

Schema documentation for MisPlanSummedUpTrip.xsd

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Namespace: "<http://www.apiisim.fr/mis-generic/1.0/plantrip>"

Schema(s)

Main schema MisPlanSummedUpTrip.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Properties	attribute form default: unqualified element form default: qualified

Included schema dynamicFeature.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 15.6. A number of types and relationships are defined to represent the time-varying properties of geographic features. In a comprehensive treatment of spatiotemporal modeling, Langran (see Bibliography) distinguished three principal temporal entities: states, events, and evidence; the schema specified in the following Subclauses incorporates elements for each. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified element form default: qualified version: 3.2.1.2

Included schema feature.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
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Annotations	See ISO/DIS 19136 Clause 9. A GML feature is a (representation of a) identifiable real-world object in a selected domain of discourse. The feature schema provides a framework for the creation of GML features and feature collections. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified element form default: qualified version: 3.2.1.2

Included schema **geometryAggregates.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 12.3. Geometric aggregates (i.e. instances of a subtype of <code>gml:AbstractGeometricAggregateType</code>) are arbitrary aggregations of geometry elements. They are not assumed to have any additional internal structure and are used to "collect" pieces of geometry of a specified type. Application schemas may use aggregates for features that use multiple geometric objects in their representations. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified element form default: qualified version: 3.2.1.2

Included schema **geometryPrimitives.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 Clause 11. Beside the "simple" geometric primitives specified in the previous Clause, this Clause specifies additional primitives to describe real world situations which require a more expressive geometry model. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified element form default: qualified version: 3.2.1.2

Included schema **geometryBasic2d.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 Clause 10. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified element form default: qualified version: 3.2.1.2

Included schema **geometryBasic0d1d.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 Clause 10. Any geometry element that inherits the semantics of <code>AbstractGeometryType</code> may be viewed as a set of direct positions. All of the classes derived from <code>AbstractGeometryType</code> inherit an optional association to a coordinate reference system. All direct positions shall directly or indirectly be associated with a coordinate reference system. When geometry elements are aggregated in another geometry element (such as a <code>MultiGeometry</code> or <code>GeometricComplex</code>), which already has a coordinate reference system specified, then these elements are assumed to be in that same coordinate reference system unless otherwise specified. The geometry model distinguishes geometric primitives, aggregates and complexes. Geometric primitives, i.e. instances of a subtype of <code>AbstractGeometricPrimitiveType</code> , will be open, that is, they will not contain their boundary points; curves will not contain their end points, surfaces will not contain their boundary curves, and solids will not contain their bounding surfaces. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified element form default: qualified version: 3.2.1.2

Included schema **measures.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
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Annotations	See ISO/DIS 19136 17.3. <code>gml:MeasureType</code> is defined in the <code>basicTypes</code> schema. The measure types defined here correspond with a set of convenience measure types described in ISO/TS 19103. The XML implementation is based on the XML Schema simple type "double" which supports both decimal and scientific notation, and includes an XML attribute "uom" which refers to the units of measure for the value. Note that, there is no requirement to store values using any particular format, and applications receiving elements of this type may choose to coerce the data to any other type as convenient. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema units.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 17.2. Several GML Schema components concern or require a reference scale or units of measure. Units are required for quantities that may occur as values of properties of feature types, as the results of observations, in the range parameters of a coverage, and for measures used in Coordinate Reference System definitions. The basic unit definition is an extension of the general <code>gml:Definition</code> element defined in 16.2.1. Three specialized elements for unit definition are further derived from this. This model is based on the SI system of units [ISO 1000], which distinguishes between Base Units and Derived Units. - Base Units are the preferred units for a set of orthogonal fundamental quantities which define the particular system of units, which may not be derived by combination of other base units. - Derived Units are the preferred units for other quantities in the system, which may be defined by algebraic combination of the base units. In some application areas Conventional units are used, which may be converted to the preferred units using a scaling factor or a formula which defines a re-scaling and offset. The set of preferred units for all physical quantity types in a particular system of units is composed of the union of its base units and derived units. Unit definitions are substitutable for the <code>gml:Definition</code> element declared as part of the dictionary model. A dictionary that contains only unit definitions and references to unit definitions is a units dictionary. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema dictionary.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 Clause 16. Many applications require definitions of terms which are used within instance documents as the values of certain properties or as reference information to tie properties to standard information values in some way. Units of measure and descriptions of measurable phenomena are two particular examples. It will often be convenient to use definitions provided by external authorities. These may already be packaged for delivery in various ways, both online and offline. In order that they may be referred to from GML documents it is generally necessary that a URI be available for each definition. Where this is the case then it is usually preferable to refer to these directly. Alternatively, it may be convenient or necessary to capture definitions in XML, either embedded within an instance document containing features or as a separate document. The definitions may be transcriptions from an external source, or may be new definitions for a local purpose. In order to support this case, some simple components are provided in GML in the form of - a generic <code>gml:Definition</code> , which may serve as the basis for more specialized definitions - a generic <code>gml:Dictionary</code> , which allows a set of definitions or references to definitions to be collected. These components may be used directly, but also serve as the basis for more specialised definition elements in GML, in particular: coordinate operations, coordinate reference systems, datums, temporal reference systems, and units of measure. Note that the GML definition and dictionary components implement a simple nested hierarchy of definitions with identifiers. The latter provide handles which may be used in the description of more complex relationships between terms. However, the GML dictionary components are not intended to provide direct support for complex taxonomies, ontologies or thesauri. Specialised XML tools are available to satisfy the more sophisticated requirements. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema gmlBase.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 7.2. The <code>gmlBase</code> schema components establish the GML model and syntax, in particular - a root XML type from which XML types for all GML objects should be derived, - a pattern and components for GML properties, - patterns for collections and arrays, and components for generic collections and arrays, - components for associating metadata with GML objects, - components for constructing definitions and dictionaries. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified

element form default:	qualified
version:	3.2.1.2

Included schema basicTypes.xsd

Namespace	http://www.apisim.fr/mis-generic/1.0/plantrip						
Annotations	<p>See ISO/DIS 19136 8.2. W3C XML Schema provides a set of built-in "simple" types which define methods for representing values as literals without internal markup. These are described in W3C XML Schema Part 2:2001. Because GML is an XML encoding in which instances are described using XML Schema, these simple types shall be used as far as possible and practical for the representation of data types. W3C XML Schema also provides methods for defining - new simple types by restriction and combination of the built-in types, and - complex types, with simple content, but which also have XML attributes. In many places where a suitable built-in simple type is not available, simple content types derived using the XML Schema mechanisms are used for the representation of data types in GML. A set of these simple content types that are required by several GML components are defined in the basicTypes schema, as well as some elements based on them. These are primarily based around components needed to record amounts, counts, flags and terms, together with support for exceptions or null values. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .</p>						
Properties	<table border="1"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> <tr> <td>version:</td> <td>3.2.1.2</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified	version:	3.2.1.2
attribute form default:	unqualified						
element form default:	qualified						
version:	3.2.1.2						

Included schema temporal.xsd

Namespace	http://www.apisim.fr/mis-generic/1.0/plantrip						
Annotations	<p>See ISO/DIS 19136 15.2. The GML temporal schemas include components for describing temporal geometry and topology, temporal reference systems, and the temporal characteristics of geographic data. The model underlying the representation constitutes a profile of the conceptual schema described in ISO 19108. The underlying spatiotemporal model strives to accommodate both feature-level and attribute-level time stamping; basic support for tracking moving objects is also included. Time is measured on two types of scales: interval and ordinal. An interval scale offers a basis for measuring duration, an ordinal scale provides information only about relative position in time. Two other ISO standards are relevant to describing temporal objects: ISO 8601 describes encodings for time instants and time periods, as text strings with particular structure and punctuation; ISO 11404 provides a detailed description of time intervals as part of a general discussion of language independent datatypes. The temporal schemas cover two interrelated topics and provide basic schema components for representing temporal instants and periods, temporal topology, and reference systems; more specialized schema components defines components used for dynamic features. Instances of temporal geometric types are used as values for the temporal properties of geographic features. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .</p>						
Properties	<table border="1"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> <tr> <td>version:</td> <td>3.2.1.2</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified	version:	3.2.1.2
attribute form default:	unqualified						
element form default:	qualified						
version:	3.2.1.2						

Included schema direction.xsd

Namespace	http://www.apisim.fr/mis-generic/1.0/plantrip						
Annotations	<p>See ISO/DIS 19136 Clause 18. The direction schema components provide the GML Application Schema developer with a standard property element to describe direction, and associated objects that may be used to express orientation, direction, heading, bearing or other directional aspects of geographic features. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .</p>						
Properties	<table border="1"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> <tr> <td>version:</td> <td>3.2.1.2</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified	version:	3.2.1.2
attribute form default:	unqualified						
element form default:	qualified						
version:	3.2.1.2						

Included schema topology.xsd

Namespace	http://www.apisim.fr/mis-generic/1.0/plantrip
Annotations	<p>See ISO/DIS 19136 Clause 14. Topology is the branch of mathematics describing the properties of objects which are invariant under continuous deformation. For example, a circle is topologically equivalent to an ellipse because one can be transformed into the other by stretching. In geographic modelling, the foremost use of topology is in accelerating computational geometry. The constructs of topology allow characterisation of the spatial relationships between objects using simple combinatorial or algebraic algorithms. Topology, realised by the appropriate geometry, also allows a compact and unambiguous mechanism for expressing shared geometry among geographic features. There are four instantiable classes of primitive topology objects, one for each dimension up to 3D. In addition, topological complexes are supported, too. There is strong symmetry in the (topological boundary and coboundary) relationships between topology primitives of adjacent dimensions. Topology primitives are bounded by directed</p>

primitives of one lower dimension. The coboundary of each topology primitive is formed from directed topology primitives of one higher dimension. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit <http://www.opengeospatial.org/legal/> .

Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema **geometryComplexes.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 12.2. Geometric complexes (i.e. instances of <code>gml:GeometricComplexType</code>) are closed collections of geometric primitives, i.e. they will contain their boundaries. A geometric complex (<code>gml:GeometricComplex</code>) is defined by ISO 19107:2003, 6.6.1 as "a set of primitive geometric objects (in a common coordinate system) whose interiors are disjoint. Further, if a primitive is in a geometric complex, then there exists a set of primitives in that complex whose point-wise union is the boundary of this first primitive." A geometric composite (<code>gml:CompositeCurve</code> , <code>gml:CompositeSurface</code> and <code>gml:CompositeSolid</code>) represents a geometric complex with an underlying core geometry that is isomorphic to a primitive, i.e. it can be viewed as a primitive and as a complex. See ISO 19107:2003, 6.1 and 6.6.3 for more details on the nature of composite geometries. Geometric complexes and composites are intended to be used in application schemas where the sharing of geometry is important. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema **coverage.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 20.3. A coverage incorporates a mapping from a spatiotemporal domain to a range set, the latter providing the set in which the attribute values live. The range set may be an arbitrary set including discrete lists, integer or floating point ranges, and multi-dimensional vector spaces. A coverage can be viewed as the graph of the coverage function $f: A \rightarrow B$, that is as the set of ordered pairs $\{(x, f(x)) \mid \text{where } x \in A\}$. This view is especially applicable to the GML encoding of a coverage. In the case of a discrete coverage, the domain set A is partitioned into a collection of subsets (typically a disjoint collection) $A = \bigcup A_i$ and the function f is constant on each A_i . For a spatial domain, the A_i are geometry elements, hence the coverage can be viewed as a collection of (geometry,value) pairs, where the value is an element of the range set. If the spatial domain A is a topological space then the coverage can be viewed as a collection of (topology,value) pairs, where the topology element in the pair is a topological n-chain (in GML terms this is a <code>gml:TopoPoint</code> , <code>gml:TopoCurve</code> , <code>gml:TopoSurface</code> or <code>gml:TopoSolid</code>). A coverage is implemented as a GML feature. We can thus speak of a "temperature distribution feature", or a "remotely sensed image feature", or a "soil distribution feature". As is the case for any GML object, a coverage object may also be the value of a property of a feature. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema **valueObjects.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 17.5. The elements declared in this Clause build on other GML schema components, in particular <code>gml:AbstractTimeObject</code> , <code>gml:AbstractGeometry</code> , and the following types: <code>gml:MeasureType</code> , <code>gml:MeasureListType</code> , <code>gml:CodeType</code> , <code>gml:CodeOrNilReasonListType</code> , <code>gml:BooleanOrNilReasonListType</code> , <code>gml:IntegerOrNilReasonList</code> . Of particular interest are elements that are the heads of substitution groups, and one named choice group. These are the primary reasons for the value objects schema, since they may act as variables in the definition of content models, such as Observations, when it is desired to permit alternative value types to occur some of which may have complex content such as arrays, geometry and time objects, and where it is useful not to prescribe the actual value type in advance. The members of the groups include quantities, category classifications, boolean, count, temporal and spatial values, and aggregates of these. The value objects are defined in a hierarchy. The following relationships are defined: - Concrete elements <code>gml:Quantity</code> , <code>gml:Category</code> , <code>gml:Count</code> and <code>gml:Boolean</code> are substitutable for the abstract element <code>gml:AbstractScalarValue</code> . - Concrete elements <code>gml:QuantityList</code> , <code>gml:CategoryList</code> , <code>gml:CountList</code> and <code>gml:BooleanList</code> are substitutable for the abstract element <code>gml:AbstractScalarValueList</code> . - Concrete element <code>gml:ValueArray</code> is substitutable for the concrete element <code>gml:CompositeValue</code> . - Abstract elements <code>gml:AbstractScalarValue</code> and <code>gml:AbstractScalarValueList</code> , and concrete elements <code>gml:CompositeValue</code> , <code>gml:ValueExtent</code> , <code>gml:CategoryExtent</code> , <code>gml:CountExtent</code> and <code>gml:QuantityExtent</code> are substitutable for abstract element <code>gml:AbstractValue</code> . - Abstract elements <code>gml:AbstractScalarValue</code> , <code>gml:AbstractTimeObject</code> and <code>gml:AbstractGeometry</code> are all in a choice group named <code>gml:Value</code> , which is used for compositing in <code>gml:CompositeValue</code> and <code>gml:ValueExtent</code> . - Schemas which need values may use the abstract element <code>gml:AbstractValue</code> in a content model in order to permit any of the <code>gml:AbstractScalarValues</code> , <code>gml:AbstractScalarValueLists</code> , <code>gml:CompositeValue</code> or <code>gml:ValueExtent</code> to occur in an instance, or the named group <code>gml:Value</code>

to also permit `gml:AbstractTimeObjects`, `gml:AbstractGeometries`. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit <http://www.opengeospatial.org/legal/> .

Properties	attribute form default: <code>unqualified</code>
	element form default: <code>qualified</code>
	version: <code>3.2.1.2</code>

Included schema grids.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 20.2. An implicit description of geometry is one in which the items of the geometry do not explicitly appear in the encoding. Instead, a compact notation records a set of parameters, and a set of objects may be generated using a rule with these parameters. This Clause provides grid geometries that are used in the description of gridded coverages and other applications. In GML two grid structures are defined, namely <code>gml:Grid</code> and <code>gml:RectifiedGrid</code> . GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: <code>unqualified</code>
	element form default: <code>qualified</code>
	version: <code>3.2.1.2</code>

Included schema coordinateReferenceSystems.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 13.3. The spatial-temporal coordinate reference systems schema components are divided into two logical parts. One part defines elements and types for XML encoding of abstract coordinate reference systems definitions. The larger part defines specialized constructs for XML encoding of definitions of the multiple concrete types of spatial-temporal coordinate reference systems. These schema components encode the Coordinate Reference System packages of the UML Models of ISO 19111 Clause 8 and ISO/DIS 19136 D.3.10, with the exception of the abstract "SC_CRS" class. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: <code>unqualified</code>
	element form default: <code>qualified</code>
	version: <code>3.2.1.2</code>

Included schema coordinateSystems.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 13.4. The coordinate systems schema components can be divided into three logical parts, which define elements and types for XML encoding of the definitions of: - Coordinate system axes - Abstract coordinate system - Multiple concrete types of spatial-temporal coordinate systems These schema components encode the Coordinate System packages of the UML Models of ISO 19111 Clause 9 and ISO/DIS 19136 D.3.10. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: <code>unqualified</code>
	element form default: <code>qualified</code>
	version: <code>3.2.1.2</code>

Included schema referenceSystems.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 13.2. The reference systems schema components have two logical parts, which define elements and types for XML encoding of the definitions of: - Identified Object, inherited by the ten types of GML objects used for coordinate reference systems and coordinate operations - High-level part of the definitions of coordinate reference systems This schema encodes the Identified Object and Reference System packages of the UML Model for ISO 19111. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: <code>unqualified</code>
	element form default: <code>qualified</code>
	version: <code>3.2.1.2</code>

Included schema datums.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 13.5 The datums schema components can be divided into three logical parts, which define elements and types for XML encoding of the definitions of: - Abstract datum - Geodetic datums, including ellipsoid and prime meridian -

	Multiple other concrete types of spatial or temporal datums These schema components encode the Datum packages of the UML Models of ISO 19111 Clause 10 and ISO/DIS 19136 D.3.10. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema coordinateOperations.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 13.6. The spatial or temporal coordinate operations schema components can be divided into five logical parts, which define elements and types for XML encoding of the definitions of: - Multiple abstract coordinate operations - Multiple concrete types of coordinate operations, including Transformations and Conversions - Abstract and concrete parameter values and groups - Operation methods - Abstract and concrete operation parameters and groups These schema component encodes the Coordinate Operation package of the UML Model for ISO 19111 Clause 11. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema observation.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 Clause 19. A GML observation models the act of observing, often with a camera, a person or some form of instrument. An observation feature describes the "metadata" associated with an information capture event, together with a value for the result of the observation. This covers a broad range of cases, from a tourist photo (not the photo but the act of taking the photo), to images acquired by space borne sensors or the measurement of a temperature 5 meters below the surfaces of a lake. The basic structures introduced in this schema are intended to serve as the foundation for more comprehensive schemas for scientific, technical and engineering measurement schemas. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema temporalReferenceSystems.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 15.5. A value in the time domain is measured relative to a temporal reference system. Common types of reference systems include calendars, ordinal temporal reference systems, and temporal coordinate systems (time elapsed since some epoch). The primary temporal reference system for use with geographic information is the Gregorian Calendar and 24 hour local or Coordinated Universal Time (UTC), but special applications may entail the use of alternative reference systems. The Julian day numbering system is a temporal coordinate system that has an origin earlier than any known calendar, at noon on 1 January 4713 BC in the Julian proleptic calendar, and is useful in transformations between dates in different calendars. In GML seven concrete elements are used to describe temporal reference systems: gml:TimeReferenceSystem, gml:TimeCoordinateSystem, gml:TimeCalendar, gml:TimeCalendarEra, gml:TimeClock, gml:TimeOrdinalReferenceSystem, and gml:TimeOrdinalEra. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Included schema temporalTopology.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	See ISO/DIS 19136 15.3. Temporal topology is described in terms of time complexes, nodes, and edges, and the connectivity between these. Temporal topology does not directly provide information about temporal position. It is used in the case of describing a lineage or a history (e.g. a family tree expressing evolution of species, an ecological cycle, a lineage of lands or buildings, or a history of separation and merger of administrative boundaries). The following Subclauses specifies the temporal topology as temporal characteristics of features in compliance with ISO 19108. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified

element form default:	qualified
version:	3.2.1.2

Included schema **deprecatedTypes.xsd**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	All global schema components that are part of the GML schema, but were deprecated. See Annex I. GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified
	element form default: qualified
	version: 3.2.1.2

Element(s)

Element **SummedUpItinerariesRequest**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Requête de recherche d'itinéraire non détaillée multi départs et multi arrivées
Diagram	<p>SummedUpItinerariesRequest (Type SummedUpItinerariesRequestType)</p> <p>SummedUpItinerariesRequestType (Base Type protocol:AbstractRequestType)</p> <p>Attributes: id (string)</p> <p>departures (1..# location-time:LocationContextType)</p> <p>arrivals (1..# location-time:LocationContextType)</p> <p>itinerary-request:ItineraryRequestParametersGroup</p> <ul style="list-style-type: none"> DepartureTime (date and time for latest departure) ArrivalTime (date and time for earliest arrival) Algorithm (selection of search algorithm) modes (0..#) selfDriveConditions (0..#) AccessibilityConstraint (accessibility indicator) Language (language for text information) <p>options (Type PlanSearchOptions)</p>

Type	SummedUpItinerariesRequestType		
Properties	content: complex		
Attributes	QName	Type	Use
	id	xs:string	optional

Identifiant de la structure de requête. Cet identifiant est fourni par le client du service.
L'identifiant est rappelé dans la ou les réponses du service (sous forme d'élément RequestId).

Element SummedUpItinerariesRequestType / departures

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip		
Annotations	Liste des points de départ de la recherche d'itinéraire		
Diagram	<p>departures Type location-time:LocationContextType</p> <p>Liste des points de départ de la recherche d'itinéraire</p> <p>location-time:LocationContextType</p> <p>itinerary-request:LocationPointType (extension base)</p> <p>PlaceTypeId</p> <p>Identifiant de lieu d'arrêt (n'importe identifiant de PlaceType proposé en réponse de SearchPointsNotificationResponse)</p> <p>Position</p> <p>Position géographique</p> <p>AccessTime</p> <p>Temps d'accès au point de départ (ou destination)</p> <p>Structure décrivant un point de départ ou de destination pour un calcul d'itinéraire</p> <p>Structure décrivant un point de départ ou destination d'itinéraire. Lorsque la position est décrite par une référence...</p>		
Type	LocationContextType		
Properties	content: complex maxOccurs: unbounded		

Element SummedUpItinerariesRequestType / arrivals

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip		
Annotations	Liste des points d'arrivée de la recherche d'itinéraire		
Diagram	<p>arrivals Type location-time:LocationContextType</p> <p>Liste des points d'arrivée de la recherche d'itinéraire</p> <p>location-time:LocationContextType</p> <p>itinerary-request:LocationPointType (extension base)</p> <p>PlaceTypeId</p> <p>Identifiant de lieu d'arrêt (n'importe identifiant de PlaceType proposé en réponse de SearchPointsNotificationResponse)</p> <p>Position</p> <p>Position géographique</p> <p>AccessTime</p> <p>Temps d'accès au point de départ (ou destination)</p> <p>Structure décrivant un point de départ ou de destination pour un calcul d'itinéraire</p> <p>Structure décrivant un point de départ ou destination d'itinéraire. Lorsque la position est décrite par une référence...</p>		
Type	LocationContextType		
Properties	content: complex maxOccurs: unbounded		

Element SummedUpItinerariesResponseType / options

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip						
Annotations	Liste des options du service de recherche d'itinéraire						
Diagram	<p>Diagram illustrating the structure of the 'options' element:</p> <ul style="list-style-type: none"> options (Type: PlanSearchOptions) is a list (indicated by a circle with a minus sign) of PlanSearchOptions. PlanSearchOptions is an enumeration of search options for multi-departure and multi-arrival trips. 						
Type	PlanSearchOptions						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Element SummedUpItinerariesResponse

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Réponse non détaillé sur service de recherche d'itinéraire multi départs et multi arrivées
Diagram	<p>Diagram illustrating the structure of the 'SummedUpItinerariesResponseType' element:</p> <ul style="list-style-type: none"> SummedUpItinerariesResponseType (Type: SummedUpItinerariesResponseType) is a base type (indicated by a circle with a minus sign) for SummedUpItinerariesResponse. SummedUpItinerariesResponse (Type: SummedUpItinerariesResponseType) is an extension base (indicated by a circle with a plus sign) of protocol:AbstractResponseType. SummedUpItinerariesResponse contains: <ul style="list-style-type: none"> RequestId: Cet élément rapporte l'attribut id requis par la structure de requête du service. ResponseDefaults: Paramètres par défaut utilisés dans les structures de réponses des différents services. Status: Structure de status de la réponse. summedUpTrips (Type: SummedUpTripType): Liste des itinéraires non-détaillés qui satisfont aux critères de recherche.
Type	SummedUpItinerariesResponseType
Properties	content: complex

Element SummedUpItinerariesResponseType / status

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Structure de status de la réponse
Diagram	<p>Diagram illustrating the structure of the 'status' element:</p> <ul style="list-style-type: none"> status is a structure of response status. Code (Type: SummedUpItinerariesStatusCodeEnumeration): Code du status de la réponse produite par un service fourni sur un SIM. Comment: Commentaire associé au status de la réponse produite par un service fourni sur les SIM. RuntimeDuration: Durée d'exécution associée à une réponse produite par un service fourni sur les SIM.

Properties	content:	complex
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Element **SummedUpItinerariesResponseType / Status / Code**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Code du status de la réponse produite par un service fourni sur un SIM.
Diagram	
Type	SummedUpItinerariesStatusCodeEnumeration
Properties	content: simple

Element **SummedUpItinerariesResponseType / summedUpTrips**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip						
Annotations	Liste des itinéraires non-détaillés qui satisfont aux critères de recherche						
Diagram	<div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> </div>						
Type	SummedUpTripType						
Properties	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded
content:	complex						
minOccurs:	0						
maxOccurs:	unbounded						

Element **SummedUpTripType / Departure**

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Point de départ de l'itinéraire
Diagram	<div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> </div>

Type	EndPointType
Properties	content: complex

Element SummedUpTripType / Arrival

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Point d'arrivée de l'itinéraire
Diagram	
Type	EndPointType
Properties	content: complex

Element SummedUpTripType / InterchangeCount

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Nombre de correspondances sur l'itinéraire
Diagram	
Type	xs:int
Properties	content: simple

Element SummedUpTripType / InterchangeDuration

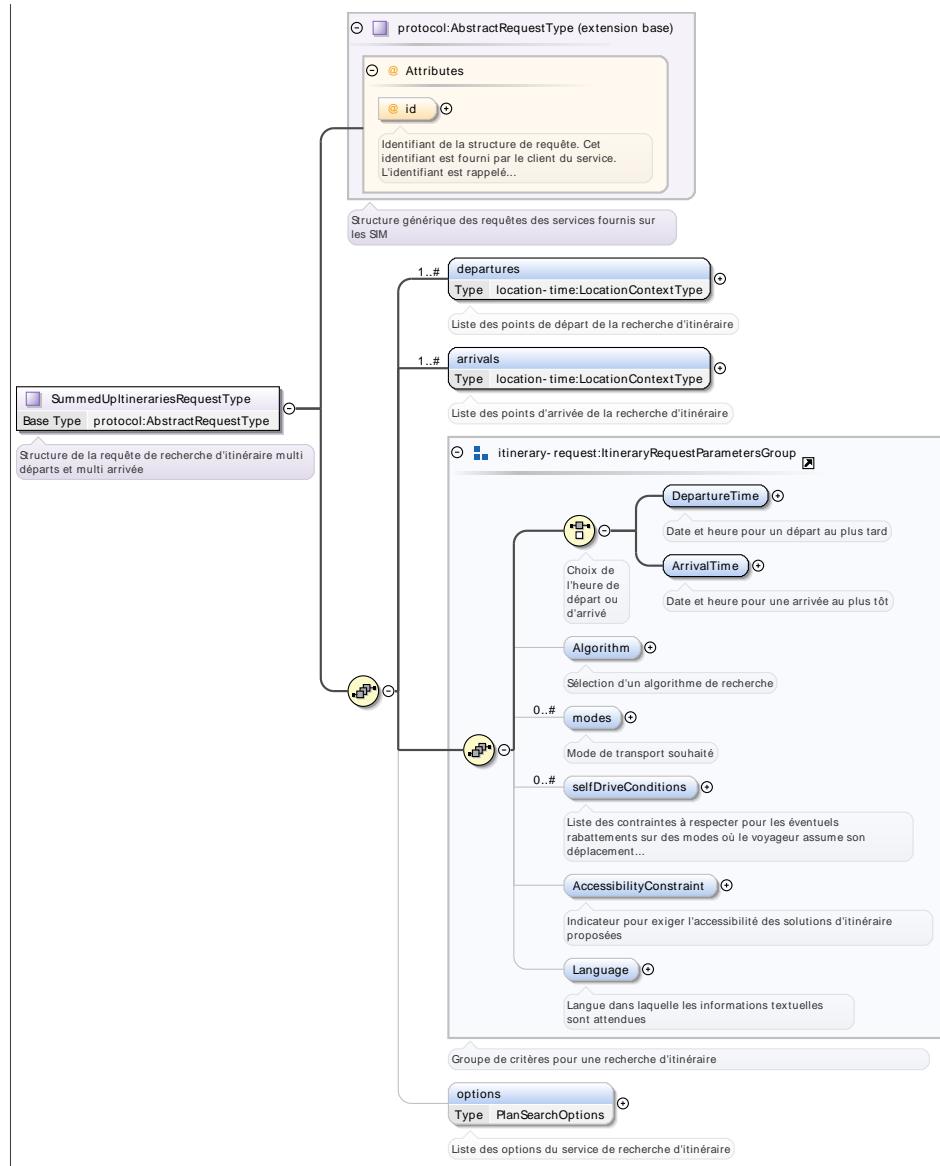
Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Durée totale des correspondances
Diagram	
Type	xs:int
Properties	content: simple

Complex Type(s)

Complex Type SummedUpItinerariesRequestType

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Structure de la requête de recherche d'itinéraire multi départs et multi arrivée

Diagram



Type	extension of <code>AbstractRequestType</code>		
Attributes	QName	Type	Use

id
xs:string
Identifiant de la structure de requête. Cet identifiant est fourni par le client du service. L'identifiant est rappelé dans la ou les réponses du service (sous forme d'élément `RequestId`).

Complex Type `SummedUpItinerariesResponseType`

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Structure de réponse du service de recherche d'itinéraire multi départs et multi arrivées

Diagram	<p>SummedUpItinerariesResponseType Base Type protocol:AbstractResponseType</p> <p>Structure de réponse du service de recherche d'itinéraire multi départs et multi arrivées</p> <p>Structure générique des réponses des services fournis sur les SIM</p> <p>RequestId</p> <p>Cet élément rapporte l'attribut id requis par la structure de requête du service.</p> <p>ResponseDefaults</p> <p>Paramètres par défaut utilisés dans les structures de réponses des différents services</p> <p>Status</p> <p>Structure de status de la réponse</p> <p>0..# summedUpTrips Type SummedUpTripType</p> <p>Liste des itinéraires non-détaillés qui satisfont aux critères de recherche</p>
Type	extension of AbstractResponseType

Complex Type SummedUpTripType

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Structure décrivant, avec très peu de détail, un itinéraire qui satisfait aux critères de recherche
Diagram	<p>SummedUpTripType</p> <p>Structure décrivant, avec très peu de détail, un itinéraire qui satisfait aux critères de recherche</p> <p>Departure Type itinerary:EndPointType</p> <p>Point de départ de l'itinéraire</p> <p>Arrival Type itinerary:EndPointType</p> <p>Point d'arrivée de l'itinéraire</p> <p>InterchangeCount Type xs:int</p> <p>Nombre de correspondances sur l'itinéraire</p> <p>InterchangeDuration Type xs:int</p> <p>Durée totale des correspondances</p>

Simple Type(s)

Simple Type PlanSearchOptions

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Enumération des options du service de recherche d'itinéraire multi départ et multi arrivée
Diagram	<p>PlanSearchOptions</p> <p>xs:string</p> <p>Enumération des options du service de recherche d'itinéraire multi départ et multi arrivée</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	restriction of xs:string

Simple Type SummedUpItinerariesStatusCodeEnumeration

Namespace	http://www.apiisim.fr/mis-generic/1.0/plantrip
Annotations	Liste des codes de status spécifiques au service
Diagram	<p>SummedUpItinerariesStatusCodeEnumeration</p> <p>protocol:StatusCodeEnumeration</p> <p>Liste des codes de status spécifiques au service</p> <p>Liste des codes de status pour l'ensemble des services</p>
Type	StatusCodeEnumeration

Namespace: "http://www.apiisim.fr/mis-generic/1.0/protocol"

Schema(s)

Imported schema MisProtocol.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/protocol
Properties	attribute form default: unqualified element form default: qualified

Element(s)

Element AbstractResponseType / RequestId

Namespace	http://www.apiisim.fr/mis-generic/1.0/protocol
Annotations	Cet élément reporte l'attribut id requis par la structure de requête du service.
Diagram	<p>The diagram illustrates the RequestId element as a primitive type xs:string. It shows a box labeled 'RequestId' with a line pointing to a purple 'xs:string' box. A callout box next to 'RequestId' states: 'Cet élément reporte l'attribut id requis par la structure de requête du service.' A callout box next to 'xs:string' states: 'Built-in primitive type. The string datatype represents character strings in XML.'</p>
Type	xs:string
Properties	content: simple

Element AbstractResponseType / ResponseDefaults

Namespace	http://www.apiisim.fr/mis-generic/1.0/protocol
Annotations	Paramètres par défaut utilisés dans les structures de réponses des différents services
Diagram	<p>The diagram illustrates the ResponseDefaults element as a complex type ServiceDefaultsType. It shows a box labeled 'ResponseDefaults' with a line pointing to a yellow 'ServiceDefaultsType' box. A callout box next to 'ResponseDefaults' states: 'Paramètres par défaut utilisés dans les structures de réponses des différents services'. The 'ServiceDefaultsType' box contains sub-elements: 'DefaultLocale', 'DefaultLocationSystem', 'DefaultSystemOfUnits', and 'geographicOverviewFormats'. Callout boxes for these sub-elements state: 'Référentiel géographique par défaut utilisé au niveau des structures GML', 'Units of measurement for all dimension values in Frame. Default System is 5 Metres.', and 'Catalogue des formats utilisés pour représenter les tracés géographiques'. A large callout box at the bottom states: 'Paramètres par défaut utilisés dans les structures de réponses des différents services'.</p>
Type	ServiceDefaultsType
Properties	content: complex minOccurs: 0

Element StatusGroup / Comment

Namespace	http://www.apiisim.fr/mis-generic/1.0/protocol
Annotations	Commentaire associé au status de la réponse produite par un service fourni sur les SIM.
Diagram	<p>The diagram illustrates the Comment element as a primitive type xs:string. It shows a box labeled 'Comment' with a line pointing to a purple 'xs:string' box. A callout box next to 'Comment' states: 'Commentaire associé au status de la réponse produite par un service fourni sur les SIM.' A callout box next to 'xs:string' states: 'Built-in primitive type. The string datatype represents character strings in XML.'</p>
Type	xs:string
Properties	content: simple

minOccurs:	0
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Element StatusGroup / RuntimeDuration

Namespace	http://www.apiiSIM.fr/mis-generic/1.0/protocol
Annotations	Durée d'exécution associée à une réponse produite par un service fourni sur les SIM.
Diagram	
Type	xs:duration
Properties	content: simple minOccurs: 0

Complex Type(s)

Complex Type AbstractRequestType

Namespace	http://www.apiiSIM.fr/mis-generic/1.0/protocol									
Annotations	Structure générique des requêtes des services fournis sur les SIM									
Diagram										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>optional</td> </tr> <tr> <td></td> <td></td> <td>Identifiant de la structure de requête. Cet identifiant est fourni par le client du service. L'identifiant est rappelé dans les réponses du service (sous forme d'élément RequestId).</td> </tr> </tbody> </table>	QName	Type	Use	id	xs:string	optional			Identifiant de la structure de requête. Cet identifiant est fourni par le client du service. L'identifiant est rappelé dans les réponses du service (sous forme d'élément RequestId).
QName	Type	Use								
id	xs:string	optional								
		Identifiant de la structure de requête. Cet identifiant est fourni par le client du service. L'identifiant est rappelé dans les réponses du service (sous forme d'élément RequestId).								

