part 1 version: Id: structures.xsd,v 1.2 2004/01/15 11:34:25 ht Exp
Part 2 version: Id: datatypes.xsd,v 1.3 2004/01/23 18:11:13 ht Exp

Annotation 2:

The schema corresponding to this document is normative,
with respect to the syntactic constraints it expresses in the
XML Schema language. The documentation (within <documentation> elements)
below, is not normative, but rather highlights important aspects of
the W3C Recommendation of which this is a part

See: http://www.w3.org/TR/2004/PER-xmlschema-1-20040318/structures.html

Annotation 3:

The simpleType element and all of its members are defined
towards the end of this schema document

Annotation 4:

simple type for the value of the 'namespace' attr of
'any' and 'anyAttribute'

Annotation 5:

Value is
##any - - any non-conflicting WFXML/attribute at all

##other - - any non-conflicting WFXML/attribute from
namespace other than targetNS

##local - - any unqualified non-conflicting WFXML/attribute

one or - - any non-conflicting WFXML/attribute from
more URI the listed namespaces
references
(space separated)

##targetNamespace or ##local may appear in the above list, to
refer to the targetNamespace of the enclosing
schema or an absent targetNamespace respectively

Annotation 6:

notations for use within XML Schema schemas

Annotation 7:

First the built-in primitive datatypes. These definitions are for information only, the real built-in definitions are magic.

Annotation 8:

For each built-in datatype in this schema (both primitive and derived) can be uniquely addressed via a URI constructed as follows:
1) the base URI is the URI of the XML Schema namespace
2) the fragment identifier is the name of the datatype

For example, to address the int datatype, the URI is:

http://www.w3.org/2001/XMLSchema#int

Additionally, each facet definition element can be uniquely addressed via a URI constructed as follows:
1) the base URI is the URI of the XML Schema namespace
2) the fragment identifier is the name of the facet

For example, to address the maxInclusive facet, the URI is:

http://www.w3.org/2001/XMLSchema#maxInclusive

Additionally, each facet usage in a built-in datatype definition can be uniquely addressed via a URI constructed as follows:
1) the base URI is the URI of the XML Schema namespace
2) the fragment identifier is the name of the datatype, followed by a period (".") followed by the name of the facet

For example, to address the usage of the maxInclusive facet in the definition of int, the URI is:

http://www.w3.org/2001/XMLSchema#int.maxInclusive

Annotation 9:

Now the derived primitive types

Namespace Bindings

Prefix	Namespace URI / Binding Location(s)
–	http://www.w3.org/1999/xhtml **File:** xml.xsd **Element:** <xs:schema ... >
hfp	http://www.w3.org/2001/XMLSchema-hasFacetAndProperty **File:** XMLSchema.xsd **Element:** <xs:schema ... >
xs	http://www.w3.org/2001/XMLSchema **File:** xml.xsd **Element:** <xs:schema ... > **File:** XMLSchema.xsd **Element:** <xs:schema ... >

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