Complex Type AbstractResponseType

Namespace	http://www.apiiSIM.fr/mis-generic/1.0/protocol
Annotations	Structure générique des réponses des services fournis sur les SIM
Diagram	

Simple Type(s)

Simple Type statusCodeEnumeration

Namespace	http://www.apiiSIM.fr/mis-generic/1.0/protocol
Annotations	Liste des codes de status pour l'ensemble des services
Diagram	
Type	restriction of xs:string

Element Group(s)

Element Group StatusGroup

Namespace	http://www.apiiSIM.fr/mis-generic/1.0/protocol
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Annotations	Groupe d'éléments d'une structure de status propres aux réponses aux services fournis sur les SIM
Diagram	<p>The diagram illustrates the structure of the <code>StatusGroup</code> element. It consists of a central <code>StatusGroup</code> box with two outgoing associations. One association points to a <code>Comment</code> box, which is described as a comment associated with the status of a response produced by a service on the SIM. The other association points to a <code>RuntimeDuration</code> box, which is described as the execution duration associated with a response produced by a service on the SIM.</p>

Namespace: "http://www.apiisim.fr/common/1.0/protocol-framework"

Schema(s)

Imported schema `ProtocolFramework.xsd`

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework
Properties	attribute form default: unqualified element form default: qualified

Element(s)

Element `ServiceDefaultsType / DefaultLocale`

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework
Diagram	<p>The diagram illustrates the structure of the <code>DefaultLocale</code> element. It consists of a central <code>DefaultLocale</code> box with two outgoing associations. One association points to a <code>DefaultLanguage</code> box, which is described as the default language for textual information. The other association points to a <code>TimeZoneOffset</code> box, which is described as the timezone offset from Greenwich at LOCALE. Offset from Greenwich in hours. e.g. +5, -2.</p>
Properties	content: complex minOccurs: 0

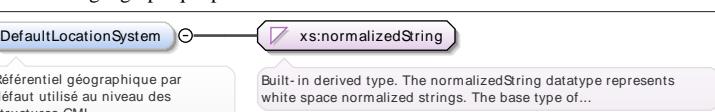
Element `ServiceDefaultsType / DefaultLocale / DefaultLanguage`

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework
Annotations	Langue par défaut pour les informations textuelles
Diagram	<p>The diagram illustrates the structure of the <code>DefaultLanguage</code> element. It consists of a central <code>DefaultLanguage</code> box with one outgoing association pointing to an <code>xs:language</code> box. The <code>xs:language</code> box is described as a built-in derived type. The language datatype represents natural language identifiers as defined by [RFC 1766]. The base...</p>
Type	<code>xs:language</code>
Properties	content: simple minOccurs: 0

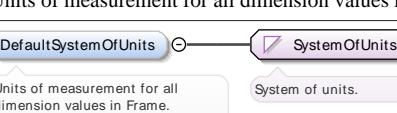
Element `ServiceDefaultsType / DefaultLocale / TimeZoneOffset`

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework
Annotations	Timezone offset from Greenwich at LOCALE. Offset from Greenwich in hours. e.g. +5, -2
Diagram	<p>The diagram illustrates the structure of the <code>TimeZoneOffset</code> element. It consists of a central <code>TimeZoneOffset</code> box with one outgoing association pointing to an <code>xs:decimal</code> box. The <code>xs:decimal</code> box is described as a built-in primitive type. The decimal datatype represents arbitrary precision decimal numbers.</p>
Type	<code>xs:decimal</code>
Properties	content: simple minOccurs: 0

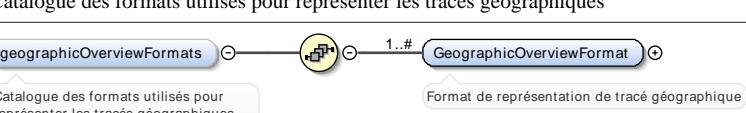
Element ServiceDefaultsType / DefaultLocationSystem

Namespace	http://www.apiiSIM.fr/common/1.0/protocol-framework				
Annotations	Référentiel géographique par défaut utilisé au niveau des structures GML				
Diagram					
Type	xs:normalizedString				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

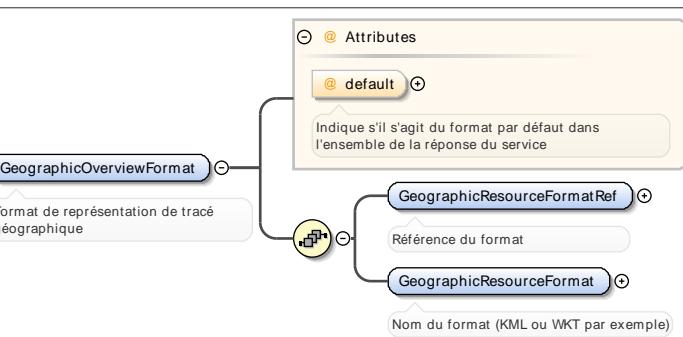
Element ServiceDefaultsType / DefaultSystemOfUnits

Namespace	http://www.apiiSIM.fr/common/1.0/protocol-framework						
Annotations	Units of measurement for all dimension values in Frame. Default System is Si Metres.						
Diagram							
Type	SystemOfUnits						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>default:</td> <td>SiMetres</td> </tr> </table>	content:	simple	minOccurs:	0	default:	SiMetres
content:	simple						
minOccurs:	0						
default:	SiMetres						

Element ServiceDefaultsType / geographicOverviewFormats

Namespace	http://www.apiiSIM.fr/common/1.0/protocol-framework						
Annotations	Catalogue des formats utilisés pour représenter les tracés géographiques						
Diagram							
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	1
content:	complex						
minOccurs:	0						
maxOccurs:	1						

Element ServiceDefaultsType / geographicOverviewFormats / GeographicOverviewFormat

Namespace	http://www.apiiSIM.fr/common/1.0/protocol-framework				
Annotations	Format de représentation de tracé géographique				
Diagram					
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	complex	minOccurs:	1
content:	complex				
minOccurs:	1				

	maxOccurs:	unbounded	
Attributes	QName	Type	Use
	default	xs:boolean	optional
Indique s'il s'agit du format par défaut dans l'ensemble de la réponse du service			

Element **ServiceDefaultsType / geographicOverviewFormats / GeographicOverviewFormat / GeographicResourceFormatRef**

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework	
Annotations	Référence du format	
Diagram		
Type	xs:int	
Properties	content:	simple

Element **ServiceDefaultsType / geographicOverviewFormats / GeographicOverviewFormat / GeographicResourceFormat**

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework	
Annotations	Nom du format (KML ou WKT par exemple)	
Diagram		
Type	xs:normalizedString	
Properties	content:	simple

Complex Type(s)

Complex Type **ServiceDefaultsType**

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework	
Annotations	Paramètres par défaut utilisés dans les structures de réponses des différents services	
Diagram		

Simple Type(s)

Simple Type **SystemOfUnits**

Namespace	http://www.apiisim.fr/common/1.0/protocol-framework	
Annotations	System of units.	
Diagram		
Type	restriction of xs:normalizedString	

Namespace: "http://www.apiisim.fr/common/1.0/itinerary"

Schema(s)

Imported schema `Itinerary.xsd`

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Properties	attribute form default: unqualified element form default: qualified

Element(s)

Element `EndPointType / TripStopPlace`

Namespace	http://www.apiisim.fr/common/1.0/itinerary						
Annotations	Structure la plus générale qui représente un point de passage sur le parcours: adresse, arrêt, commune, etc...						
Diagram							
Type	TripStopPlaceType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	id	xs:string	required
QName	Type	Use					
id	xs:string	required					

QName	Type	Use
		Identifiant du point de passage

Element EndPointType / DateTime

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Horaire de passage à ce point du cheminement
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 0

Element EndPointType / Extension

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Diagram	
Type	EndPointExtensionType
Properties	content: complex minOccurs: 0

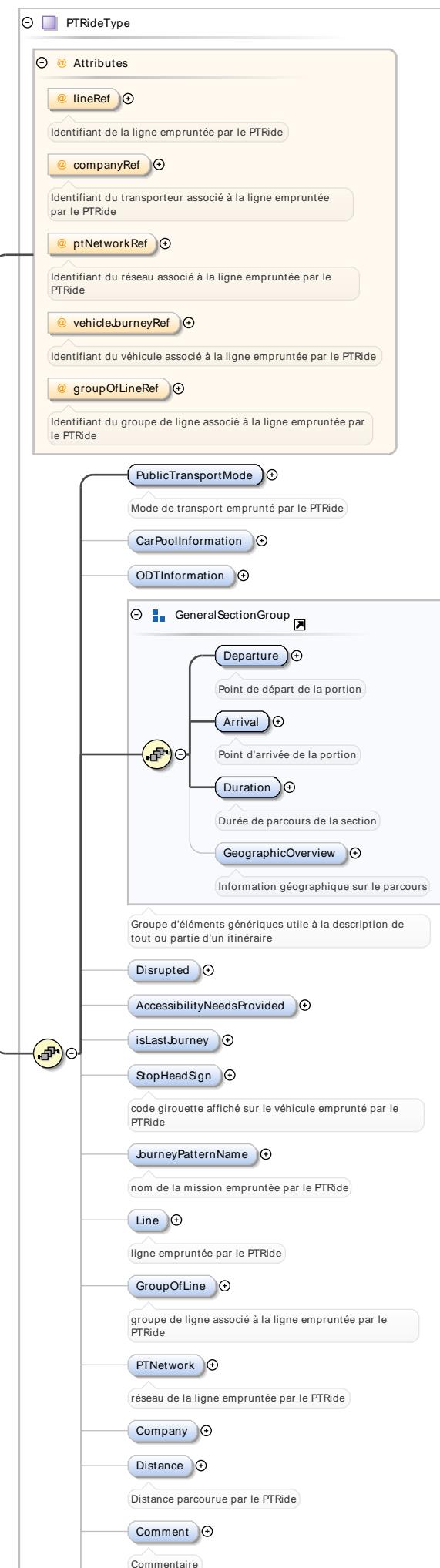
Element SectionType / PartialTripId

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Identifiant de la portion d'itinéraire décrite
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element SectionType / PTRide

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Portion de l'itinéraire où le voyageur est pris en charge (mise à disposition d'un moyen de transport).

Diagram



Type	PTRideType		
Properties	content: complex		
Attributes	QName	Type	Use
	companyRef	xs:string	optional
	Identifiant du transporteur associé à la ligne empruntée par le PTRide		
	groupOfLineRef	xs:string	optional
	Identifiant du groupe de ligne associé à la ligne empruntée par le PTRide		
	lineRef	xs:string	optional
	Identifiant de la ligne empruntée par le PTRide		
	ptNetworkRef	xs:string	optional
	Identifiant du réseau associé à la ligne empruntée par le PTRide		
	vehicleJourneyRef	xs:string	optional
	Identifiant du véhicule associé à la ligne empruntée par le PTRide		

Element PTRideType / PublicTransportMode

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Mode de transport emprunté par le PTRide		
Diagram			
Type	PublicTransportModeEnumeration		
Properties	content: simple		

Element PTRideType / CarPoolInformation

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Diagram			
Type	CarPoolInformationType		
Properties	content: complex minOccurs: 0		

Element CarPoolInformationType / DetailedTripUrl

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Url du detail du trajet sur le site du partenaire		
Diagram			
Type	xs:string		
Properties	content: simple		

Element CarPoolInformationType / ProviderName

Namespace	http://www.apiiim.fr/common/1.0/itinerary				
Annotations	Nom du partenaire de co-voiturage				
Diagram	<p>ProviderName → xs:string</p> <p>Nom du partenaire de co-voiturage</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>				
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CarPoolInformationType / RoundTrip

Namespace	http://www.apiiim.fr/common/1.0/itinerary				
Annotations	Information indiquant si le voyage est un aller simple ou un aller/retour				
Diagram	<p>RoundTrip → xs:string</p> <p>Information indiquant si le voyage est un aller simple ou un aller/retour</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>				
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element PTRideType / ODTInformation

Namespace	http://www.apiiim.fr/common/1.0/itinerary				
Diagram	<p>ODTInformation → ODTInformationType</p> <p>ODTInformationType structure:</p> <ul style="list-style-type: none"> Url Url du site pour le TAD BookingInformation <p>Structure de description d'un itinéraire en Transport à la Demande (TAD en français)</p>				
Type	ODTInformationType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element ODTInformationType / Url

Namespace	http://www.apiiim.fr/common/1.0/itinerary				
Annotations	Url du site pour le TAD				
Diagram	<p>Url → xs:anyURI</p> <p>Url du site pour le TAD</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>				
Type	xs:anyURI				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element ODTInformationType / BookingInformation

Namespace	http://www.apiiim.fr/common/1.0/itinerary
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Diagram					
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element ODTInformationType / BookingInformation / Phone

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Numéro de réservation				
Diagram					
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element ODTInformationType / BookingInformation / BookingMessage

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Diagram					
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element ODTInformationType / BookingInformation / Language

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Langue utilisée au niveau de l'élément LocationName et des réponses attendues. NB: les localités ont parfois des appellations propres à une langue. Exemple: Londres/London, Naples/Napoli				
Diagram					
Type	xs:language				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element GeneralSectionGroup / Departure

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Point de départ de la portion

Diagram	
Type	EndPointType
Properties	content: complex

Element GeneralSectionGroup / Arrival

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Point d'arrivée de la portion
Diagram	
Type	EndPointType
Properties	content: complex

Element GeneralSectionGroup / Duration

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Durée de parcours de la section
Diagram	
Type	xs:duration
Properties	content: simple

Element GeneralSectionGroup / GeographicOverview

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Information géographique sur le parcours
Diagram	
Properties	content: complex
	minOccurs: 0

Element GeneralSectionGroup / GeographicOverview / GeographicResource

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Donnée ou référence par la description géographique du parcours selon un format
Diagram	
Type	xs:string
Properties	content: simple

Element GeneralSectionGroup / GeographicOverview / GeographicResourceFormatRef

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Format de la description géographique
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

Element PTRideType / Disrupted

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element PTRideType / AccessibilityNeedsProvided

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element PTRideType / isLastJourney

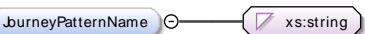
Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element PTRideType / StopHeadSign

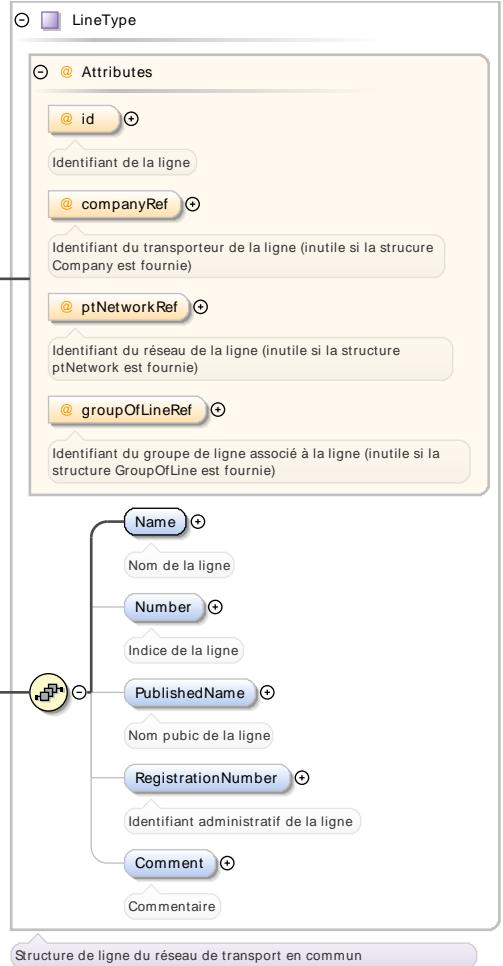
Namespace	http://www.apiiSim.fr/common/1.0/itinerary
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Annotations	code girouette affiché sur le véhicule emprunté par le PTRide
Diagram	 <p>code girouette affiché sur le véhicule emprunté par le PTRide</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	<p>content: simple</p> <p>minOccurs: 0</p>

Element PTRideType / JourneyPatternName

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	nom de la mission empruntée par le PTRide
Diagram	 <p>nom de la mission empruntée par le PTRide</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	<p>content: simple</p> <p>minOccurs: 0</p>

Element PTRideType / Line

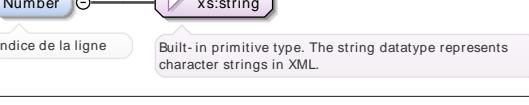
Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	ligne empruntée par le PTRide
Diagram	 <p>ligne empruntée par le PTRide</p> <p>Structure de ligne du réseau de transport en commun</p>
Type	LineType

Properties	content:	complex		
	minOccurs:	0		
Attributes	QName	Type	Use	
	companyRef	xs:string	optional	
		Identifiant du transporteur de la ligne (inutile si la structure Company est fournie)		
	groupOfLineRef	xs:string	optional	
		Identifiant du groupe de ligne associé à la ligne (inutile si la structure GroupOfLine est fournie)		
	id	xs:string	optional	
		Identifiant de la ligne		
Properties	ptNetworkRef	xs:string	optional	
		Identifiant du réseau de la ligne (inutile si la structure ptNetwork est fournie)		

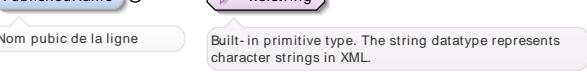
Element LineType / Name

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Nom de la ligne		
Diagram			
Type	xs:string		
Properties	content: simple minOccurs: 0		

Element LineType / Number

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Indice de la ligne		
Diagram			
Type	xs:string		
Properties	content: simple minOccurs: 0		

Element LineType / PublishedName

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Nom public de la ligne		
Diagram			
Type	xs:string		
Properties	content: simple minOccurs: 0		

Element LineType / RegistrationNumber

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Identifiant administratif de la ligne		
Diagram			

Type	xs:string
Properties	content: simple minOccurs: 0

Element LineType / Comment

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Commentaire
Diagram	<p>Comment (xs:string)</p> <p>Commentaire</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

Element PTRideType / GroupOfLine

Namespace	http://www.apiisim.fr/common/1.0/itinerary												
Annotations	groupe de ligne associé à la ligne empruntée par le PTRide												
Diagram	<p>GroupOfLine (GroupOfLineType)</p> <p>groupe de ligne associé à la ligne empruntée par le PTRide</p> <p>Structure qui décrit le groupe de ligne</p>												
Type	GroupOfLineType												
Properties	content: complex minOccurs: 0												
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Use</td> <td></td> </tr> <tr> <td>id</td> <td>xs:string</td> <td>optional</td> <td></td> </tr> <tr> <td></td> <td>Identifiant du groupe de ligne</td> <td></td> <td></td> </tr> </table>	QName	Type	Use		id	xs:string	optional			Identifiant du groupe de ligne		
QName	Type	Use											
id	xs:string	optional											
	Identifiant du groupe de ligne												

Element GroupOfLineType / Name

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Nom du groupe de ligne
Diagram	<p>Name (xs:string)</p> <p>Nom du groupe de ligne</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	content: simple

Element PTRideType / PTNetwork

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	réseau de la ligne empruntée par le PTRide

<p>Diagram</p>													
<p>Type</p>	<p>PTNetworkType</p>												
<p>Properties</p>	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0								
content:	complex												
minOccurs:	0												
<p>Attributes</p>	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xsd:string</td> <td>optional</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Identifiant du réseau de transport</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		id	xsd:string	optional				Identifiant du réseau de transport	
QName	Type	Use											
id	xsd:string	optional											
		Identifiant du réseau de transport											

Element PTNetworkType / Name

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Nom du réseau		
Diagram			
Type	xsd:string		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple
content:	simple		

Element PTNetworkType / VersionDate

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Diagram					
Type	xsd:date				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element PTNetworkType / RegistrationNumber

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Identifiant administratif
Diagram	
Type	xsd:string

Properties	content: simple minOccurs: 0
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Element PTNetworkType / Comment

Namespace	http://www.apiiSIM.fr/common/1.0/itinerary
Annotations	Commentaire
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element PTRideType / Company

Namespace	http://www.apiiSIM.fr/common/1.0/itinerary						
Diagram							
Type	CompanyType						
Properties	content: complex minOccurs: 0						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	id	xs:string	optional
QName	Type	Use					
id	xs:string	optional					

QName	Type	Use	
	Identifiant du transporteur		

Element CompanyType / Name

Namespace	http://www.apisim.fr/common/1.0/itinerary
Annotations	Nom du transporteur
Diagram	<pre> classDiagram class Name xs:string Name "0..1" -- "1" xs:string </pre>
Type	xs:string
Properties	content: simple

Element CompanyType / RegistrationNumber

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Identifiant administratif du transporteur				
Diagram	<p>RegistrationNumber \ominus xs:string</p> <p>Identifiant administratif du transporteur</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>				
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CompanyType / ShortName

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Nom court du transporteur				
Diagram	<pre> classDiagram class ShortName class xsString { <<xs:string>> } ShortName "0..1" -- "1" xsString xsString <<Built-in primitive type. The string datatype represents character strings in XML.>> </pre>				
Type	xs:string				
Properties	<table> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CompanyType / OrganisationalUnit

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Unité responsable de l'information voyageur chez le transporteur				
Diagram	 <p>Unité responsable de l'information voyageur chez le transporteur</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>				
Type	xs:string				
Properties	<table> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CompanyType / OperatingDepartementName

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Département responsable de l'information voyageur chez le transporteur

Diagram					
Type	xs:string				
Properties	<table> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CompanyType / Phone

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Numéro de téléphone				
Diagram					
Type	xs:string				
Properties	<table> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CompanyType / Code

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Code du transporteur				
Diagram					
Type	xs:string				
Properties	<table> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CompanyType / Fax

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Numéro de fax				
Diagram					
Type	xs:string				
Properties	<table> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element CompanyType / Email

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Mail du transporteur				
Diagram					
Type	xs:string				
Properties	<table> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element PTRideType / Distance

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Distance parcourue par le PTRide
Diagram	<p>Distance (xs:int) Distance parcourue par le PTRide Built-in derived type. The int datatype is derived from long by setting the value of maxInclusive to be 2147483647 and...</p>
Type	xs:int
Properties	content: simple minOccurs: 0

Element PTRideType / Comment

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Commentaire
Diagram	<p>Comment (xs:string) Commentaire Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

Element PTRideType / steps

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Diagram	<p>StepType Attributes @ id Identifiant de la section de transport en commun steps Structure qui décrit une section de transport en commun. Tout au long d'une section, le voyageur est à bord d'un même... Departure Départ du véhicule Arrival Arrivée du véhicule Geometry Tracé géographique de la section Duration Durée de parcours de la section Distance Distance parcourue sur la section GuidanceInfo Instruction associée à un guidage à ce niveau du cheminement Extension</p>
Type	StepType
Properties	content: complex minOccurs: 0

	maxOccurs:	unbounded	
Attributes	QName	Type	Use
	id	xs:string	optional
Identifiant de la section de transport en commun			

Element StepType / Departure

Namespace	http://www.apiiSIM.fr/common/1.0/itinerary
Annotations	Départ du véhicule
Diagram	<pre> classDiagram class StepEndPointType { <<StepType / Departure>> } class EndPointType { <<extension base>> } class TripStopPlace class DateTime class Extension class PassThrough class Departure StepEndPointType < -- EndPointType StepEndPointType "1..1" o--> TripStopPlace StepEndPointType "1..1" o--> DateTime StepEndPointType "1..1" o--> Extension StepEndPointType "1..1" o--> PassThrough StepEndPointType "1..1" o--> Departure </pre>
Type	StepEndPointType
Properties	content: complex

Element StepEndPointType / PassThrough

Namespace	http://www.apiiSIM.fr/common/1.0/itinerary
Diagram	<pre> classDiagram class StepEndPointType { <<StepType / PassThrough>> } class EndPointType { <<extension base>> } class TripStopPlace class DateTime class Extension class PassThrough StepEndPointType < -- EndPointType StepEndPointType "1..1" o--> TripStopPlace StepEndPointType "1..1" o--> DateTime StepEndPointType "1..1" o--> Extension StepEndPointType "1..1" o--> PassThrough </pre>
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element StepType / Arrival

Namespace	http://www.apiiSIM.fr/common/1.0/itinerary
Annotations	Arrivée du véhicule
Diagram	<pre> classDiagram class StepEndPointType { <<StepType / Arrival>> } class EndPointType { <<extension base>> } class TripStopPlace class DateTime class Extension class PassThrough class Arrival StepEndPointType < -- EndPointType StepEndPointType "1..1" o--> TripStopPlace StepEndPointType "1..1" o--> DateTime StepEndPointType "1..1" o--> Extension StepEndPointType "1..1" o--> PassThrough StepEndPointType "1..1" o--> Arrival </pre>
Type	StepEndPointType

Properties	content: complex				
Element StepType / Geometry					
Namespace	http://www.apiiim.fr/common/1.0/itinerary				
Annotations	Tracé géographique de la section				
Diagram	<p>The diagram illustrates the schema structure for <code>gml:LineStringType</code>. It shows the inheritance path from <code>gml:AbstractCurveType</code> to <code>gml:LineStringType</code>. The <code>gml:LineStringType</code> class contains attributes for <code>gml:id</code>, <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, and <code>gml:name</code>. It also includes an attribute group <code>gml:SRSReferenceGroup</code> and a list of points (<code>2..#</code>) with properties <code>gml:pos</code>, <code>gml:pointProperty</code>, <code>gml:pointRep</code>, <code>gml:posList</code>, and <code>gml:coordinates</code>. A note indicates that all geometry elements are derived from this abstract supertype.</p>				
Type	<code>gml:LineStringType</code>				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element StepType / Duration

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Durée de parcours de la section
Diagram	<p>Diagram illustrating the relationship between Duration and xs:duration. Duration is a derived type based on xs:duration. A callout box indicates: Durée de parcours de la section and Built-in primitive type. The duration datatype represents a duration of time.</p>
Type	xs:duration
Properties	content: simple minOccurs: 0

Element StepType / Distance

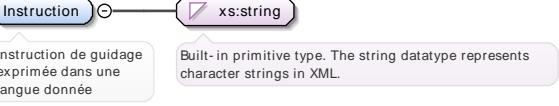
Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Distance parcourue sur la section
Diagram	<p>Diagram illustrating the relationship between Distance and xs:int. Distance is a derived type based on xs:int. A callout box indicates: Distance parcourue sur la section and Built-in derived type. The int datatype is derived from long by setting the value of maxInclusive to be 2147483647 and...</p>
Type	xs:int
Properties	content: simple minOccurs: 0

Element StepType / GuidanceInfo

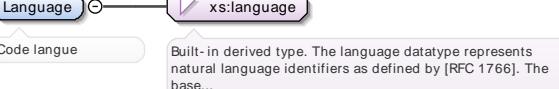
Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Instruction associée à un guidage à ce niveau du cheminement
Diagram	<p>Diagram illustrating the relationship between GuidanceInfo and GuidanceInfoType. GuidanceInfo is a derived type based on GuidanceInfoType. A callout box indicates: Instruction associée à un guidage à ce niveau du cheminement and Structure qui décrit une instruction de guidage.</p> <p>GuidanceInfoType structure:</p> <ul style="list-style-type: none"> Instruction (0..1) Language (0..1) <ul style="list-style-type: none"> Code langue Extension (0..1)
Type	GuidanceInfoType
Properties	content: complex minOccurs: 0

Element GuidanceInfoType / Instruction

Namespace	http://www.apiisim.fr/common/1.0/itinerary
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Annotations	Instruction de guidage exprimée dans une langue donnée
Diagram	
Type	xs:string
Properties	content: simple

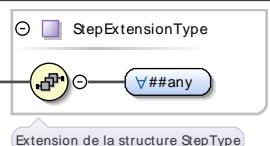
Element GuidanceInfoType / Language

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Code langue
Diagram	
Type	xs:language
Properties	content: simple

Element GuidanceInfoType / Extension

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Diagram					
Type	GuidanceInfoExtensionType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element StepType / Extension

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Diagram					
Type	StepExtensionType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element PTRideType / Extension

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Diagram	
Type	PTRideExtensionType
Properties	content: complex

minOccurs:

0

Element SectionType / Leg

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Portion de l'itinéraire où le voyageur assume seul son déplacement (véhicule éventuel et orientation).
Diagram	<p>The diagram illustrates the structure of the LegType element. It is a class with the following associations and attributes:</p> <ul style="list-style-type: none"> pathLinks: A multiplicity of 0..# associated with the Cheminement class. SelfDriveMode: An association with the Enumération des modes de transport class. GeneralSectionGroup: An association with the Groupe d'éléments génériques utile à la description de tout ou partie d'un itinéraire class. Leg: A self-referencing association. <p>Attributes and their descriptions:</p> <ul style="list-style-type: none"> Departure: Point de départ de la portion. Arrival: Point d'arrivée de la portion. Duration: Durée de parcours de la section. GeographicOverview: Information géographique sur le parcours. Extension: An association with the Extension class. <p>General notes:</p> <ul style="list-style-type: none"> Portion de l'itinéraire où le voyageur assume seul son déplacement (véhicule éventuel et orientation). Structure qui décrit une portion de l'itinéraire où le voyageur assume seul son déplacement (véhicule éventuel et...).
Type	LegType
Properties	content: complex

Element LegType / pathLinks

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Cheminement

<p>Diagram</p>													
<p>Type</p>	<p>PathLinkType</p>												
<p>Properties</p>	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded						
content:	complex												
minOccurs:	0												
maxOccurs:	unbounded												
<p>Attributes</p>	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>id</td><td>xsd:string</td><td>optional</td><td></td></tr> <tr> <td></td><td></td><td>Identifiant du cheminement</td><td></td></tr> </tbody> </table>	QName	Type	Use		id	xsd:string	optional				Identifiant du cheminement	
QName	Type	Use											
id	xsd:string	optional											
		Identifiant du cheminement											

Element PathLinkType / Departure

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Départ du cheminement		
<p>Diagram</p>			
<p>Type</p>	<p>EndPointType</p>		
<p>Properties</p>	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		

Element PathLinkType / Arrival

Namespace	http://www.apiisim.fr/common/1.0/itinerary
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Annotations	Destination du cheminement
Diagram	<pre> graph LR subgraph EndPointType TripStopPlace((TripStopPlace)) TripStopPlace --> Extension[Extension] TripStopPlace --- DateTime[DateTime] TripStopPlace --- Arrival((Arrival)) TripStopPlace --- Destination[Destination du cheminement] TripStopPlace --- Extension end </pre> <p>Structure la plus générale qui représente un point de passage sur le parcours: adresse, arrêt, commune, etc...</p> <p>Horaire de passage à ce point du cheminement</p> <p>Structure qui décrit une extrémité de cheminement (départ ou arrivée)</p>
Type	EndPointType
Properties	content: complex

Element PathLinkType / Duration

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Durée de parcours du cheminement
Diagram	<pre> graph LR Duration((Duration)) --- xsduration(xs:duration) </pre> <p>Durée de parcours du cheminement</p> <p>Built-in primitive type. The duration datatype represents a duration of time.</p>
Type	xs:duration
Properties	content: simple

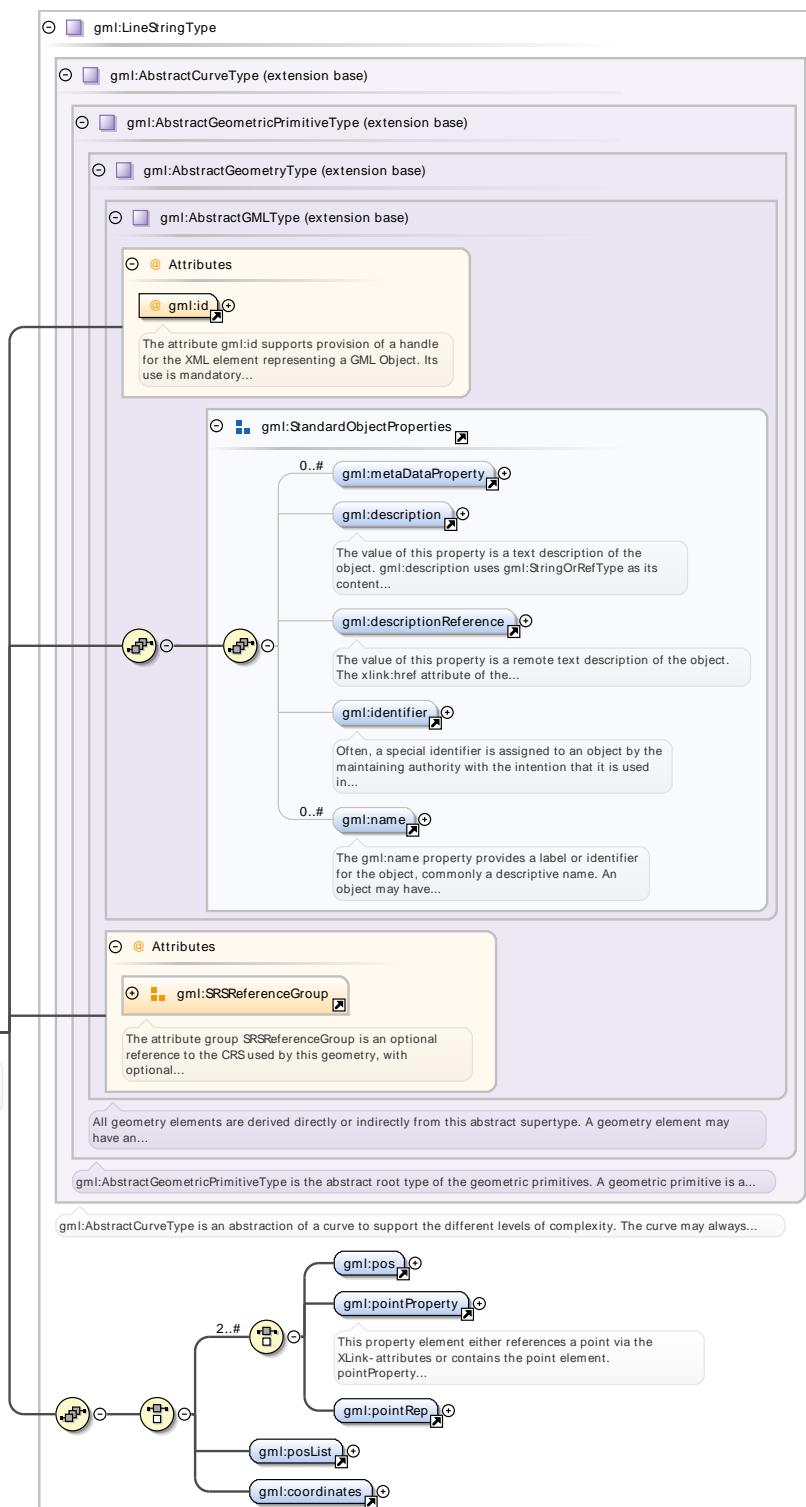
Element PathLinkType / Distance

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Distance parcourue par le cheminement
Diagram	<pre> graph LR Distance((Distance)) --- xsint(xs:int) </pre> <p>Distance parcourue par le cheminement</p> <p>Built-in derived type. The int datatype is derived from long by setting the value of maxInclusive to be 2147483647 and...</p>
Type	xs:int
Properties	content: simple minOccurs: 0

Element PathLinkType / Geometry

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Tracé géographique du cheminement

Diagram



Type	<code>gml:LineStringType</code>														
Properties	content: complex minOccurs: 0														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> </tr> </tbody> </table>			QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use													
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional													
<code>gml:id</code>	ID	required													
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.														

QName	Type	Use
srsDimension	positiveInteger	optional
srsName	anyURI	optional
uomLabels	gml:NCNameList	optional

Element PathLinkType / GuidanceInfo

Namespace	http://www.apisim.fr/common/1.0/itinerary				
Annotations	Instruction associée à un guidage à ce niveau du cheminement				
Diagram	<pre> classDiagram class GuidanceInfoType class Instruction class Language class Extension GuidanceInfoType "0..1" -- "1..1" Instruction Instruction "0..1" -- "1..1" Language Language "0..1" -- "1..1" Extension note over GuidanceInfoType: Instruction associée à un guidage à ce niveau du cheminement note over Instruction: Instruction de guidage exprimée dans une langue donnée note over Language: Code langue note over Extension: Extension note over GuidanceInfoType: Structure qui décrit une instruction de guidage </pre>				
Type	GuidanceInfoType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element PathLinkType / Extension

Namespace	http://www.apisim.fr/common/1.0/itinerary				
Diagram	<pre> classDiagram class PathLinkExtensionType class Extension class any PathLinkExtensionType "0..1" -- "1..1" Extension Extension "0..1" -- "1..1" any note over Extension: Extension de la structure PathLinkType </pre>				
Type	PathLinkExtensionType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element LegType / SelfDriveMode

Namespace	http://www.apisim.fr/common/1.0/itinerary		
Annotations	Enumération des modes de transport		
Diagram	<pre> classDiagram class SelfDriveMode class netex:AccessModeEnumeration SelfDriveMode "0..1" -- "1..1" netex:AccessModeEnumeration note over SelfDriveMode: Enumération des modes de transport note over netex:AccessModeEnumeration: Allowed values for Access MODEs for SITEs. </pre>		
Type	AccessModeEnumeration		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple
content:	simple		

Element LegType / Extension

Namespace	http://www.apisim.fr/common/1.0/itinerary
Diagram	<pre> classDiagram class LegExtensionType class Extension class any LegExtensionType "0..1" -- "1..1" Extension Extension "0..1" -- "1..1" any note over Extension: Extension prévue pour compléter la description du Leg </pre>

Type	LegExtensionType
Properties	<p>content: complex</p> <p>minOccurs: 0</p>

Element CarbonFootprintType / TripCO2

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Bilan carbone pour le trajet
Diagram	
Type	xs:int
Properties	content: simple

Element CarbonFootprintType / CarCO2

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Bilan carbone pour le trajet s'il est effectué en voiture entièrement
Diagram	
Type	xs:int
Properties	content: simple

Element CarbonFootprintType / Ratio

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Rapport entre les bilan carbone calculés, inférieur à 1 si le trajet émet moins de CO2 que s'il était fait entièrement en voiture
Diagram	
Type	xs:double
Properties	content: simple

Element TripType / Distance

Namespace	http://www.apiiSim.fr/common/1.0/itinerary
Annotations	Distance parcourue par l'itinéraire entier
Diagram	
Type	xs:int
Properties	<p>content: simple</p> <p>minOccurs: 0</p>

Element TripType / Disrupted

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Indique s'il y a une perturbation sur le parcours				
Diagram	<p>Diagram illustrating the Disrupted element. It shows a box labeled "Disrupted" with a line pointing to a box labeled "xs:boolean". A callout box below "Disrupted" says "Indique s'il y a une perturbation sur le parcours". A callout box next to "xs:boolean" says "Built-in primitive type. It defines the boolean values true and false.".</p>				
Type	xs:boolean				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element TripType / InterchangeNumber

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Total de changement nécessaires pour parcourir l'itinéraire en entier				
Diagram	<p>Diagram illustrating the InterchangeNumber element. It shows a box labeled "InterchangeNumber" with a line pointing to a box labeled "xs:int". A callout box below "InterchangeNumber" says "Total de changement nécessaires pour parcourir l'itinéraire en entier". A callout box next to "xs:int" says "Built-in derived type. The int datatype is derived from long by setting the value of maxInclusive to be 2147483647 and...".</p>				
Type	xs:int				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element TripType / CarFootprint

Namespace	http://www.apiisim.fr/common/1.0/itinerary				
Annotations	Bilan carbone de l'itinéraire entier				
Diagram	<p>Diagram illustrating the CarFootprint element. It shows a box labeled "CarFootprint" with a line pointing to a box labeled "CarbonFootprintType". Inside "CarbonFootprintType" are boxes for "TripCO2", "CarCO2", and "Ratio". Callout boxes explain: "Bilan carbone pour le trajet" for TripCO2, "Bilan carbone pour le trajet s'il est effectué en voiture entièrement" for CarCO2, and "Rapport entre les bilan carbone calculés, inférieur à 1 si le trajet émet moins de CO2 que s'il était fait entièrement..." for Ratio. A callout box at the bottom says "Structure de description du bilan carbone d'un itinéraire complet".</p>				
Type	CarbonFootprintType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element TripType / sections

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	liste de portions d'itinéraire permettant de réaliser un itinéraire complet et compatible avec les critères de recherche

Diagram	<p>Diagram illustrating the structure of SectionType:</p> <ul style="list-style-type: none"> SectionType class with an attribute sections (list of PartialTrips). Composition relationship from SectionType to PartialTrip (labeled PartialTripId). PartialTrip class with an attribute PTRide (labeled Leg). Annotation for sections: liste de portions d'itinéraire permettant de réaliser un itinéraire complet et compatible avec les critères de recherche. Annotation for PartialTripId: Identifiant de la portion d'itinéraire décrite. Annotation for PTRide: Portion de l'itinéraire où le voyageur est pris en charge (mise à disposition d'un moyen de transport). Annotation for Leg: Portion de l'itinéraire où le voyageur assume seul son déplacement (véhicule éventuel et orientation). Annotation for the overall structure: Portion d'itinéraire réalisé à l'aide d'un même moyen de transport. 						
Type	SectionType						
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded
content:	complex						
minOccurs:	0						
maxOccurs:	unbounded						

Simple Type(s)

Simple Type `transportModeEnumeration`

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Enumération des modes de transport
Diagram	<p>Diagram illustrating the structure of TransportModeEnumeration:</p> <ul style="list-style-type: none"> TransportModeEnumeration class with a composition relationship to xs:string. Annotation for TransportModeEnumeration: Enumération des modes de transport. Annotation for xs:string: Built-in primitive type. The string datatype represents character strings in XML.
Type	restriction of xs:string

Simple Type `tripPartEnumeration`

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Début ou fin d'itinéraire
Diagram	<p>Diagram illustrating the structure of TripPartEnumeration:</p> <ul style="list-style-type: none"> TripPartEnumeration class with a composition relationship to xs:string. Annotation for TripPartEnumeration: Début ou fin d'itinéraire. Annotation for xs:string: Built-in primitive type. The string datatype represents character strings in XML.
Type	restriction of xs:string

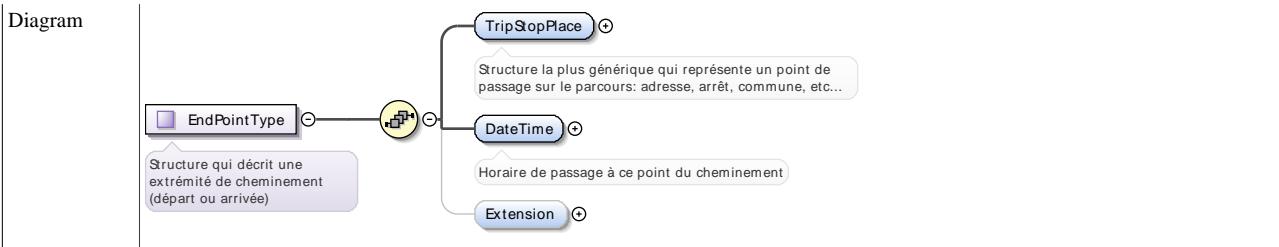
Simple Type `publicTransportModeEnumeration`

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Enumération des modes de transport public
Diagram	<p>Diagram illustrating the structure of PublicTransportModeEnumeration:</p> <ul style="list-style-type: none"> PublicTransportModeEnumeration class with a composition relationship to xs:string. Annotation for PublicTransportModeEnumeration: Enumération des modes de transport public. Annotation for xs:string: Built-in primitive type. The string datatype represents character strings in XML.
Type	restriction of xs:string

Complex Type(s)

Complex Type `EndPointType`

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure qui décrit une extrémité de cheminement (départ ou arrivée)



Complex Type EndPointExtensionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure d'extension des extrémités de cheminement
Diagram	<pre> classDiagram class EndPointExtensionType "#any" EndPointExtensionType "0..1" --> "#any" </pre> <p>Structure d'extension des extrémités de cheminement</p>

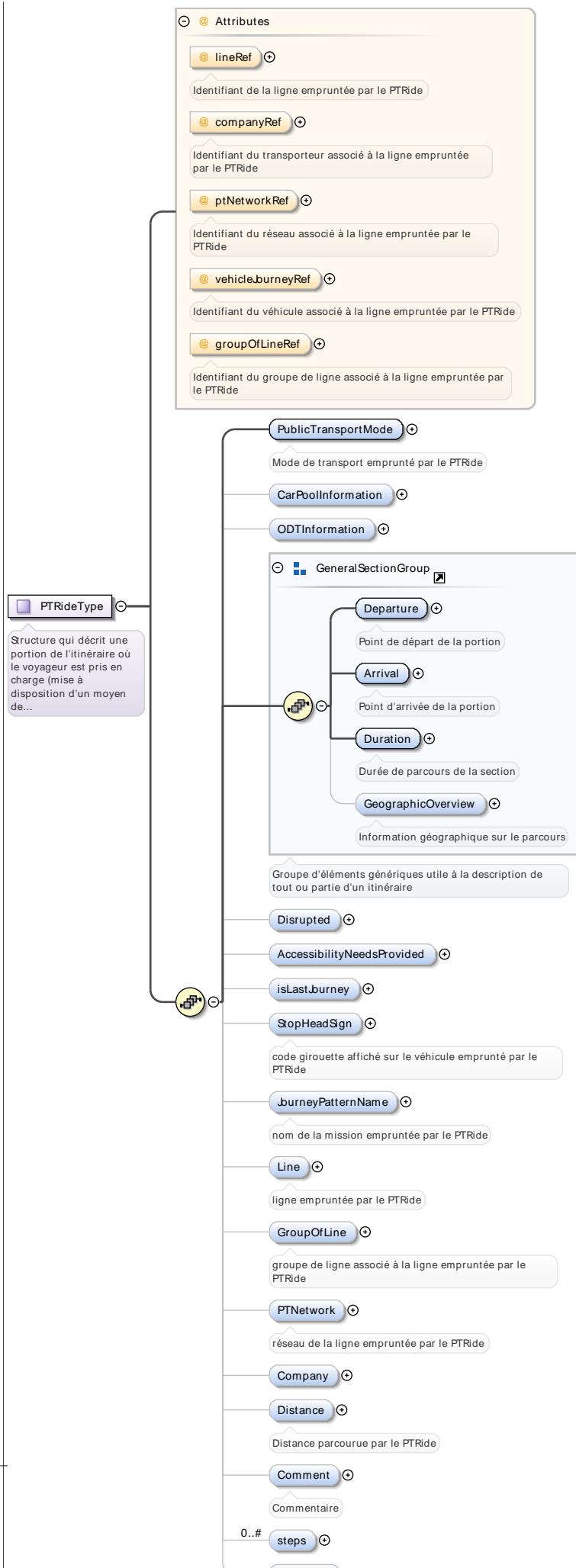
Complex Type SectionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Portion d'itinéraire réalisé à l'aide d'un même moyen de transport.
Diagram	<pre> classDiagram class SectionType class PartialTripId class PTRide class Leg SectionType "0..1" --> "0..1" PartialTripId SectionType "0..1" --> "0..1" PTRide SectionType "0..1" --> "0..1" Leg </pre> <p>Portion d'itinéraire réalisé à l'aide d'un même moyen de transport.</p> <p>Identifiant de la portion d'itinéraire décrite</p> <p>Portion de l'itinéraire où le voyageur est pris en charge (mise à disposition d'un moyen de transport).</p> <p>Portion de l'itinéraire où le voyageur assume seul son déplacement (véhicule éventuel et orientation).</p>

Complex Type PTRideType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure qui décrit une portion de l'itinéraire où le voyageur est pris en charge (mise à disposition d'un moyen de transport).

Diagram



Attributes	QName	Type	Use	
	companyRef	xs:string	optional	
		Identifiant du transporteur associé à la ligne empruntée par le PTRide		
	groupOfLineRef	xs:string	optional	
		Identifiant du groupe de ligne associé à la ligne empruntée par le PTRide		
	lineRef	xs:string	optional	
		Identifiant de la ligne empruntée par le PTRide		
	ptNetworkRef	xs:string	optional	
		Identifiant du réseau associé à la ligne empruntée par le PTRide		
	vehicleJourneyRef	xs:string	optional	
		Identifiant du véhicule associé à la ligne empruntée par le PTRide		

Complex Type CarPoolInformationType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure de description d'un itinéraire par co-voiturage
Diagram	

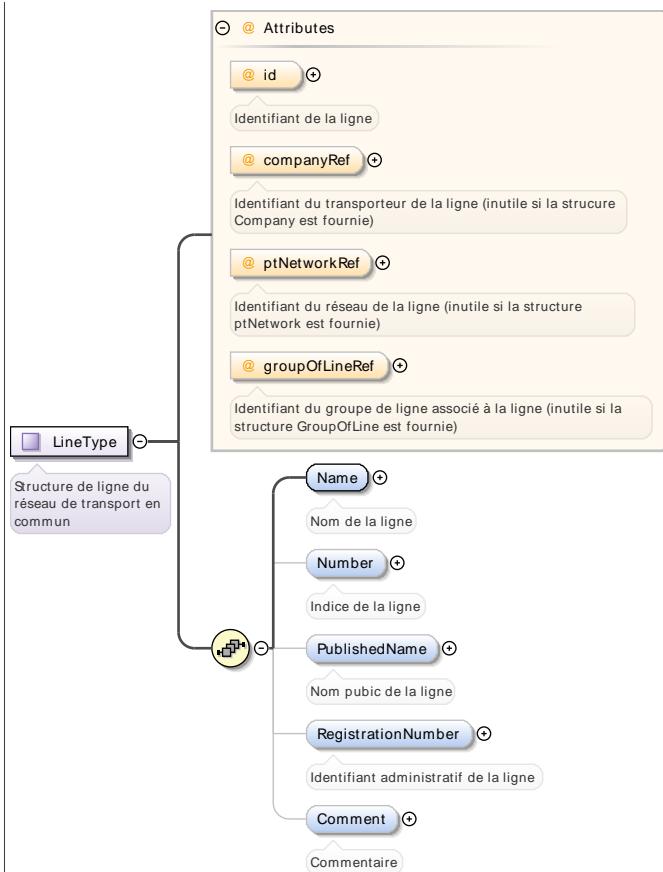
Complex Type ODTInformationType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure de description d'un itinéraire en Transport à la Demande (TAD en français)
Diagram	

Complex Type LineType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure de ligne du réseau de transport en commun

Diagram



Attributes

QName	Type	Use	
companyRef	xs:string	optional	
			Identifiant du transporteur de la ligne (inutile si la structure Company est fournie)
groupOfLineRef	xs:string	optional	
			Identifiant du groupe de ligne associé à la ligne (inutile si la structure GroupOfLine est fournie)
id	xs:string	optional	
			Identifiant de la ligne
ptNetworkRef	xs:string	optional	
			Identifiant du réseau de la ligne (inutile si la structure ptNetwork est fournie)

Complex Type GroupOfLineType

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Structure qui décrit le groupe de ligne		
Diagram	<p>GroupOfLineType</p> <p>Structure qui décrit le groupe de ligne</p> <p>Attributes:</p> <ul style="list-style-type: none"> @id (Identifiant du groupe de ligne) <p>Associations:</p> <ul style="list-style-type: none"> Name (Nom du groupe de ligne) 		
Attributes	QName	Type	Use
	id	xs:string	optional
			Identifiant du groupe de ligne

Complex Type PTNetworkType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
-----------	--

Annotations	Structure qui décrit le réseau		
Diagram	<pre> classDiagram class PTNetworkType { @id xs:string Name xs:string VersionDate xs:string RegistrationNumber xs:string Comment xs:string } PTNetworkType < -- PTNetworkType </pre>		
Attributes	QName id	Type xs:string	Use optional Identifiant du réseau de transport

Complex Type CompanyType

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Structure qui décrit le transporteur		
Diagram	<pre> classDiagram class CompanyType { @id xs:string Name xs:string RegistrationNumber xs:string ShortName xs:string OrganisationalUnit xs:string OperatingDepartementName xs:string Phone xs:string Code xs:string Fax xs:string Email xs:string } CompanyType < -- CompanyType </pre>		
Attributes	QName id	Type xs:string	Use optional Identifiant du transporteur

Complex Type StepType

Namespace	http://www.apiisim.fr/common/1.0/itinerary											
Annotations	Structure qui décrit une section de transport en commun. Tout au long d'une section, le voyageur est à bord d'un même véhicule.											
Diagram	<pre> classDiagram class StepType { @ Attributes @ id Departure Arrival Geometry Duration Distance GuidanceInfo Extension } StepType < -- EndPointType StepType < -- StepEndPointType </pre> <p>The diagram illustrates the structure of the StepType complex type. It is an extension of the EndPointType. The StepType class contains the following attributes:</p> <ul style="list-style-type: none"> @ id: Identifiant de la section de transport en commun. Departure: Départ du véhicule. Arrival: Arrivée du véhicule. Geometry: Tracé géographique de la section. Duration: Durée de parcours de la section. Distance: Distance parcourue sur la section. GuidanceInfo: Instruction associée à un guidage à ce niveau du cheminement. Extension: Additional extension. 											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>optional</td> </tr> <tr> <td></td> <td colspan="2">Identifiant de la section de transport en commun</td></tr> </tbody> </table>	QName	Type	Use	id	xs:string	optional		Identifiant de la section de transport en commun			
QName	Type	Use										
id	xs:string	optional										
	Identifiant de la section de transport en commun											

Complex Type StepEndPointType

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Diagram	<pre> classDiagram class EndPointType { < -- StepEndPointType } class StepEndPointType { TripStopPlace DateTime Extension } class StepEndPointType { < -- PassThrough } </pre> <p>The diagram illustrates the structure of the StepEndPointType complex type, which is an extension of the EndPointType. It contains the following associations:</p> <ul style="list-style-type: none"> TripStopPlace: Structure la plus générique qui représente un point de passage sur le parcours: adresse, arrêt, commune, etc... DateTime: Horaire de passage à ce point du cheminement. Extension: Additional extension. PassThrough: Structure qui décrit une extrémité de cheminement (départ ou arrivée). 		
Type	extension of EndPointType		

Complex Type GuidanceInfoType

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Structure qui décrit une instruction de guidage		



Complex Type GuidanceInfoExtensionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Diagram	

Complex Type StepExtensionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Extension de la structure StepType
Diagram	

Extension de la structure StepType

Complex Type PTRideExtensionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Extension prévue pour compléter la description du PTRide
Diagram	

Extension prévue pour compléter la description du PTRide

Complex Type LegType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure qui décrit une portion de l'itinéraire où le voyageur assume seul son déplacement (véhicule éventuel et orientation).
Diagram	

Structure qui décrit une portion de l'itinéraire où le voyageur assume seul son déplacement (véhicule éventuel et...)

LegType

0..1

pathLinks

Cheminement

SelfDriveMode

Enumération des modes de transport

GeneralSectionGroup

Departure

Point de départ de la portion

Arrival

Point d'arrivée de la portion

Duration

Durée de parcours de la section

GeographicOverview

Information géographique sur le parcours

Groupe d'éléments génériques utile à la description de tout ou partie d'un itinéraire

Extension

Complex Type PathLinkType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
-----------	--

Annotations	Structure qui décrit un cheminement qui n'emprunte pas de véhicule de transport en commun									
Diagram	<pre> classDiagram class PathLinkType { <<Structure qui décrit un cheminement qui n'emprunte pas de véhicule de transport en commun>> } class Attributes { <<@ Attributes>> id Departure Arrival Duration Distance Geometry GuidanceInfo Extension } PathLinkType < -- Attributes </pre>									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>optional</td> </tr> <tr> <td></td> <td>Identifiant du cheminement</td> <td></td> </tr> </tbody> </table>	QName	Type	Use	id	xs:string	optional		Identifiant du cheminement	
QName	Type	Use								
id	xs:string	optional								
	Identifiant du cheminement									

Complex Type PathLinkExtensionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Extension de la structure PathLinkType
Diagram	<pre> classDiagram class PathLinkExtensionType { <<Extension de la structure PathLinkType>> } class Any { <<V##any>> } PathLinkExtensionType < -- Any </pre>

Complex Type LegExtensionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Extension prévue pour compléter la description du Leg
Diagram	<pre> classDiagram class LegExtensionType { <<Extension prévue pour compléter la description du Leg>> } class Any { <<V##any>> } LegExtensionType < -- Any </pre>

Complex Type CarbonFootprintType

Namespace	http://www.apiisim.fr/common/1.0/itinerary
Annotations	Structure de description du bilan carbone d'un itinéraire complet
Diagram	<pre> classDiagram class CarbonFootprintType { <<Structure de description du bilan carbone d'un itinéraire complet>> } class TripCO2 { <<Bilan carbone pour le trajet>> } class CarCO2 { <<Bilan carbone pour le trajet s'il est effectué en voiture entièrement>> } class Ratio { <<Rapport entre les bilan carbone calculés, inférieur à 1 si le trajet émet moins de CO2 que s'il était fait entièrement...>> } CarbonFootprintType < -- TripCO2 CarbonFootprintType < -- CarCO2 CarbonFootprintType < -- Ratio </pre>

Complex Type TripType

Namespace	http://www.apiisim.fr/common/1.0/itinerary											
Annotations	Structure qui détaille les caractéristiques d'une solution d'itinéraire complet et compatible avec les critères de recherche											
Diagram	<pre> classDiagram class TripType { @id GeneralSectionGroup Distance Disrupted InterchangeNumber CarFootprint sections } class GeneralSectionGroup { Departure Arrival Duration GeographicOverview } TripType "1" -- "1" GeneralSectionGroup TripType "1" -- "1" Distance TripType "1" -- "1" Disrupted TripType "1" -- "1" InterchangeNumber TripType "1" -- "1" CarFootprint TripType "1..#" -- "1" sections </pre> <p>The diagram illustrates the structure of the TripType complex type. It includes an attribute @id (with a note: 'Cet identifiant permet de bien distinguer les Trip issus des différentes notifications successives.'), a GeneralSectionGroup element (with sub-elements Departure, Arrival, Duration, and GeographicOverview), and other elements Distance, Disrupted, InterchangeNumber, CarFootprint, and sections (with a note: 'liste de portions d'itinéraire permettant de réaliser un itinéraire complet et compatible avec les critères de recherche').</p>											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>required</td> </tr> <tr> <td colspan="3">Cet identifiant permet de bien distinguer les Trip issus des différentes notifications successives.</td></tr> </tbody> </table>	QName	Type	Use	id	xs:string	required	Cet identifiant permet de bien distinguer les Trip issus des différentes notifications successives.				
QName	Type	Use										
id	xs:string	required										
Cet identifiant permet de bien distinguer les Trip issus des différentes notifications successives.												

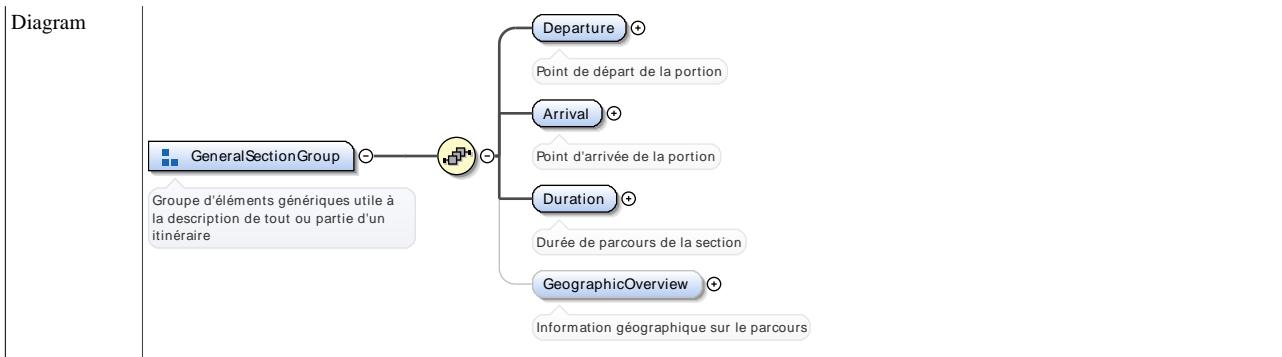
Complex Type StepEndPointExtensionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Diagram	<pre> classDiagram class StepEndPointExtensionType StepEndPointExtensionType "1" -- "1" any </pre> <p>The diagram shows the StepEndPointExtensionType complex type with an association to any.</p>		

Element Group(s)

Element Group GeneralSectionGroup

Namespace	http://www.apiisim.fr/common/1.0/itinerary		
Annotations	Groupe d'éléments génériques utile à la description de tout ou partie d'un itinéraire		



Namespace: "http://www.opengis.net/gml/3.2"

Schema(s)

Imported schema gml.xsd

Namespace	http://www.opengis.net/gml/3.2
Annotations	GML is an OGC Standard. Copyright (c) 2007,2010 Open Geospatial Consortium. To obtain additional rights of use, visit http://www.opengeospatial.org/legal/ .
Properties	attribute form default: unqualified element form default: qualified version: 3.2.1.2

Element(s)

Element gml:metaDataProperty

Namespace	http://www.opengis.net/gml/3.2																																												
Diagram																																													
Type	gml:MetaDataPropertyType																																												
Properties	content: complex																																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>about</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	about	anyURI		optional	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:title	xlink:titleAttrType		optional																																										
xlink:type	xlink:typeType	simple	optional																																										

Element `gml:AbstractMetaData`

Namespace	http://www.opengis.net/gml/3.2									
Diagram	<p>The diagram illustrates the structure of the <code>gml:AbstractMetaDataType</code>. It includes a description of the <code>gml:id</code> attribute, a list of substitutions (including <code>gml:GenericMetaData</code>), and a substitution group for <code>gml:AbstractObject</code>.</p>									
Type	<code>gml:AbstractMetaDataType</code>									
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>abstract:</td><td>true</td></tr> <tr> <td>mixed:</td><td>true</td></tr> </table>	content:	complex	abstract:	true	mixed:	true			
content:	complex									
abstract:	true									
mixed:	true									
Substitution Group	<ul style="list-style-type: none"> • <code>gml:GenericMetaData</code> 									
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractObject</code> 									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:id</code></td><td>ID</td><td>optional</td></tr> <tr> <td></td><td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	optional		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
<code>gml:id</code>	ID	optional								
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Element `gml:description`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	The value of this property is a text description of the object. <code>gml:description</code> uses <code>gml:StringOrRefType</code> as its content model, so it may contain a simple text string content, or carry a reference to an external description. The use of <code>gml:description</code> to reference an external description has been deprecated and replaced by the <code>gml:descriptionReference</code> property.		
Diagram	<p>The diagram illustrates the structure of the <code>gml:StringOrRefType</code>. It includes a description of the <code>string</code> type and a description of the <code>gml:AssociationAttributeGroup</code> attribute.</p>		
Type	<code>gml:StringOrRefType</code>		
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		

Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	gml:NilReasonType		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Element **gml:descriptionReference**

Namespace	http://www.opengis.net/gml/3.2																																																											
Annotations	The value of this property is a remote text description of the object. The xlink:href attribute of the gml:descriptionReference property references the external description.																																																											
Diagram	<p>The diagram illustrates the structure of the gml:ReferenceType element. It shows the following components:</p> <ul style="list-style-type: none"> gml:ReferenceType (parent element) Attributes (child element) gml:OwnershipAttributeGroup (child element) gml:AssociationAttributeGroup (child element) descriptionReference (child element) <p>Annotations for the descriptionReference element state: "The value of this property is a remote text description of the object. The xlink:href attribute of the gml:descriptionReference property references the external description." and "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....". A note for gml:ReferenceType states: "gml:ReferenceType is intended to be used in application schemas directly, if a property element shall use a...".</p>																																																											
Type	gml:ReferenceType																																																											
Properties	content: complex																																																											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>					QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:title	xlink:titleAttrType			optional																																																								
xlink:type	xlink:typeType	simple		optional																																																								

Element **gml:identifier**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in references to the object. For such cases, the codeSpace shall be provided. That identifier is usually unique either globally or within an application domain. gml:identifier is a pre-defined property for such identifiers.				

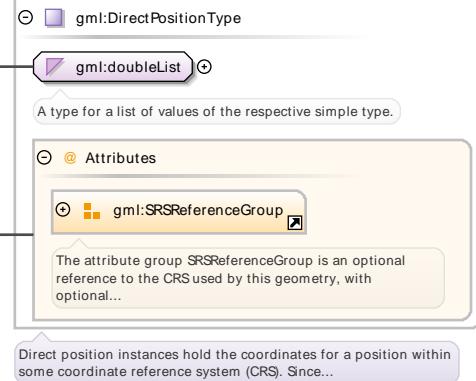
Diagram	<p>gml:CodeWithAuthorityType</p> <p>gml:CodeType (restriction base)</p> <p>string</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Attributes</p> <p>@ codeSpace</p> <p>gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,...</p> <p>Attributes</p> <p>@ codeSpace</p> <p>gml:CodeWithAuthorityType requires that the codeSpace attribute is provided in an instance.</p> <p>identifier</p> <p>Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in...</p>						
Type	gml:CodeWithAuthorityType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>codeSpace</td><td>anyURI</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	required
QName	Type	Use					
codeSpace	anyURI	required					

Element gml:name

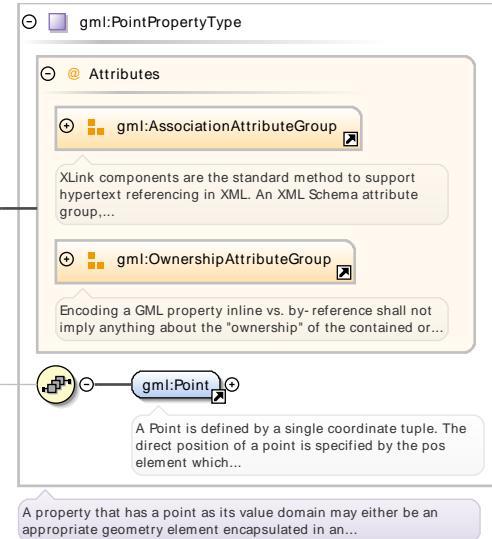
Namespace	http://www.opengis.net/gml/3.2						
Annotations	The gml:name property provides a label or identifier for the object, commonly a descriptive name. An object may have several names, typically assigned by different authorities. gml:name uses the gml:CodeType content model. The authority for a name is indicated by the value of its (optional) codeSpace attribute. The name may or may not be unique, as determined by the rules of the organization responsible for the codeSpace. In common usage there will be one name per authority, so a processing application may select the name from its preferred codeSpace.						
Diagram	<p>gml:CodeType</p> <p>string</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Attributes</p> <p>@ codeSpace</p> <p>gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,...</p> <p>name</p> <p>The gml:name property provides a label or identifier for the object, commonly a descriptive name. An object may have...</p>						
Type	gml:CodeType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>codeSpace</td><td>anyURI</td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional
QName	Type	Use					
codeSpace	anyURI	optional					

Element gml:pos

Namespace	http://www.opengis.net/gml/3.2
-----------	--------------------------------

Diagram																
Type	gml:DirectPositionType															
Properties	content: complex															
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>axisLabels</td><td>gml:NCNameList</td><td>optional</td></tr> <tr> <td>srsDimension</td><td>positiveInteger</td><td>optional</td></tr> <tr> <td>srsName</td><td>anyURI</td><td>optional</td></tr> <tr> <td>uomLabels</td><td>gml:NCNameList</td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	axisLabels	gml:NCNameList	optional	srsDimension	positiveInteger	optional	srsName	anyURI	optional	uomLabels	gml:NCNameList	optional
QName	Type	Use														
axisLabels	gml:NCNameList	optional														
srsDimension	positiveInteger	optional														
srsName	anyURI	optional														
uomLabels	gml:NCNameList	optional														

Element gml:pointProperty

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	This property element either references a point via the XLink-attributes or contains the point element. pointProperty is the predefined property which may be used by GML Application Schemas whenever a GML feature has a property with a value that is substitutable for Point.																																								
Diagram																																									
Type	gml:PointPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional
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xlink:href	xlink:hrefType			optional																																					
xlink:role	xlink:roleType			optional																																					

QName	Type	Fixed	Default	Use
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Element **gml:Point**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A Point is defined by a single coordinate tuple. The direct position of a point is specified by the pos element which is of type DirectPositionType.
Diagram	
Type	gml:PointType

Properties	content: complex			
Substitution Group Affiliation	• gml:AbstractGeometricPrimitive			
Attributes	QName	Type	Use	
	axisLabels	gml:NCNameList	optional	
	gml:id	ID	required	
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional	
	srsName	anyURI	optional	
	uomLabels	gml:NCNameList	optional	

Element gml:coordinates

Namespace	http://www.opengis.net/gml/3.2																
Diagram	<p>The diagram shows the structure of the gml:CoordinatesType. It is a string type with attributes cs, decimal, and ts. A note states: "This type is deprecated for tuples with ordinate values that are numbers. CoordinatesType is a text string, intended to..."</p>																
Type	gml:CoordinatesType																
Properties	content: complex																
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>cs</td><td>string</td><td>,</td><td>optional</td></tr> <tr> <td>decimal</td><td>string</td><td>.</td><td>optional</td></tr> <tr> <td>ts</td><td>string</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	cs	string	,	optional	decimal	string	.	optional	ts	string		optional
QName	Type	Default	Use														
cs	string	,	optional														
decimal	string	.	optional														
ts	string		optional														

Element gml:pointRep

Namespace	http://www.opengis.net/gml/3.2
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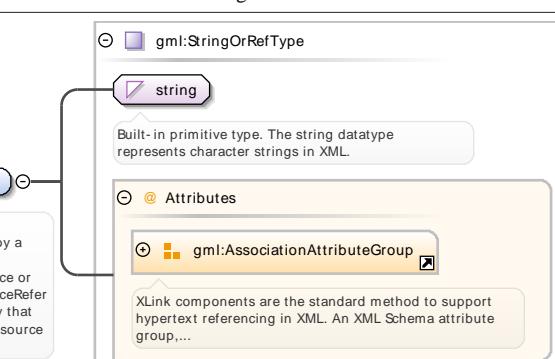
Diagram	<p>The diagram illustrates the structure of the gml:PointPropertyType. It starts with a main box for gml:PointPropertyType, which contains an 'Attributes' section. This section includes two groups: gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. A callout box for gml:AssociationAttributeGroup states: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...'. A callout box for gml:OwnershipAttributeGroup states: 'Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...'. Below these groups is a box for gml:Point, which contains the text: 'A Point is defined by a single coordinate tuple. The direct position of a point is specified by the pos element which...'. A callout box for gml:Point states: 'A property that has a point as its value domain may either be an appropriate geometry element encapsulated in an...'. A 'pointRep' node is connected to the 'Attributes' section.</p>																																																							
Type	gml:PointPropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element gml:posList

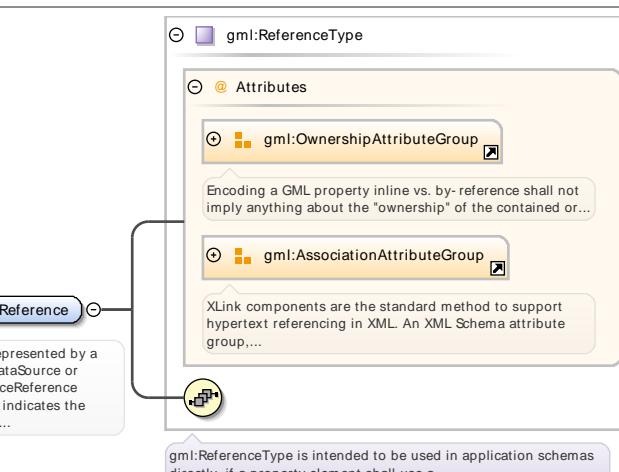
Namespace	http://www.opengis.net/gml/3.2									
Diagram	<p>The diagram illustrates the structure of the gml:DirectPositionListType. It starts with a main box for gml:DirectPositionListType, which contains an 'Attributes' section. This section includes a group gml:SRSReferenceGroup and an attribute @count. A callout box for gml:SRSReferenceGroup states: 'The attribute group SRSReferenceGroup is an optional reference to the CRS used by this geometry, with optional...'. A callout box for @count states: 'posList instances (and other instances with the content model specified by DirectPositionListType) hold the coordinates...'. A 'posList' node is connected to the 'Attributes' section.</p>									
Type	gml:DirectPositionListType									
Properties	content: complex									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>axisLabels</td><td>gml:NCNameList</td><td>optional</td></tr> <tr> <td>count</td><td>positiveInteger</td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	axisLabels	gml:NCNameList	optional	count	positiveInteger	optional
QName	Type	Use								
axisLabels	gml:NCNameList	optional								
count	positiveInteger	optional								

QName	Type	Use
srsDimension	positiveInteger	optional
srsName	anyURI	optional
uomLabels	gml:NCNameList	optional

Element **gml: dataSource**

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	Evidence is represented by a simple gml: dataSource or gml: dataSourceReference property that indicates the source of the temporal data. The remote link attributes of the gml: dataSource element have been deprecated along with its current type.																																								
Diagram																																									
Type	gml: StringOrRefType																																								
Properties	content: complex																																								
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QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml: NilReasonType		optional																																						
xlink:actuate	xlink: actuateType		optional																																						
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xlink:title	xlink: titleAttrType		optional																																						
xlink:type	xlink: typeType	simple	optional																																						

Element **gml: dataSourceReference**

Namespace	http://www.opengis.net/gml/3.2
Annotations	Evidence is represented by a simple gml: dataSource or gml: dataSourceReference property that indicates the source of the temporal data.
Diagram	

Type	gml:ReferenceType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

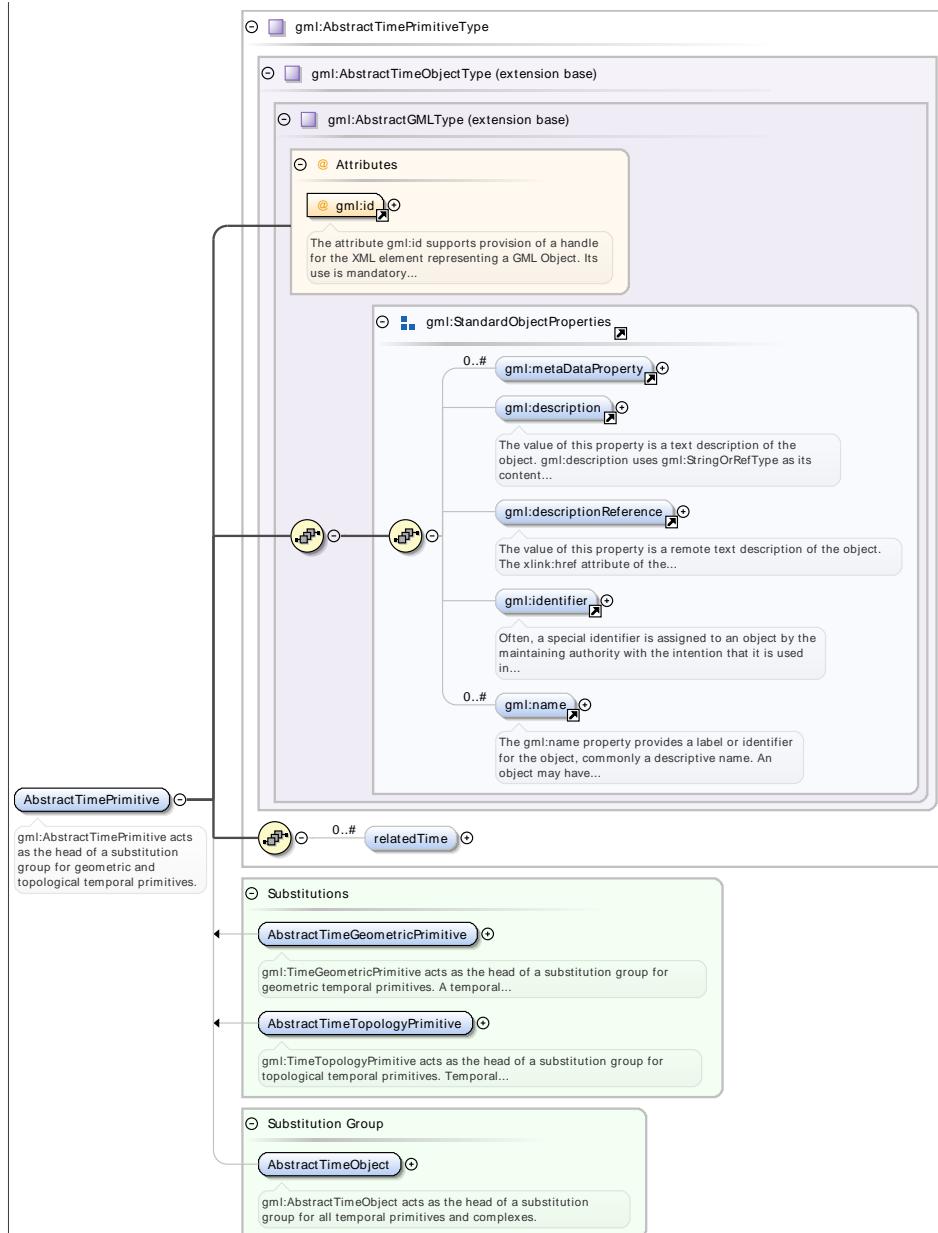
Element gml:validTime

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:validTime is a convenience property element.				
Diagram					
Type	gml:TimePrimitivePropertyType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element gml:AbstractTimePrimitive

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:AbstractTimePrimitive acts as the head of a substitution group for geometric and topological temporal primitives.				

Diagram



Type	<code>gml:AbstractTimePrimitiveType</code>		
Properties	<p>content: complex</p> <p>abstract: true</p>		
Substitution Group	<ul style="list-style-type: none"> <code>gml:AbstractTimeGeometricPrimitive</code> <code>gml:TimeInstant</code> <code>gml:TimePeriod</code> <code>gml:AbstractTimeTopologyPrimitive</code> <code>gml:TimeNode</code> <code>gml:TimeEdge</code> 		
Substitution Group Affiliation	<ul style="list-style-type: none"> <code>gml:AbstractTimeObject</code> 		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element **gml:AbstractTimePrimitiveType** / **gml:relatedTime**

Namespace	http://www.opengis.net/gml/3.2																																																												
Diagram																																																													
Type	gml:RelatedTimeType																																																												
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded																																																						
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xlink:actuate	xlink:actuateType			optional																																																									
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xlink:title	xlink:titleAttrType			optional																																																									
xlink:type	xlink:typeType	simple		optional																																																									

Element **gml:history**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A generic sequence of events constitute a gml:history of an object. The gml:history element contains a set of elements in the substitution group headed by the abstract element gml:AbstractTimeSlice, representing the time-varying properties of interest.

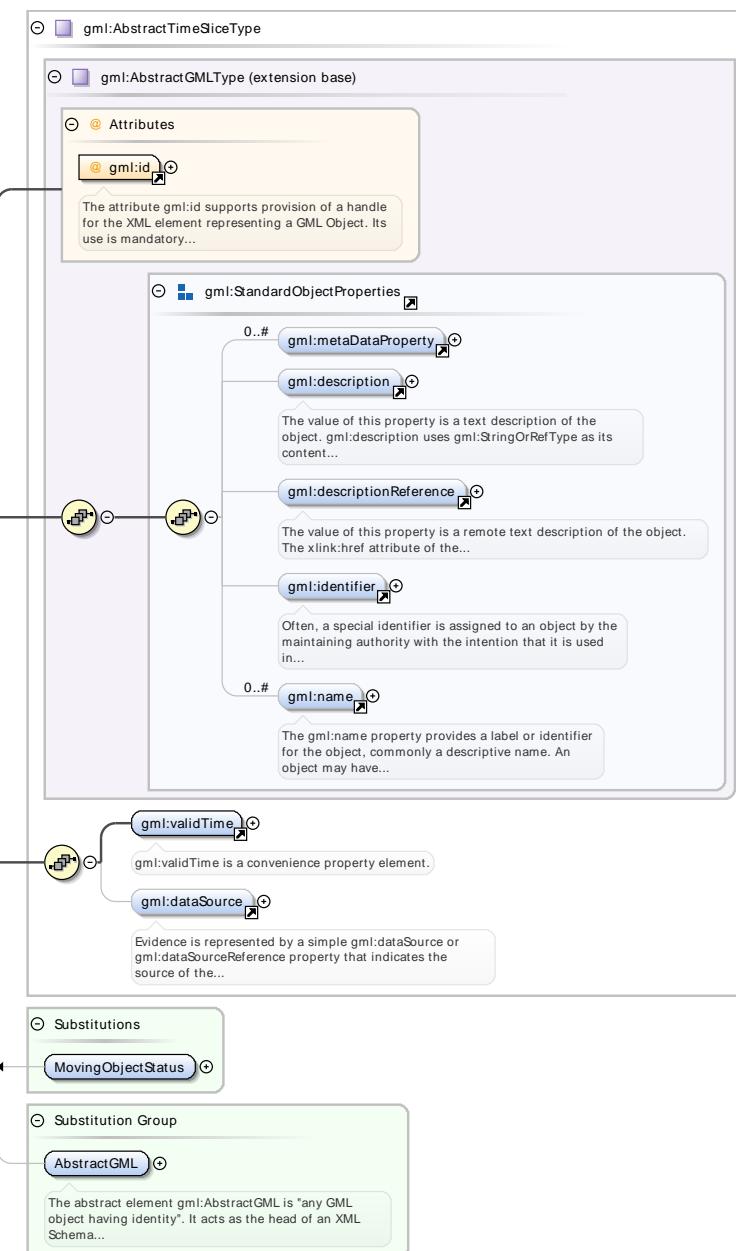
The history property of a dynamic feature associates a feature instance with a sequence of time slices (i.e. change events) that encapsulate the evolution of the feature.

Diagram									
Type	gml:HistoryPropertyType								
Properties	content: complex								
Substitution Group	• gml:track								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Element **gml:AbstractTimeSlice**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>To describe an event — an action that occurs at an instant or over an interval of time — GML provides the gml:AbstractTimeSlice element. A timeslice encapsulates the time-varying properties of a dynamic feature -- it shall be extended to represent a time stamped projection of a specific feature. The gml:dataSource property describes how the temporal data was acquired. A gml:AbstractTimeSlice instance is a GML object that encapsulates updates of the dynamic—or volatile—properties that reflect some change event; it thus includes only those feature properties that have actually changed due to some process. gml:AbstractTimeSlice basically provides a facility for attribute-level time stamping, in contrast to the object-level time stamping of dynamic feature instances. The time slice can thus be viewed as event or process-oriented, whereas a snapshot is more state or structure-oriented. A timeslice has richer causality, whereas a snapshot merely portrays the status of the whole.</p>

Diagram



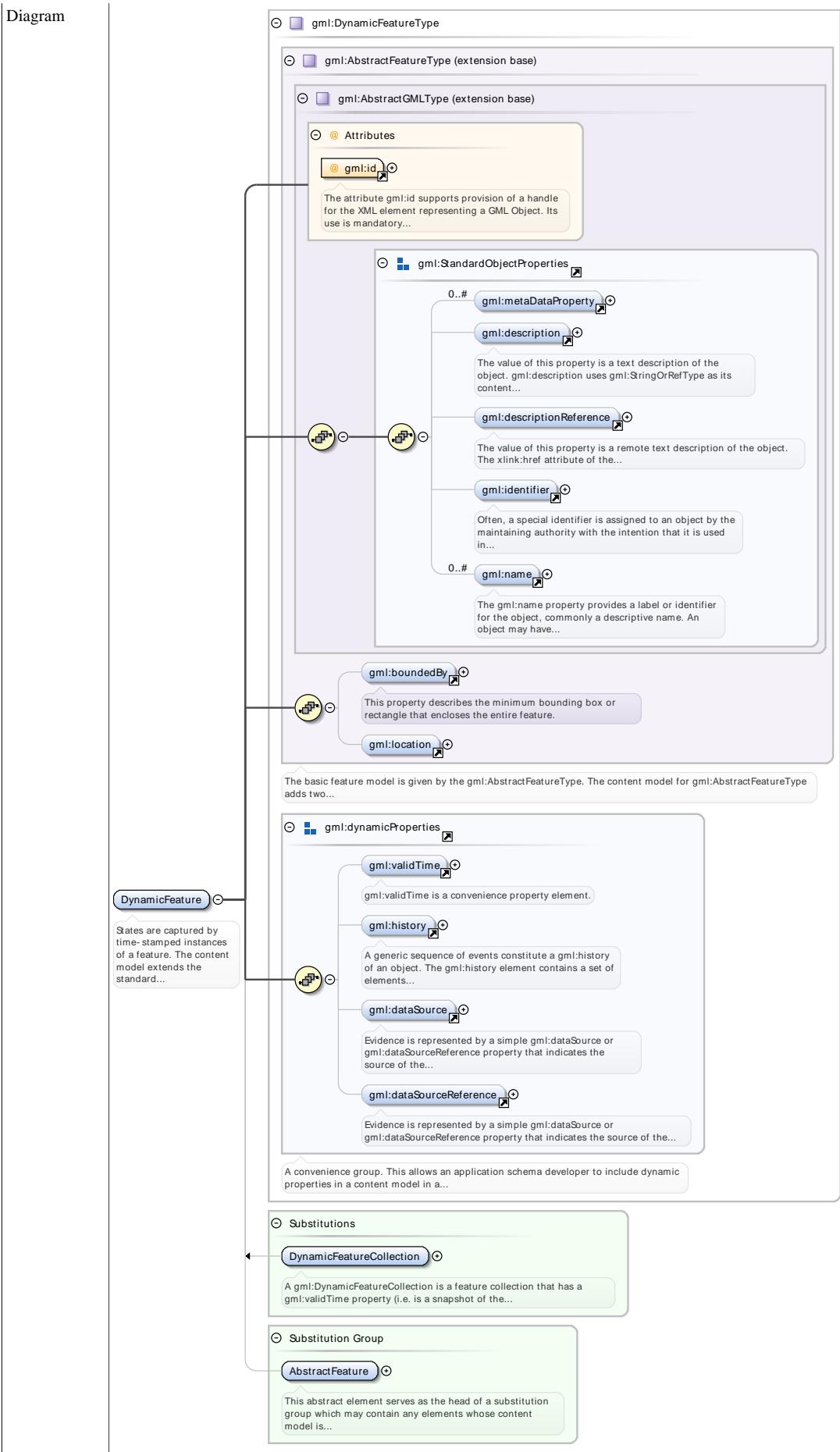
Type	gml:AbstractTimeSliceType		
Properties	content:	complex	
	abstract:	true	
Substitution Group	• gml:MovingObjectStatus		
Substitution Group Affiliation	• gml:AbstractGML		
Attributes	QName	Type	Use
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element gml:DynamicFeature

Namespace	http://www.opengis.net/gml/3.2
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Annotations	States are captured by time-stamped instances of a feature. The content model extends the standard <code>gml:AbstractFeatureType</code> with the <code>gml:dynamicProperties</code> model group. Each time-stamped instance represents a 'snapshot' of a feature. The dynamic feature classes will normally be extended to suit particular applications. A dynamic feature bears either a time stamp or a history.
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Diagram



Type	gml:DynamicFeatureType		
Properties	content: complex		
Substitution Group	• gml:DynamicFeatureCollection		
Substitution Group Affiliation	• gml:AbstractFeature		
Attributes	QName	Type	Use
	gml:id	ID	required
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Element gml:boundedBy

Namespace	http://www.opengis.net/gml/3.2		
Annotations	This property describes the minimum bounding box or rectangle that encloses the entire feature.		
Diagram	<pre> classDiagram class gml:BoundingShapeType { @ Attributes @ nilReason gml:Envelope } class gml:Envelope { lowerCorner upperCorner } note over gml:Envelope: This property describes the minimum bounding box or rectangle that encloses the entire feature. </pre>		
Type	gml:BoundingShapeType		
Properties	content: complex		
	nillable: true		
Attributes	QName	Type	Use
	nilReason	gml:NilReasonType	optional

Element gml:Envelope

Namespace	http://www.opengis.net/gml/3.2		
Annotations	Envelope defines an extent using a pair of positions defining opposite corners in arbitrary dimensions. The first direct position is the "lower corner" (a coordinate position consisting of all the minimal ordinates for each dimension for all points within the envelope), the second one the "upper corner" (a coordinate position consisting of all the maximal ordinates for each dimension for all points within the envelope). The use of the properties "coordinates" and "pos" has been deprecated. The explicitly named properties "lowerCorner" and "upperCorner" shall be used instead.		

Diagram																					
Type	gml:EnvelopeType																				
Properties	content: complex																				
Substitution Group	• gml:EnvelopeWithTimePeriod																				
Substitution Group Affiliation	• gml:AbstractObject																				
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>axisLabels</td><td>gml:NCNameList</td><td>optional</td><td></td></tr> <tr> <td>srsDimension</td><td>positiveInteger</td><td>optional</td><td></td></tr> <tr> <td>srsName</td><td>anyURI</td><td>optional</td><td></td></tr> <tr> <td>uomLabels</td><td>gml:NCNameList</td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Use		axisLabels	gml:NCNameList	optional		srsDimension	positiveInteger	optional		srsName	anyURI	optional		uomLabels	gml:NCNameList	optional	
QName	Type	Use																			
axisLabels	gml:NCNameList	optional																			
srsDimension	positiveInteger	optional																			
srsName	anyURI	optional																			
uomLabels	gml:NCNameList	optional																			

Element gml:EnvelopeType / gml:lowerCorner

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:DirectPositionType
Properties	content: complex

Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element **gml:EnvelopeType** / **gml:upperCorner**

Namespace	http://www.opengis.net/gml/3.2																	
Diagram																		
Type	gml:DirectPositionType																	
Properties	content: complex																	
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>axisLabels</td><td>gml:NCNameList</td><td>optional</td></tr> <tr> <td>srsDimension</td><td>positiveInteger</td><td>optional</td></tr> <tr> <td>srsName</td><td>anyURI</td><td>optional</td></tr> <tr> <td>uomLabels</td><td>gml:NCNameList</td><td>optional</td></tr> </tbody> </table>			QName	Type	Use	axisLabels	gml:NCNameList	optional	srsDimension	positiveInteger	optional	srsName	anyURI	optional	uomLabels	gml:NCNameList	optional
QName	Type	Use																
axisLabels	gml:NCNameList	optional																
srsDimension	positiveInteger	optional																
srsName	anyURI	optional																
uomLabels	gml:NCNameList	optional																

Element **gml:Null**

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	gml:NilReasonType		
Properties	content: simple		

Element **gml:location**

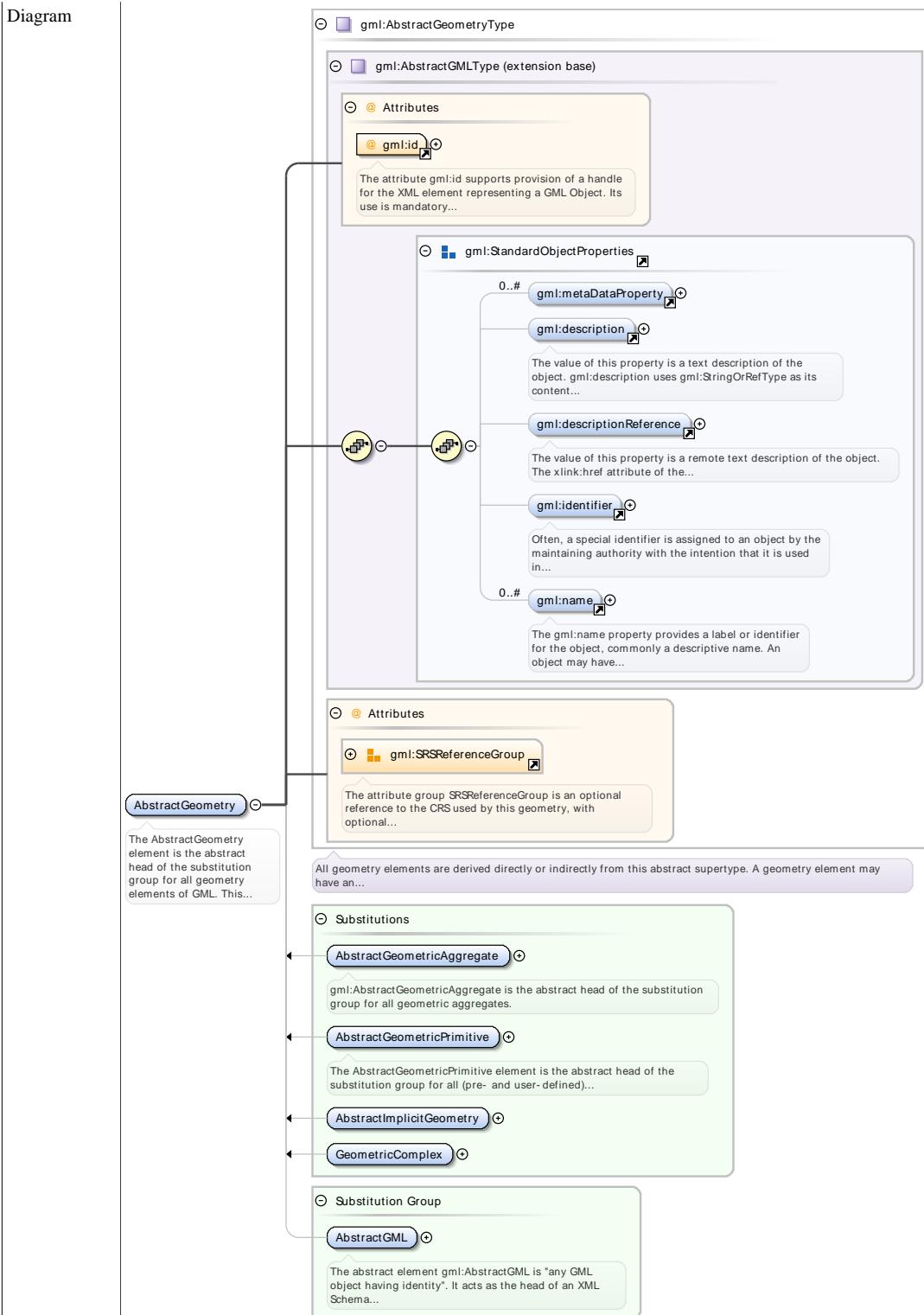
Namespace	http://www.opengis.net/gml/3.2		
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Diagram																																									
Type	gml:LocationPropertyType																																								
Properties	content: complex																																								
Substitution Group	<ul style="list-style-type: none"> • gml:priorityLocation 																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:AbstractGeometry**

Namespace	http://www.opengis.net/gml/3.2
Annotations	The AbstractGeometry element is the abstract head of the substitution group for all geometry elements of GML. This includes pre-defined and user-defined geometry elements. Any geometry element shall be a direct or indirect extension/restriction of AbstractGeometryType and shall be directly or indirectly in the substitution group of AbstractGeometry.

Diagram



Type	gml:AbstractGeometryType
Properties	<p>content: complex</p> <p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> gml:AbstractGeometricPrimitive gml:Point gml:AbstractCurve gml:LineString

	<ul style="list-style-type: none"> • <code>gml:AbstractGeometricAggregate</code> • <code>gml:MultiGeometry</code> • <code>gml:MultiPoint</code> • <code>gml:MultiCurve</code> • <code>gml:MultiSurface</code> • <code>gml:MultiSolid</code> • <code>gml:GeometricComplex</code> • <code>gml:CompositeCurve</code> • <code>gml:Grid</code> • <code>gml:AbstractImplicitGeometry</code> • <code>gml:RectifiedGrid</code> • <code>gml:Curve</code> • <code>gml:OrientableCurve</code> • <code>gml:AbstractSolid</code> • <code>gml:Solid</code> • <code>gml:CompositeSolid</code> • <code>gml:AbstractSurface</code> • <code>gml:Polygon</code> • <code>gml:CompositeSurface</code> • <code>gml:Surface</code> • <code>gml:PolyhedralSurface</code> • <code>gml:TriangulatedSurface</code> • <code>gml:Tin</code> • <code>gml:OrientableSurface</code> 																												
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractGML</code> 																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td><td></td></tr> <tr> <td><code>gml:id</code></td><td><code>ID</code></td><td>required</td><td></td></tr> <tr> <td></td><td colspan="3">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code>, so is constrained to be unique in the XML document within which it occurs.</td></tr> <tr> <td><code>srsDimension</code></td><td><code>positiveInteger</code></td><td>optional</td><td></td></tr> <tr> <td><code>srsName</code></td><td><code>anyURI</code></td><td>optional</td><td></td></tr> <tr> <td><code>uomLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Use		<code>axisLabels</code>	<code>gml:NCNameList</code>	optional		<code>gml:id</code>	<code>ID</code>	required			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code> , so is constrained to be unique in the XML document within which it occurs.			<code>srsDimension</code>	<code>positiveInteger</code>	optional		<code>srsName</code>	<code>anyURI</code>	optional		<code>uomLabels</code>	<code>gml:NCNameList</code>	optional	
QName	Type	Use																											
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<code>srsName</code>	<code>anyURI</code>	optional																											
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional																											

Element `gml:LocationKeyWord`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>gml:CodeType</p> <p>string</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Attributes</p> <p>codeSpace</p> <p>gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,...</p>						
Type	gml:CodeType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>codeSpace</td><td>anyURI</td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional
QName	Type	Use					
codeSpace	anyURI	optional					

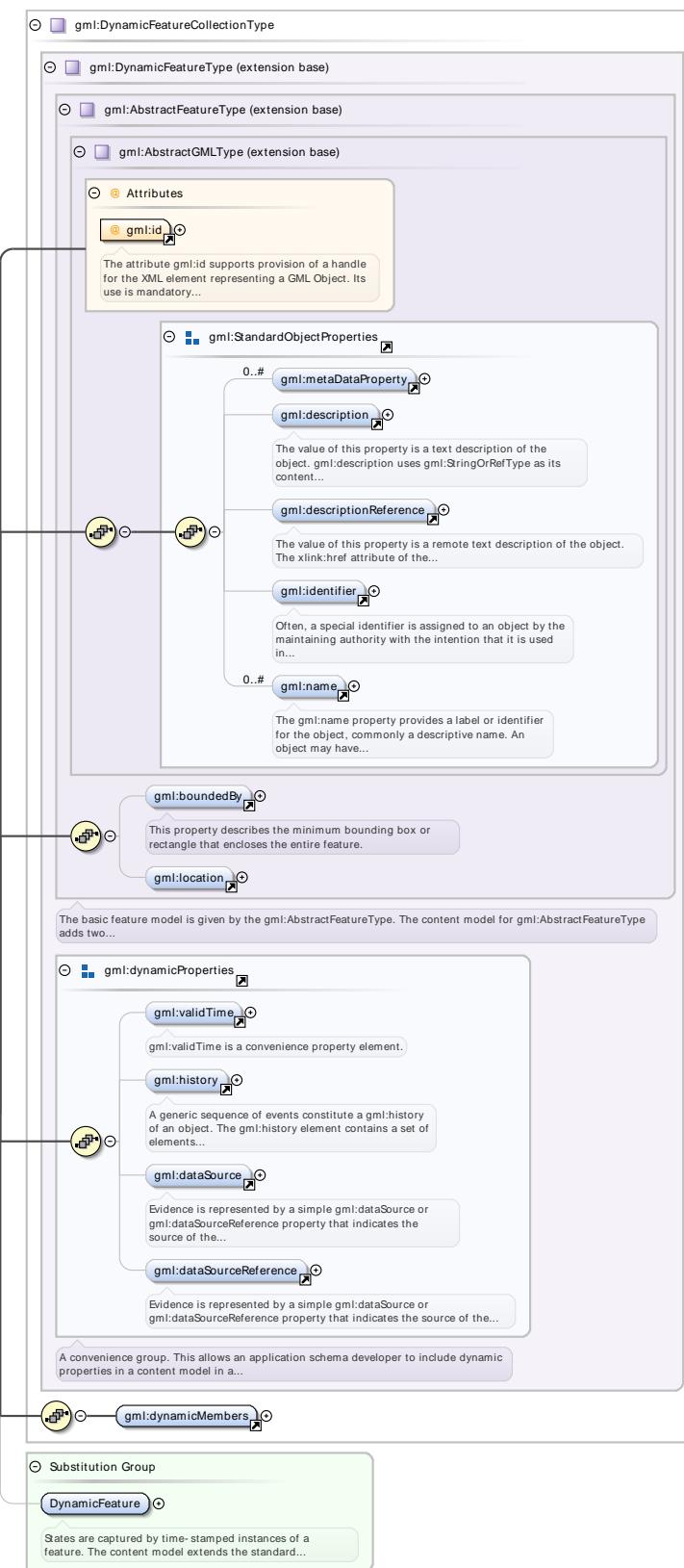
Element gml:LocationString

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>gml:StringOrRefType</p> <p>string</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,....</p>																																								
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:DynamicFeatureCollection

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A gml:DynamicFeatureCollection is a feature collection that has a gml:validTime property (i.e. is a snapshot of the feature collection) or which has a gml:history property that contains one or more gml:AbstractTimeSlices each of which contain values of the time varying properties of the feature collection. Note that the gml:DynamicFeatureCollection may be one of the following:</p> <ol style="list-style-type: none"> 1. A feature collection which consists of static feature members (members do not change in time) but which has properties of the collection object as a whole that do change in time . 2. A feature collection which consists of dynamic feature members (the members are gml:DynamicFeatures) but which also has properties of the collection as a whole that vary in time.

Diagram



Type	<code>gml:DynamicFeatureCollectionType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:DynamicFeature</code>

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

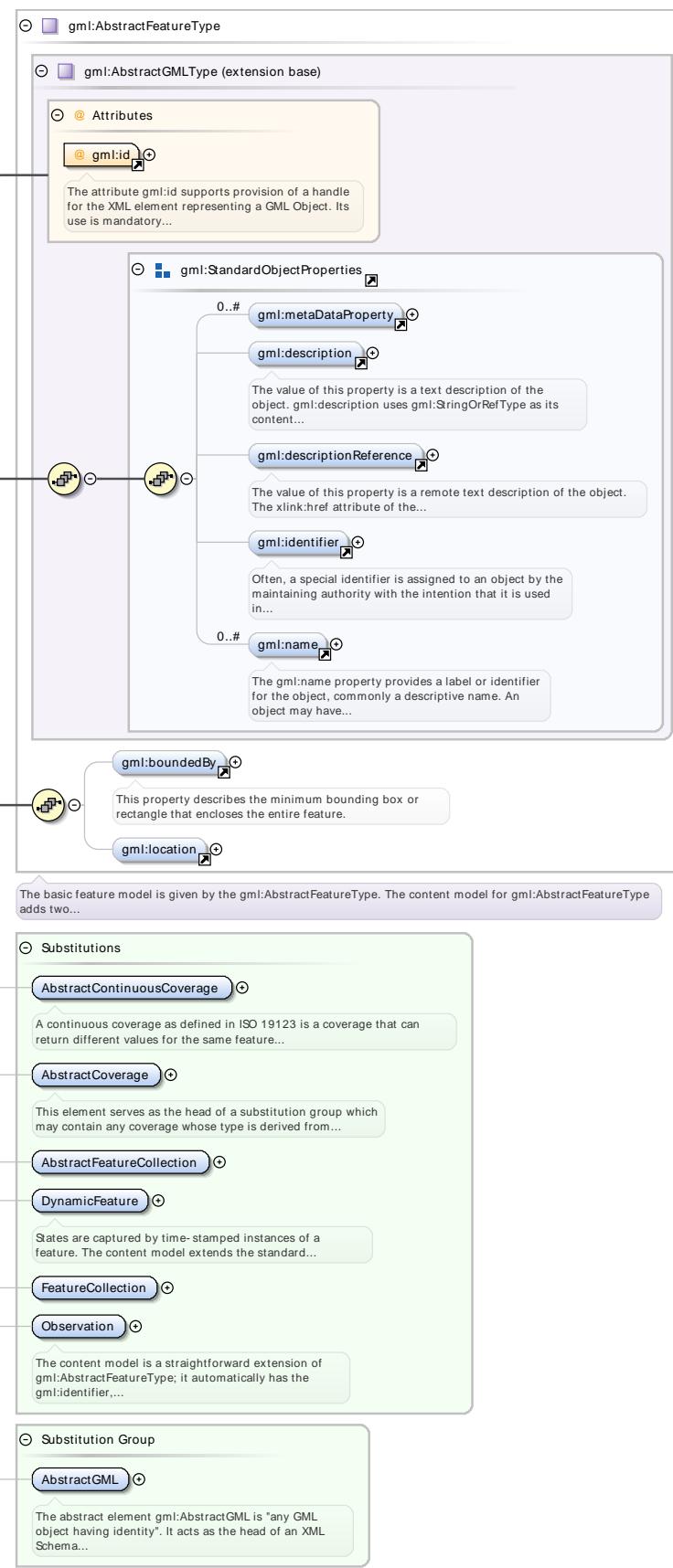
Element **gml:dynamicMembers**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram																																																								
Type	gml:DynamicFeatureMemberType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:AbstractFeature**

Namespace	http://www.opengis.net/gml/3.2
Annotations	This abstract element serves as the head of a substitution group which may contain any elements whose content model is derived from gml:AbstractFeatureType. This may be used as a variable in the construction of content models. gml:AbstractFeature may be thought of as "anything that is a GML feature" and may be used to define variables or templates in which the value of a GML property is "any feature". This occurs in particular in a GML feature collection where the feature member properties contain one or multiple copies of gml:AbstractFeature respectively.

Diagram



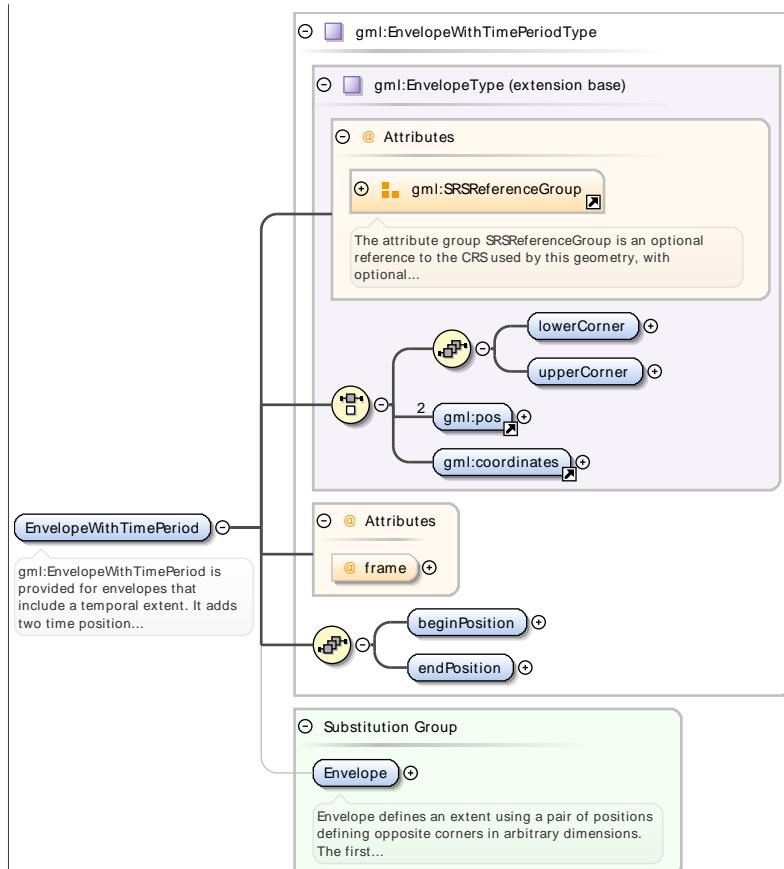
Type	<code>gml:AbstractFeatureType</code>				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>abstract:</td> <td>true</td> </tr> </table>	content:	complex	abstract:	true
content:	complex				
abstract:	true				

Substitution Group	<ul style="list-style-type: none"> • <code>gml:AbstractFeatureCollection</code> • <code>gml:FeatureCollection</code> • <code>gml:DynamicFeature</code> • <code>gml:DynamicFeatureCollection</code> • <code>gml:AbstractCoverage</code> • <code>gml:AbstractDiscreteCoverage</code> • <code>gml:MultiPointCoverage</code> • <code>gml:MultiCurveCoverage</code> • <code>gml:MultiSurfaceCoverage</code> • <code>gml:MultiSolidCoverage</code> • <code>gml:GridCoverage</code> • <code>gml:RectifiedGridCoverage</code> • <code>gml:AbstractContinuousCoverage</code> • <code>gml:Observation</code> • <code>gml:DirectedObservation</code> • <code>gml:DirectedObservationAtDistance</code> 												
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractGML</code> 												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td><code>gml:id</code></td><td>ID</td><td>required</td><td></td></tr> <tr> <td></td><td></td><td></td><td>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use		<code>gml:id</code>	ID	required					The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
QName	Type	Use											
<code>gml:id</code>	ID	required											
			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.										

Element `gml:EnvelopeWithTimePeriod`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:EnvelopeWithTimePeriod</code> is provided for envelopes that include a temporal extent. It adds two time position properties, <code>gml:beginPosition</code> and <code>gml:endPosition</code> , which describe the extent of a time-envelope. Since <code>gml:EnvelopeWithTimePeriod</code> is assigned to the substitution group headed by <code>gml:Envelope</code> , it may be used whenever <code>gml:Envelope</code> is valid.

Diagram



Type

`gml:EnvelopeWithTimePeriodType`

Properties

content: complex

Substitution Group
Affiliation

- `gml:Envelope`

Attributes

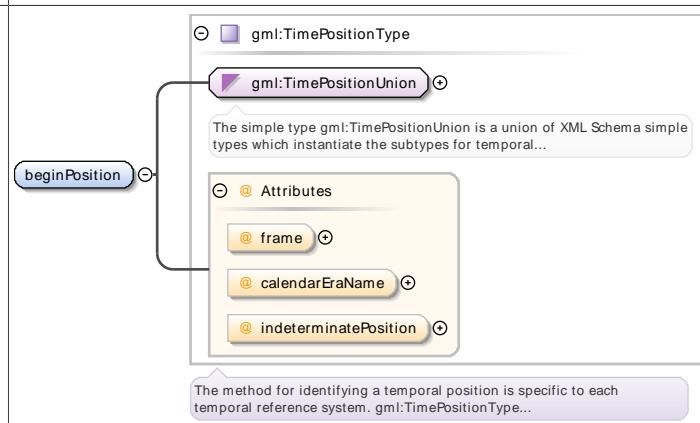
QName	Type	Default	Use
<code>axisLabels</code>	<code>gml:NCNameList</code>		optional
<code>frame</code>	<code>anyURI</code>	<code>#ISO-8601</code>	optional
<code>srsDimension</code>	<code>positiveInteger</code>		optional
<code>srsName</code>	<code>anyURI</code>		optional
<code>uomLabels</code>	<code>gml:NCNameList</code>		optional

Element `gml:EnvelopeWithTimePeriodType` / `gml:beginPosition`

Namespace

<http://www.opengis.net/gml/3.2>

Diagram



Type	gml:TimePositionType			
Properties	content: complex			
Attributes	QName	Type	Default	Use
	calendarEraName	string		optional
	frame	anyURI	#ISO-8601	optional
	indeterminatePosition	gml:TimeIndeterminateValueType		optional

Element gml:EnvelopeWithTimePeriodType / gml:endPosition

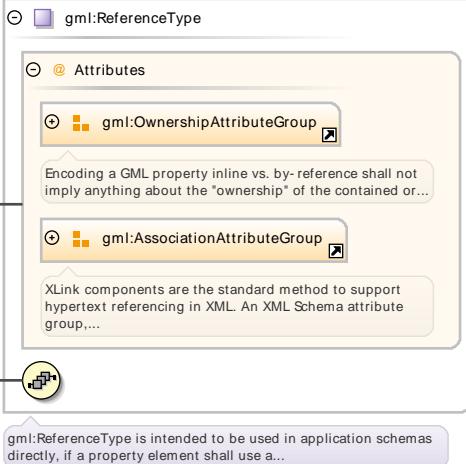
Namespace	http://www.opengis.net/gml/3.2																			
Diagram	<p>The diagram illustrates the structure of gml:TimePositionType. It is a complex type that derives from gml:TimePositionUnion. The union type is described as a union of XML Schema simple types. The diagram also shows the attributes frame, calendarEraName, and indeterminatePosition. A note at the bottom states: "The method for identifying a temporal position is specific to each temporal reference system. gml:TimePositionType..."</p>																			
Type	gml:TimePositionType																			
Properties	content: complex																			
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Default</td> <td>Use</td> </tr> <tr> <td>calendarEraName</td> <td>string</td> <td></td> <td>optional</td> </tr> <tr> <td>frame</td> <td>anyURI</td> <td>#ISO-8601</td> <td>optional</td> </tr> <tr> <td>indeterminatePosition</td> <td>gml:TimeIndeterminateValueType</td> <td></td> <td>optional</td> </tr> </table>				QName	Type	Default	Use	calendarEraName	string		optional	frame	anyURI	#ISO-8601	optional	indeterminatePosition	gml:TimeIndeterminateValueType		optional
QName	Type	Default	Use																	
calendarEraName	string		optional																	
frame	anyURI	#ISO-8601	optional																	
indeterminatePosition	gml:TimeIndeterminateValueType		optional																	

Element gml:locationName

Namespace	http://www.opengis.net/gml/3.2											
Annotations	The gml:locationName property element is a convenience property where the text value describes the location of the feature. If the location names are selected from a controlled list, then the list shall be identified in the codeSpace attribute.											
Diagram	<p>The diagram illustrates the structure of gml:CodeType. It is a complex type that derives from the string datatype. The string datatype represents character strings in XML. The diagram also shows the attribute codeSpace. A note at the bottom states: "gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,..."</p>											
Type	gml:CodeType											
Properties	content: complex											
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Use</td> <td></td> </tr> <tr> <td>codeSpace</td> <td>anyURI</td> <td>optional</td> <td></td> </tr> </table>				QName	Type	Use		codeSpace	anyURI	optional	
QName	Type	Use										
codeSpace	anyURI	optional										

Element gml:locationReference

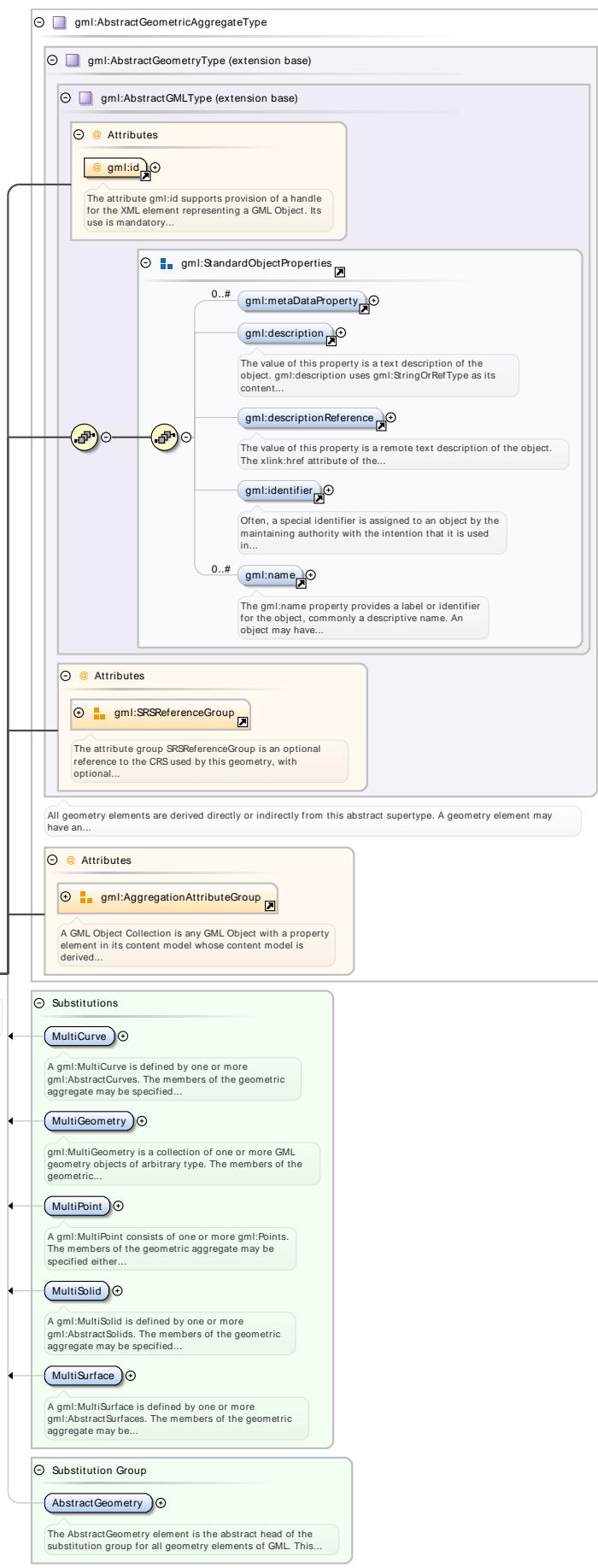
Namespace	http://www.opengis.net/gml/3.2			
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Annotations	The <code>gml:locationReference</code> property element is a convenience property where the text value referenced by the <code>xlink:href</code> attribute describes the location of the feature.																																																							
Diagram	 <p>The diagram illustrates the <code>gml:ReferenceType</code> class. It has two attribute groups: <code>gml:OwnershipAttributeGroup</code> and <code>gml:AssociationAttributeGroup</code>. The <code>gml:locationReference</code> property is associated with the <code>gml:AssociationAttributeGroup</code>. A note states: "Encoding a GML property inline vs. by- reference shall not imply anything about the *ownership* of the contained or..." Another note states: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group..." A third note at the bottom states: "gml:ReferenceType is intended to be used in application schemas directly, if a property element shall use a..."</p>																																																							
Type	<code>gml:ReferenceType</code>																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td><code>anyURI</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>owns</code></td> <td><code>boolean</code></td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td><code>xlink:actuate</code></td> <td><code>xlink:actuateType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td><code>xlink:arcroleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:href</code></td> <td><code>xlink:hrefType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:role</code></td> <td><code>xlink:roleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:show</code></td> <td><code>xlink:showType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:title</code></td> <td><code>xlink:titleAttrType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:type</code></td> <td><code>xlink:typeType</code></td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	<code>anyURI</code>			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	<code>owns</code>	<code>boolean</code>		false	optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional	<code>xlink:role</code>	<code>xlink:roleType</code>			optional	<code>xlink:show</code>	<code>xlink:showType</code>			optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional
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Element `gml:AbstractGeometricAggregate`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:AbstractGeometricAggregate</code> is the abstract head of the substitution group for all geometric aggregates.

Diagram



Type	gml:AbstractGeometricAggregateType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> • gml:MultiGeometry • gml:MultiPoint • gml:MultiCurve • gml:MultiSurface • gml:MultiSolid 		
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractGeometry 		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element gml:geometryMember

Namespace	http://www.opengis.net/gml/3.2				
Annotations	This property element either references a geometry element via the XLink-attributes or contains the geometry element.				
Diagram					
Type	gml:GeometryPropertyType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional

QName	Type	Fixed	Default	Use
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

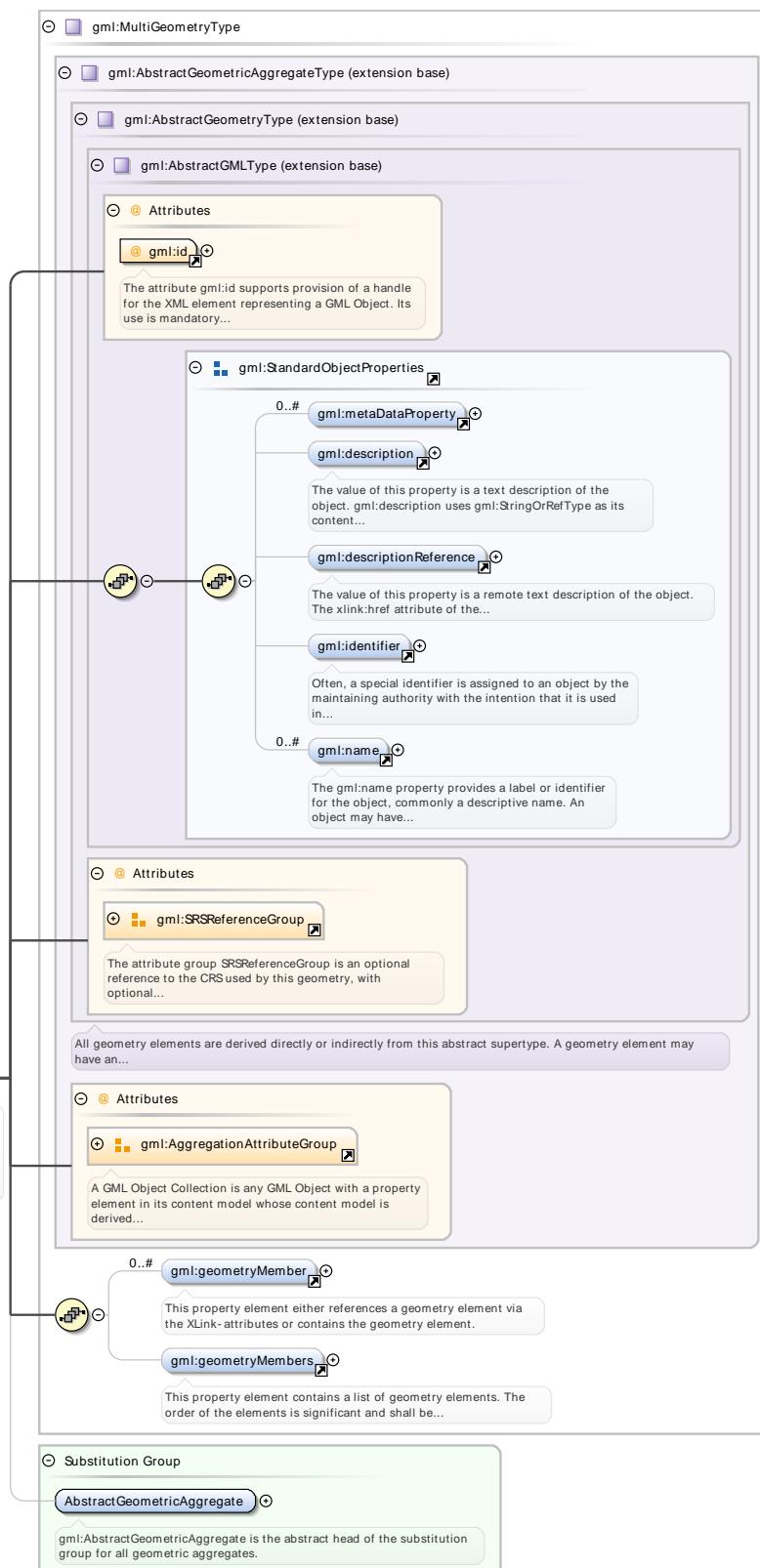
Element **gml:geometryMembers**

Namespace	http://www.opengis.net/gml/3.2								
Annotations	This property element contains a list of geometry elements. The order of the elements is significant and shall be preserved when processing the array.								
Diagram	<p>This property element contains a list of geometry elements. The order of the elements is significant and shall be...</p> <p>0..#</p> <p>gml:AbstractGeometry</p> <p>If a feature has a property which takes an array of geometry elements as its value, this is called a geometry array...</p>								
Type	gml:GeometryArrayPropertyType								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Element **gml:MultiGeometry**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:MultiGeometry is a collection of one or more GML geometry objects of arbitrary type. The members of the geometric aggregate may be specified either using the "standard" property (gml:geometryMember) or the array property (gml:geometryMembers). It is also valid to use both the "standard" and the array properties in the same collection.

Diagram



Type	gml:MultiGeometryType
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractGeometricAggregate

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element **gml:pointMember**

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	This property element either references a Point via the XLink-attributes or contains the Point element.																																																							
Diagram	<p>The diagram illustrates the structure of the gml:PointPropertyType element. It is a complex type (complexType) with attributes (Attributes). The attributes include gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. The content of the type is a gml:Point element. A callout box points to the gml:Point element with the text: "A Point is defined by a single coordinate tuple. The direct position of a point is specified by the pos element which...". Another callout box points to the entire structure with the text: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...". A third callout box points to the gml:Point element with the text: "Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...". A fourth callout box points to the entire structure with the text: "A property that has a point as its value domain may either be an appropriate geometry element encapsulated in an...".</p>																																																							
Type	gml:PointPropertyType																																																							
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Element **gml:pointMembers**

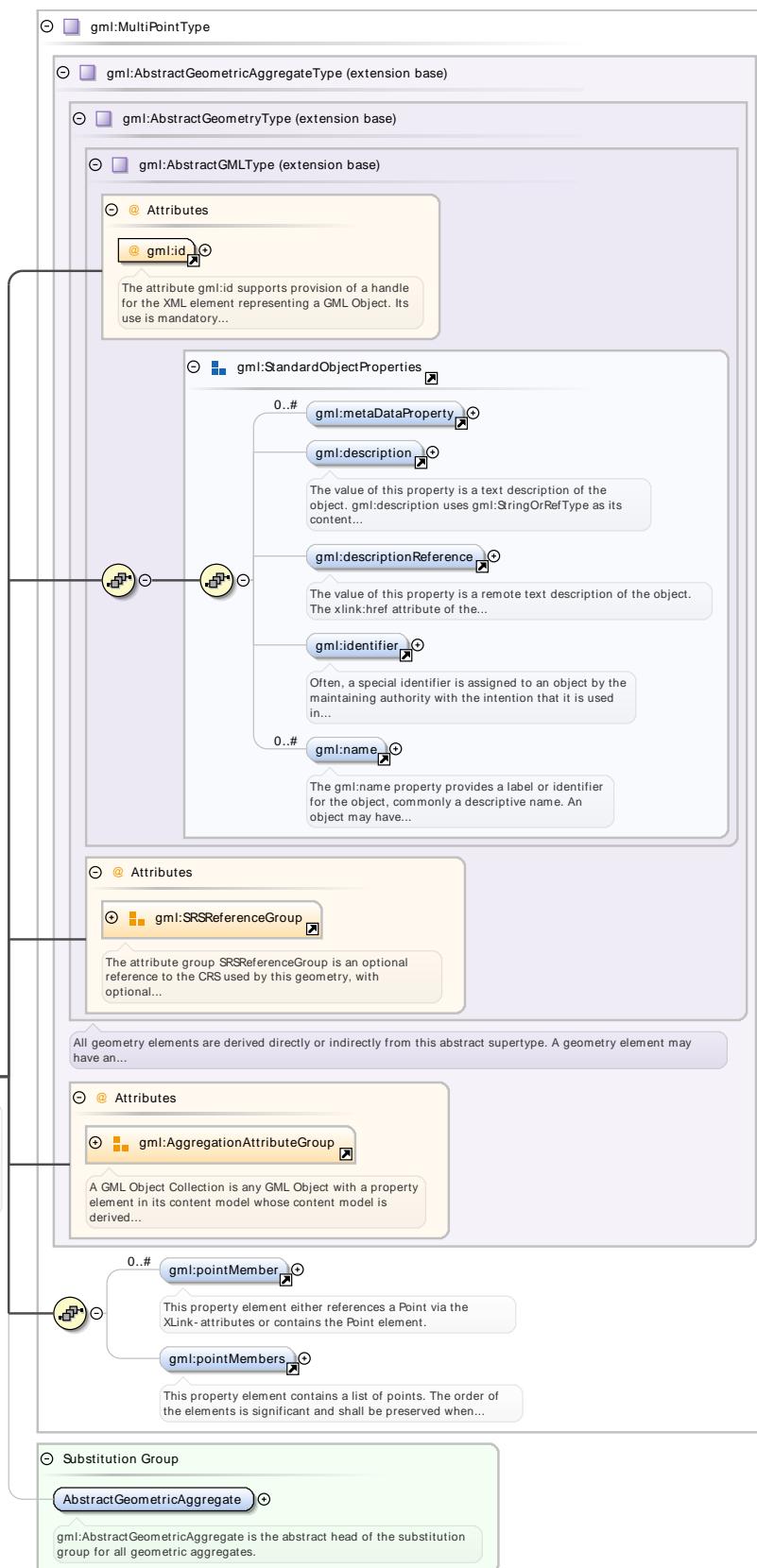
Namespace	http://www.opengis.net/gml/3.2
Annotations	This property element contains a list of points. The order of the elements is significant and shall be preserved when processing the array.

Diagram									
Type	gml:PointArrayPropertyType								
Properties	content: complex								
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">QName</th><th style="text-align: left; padding: 2px;">Type</th><th style="text-align: left; padding: 2px;">Default</th><th style="text-align: left; padding: 2px;">Use</th></tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 2px;">owns</td><td style="text-align: left; padding: 2px;">boolean</td><td style="text-align: left; padding: 2px;">false</td><td style="text-align: left; padding: 2px;">optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Element **gml:MultiPoint**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:MultiPoint consists of one or more gml:Points. The members of the geometric aggregate may be specified either using the "standard" property (gml:pointMember) or the array property (gml:pointMembers). It is also valid to use both the "standard" and the array properties in the same collection.

Diagram



Type	<code>gml:MultiPointType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractGeometricAggregate</code>

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

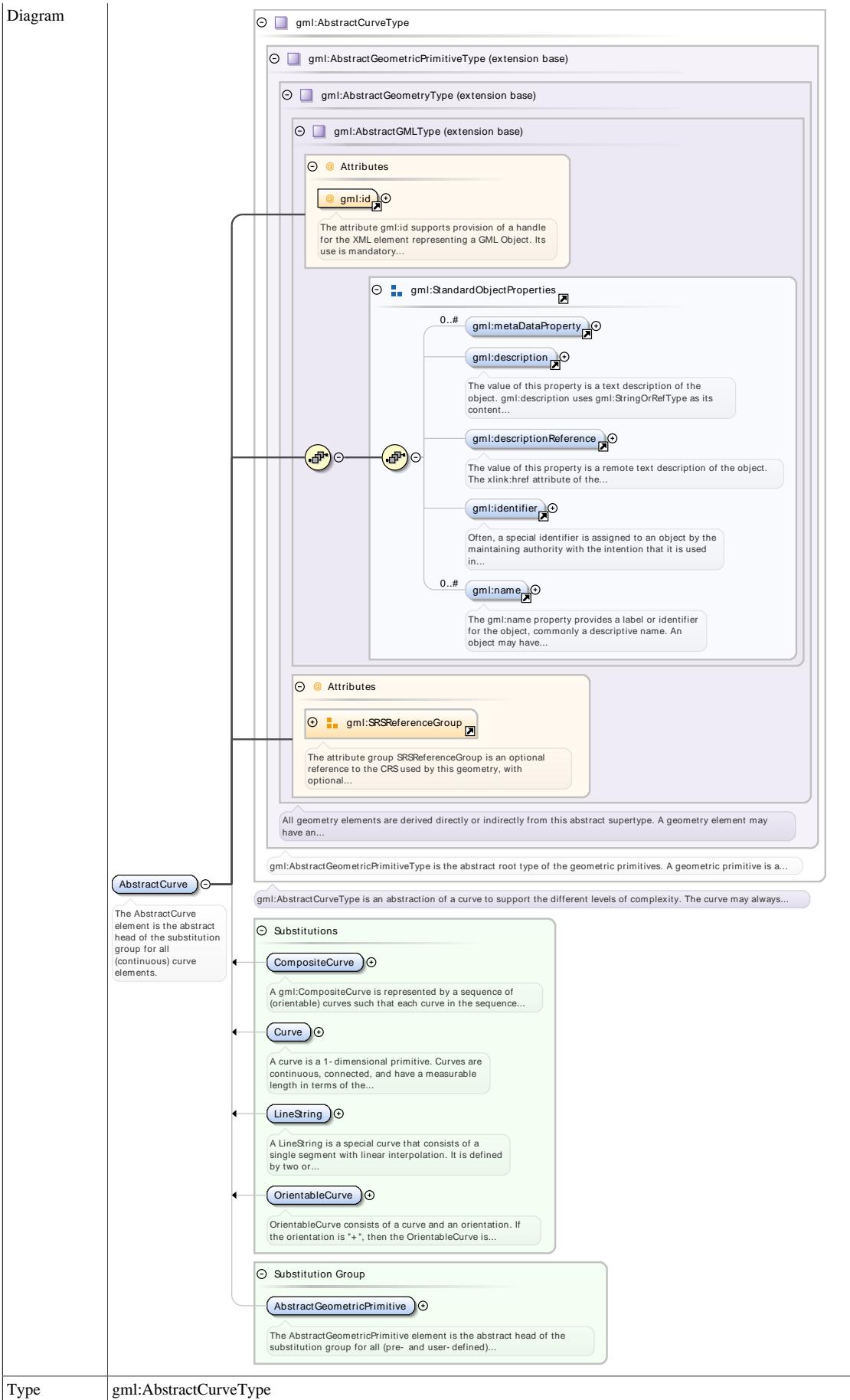
Element **gml:curveMember**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:CurvePropertyType element. It shows the curveMember element pointing to a box that contains the following components:</p> <ul style="list-style-type: none"> gml:CurvePropertyType: The main type definition. gml:AssociationAttributeGroup: A note explaining XLink components for hypertext referencing. gml:OwnershipAttributeGroup: A note about encoding GML property inline vs. by-reference and ownership. gml:AbstractCurve: The abstract head of the substitution group for continuous curve elements. A note at the bottom: "A property that has a curve as its value domain may either be an appropriate geometry element encapsulated in an..." 																																																							
Type	gml:CurvePropertyType																																																							
Properties	content: complex																																																							
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xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:AbstractCurve**

Namespace	http://www.opengis.net/gml/3.2
Annotations	The AbstractCurve element is the abstract head of the substitution group for all (continuous) curve elements.

Diagram



Properties	content: complex abstract: true																					
Substitution Group	<ul style="list-style-type: none"> • <code>gml:LineString</code> • <code>gml:CompositeCurve</code> • <code>gml:Curve</code> • <code>gml:OrientableCurve</code> 																					
Substitution Group Affiliation	• <code>gml:AbstractGeometricPrimitive</code>																					
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> <tr> <td><code>gml:id</code></td> <td><code>ID</code></td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code>, so is constrained to be unique in the XML document within which it occurs.</td></tr> <tr> <td><code>srsDimension</code></td> <td><code>positiveInteger</code></td> <td>optional</td> </tr> <tr> <td><code>srsName</code></td> <td><code>anyURI</code></td> <td>optional</td> </tr> <tr> <td><code>uomLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>gml:id</code>	<code>ID</code>	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code> , so is constrained to be unique in the XML document within which it occurs.		<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional
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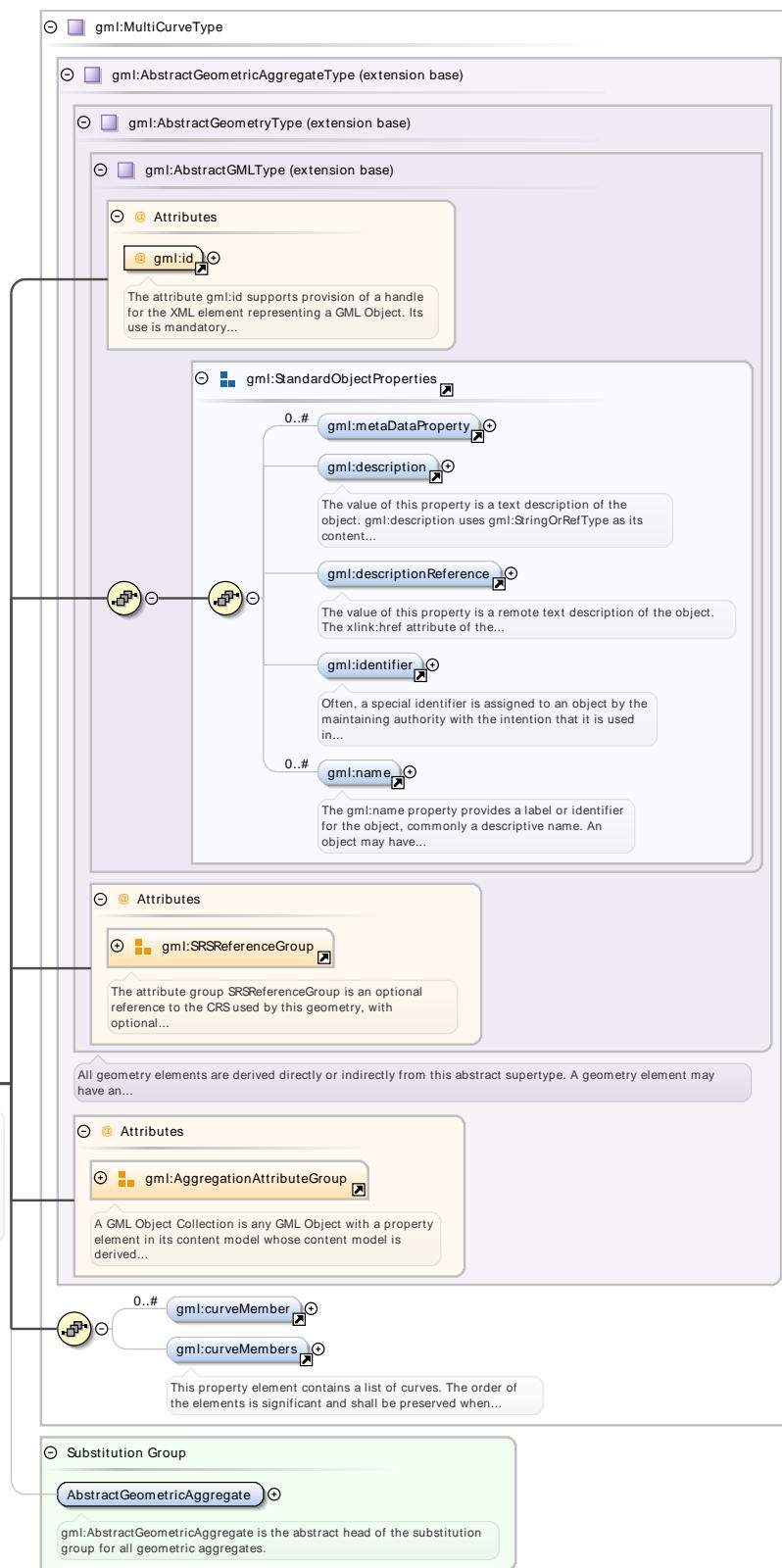
Element `gml:curveMembers`

Namespace	http://www.opengis.net/gml/3.2								
Annotations	This property element contains a list of curves. The order of the elements is significant and shall be preserved when processing the array.								
Diagram									
Type	<code>gml:CurveArrayPropertyType</code>								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>owns</code></td> <td><code>boolean</code></td> <td>false</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	<code>owns</code>	<code>boolean</code>	false	optional
QName	Type	Default	Use						
<code>owns</code>	<code>boolean</code>	false	optional						

Element `gml:MultiCurve`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A <code>gml:MultiCurve</code> is defined by one or more <code>gml:AbstractCurves</code> . The members of the geometric aggregate may be specified either using the "standard" property (<code>gml:curveMember</code>) or the array property (<code>gml:curveMembers</code>). It is also valid to use both the "standard" and the array properties in the same collection.

Diagram



Type	gml:MultiCurveType
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractGeometricAggregate

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

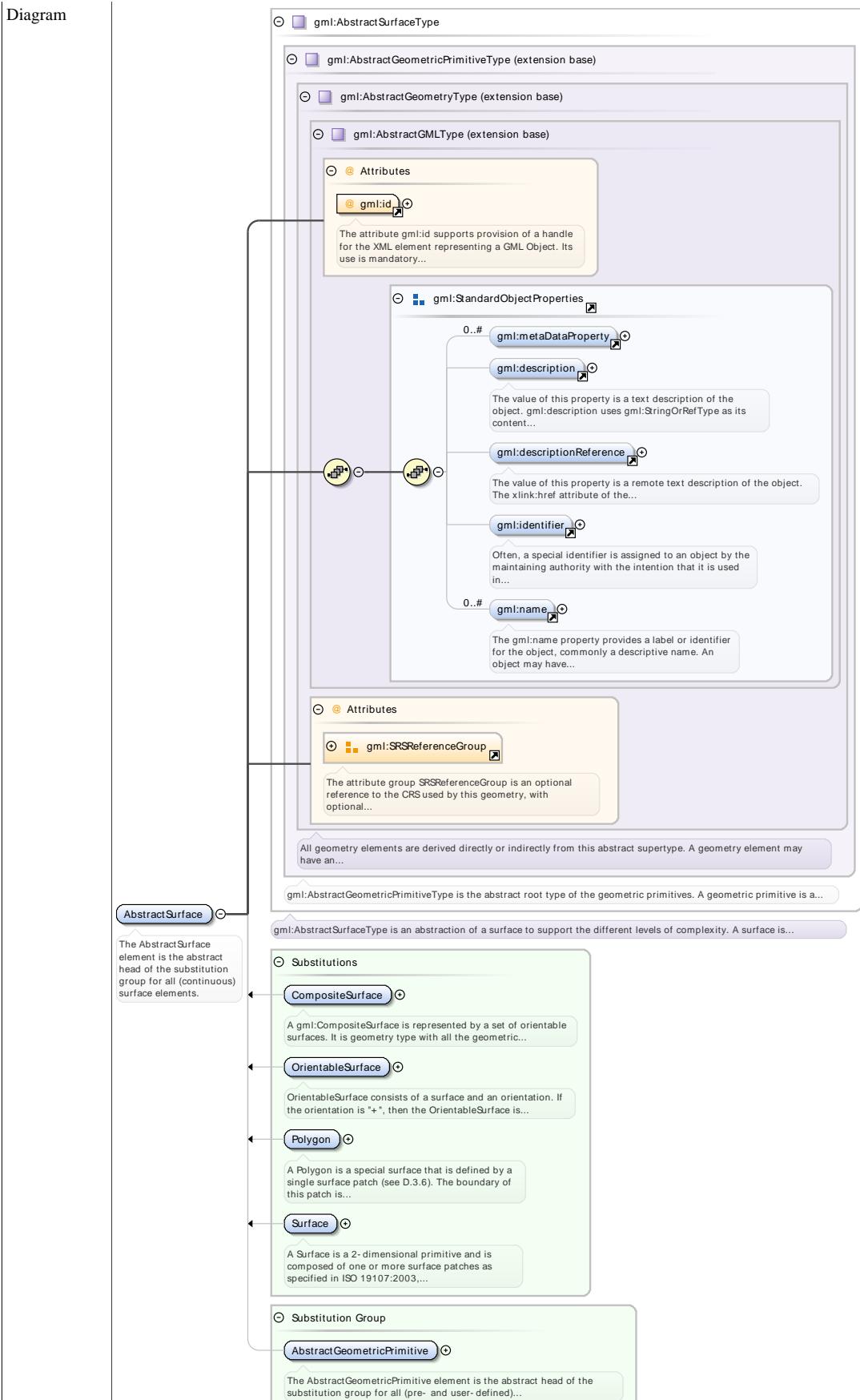
Element **gml:surfaceMember**

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	This property element either references a surface via the XLink-attributes or contains the surface element. A surface element is any element, which is substitutable for gml:AbstractSurface.																																																							
Diagram																																																								
Type	gml:SurfacePropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gml:remoteSchema	anyURI			optional																																																				
nilReason	gml:NilReasonType			optional																																																				
owns	boolean		false	optional																																																				
xlink:actuate	xlink:actuateType			optional																																																				
xlink:arcrole	xlink:arcroleType			optional																																																				
xlink:href	xlink:hrefType			optional																																																				
xlink:role	xlink:roleType			optional																																																				
xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:AbstractSurface**

Namespace	http://www.opengis.net/gml/3.2
Annotations	The AbstractSurface element is the abstract head of the substitution group for all (continuous) surface elements.

Diagram



Type	<code>gml:AbstractSurfaceType</code>
------	--------------------------------------

Properties	content: <code>complex</code>
------------	-------------------------------

	abstract:	true																						
Substitution Group	<ul style="list-style-type: none"> • gml:Polygon • gml:CompositeSurface • gml:Surface • gml:PolyhedralSurface • gml:TriangulatedSurface • gml:Tin • gml:OrientableSurface 																							
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractGeometricPrimitive 																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>axisLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> </tr> <tr> <td>srsDimension</td> <td>positiveInteger</td> <td>optional</td> </tr> <tr> <td>srsName</td> <td>anyURI</td> <td>optional</td> </tr> <tr> <td>uomLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	axisLabels	gml:NCNameList	optional	gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		srsDimension	positiveInteger	optional	srsName	anyURI	optional	uomLabels	gml:NCNameList	optional		
QName	Type	Use																						
axisLabels	gml:NCNameList	optional																						
gml:id	ID	required																						
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srsDimension	positiveInteger	optional																						
srsName	anyURI	optional																						
uomLabels	gml:NCNameList	optional																						

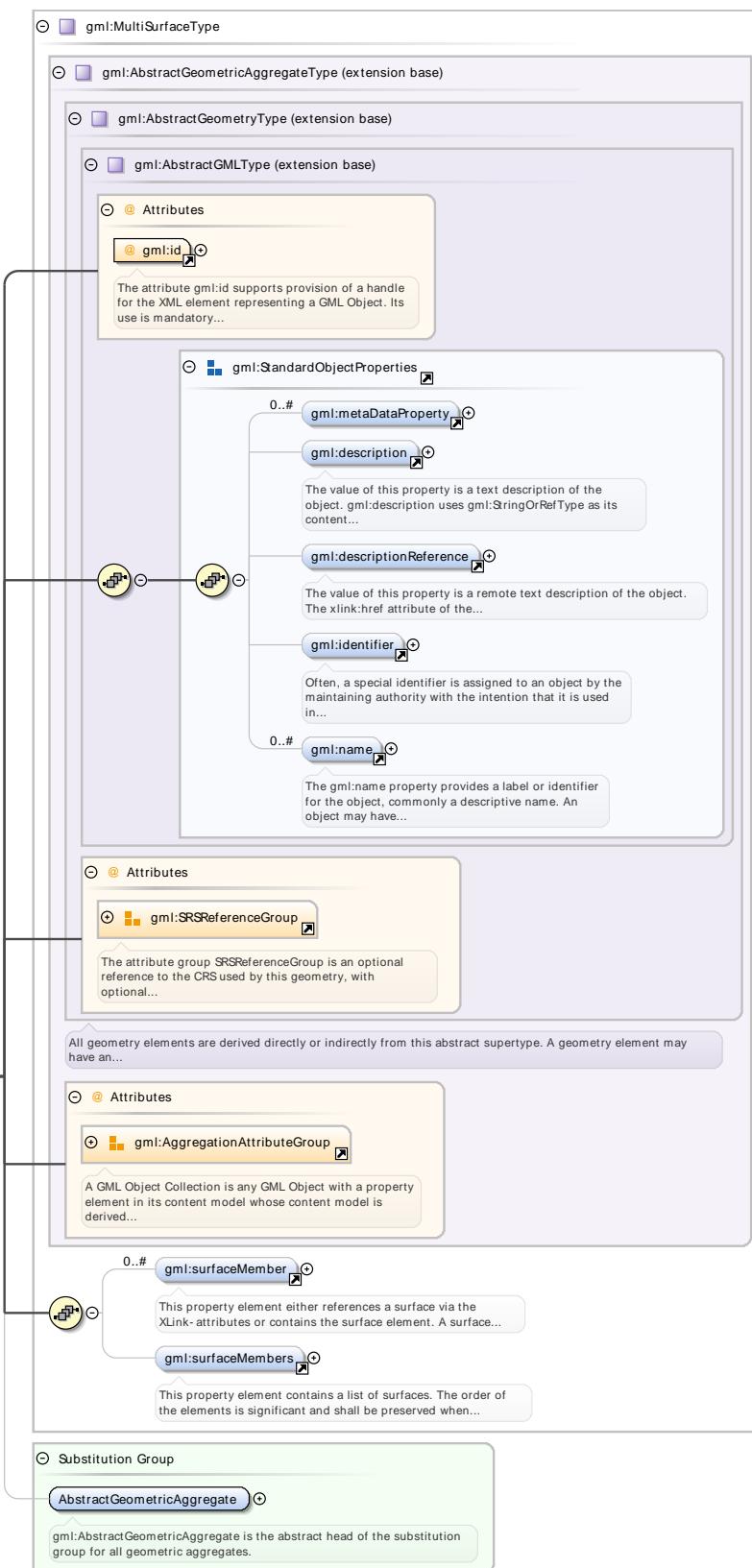
Element **gml:surfaceMembers**

Namespace	http://www.opengis.net/gml/3.2								
Annotations	This property element contains a list of surfaces. The order of the elements is significant and shall be preserved when processing the array.								
Diagram	<p>This property element contains a list of surfaces. The order of the elements is significant and shall be preserved when...</p> <p>gml:SurfaceArrayPropertyType</p> <p>Attributes</p> <p>gml:OwnershipAttributeGroup</p> <p>Encoding a GML property inline vs. by-reference shall not imply anything about the "ownership" of the contained or...</p> <p>gml:AbstractSurface</p> <p>The AbstractSurface element is the abstract head of the substitution group for all (continuous) surface elements.</p>								
Type	gml:SurfaceArrayPropertyType								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>owns</td> <td>boolean</td> <td>false</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Element **gml:MultiSurface**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:MultiSurface is defined by one or more gml:AbstractSurfaces. The members of the geometric aggregate may be specified either using the "standard" property (gml:surfaceMember) or the array property (gml:surfaceMembers). It is also valid to use both the "standard" and the array properties in the same collection.

Diagram



Type	gml:MultiSurfaceType
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractGeometricAggregate

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

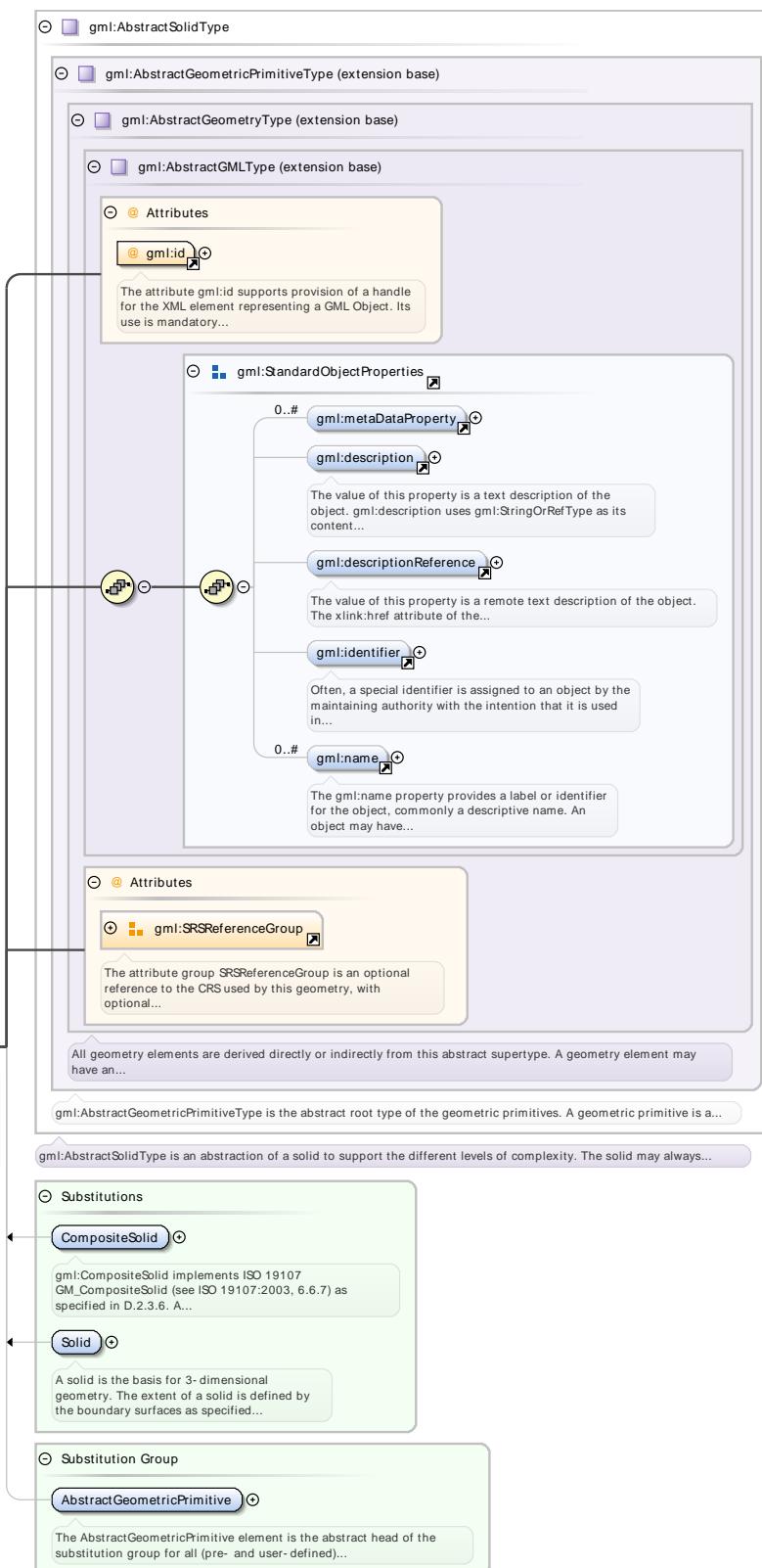
Element **gml:solidMember**

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	This property element either references a solid via the XLink-attributes or contains the solid element. A solid element is any element, which is substitutable for gml:AbstractSolid.																																																							
Diagram																																																								
Type	gml:SolidPropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:AbstractSolid**

Namespace	http://www.opengis.net/gml/3.2
Annotations	The AbstractSolid element is the abstract head of the substitution group for all (continuous) solid elements.

Diagram



Type	<code>gml:AbstractSolidType</code>
Properties	<p>content: complex</p> <p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> • <code>gml:Solid</code> • <code>gml:CompositeSolid</code>

Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractGeometricPrimitive</code> 			
Attributes	QName	Type	Use	
	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	
	<code>gml:id</code>	<code>ID</code>	required	
	<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code>, so is constrained to be unique in the XML document within which it occurs.</p>			
	<code>srsDimension</code>	<code>positiveInteger</code>	optional	
	<code>srsName</code>	<code>anyURI</code>	optional	
	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional	

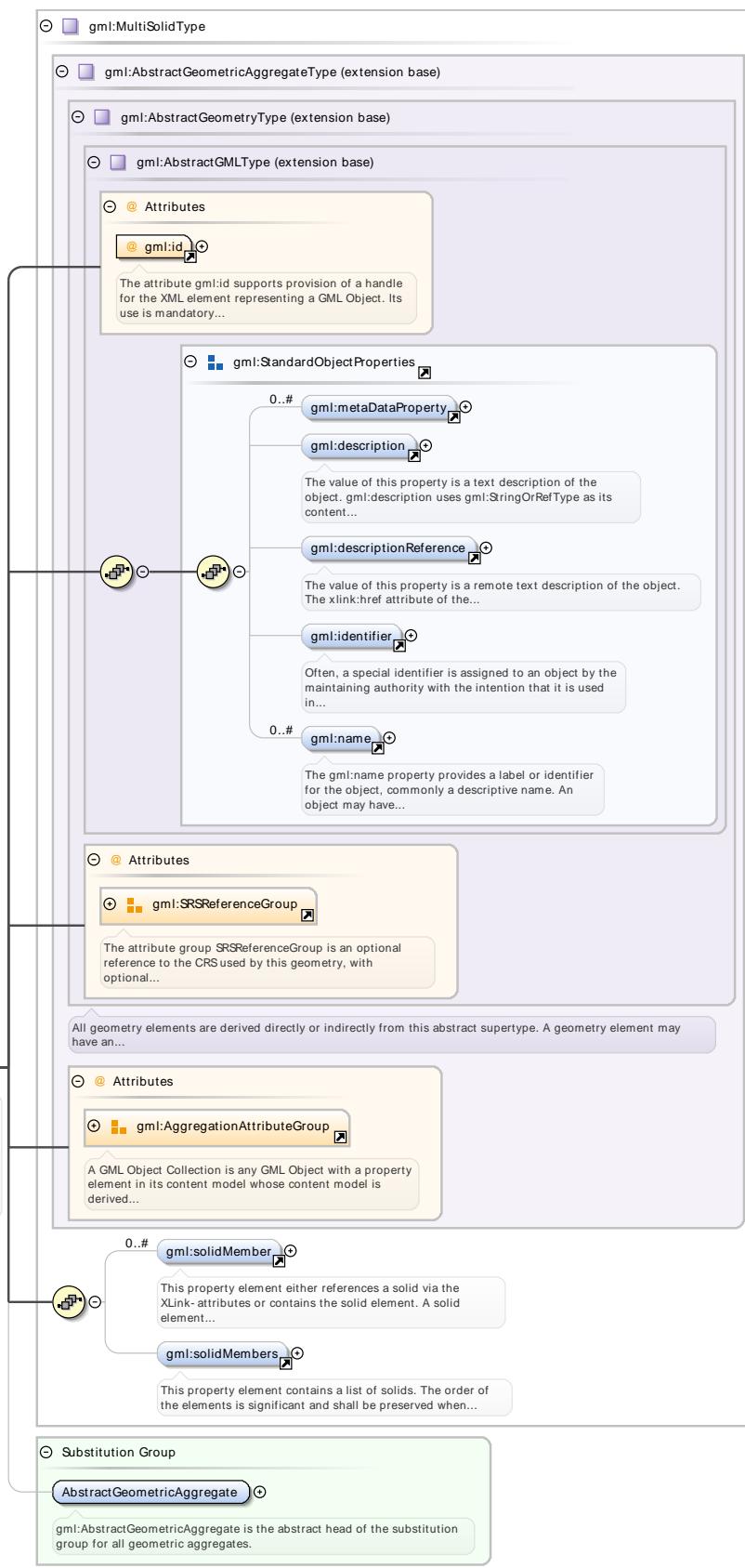
Element `gml:solidMembers`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<p>This property element contains a list of solids. The order of the elements is significant and shall be preserved when processing the array.</p>			
Diagram				
Type	<code>gml:SolidArrayPropertyType</code>			
Properties	content: complex			
Attributes	QName	Type	Default	Use
	<code>owns</code>	<code>boolean</code>	<code>false</code>	optional

Element `gml:MultiSolid`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<p>A <code>gml:MultiSolid</code> is defined by one or more <code>gml:AbstractSolids</code>. The members of the geometric aggregate may be specified either using the "standard" property (<code>gml:solidMember</code>) or the array property (<code>gml:solidMembers</code>). It is also valid to use both the "standard" and the array properties in the same collection.</p>			

Diagram



Type	gml:MultiSolidType
------	--------------------

Properties	content: complex
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Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractGeometricAggregate 		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

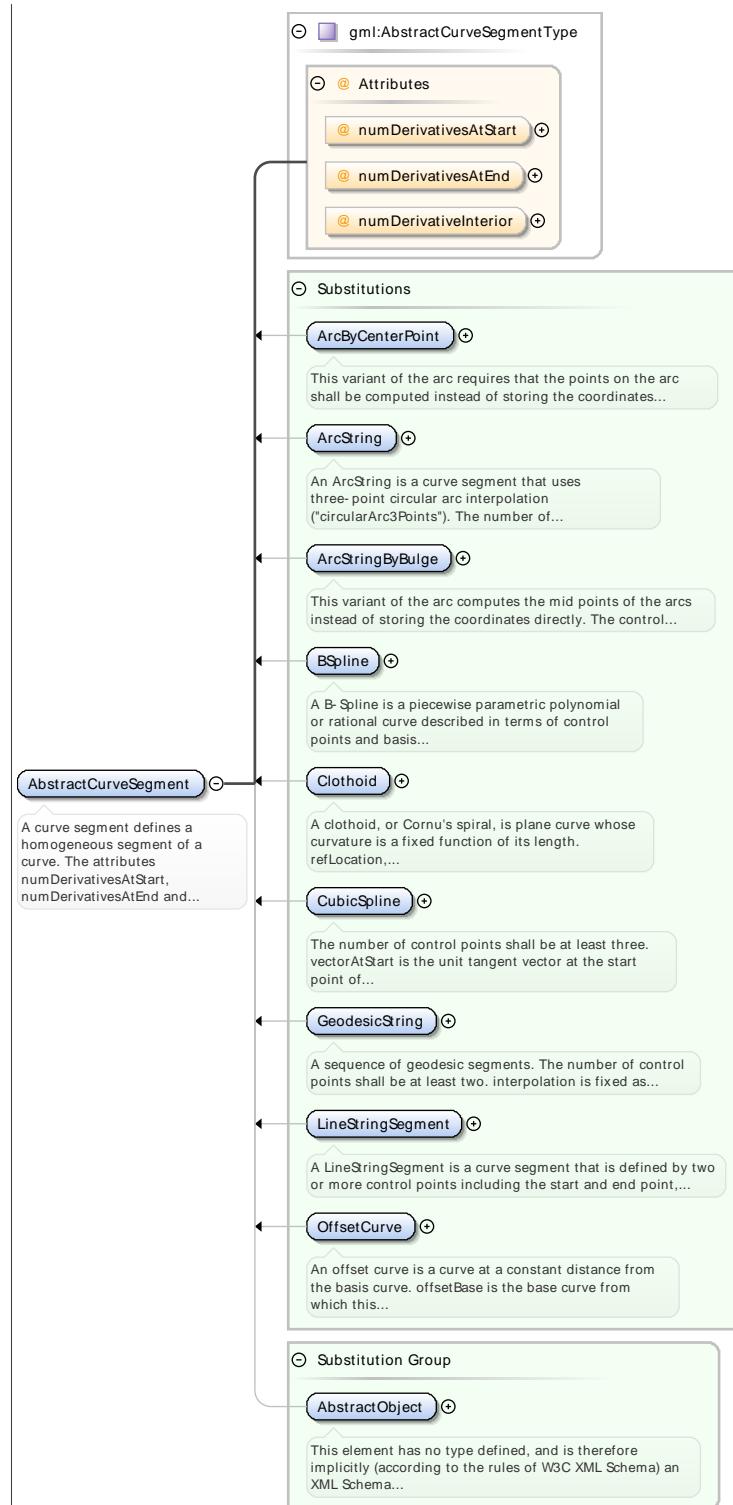
Element gml:segments

Namespace	http://www.opengis.net/gml/3.2
Annotations	This property element contains a list of curve segments. The order of the elements is significant and shall be preserved when processing the array.
Diagram	<p>The diagram illustrates the UML class structure for the gml:CurveSegmentArrayPropertyType element. It shows a class named 'gml:CurveSegmentArrayPropertyType' with an association named 'segments' to another class named 'gml:AbstractCurveSegment'. The 'segments' association is marked with a multiplicity of '0..#' at the source end, indicating that it can contain zero or more instances of 'gml:AbstractCurveSegment'. A callout box provides a detailed description of the 'segments' property: 'This property element contains a list of curve segments. The order of the elements is significant and shall be...'.</p>
Type	gml:CurveSegmentArrayPropertyType
Properties	content: complex

Element gml:AbstractCurveSegment

Namespace	http://www.opengis.net/gml/3.2
Annotations	A curve segment defines a homogeneous segment of a curve. The attributes numDerivativesAtStart, numDerivativesAtEnd and numDerivativesInterior specify the type of continuity as specified in ISO 19107:2003, 6.4.9.3. The AbstractCurveSegment element is the abstract head of the substitution group for all curve segment elements, i.e. continuous segments of the same interpolation mechanism. All curve segments shall have an attribute interpolation with type gml:CurveInterpolationType specifying the curve interpolation mechanism used for this segment. This mechanism uses the control points and control parameters to determine the position of this curve segment.

Diagram



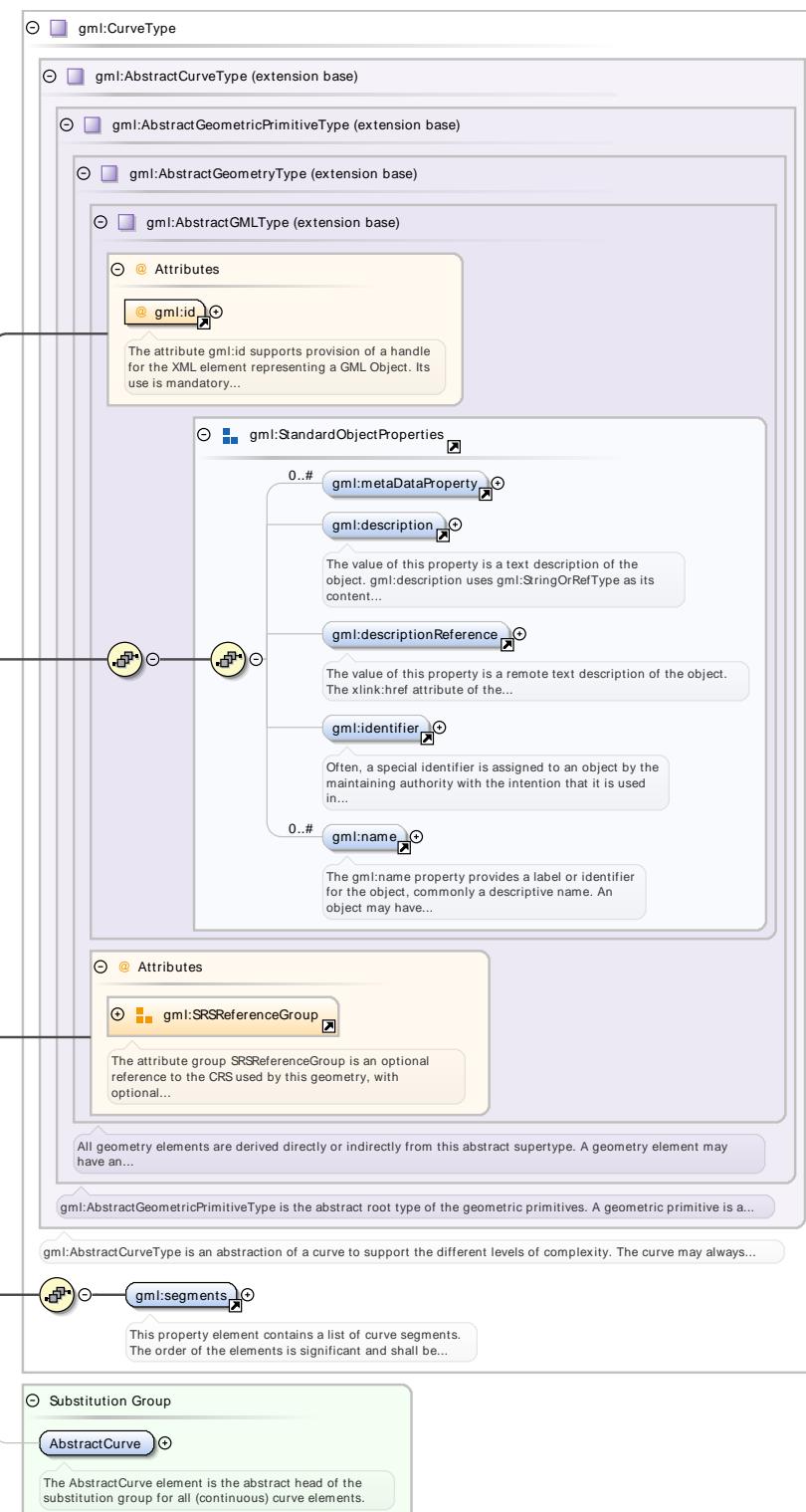
Type	gml:AbstractCurveSegmentType
Properties	<p>content: complex</p> <p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> gml:LineStringSegment gml:ArcString gml:Arc gml:Circle

	<ul style="list-style-type: none"> • <code>gml:ArcStringByBulge</code> • <code>gml:ArcByBulge</code> • <code>gml:ArcByCenterPoint</code> • <code>gml:CircleByCenterPoint</code> • <code>gml:CubicSpline</code> • <code>gml:BSpline</code> • <code>gml:Bezier</code> • <code>gml:OffsetCurve</code> • <code>gml:Clothoid</code> • <code>gml:GeodesicString</code> • <code>gml:Geodesic</code> 																
Substitution Group Affiliation	• <code>gml:AbstractObject</code>																
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>numDerivativeInterior</code></td><td>integer</td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtEnd</code></td><td>integer</td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtStart</code></td><td>integer</td><td>0</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	<code>numDerivativeInterior</code>	integer	0	optional	<code>numDerivativesAtEnd</code>	integer	0	optional	<code>numDerivativesAtStart</code>	integer	0	optional
QName	Type	Default	Use														
<code>numDerivativeInterior</code>	integer	0	optional														
<code>numDerivativesAtEnd</code>	integer	0	optional														
<code>numDerivativesAtStart</code>	integer	0	optional														

Element `gml:Curve`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A curve is a 1-dimensional primitive. Curves are continuous, connected, and have a measurable length in terms of the coordinate system. A curve is composed of one or more curve segments. Each curve segment within a curve may be defined using a different interpolation method. The curve segments are connected to one another, with the end point of each segment except the last being the start point of the next segment in the segment list. The orientation of the curve is positive. The element <code>segments</code> encapsulates the segments of the curve.</p>

Diagram



Type	<code>gml:CurveType</code>
------	----------------------------

Properties	content: complex
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Substitution Group Affiliation	• <code>gml:AbstractCurve</code>
--------------------------------	----------------------------------

Attributes	QName	Type	Use	
	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	
	<code>gml:id</code>	ID	required	

QName	Type	Use	
			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
 uomLabels	gml:NCNameList	optional	

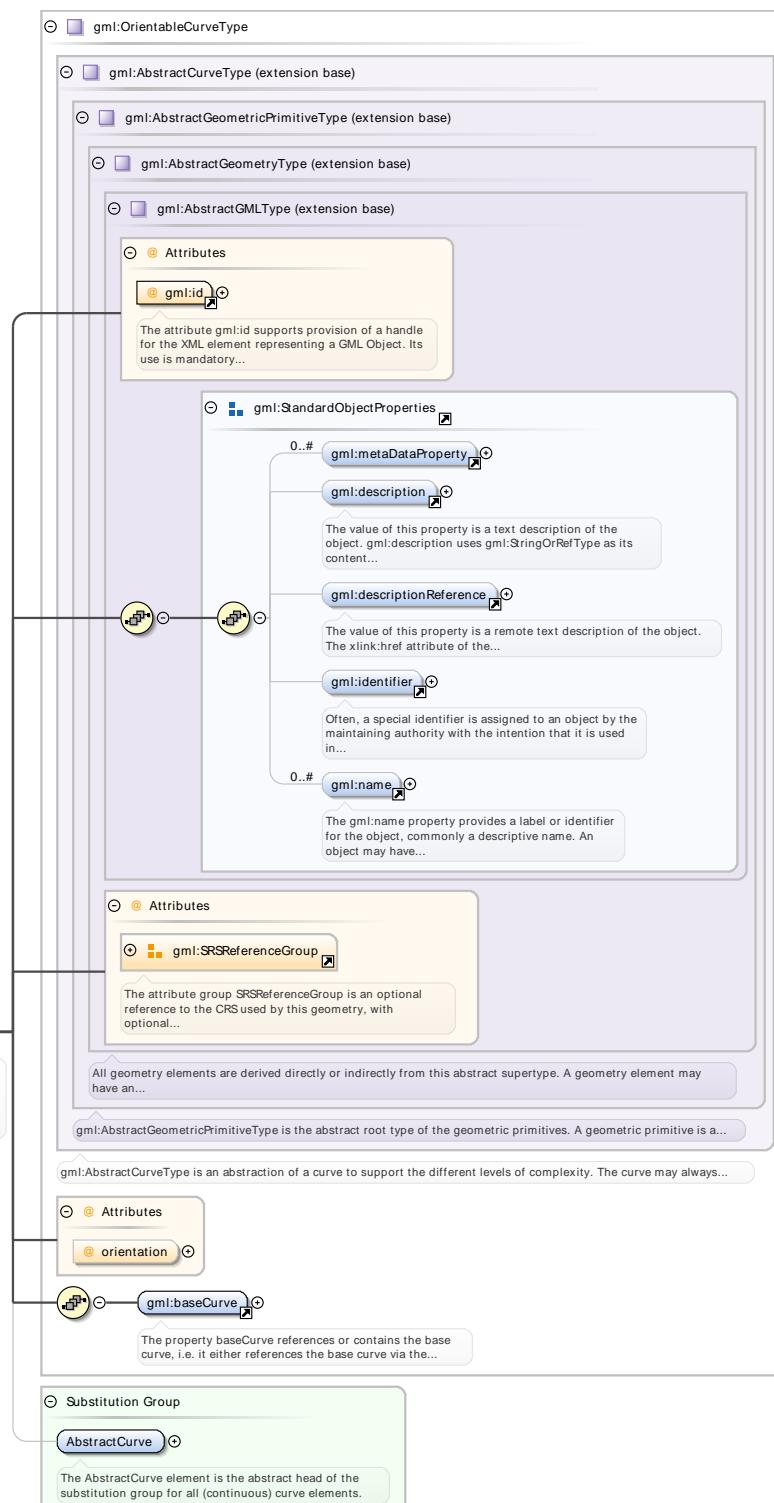
Element **gml:baseCurve**

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	The property baseCurve references or contains the base curve, i.e. it either references the base curve via the XLink-attributes or contains the curve element. A curve element is any element which is substitutable for AbstractCurve. The base curve has positive orientation.																																																							
Diagram	<p>The diagram illustrates the structure of the gml:CurvePropertyType. It shows the following associations:</p> <ul style="list-style-type: none"> baseCurve: A property that has a curve as its value domain may either be an appropriate geometry element encapsulated in an... gml:AssociationAttributeGroup: XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group.... gml:OwnershipAttributeGroup: Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or... gml:AbstractCurve: The AbstractCurve element is the abstract head of the substitution group for all (continuous) curve elements. 																																																							
Type	gml:CurvePropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:OrientableCurve**

Namespace	http://www.opengis.net/gml/3.2
Annotations	OrientableCurve consists of a curve and an orientation. If the orientation is "+", then the OrientableCurve is identical to the baseCurve. If the orientation is "-", then the OrientableCurve is related to another AbstractCurve with a parameterization that reverses the sense of the curve traversal.

Diagram



Type	<code>gml:OrientableCurveType</code>			
Properties	content: complex			
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractCurve</code> 			
Attributes	QName	Type	Default	Use
	<code>axisLabels</code>	<code>gml:NCNameList</code>		optional
	<code>gml:id</code>	<code>ID</code>		required

QName	Type	Default	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
orientation	gml:SignType	+	optional
srsDimension	positiveInteger		optional
srsName	anyURI		optional
uomLabels	gml:NCNameList		optional

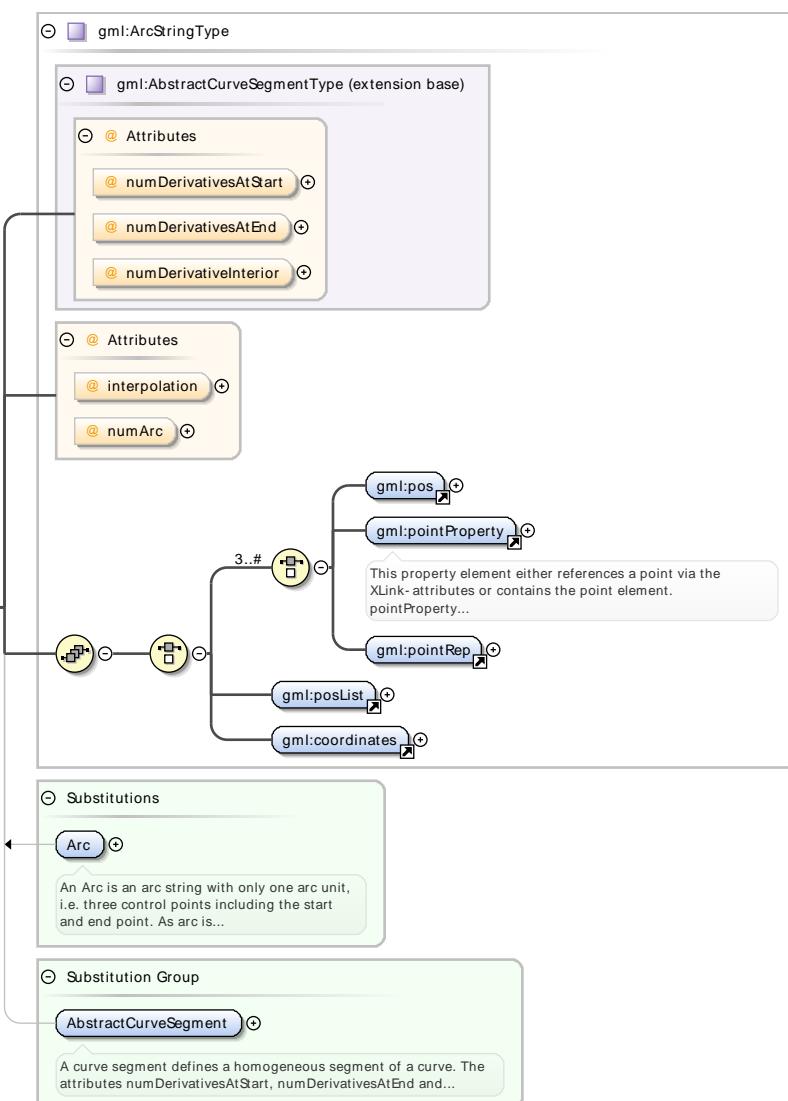
Element **gml:LineStringSegment**

Namespace	http://www.opengis.net/gml/3.2																									
Annotations	A LineStringSegment is a curve segment that is defined by two or more control points including the start and end point, with linear interpolation between them. The content model follows the general pattern for the encoding of curve segments.																									
Diagram	<p>The diagram illustrates the UML class structure for gml:LineStringSegmentType. It is an extension of gml:AbstractCurveSegmentType. The class has the following attributes:</p> <ul style="list-style-type: none"> numDerivativesAtStart numDerivativesAtEnd numDerivativeInterior interpolation <p>The class has a Substitution Group for AbstractCurveSegment. The content model for gml:pos is defined as follows:</p> <ul style="list-style-type: none"> 2..# occurrences Can be a pointProperty (referencing a point via XLink attributes or containing a point element) or a pointRep. Or gml:posList Or gml:coordinates 																									
Type	gml:LineStringSegmentType																									
Properties	content: complex																									
Substitution Group Affiliation	• gml:AbstractCurveSegment																									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:CurveInterpolationType</td> <td>linear</td> <td></td> <td>optional</td> </tr> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gml:CurveInterpolationType	linear		optional	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																						
interpolation	gml:CurveInterpolationType	linear		optional																						
numDerivativeInterior	integer		0	optional																						
numDerivativesAtEnd	integer		0	optional																						
numDerivativesAtStart	integer		0	optional																						

Element **gml:ArcString**

Namespace	http://www.opengis.net/gml/3.2
Annotations	An ArcString is a curve segment that uses three-point circular arc interpolation ("circularArc3Points"). The number of arcs in the arc string may be explicitly stated in the attribute numArc. The number of control points in the arc string shall be $2 * \text{numArc} + 1$. The content model follows the general pattern for the encoding of curve segments.

Diagram

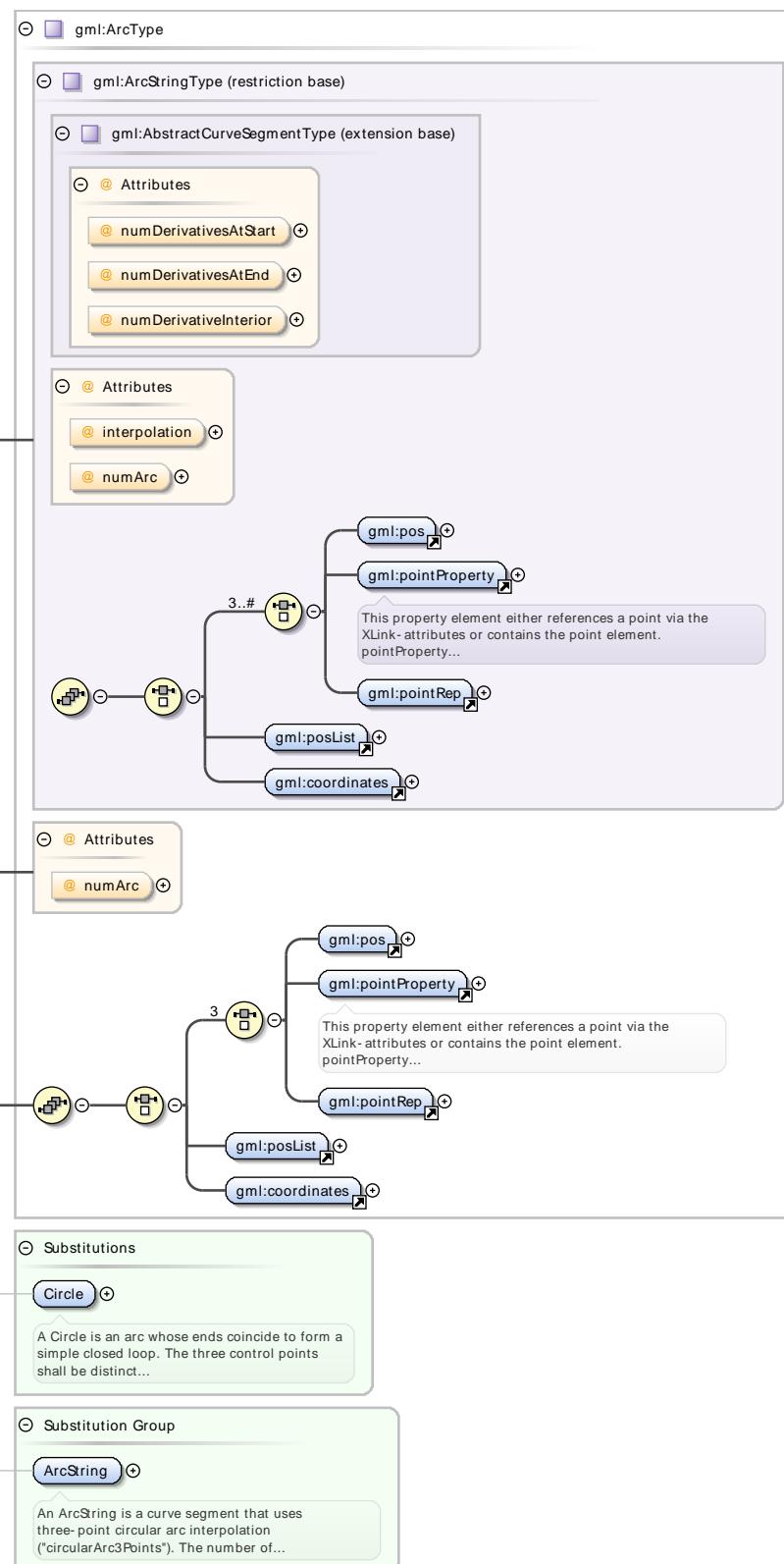


Type	<code>gml:ArcStringType</code>																														
Properties	content: complex																														
Substitution Group	<ul style="list-style-type: none"> <code>gml:Arc</code> <code>gml:Circle</code> 																														
Substitution Group Affiliation	<code>gml:AbstractCurveSegment</code>																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>interpolation</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>circularArc3Points</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>numArc</code></td> <td><code>integer</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>numDerivativeInterior</code></td> <td><code>integer</code></td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtEnd</code></td> <td><code>integer</code></td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtStart</code></td> <td><code>integer</code></td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>		optional	<code>numArc</code>	<code>integer</code>			optional	<code>numDerivativeInterior</code>	<code>integer</code>		0	optional	<code>numDerivativesAtEnd</code>	<code>integer</code>		0	optional	<code>numDerivativesAtStart</code>	<code>integer</code>		0	optional
QName	Type	Fixed	Default	Use																											
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>		optional																											
<code>numArc</code>	<code>integer</code>			optional																											
<code>numDerivativeInterior</code>	<code>integer</code>		0	optional																											
<code>numDerivativesAtEnd</code>	<code>integer</code>		0	optional																											
<code>numDerivativesAtStart</code>	<code>integer</code>		0	optional																											

Element `gml:Arc`

Namespace	http://www.opengis.net/gml/3.2
Annotations	An Arc is an arc string with only one arc unit, i.e. three control points including the start and end point. As arc is an arc string consisting of a single arc, the attribute "numArc" is fixed to "1".

Diagram



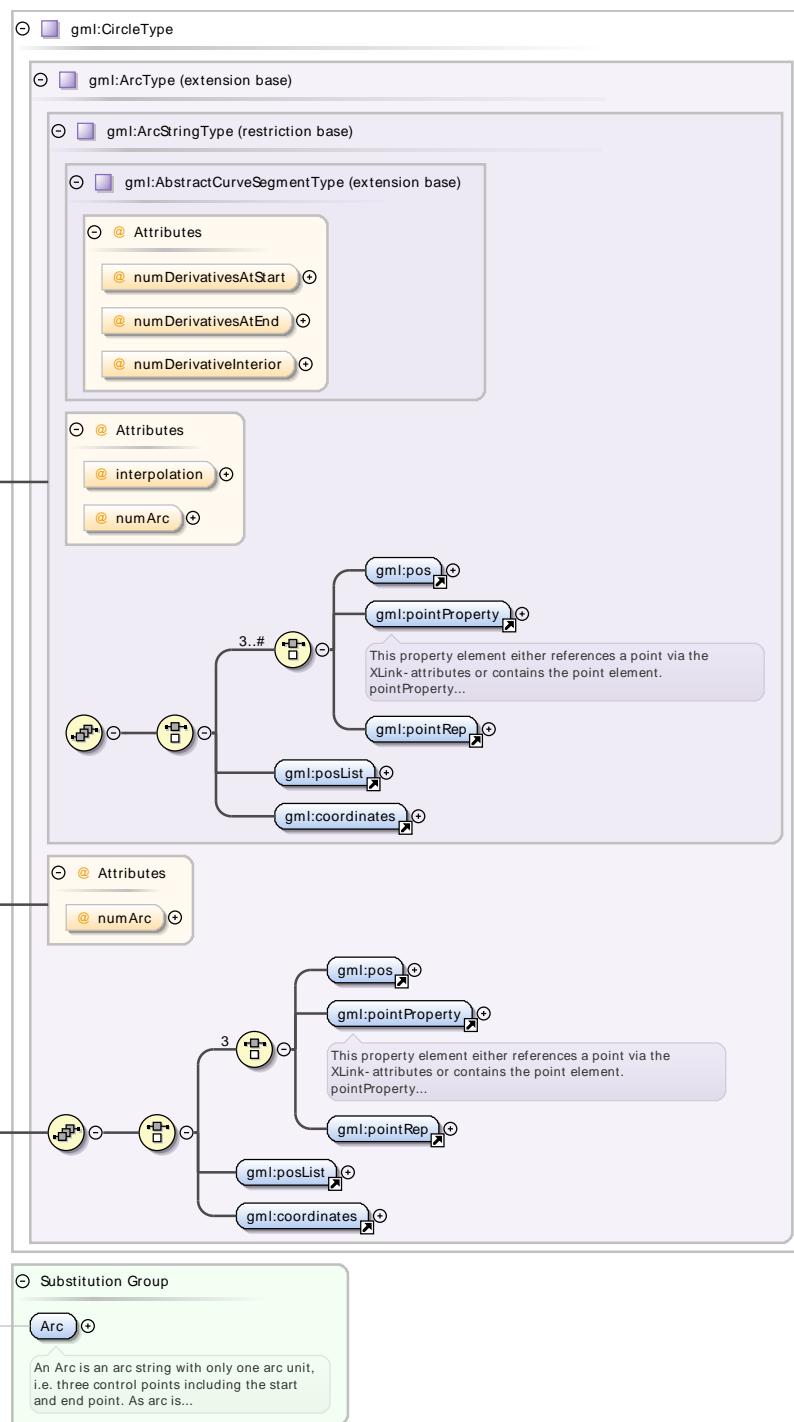
Type	<code>gml:ArcType</code>
Properties	content: complex
Substitution Group	• <code>gml:Circle</code>
Substitution Group Affiliation	• <code>gml:ArcString</code>

Attributes	QName	Type	Fixed	Default	Use	
	interpolation	gml:CurveInterpolationType	circularArc3Points		optional	
	numArc	integer	1		optional	
	numDerivativeInterior	integer		0	optional	
	numDerivativesAtEnd	integer		0	optional	
	numDerivativesAtStart	integer		0	optional	

Element **gml:Circle**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A Circle is an arc whose ends coincide to form a simple closed loop. The three control points shall be distinct non-co-linear points for the circle to be unambiguously defined. The arc is simply extended past the third control point until the first control point is encountered.

Diagram



Type	<code>gml:CircleType</code>
Properties	content: complex
Substitution Group	• <code>gml:Arc</code>
Affiliation	

Attributes	QName	Type	Fixed	Default	Use
	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>		optional
	<code>numArc</code>	integer	1		optional
	<code>numDerivativeInterior</code>	integer		0	optional
	<code>numDerivativesAtEnd</code>	integer		0	optional
	<code>numDerivativesAtStart</code>	integer		0	optional

Element `gml:ArcStringByBulgeType / gml:bulge`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type (IEEE...).</p>
Type	double
Properties	content: simple maxOccurs: unbounded

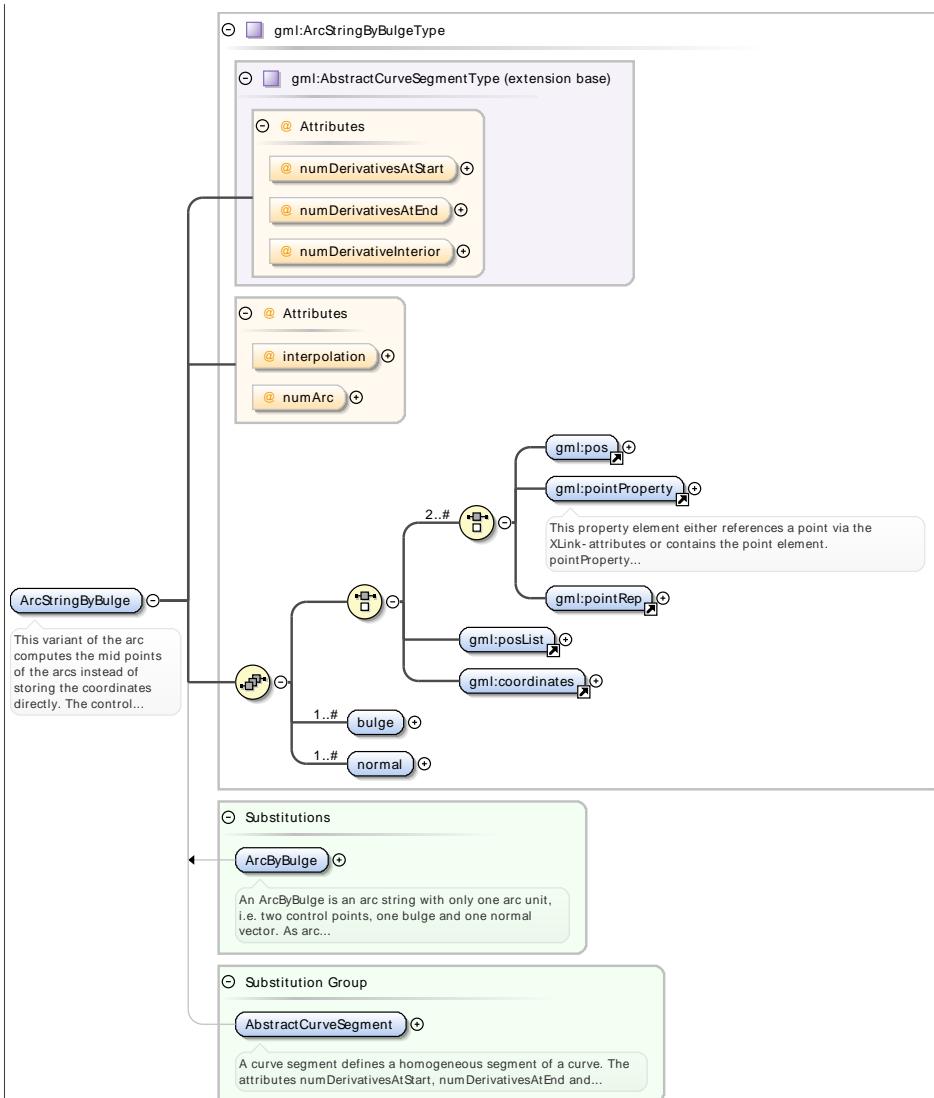
Element `gml:ArcStringByBulgeType / gml:normal`

Namespace	http://www.opengis.net/gml/3.2															
Diagram	<p>A type for a list of values of the respective simple type.</p> <p>The attribute group <code>SRSReferenceGroup</code> is an optional reference to the CRS used by this geometry, with optional...</p> <p>Direct position instances hold the coordinates for a position within some coordinate reference system (CRS). Since...</p> <p>For some applications the components of the position may be adjusted to yield a unit vector.</p>															
Type	gml:VectorType															
Properties	content: complex maxOccurs: unbounded															
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td>gml:NCNameList</td> <td>optional</td> </tr> <tr> <td><code>srsDimension</code></td> <td>positiveInteger</td> <td>optional</td> </tr> <tr> <td><code>srsName</code></td> <td>anyURI</td> <td>optional</td> </tr> <tr> <td><code>uomLabels</code></td> <td>gml:NCNameList</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	gml:NCNameList	optional	<code>srsDimension</code>	positiveInteger	optional	<code>srsName</code>	anyURI	optional	<code>uomLabels</code>	gml:NCNameList	optional
QName	Type	Use														
<code>axisLabels</code>	gml:NCNameList	optional														
<code>srsDimension</code>	positiveInteger	optional														
<code>srsName</code>	anyURI	optional														
<code>uomLabels</code>	gml:NCNameList	optional														

Element `gml:ArcStringByBulge`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>This variant of the arc computes the mid points of the arcs instead of storing the coordinates directly. The control point sequence consists of the start and end points of each arc plus the bulge (see ISO 19107:2003, 6.4.17.2). The normal is a vector normal (perpendicular) to the chord of the arc (see ISO 19107:2003, 6.4.17.4). The interpolation is fixed as "circularArc2PointWithBulge". The number of arcs in the arc string may be explicitly stated in the attribute numArc. The number of control points in the arc string shall be numArc + 1. The content model follows the general pattern for the encoding of curve segments.</p>

Diagram



Type	gml:ArcStringByBulgeType																														
Properties	content: complex																														
Substitution Group	<ul style="list-style-type: none"> gml:ArcByBulge 																														
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractCurveSegment 																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:CurveInterpolationType</td> <td>circularArc2PointWithBulge</td> <td></td> <td>optional</td> </tr> <tr> <td>numArc</td> <td>integer</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gml:CurveInterpolationType	circularArc2PointWithBulge		optional	numArc	integer			optional	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																											
interpolation	gml:CurveInterpolationType	circularArc2PointWithBulge		optional																											
numArc	integer			optional																											
numDerivativeInterior	integer		0	optional																											
numDerivativesAtEnd	integer		0	optional																											
numDerivativesAtStart	integer		0	optional																											

Element gml:ArcByBulgeType / gml:bulge

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type (IEEE...</p>

Type	double
Properties	content: simple

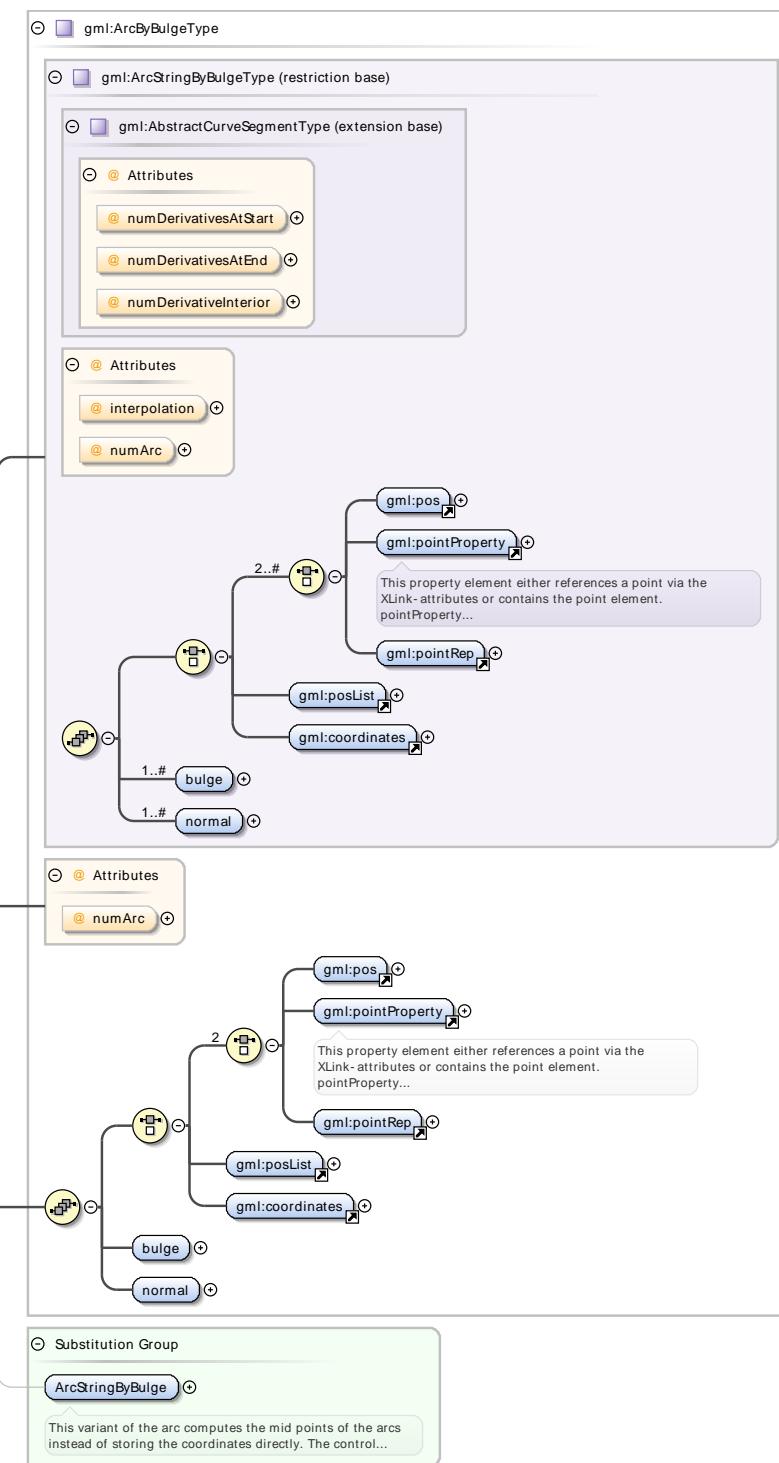
Element **gml:ArcByBulgeType / gml:normal**

Namespace	http://www.opengis.net/gml/3.2															
Diagram	<p>The diagram illustrates the inheritance structure of the gml:ArcByBulgeType element. It starts with gml:VectorType, which is the restriction base for gml:DirectPositionType. gml:DirectPositionType is a complex type that includes a gml:doubleList element, described as a type for a list of values of the respective simple type. The gml:doubleList is highlighted with a yellow box and a note: "A type for a list of values of the respective simple type." Below this is an Attributes section containing the normal attribute, which is highlighted with a yellow box and a note: "The attribute group SRSReferenceGroup is an optional reference to the CRS used by this geometry, with optional...". A note below the attributes states: "Direct position instances hold the coordinates for a position within some coordinate reference system (CRS). Since...". A final note at the bottom states: "For some applications the components of the position may be adjusted to yield a unit vector." A line connects the normal attribute to the gml:SRSReferenceGroup attribute group.</p>															
Type	gml:VectorType															
Properties	content: complex															
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>axisLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> <tr> <td>srsDimension</td> <td>positiveInteger</td> <td>optional</td> </tr> <tr> <td>srsName</td> <td>anyURI</td> <td>optional</td> </tr> <tr> <td>uomLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	axisLabels	gml:NCNameList	optional	srsDimension	positiveInteger	optional	srsName	anyURI	optional	uomLabels	gml:NCNameList	optional
QName	Type	Use														
axisLabels	gml:NCNameList	optional														
srsDimension	positiveInteger	optional														
srsName	anyURI	optional														
uomLabels	gml:NCNameList	optional														

Element **gml:ArcByBulge**

Namespace	http://www.opengis.net/gml/3.2
Annotations	An ArcByBulge is an arc string with only one arc unit, i.e. two control points, one bulge and one normal vector. As arc is an arc string consisting of a single arc, the attribute "numArc" is fixed to "1".

Diagram



Type	<code>gm1:ArcByBulgeType</code>																									
Properties	content: complex																									
Substitution Group Affiliation	• <code>gm1:ArcStringByBulge</code>																									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>interpolation</code></td><td><code>gm1:CurveInterpolationType</code></td><td><code>circularArc2PointWithBulge</code></td><td></td><td>optional</td></tr> <tr> <td><code>numArc</code></td><td>integer</td><td>1</td><td></td><td>optional</td></tr> <tr> <td><code>numDerivativeInterior</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtEnd</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gm1:CurveInterpolationType</code>	<code>circularArc2PointWithBulge</code>		optional	<code>numArc</code>	integer	1		optional	<code>numDerivativeInterior</code>	integer		0	optional	<code>numDerivativesAtEnd</code>	integer		0	optional
QName	Type	Fixed	Default	Use																						
<code>interpolation</code>	<code>gm1:CurveInterpolationType</code>	<code>circularArc2PointWithBulge</code>		optional																						
<code>numArc</code>	integer	1		optional																						
<code>numDerivativeInterior</code>	integer		0	optional																						
<code>numDerivativesAtEnd</code>	integer		0	optional																						

QName	Type	Fixed	Default	Use
numDerivativesAtStart	integer		0	optional

Element `gml:ArcByCenterPointType / gml:radius`

Namespace	http://www.opengis.net/gml/3.2											
Diagram												
Type	gml:LengthType											
Properties	content: complex											
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td><td></td></tr> </tbody> </table>				QName	Type	Use		uom	gml:UomIdentifier	required	
QName	Type	Use										
uom	gml:UomIdentifier	required										

Element `gml:ArcByCenterPointType / gml:startAngle`

Namespace	http://www.opengis.net/gml/3.2											
Diagram												
Type	gml:AngleType											
Properties	content: complex minOccurs: 0											
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td><td></td></tr> </tbody> </table>				QName	Type	Use		uom	gml:UomIdentifier	required	
QName	Type	Use										
uom	gml:UomIdentifier	required										

Element `gml:ArcByCenterPointType / gml:endAngle`

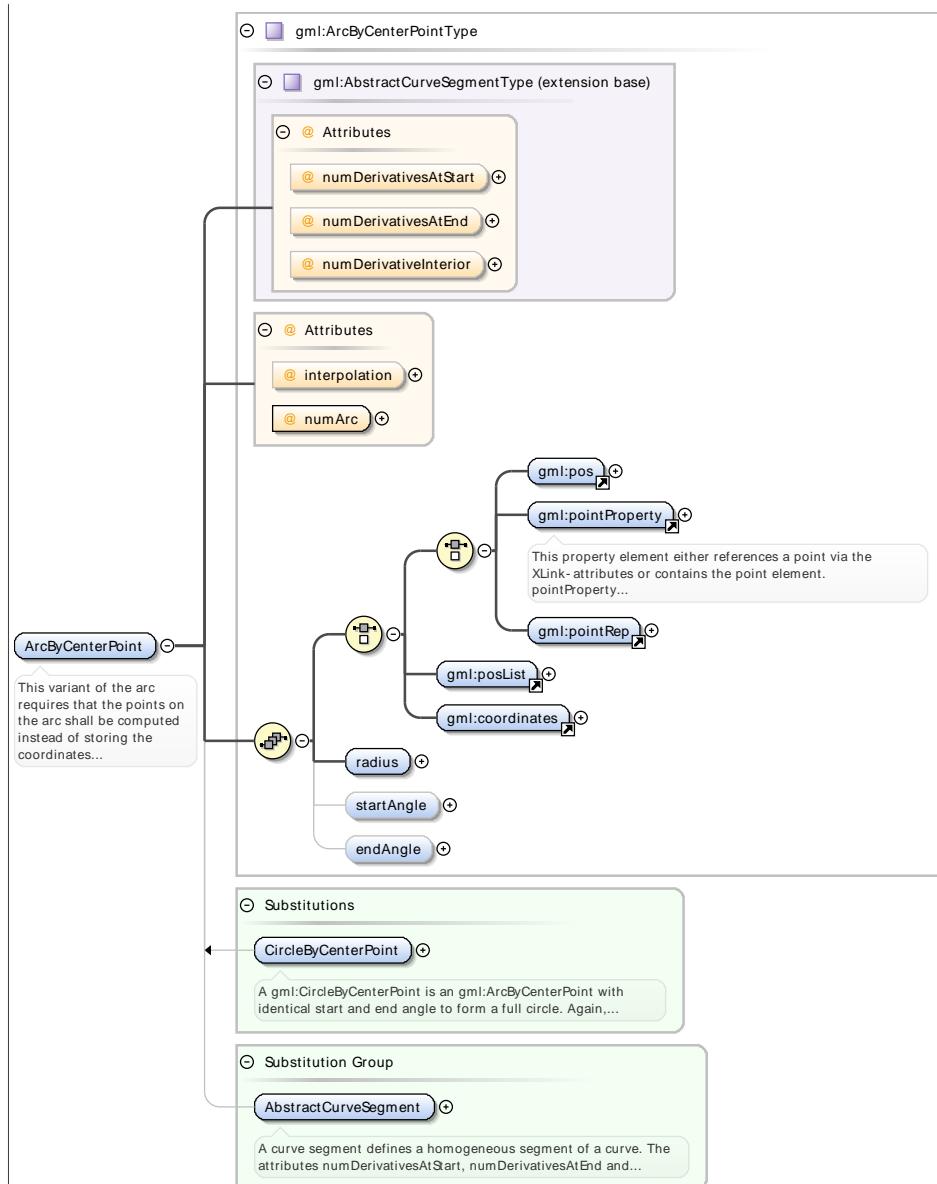
Namespace	http://www.opengis.net/gml/3.2			
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Diagram	<pre> classDiagram gml:AngleType < -- gml:MeasureType gml:MeasureType < -- double gml:MeasureType < -- uom note over gml:MeasureType: gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure... </pre>						
Type	gml:AngleType						
Properties	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">content:</td><td style="width: 90%;">complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	complex	minOccurs:	0		
content:	complex						
minOccurs:	0						
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">QName</th><th style="text-align: left; padding: 2px;">Type</th><th style="text-align: left; padding: 2px;">Use</th></tr> </thead> <tbody> <tr> <td style="padding: 2px;">uom</td><td style="padding: 2px;">gml:UomIdentifier</td><td style="padding: 2px;">required</td></tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element **gml:ArcByCenterPoint**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>This variant of the arc requires that the points on the arc shall be computed instead of storing the coordinates directly. The single control point is the center point of the arc plus the radius and the bearing at start and end. This representation can be used only in 2D. The element radius specifies the radius of the arc. The element startAngle specifies the bearing of the arc at the start. The element endAngle specifies the bearing of the arc at the end. The interpolation is fixed as "circularArcCenterPointWithRadius". Since this type describes always a single arc, the attribute "numArc" is fixed to "1". The content model follows the general pattern for the encoding of curve segments.</p>

Diagram

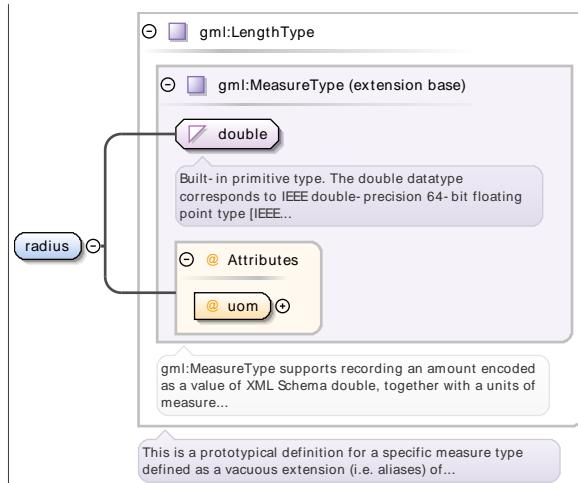


Type	<code>gml:ArcByCenterPointType</code>																														
Properties	content: complex																														
Substitution Group	<ul style="list-style-type: none"> <code>gml:CircleByCenterPoint</code> 																														
Substitution Group Affiliation	<ul style="list-style-type: none"> <code>gml:AbstractCurveSegment</code> <p>A curve segment defines a homogeneous segment of a curve. The attributes <code>numDerivativesAtStart</code>, <code>numDerivativesAtEnd</code> and...</p>																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>interpolation</code></td><td><code>gml:CurveInterpolationType</code></td><td><code>circularArcCenterPointWithRadius</code></td><td></td><td>optional</td></tr> <tr> <td><code>numArc</code></td><td>integer</td><td>1</td><td></td><td>required</td></tr> <tr> <td><code>numDerivativeInterior</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtEnd</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtStart</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>circularArcCenterPointWithRadius</code>		optional	<code>numArc</code>	integer	1		required	<code>numDerivativeInterior</code>	integer		0	optional	<code>numDerivativesAtEnd</code>	integer		0	optional	<code>numDerivativesAtStart</code>	integer		0	optional
QName	Type	Fixed	Default	Use																											
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>circularArcCenterPointWithRadius</code>		optional																											
<code>numArc</code>	integer	1		required																											
<code>numDerivativeInterior</code>	integer		0	optional																											
<code>numDerivativesAtEnd</code>	integer		0	optional																											
<code>numDerivativesAtStart</code>	integer		0	optional																											

Element `gml:CircleByCenterPointType` / `gml:radius`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

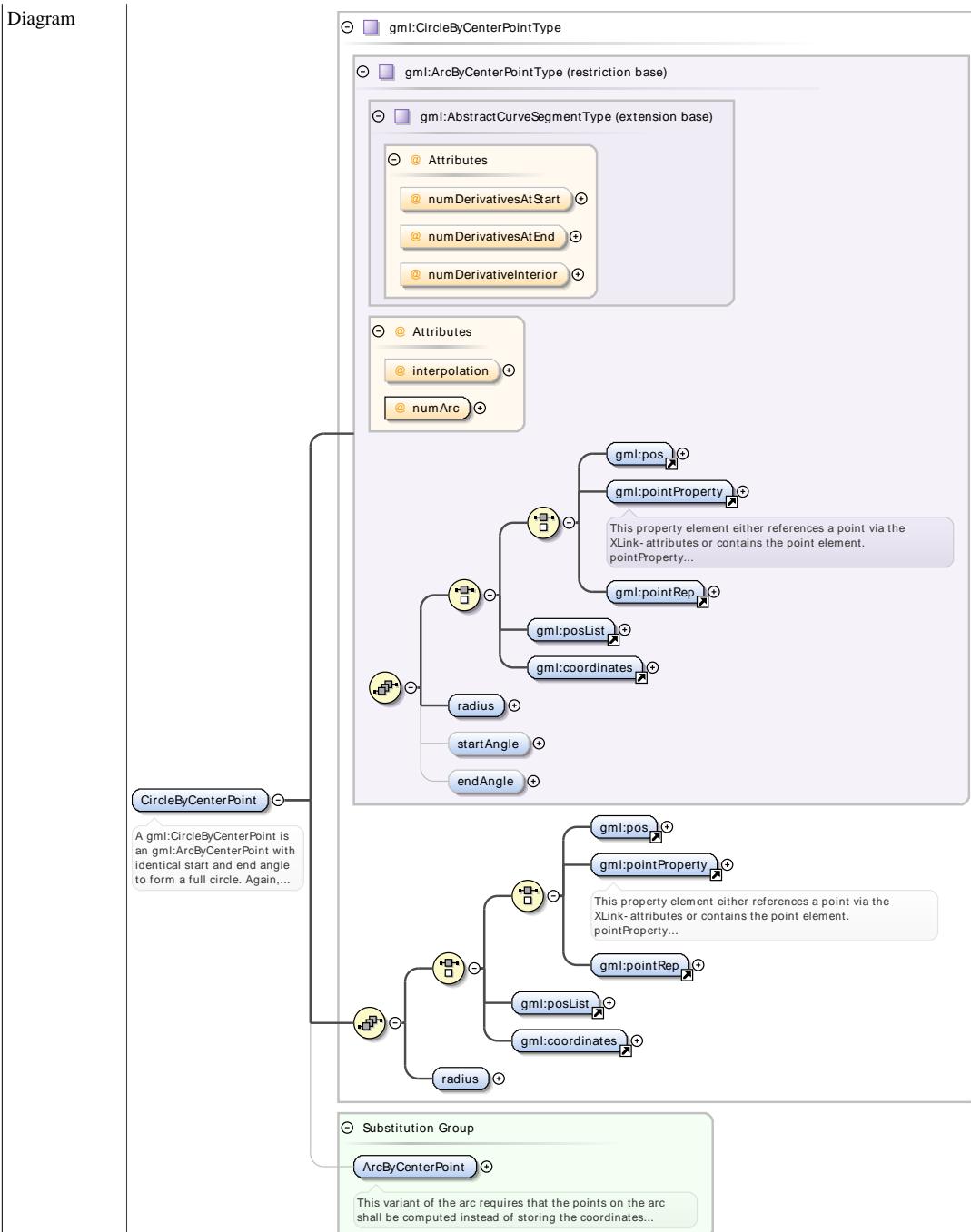


Type	<code>gml:LengthType</code>		
Properties	content: complex		
Attributes	QName	Type	Use
	<code>uom</code>	<code>gml:UomIdentifier</code>	required

Element `gml:CircleByCenterPoint`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A <code>gml:CircleByCenterPoint</code> is an <code>gml:ArcByCenterPoint</code> with identical start and end angle to form a full circle. Again, this representation can be used only in 2D.

Diagram



Type	gml:CircleByCenterPointType																														
Properties	content: complex																														
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:ArcByCenterPoint 																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>interpolation</td><td>gml:CurveInterpolationType</td><td>circularArcCenterPointWithRadius</td><td></td><td>optional</td></tr> <tr> <td>numArc</td><td>integer</td><td>1</td><td></td><td>required</td></tr> <tr> <td>numDerivativeInterior</td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td>numDerivativesAtEnd</td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td>numDerivativesAtStart</td><td>integer</td><td></td><td>0</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gml:CurveInterpolationType	circularArcCenterPointWithRadius		optional	numArc	integer	1		required	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																											
interpolation	gml:CurveInterpolationType	circularArcCenterPointWithRadius		optional																											
numArc	integer	1		required																											
numDerivativeInterior	integer		0	optional																											
numDerivativesAtEnd	integer		0	optional																											
numDerivativesAtStart	integer		0	optional																											

Element `gml:CubicSplineType / gml:vectorAtStart`

Namespace	http://www.opengis.net/gml/3.2																	
Diagram	<p>The diagram illustrates the structure of <code>gml:VectorType</code>. It starts with a general <code>gml:VectorType</code> node, which is a restriction of <code>gml:DirectPositionType</code>. This restriction is based on a <code>gml:doubleList</code> type, which is described as a list of values of a simple type. An attribute group <code>gml:SRSReferenceGroup</code> is defined, which is optional and refers to the CRS used by the geometry. A note states that direct position instances hold coordinates for a position within a coordinate reference system (CRS). Another note indicates that for some applications, components may be adjusted to yield a unit vector.</p>																	
Type	<code>gml:VectorType</code>																	
Properties	content: complex																	
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> <tr> <td><code>srsDimension</code></td><td><code>positiveInteger</code></td><td>optional</td></tr> <tr> <td><code>srsName</code></td><td><code>anyURI</code></td><td>optional</td></tr> <tr> <td><code>uomLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional		
QName	Type	Use																
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional																
<code>srsDimension</code>	<code>positiveInteger</code>	optional																
<code>srsName</code>	<code>anyURI</code>	optional																
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional																

Element `gml:CubicSplineType / gml:vectorAtEnd`

Namespace	http://www.opengis.net/gml/3.2																	
Diagram	<p>The diagram illustrates the structure of <code>gml:VectorType</code>. It starts with a general <code>gml:VectorType</code> node, which is a restriction of <code>gml:DirectPositionType</code>. This restriction is based on a <code>gml:doubleList</code> type, which is described as a list of values of a simple type. An attribute group <code>gml:SRSReferenceGroup</code> is defined, which is optional and refers to the CRS used by the geometry. A note states that direct position instances hold coordinates for a position within a coordinate reference system (CRS). Another note indicates that for some applications, components may be adjusted to yield a unit vector.</p>																	
Type	<code>gml:VectorType</code>																	
Properties	content: complex																	
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> <tr> <td><code>srsDimension</code></td><td><code>positiveInteger</code></td><td>optional</td></tr> <tr> <td><code>srsName</code></td><td><code>anyURI</code></td><td>optional</td></tr> <tr> <td><code>uomLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional		
QName	Type	Use																
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional																
<code>srsDimension</code>	<code>positiveInteger</code>	optional																
<code>srsName</code>	<code>anyURI</code>	optional																
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional																

Element `gml:CubicSpline`

Namespace	http://www.opengis.net/gml/3.2																														
Annotations	<p>The number of control points shall be at least three. <code>vectorAtStart</code> is the unit tangent vector at the start point of the spline. <code>vectorAtEnd</code> is the unit tangent vector at the end point of the spline. Only the direction of the vectors shall be used to determine the shape of the cubic spline, not their length. <code>interpolation</code> is fixed as "cubicSpline". <code>degree</code> shall be the degree of the polynomial used for the interpolation in this spline. Therefore the degree for a cubic spline is fixed to "3". The content model follows the general pattern for the encoding of curve segments.</p>																														
Diagram	<p>The number of control points shall be at least three. <code>vectorAtStart</code> is the unit tangent vector at the start point of...</p>																														
Type	<code>gml:CubicSplineType</code>																														
Properties	content: complex																														
Substitution Group Affiliation	• <code>gml:AbstractCurveSegment</code>																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>degree</code></td><td>integer</td><td>3</td><td></td><td>optional</td></tr> <tr> <td><code>interpolation</code></td><td><code>gml:CurveInterpolationType</code></td><td>cubicSpline</td><td></td><td>optional</td></tr> <tr> <td><code>numDerivativeInterior</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtEnd</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtStart</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>degree</code>	integer	3		optional	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	cubicSpline		optional	<code>numDerivativeInterior</code>	integer		0	optional	<code>numDerivativesAtEnd</code>	integer		0	optional	<code>numDerivativesAtStart</code>	integer		0	optional
QName	Type	Fixed	Default	Use																											
<code>degree</code>	integer	3		optional																											
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	cubicSpline		optional																											
<code>numDerivativeInterior</code>	integer		0	optional																											
<code>numDerivativesAtEnd</code>	integer		0	optional																											
<code>numDerivativesAtStart</code>	integer		0	optional																											

Element `gml:BSplineType` / `gml:degree`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>degree → nonNegativeInteger</p> <p>Built-in derived type. The nonNegativeInteger datatype is derived from integer by setting the value of minInclusive to...</p>
Type	nonNegativeInteger
Properties	content: simple

Element **gml:BSplineType** / **gml:knot**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>gml:KnotPropertyType</p> <p>knot</p> <p>A knot is a breakpoint on a piecewise spline curve. value is the value of the parameter at the knot of the spline (see...)</p> <p>gml:KnotPropertyType encapsulates a knot to use it in a geometric type.</p>
Type	gml:KnotPropertyType
Properties	<p>content: complex</p> <p>minOccurs: 2</p> <p>maxOccurs: unbounded</p>

Element **gml:KnotPropertyType** / **gml:Knot**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A knot is a breakpoint on a piecewise spline curve. value is the value of the parameter at the knot of the spline (see ISO 19107:2003, 6.4.24.2). multiplicity is the multiplicity of this knot used in the definition of the spline (with the same weight). weight is the value of the averaging weight used for this knot of the spline.
Diagram	<p>gml:KnotType</p> <p>Knot</p> <p>A knot is a breakpoint on a piecewise spline curve. value is the value of the parameter at the knot of the spline (see...)</p> <p>value</p> <p>multiplicity</p> <p>weight</p>
Type	gml:KnotType
Properties	content: complex

Element **gml:KnotType** / **gml:value**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>value → double</p> <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE..]</p>
Type	double
Properties	content: simple

Element **gml:KnotType** / **gml:multiplicity**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	
Type	nonNegativeInteger
Properties	content: simple

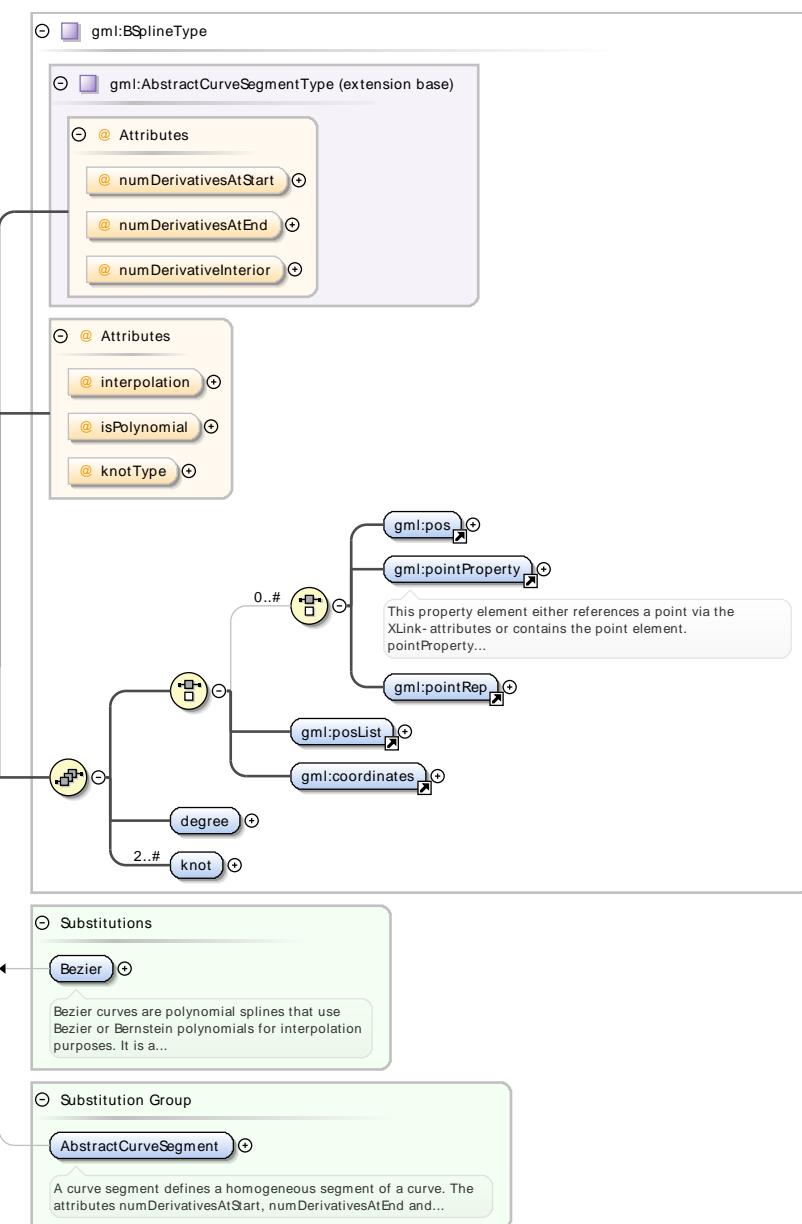
Element **gml:KnotType / gml:weight**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	double
Properties	content: simple

Element **gml:BSpline**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A B-Spline is a piecewise parametric polynomial or rational curve described in terms of control points and basis functions as specified in ISO 19107:2003, 6.4.30. Therefore, interpolation may be either "polynomialSpline" or "rationalSpline" depending on the interpolation type; default is "polynomialSpline". degree shall be the degree of the polynomial used for interpolation in this spline. knot shall be the sequence of distinct knots used to define the spline basis functions (see ISO 19107:2003, 6.4.26.2). The attribute isPolynomial shall be set to "true" if this is a polynomial spline (see ISO 19107:2003, 6.4.30.5). The attribute knotType shall provide the type of knot distribution used in defining this spline (see ISO 19107:2003, 6.4.30.4). The content model follows the general pattern for the encoding of curve segments.</p>

Diagram



Type	gml:BSplineType																												
Properties	content: complex																												
Substitution Group	• gml:Bezier																												
Substitution Group Affiliation	• gml:AbstractCurveSegment																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:CurveInterpolationType</td> <td>polynomialSpline</td> <td>optional</td> </tr> <tr> <td>isPolynomial</td> <td>boolean</td> <td></td> <td>optional</td> </tr> <tr> <td>knotType</td> <td>gml:KnotTypesType</td> <td></td> <td>optional</td> </tr> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	interpolation	gml:CurveInterpolationType	polynomialSpline	optional	isPolynomial	boolean		optional	knotType	gml:KnotTypesType		optional	numDerivativeInterior	integer	0	optional	numDerivativesAtEnd	integer	0	optional	numDerivativesAtStart	integer	0	optional
QName	Type	Default	Use																										
interpolation	gml:CurveInterpolationType	polynomialSpline	optional																										
isPolynomial	boolean		optional																										
knotType	gml:KnotTypesType		optional																										
numDerivativeInterior	integer	0	optional																										
numDerivativesAtEnd	integer	0	optional																										
numDerivativesAtStart	integer	0	optional																										

Element gml:BezierType / gml:degree

Namespace	http://www.opengis.net/gml/3.2
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Diagram	
Type	nonNegativeInteger
Properties	content: simple

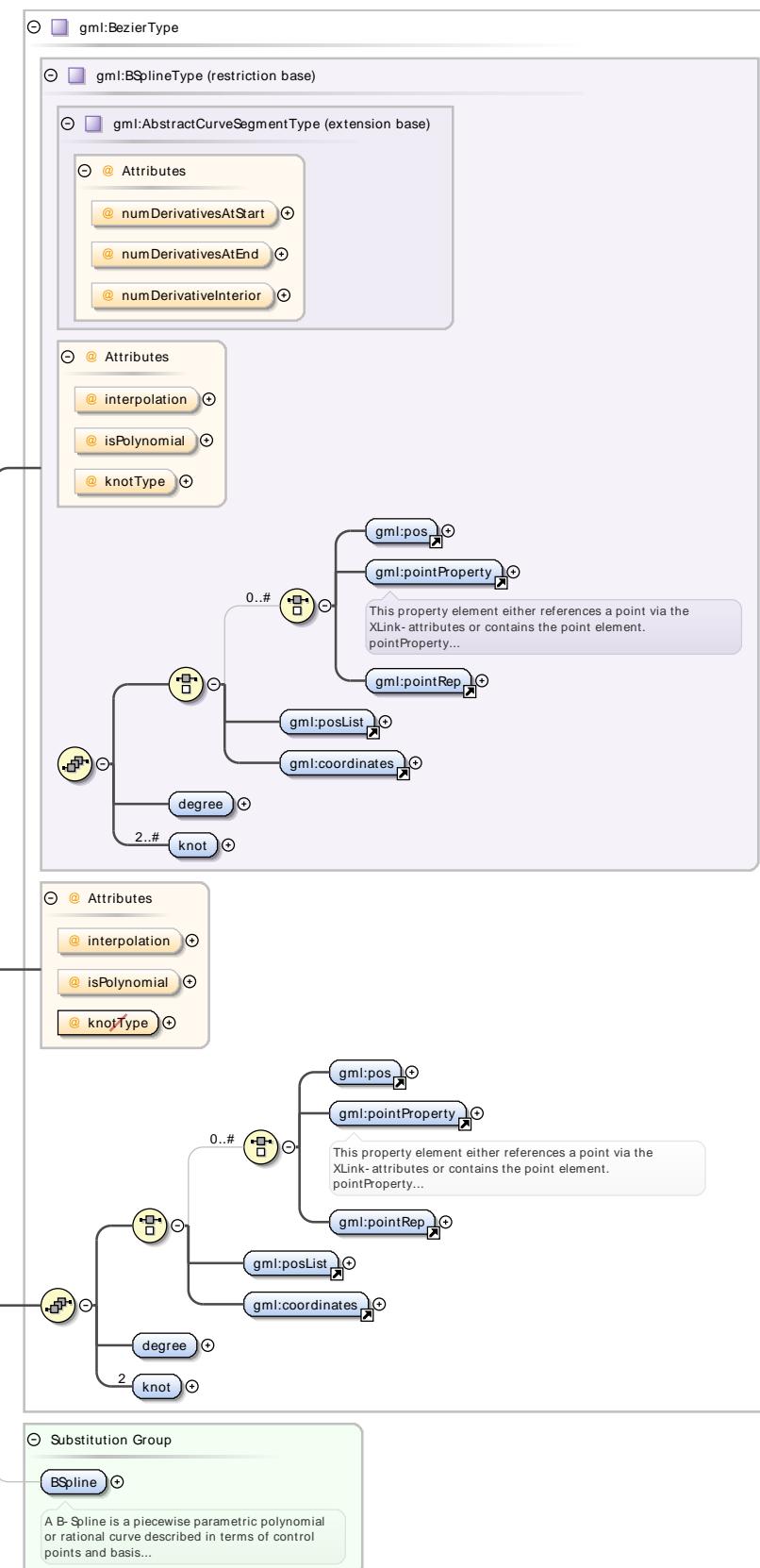
Element **gml:BezierType** / **gml:knot**

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:KnotPropertyType						
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>2</td> </tr> <tr> <td>maxOccurs:</td> <td>2</td> </tr> </table>	content:	complex	minOccurs:	2	maxOccurs:	2
content:	complex						
minOccurs:	2						
maxOccurs:	2						

Element **gml:Bezier**

Namespace	http://www.opengis.net/gml/3.2
Annotations	Bezier curves are polynomial splines that use Bezier or Bernstein polynomials for interpolation purposes. It is a special case of the B-Spline curve with two knots. degree shall be the degree of the polynomial used for interpolation in this spline. knot shall be the sequence of distinct knots used to define the spline basis functions. interpolation is fixed as "polynomialSpline". isPolynomial is fixed as "true". knotType is not relevant for Bezier curve segments.

Diagram



Type	<code>gml:BezierType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:BSpline</code>

Attributes	QName	Type	Fixed	Default	Use	
	interpolation	gml:CurveInterpolationType	polynomialSpline		optional	
	isPolynomial	boolean	true		optional	
	numDerivativeInterior	integer		0	optional	
	numDerivativesAtEnd	integer		0	optional	
	numDerivativesAtStart	integer		0	optional	

Element **gml:OffsetCurveType / gml:offsetBase**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>gml:CurvePropertyType</p> <p>Attributes</p> <ul style="list-style-type: none"> gml:AssociationAttributeGroup gml:OwnershipAttributeGroup <p>gml:AbstractCurve</p> <p>A property that has a curve as its value domain may either be an appropriate geometry element encapsulated in an...</p>																																																							
Type	gml:CurvePropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gml:remoteSchema	anyURI			optional																																																				
nilReason	gml:NilReasonType			optional																																																				
owns	boolean		false	optional																																																				
xlink:actuate	xlink:actuateType			optional																																																				
xlink:arcrole	xlink:arcroleType			optional																																																				
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xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:OffsetCurveType / gml:distance**

Namespace	http://www.opengis.net/gml/3.2
-----------	--------------------------------

Diagram

```

classDiagram
    gml:LengthType <|-- gml:MeasureType
    gml:MeasureType <|-- double
    double <|-- "Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]"
    gml:LengthType <|-- @Attributes
    @Attributes <|-- @ uom
    @ uom <|-- "gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure..."
    @ uom <|-- "This is a prototypical definition for a specific measure type defined as a vacuous extension (i.e. aliases) of..."
  
```

Type

gml:LengthType

Properties

content: complex

Attributes

	QName	Type	Use	
	uom	gml:UomIdentifier	required	

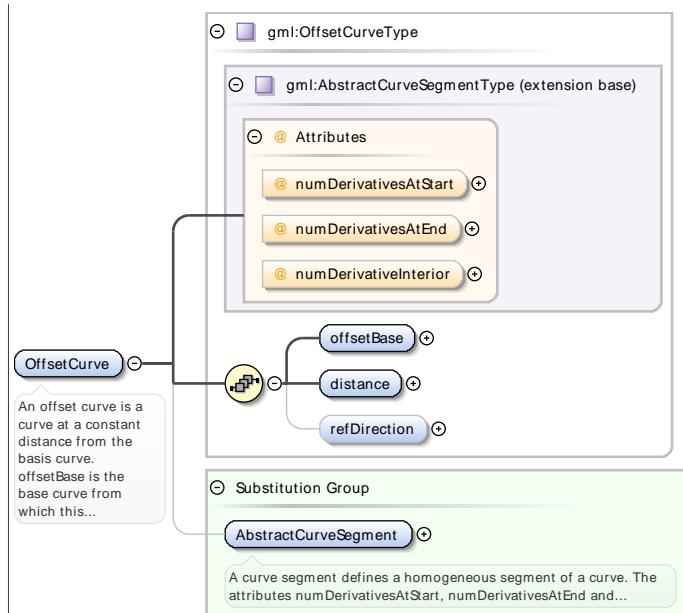
Element gml:OffsetCurveType / gml:refDirection

Namespace	http://www.opengis.net/gml/3.2																				
Diagram	<p>The diagram illustrates the structure of the <code>gml:VectorType</code> element. It is a complex type (indicated by a purple square icon) that contains a <code>gml:doubleList</code> element (indicated by a purple diamond icon). This list represents a type for a list of values of the respective simple type. The diagram also shows an <code>Attributes</code> section with an <code>gml:SRSReferenceGroup</code> attribute (indicated by an orange square icon). This attribute group is described as an optional reference to the CRS used by this geometry, with optional components. A note indicates that direct position instances hold coordinates for a position within some coordinate reference system (CRS). Another note specifies that for some applications, components may be adjusted to yield a unit vector. A reference direction is also mentioned.</p>																				
Type	<code>gml:VectorType</code>																				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0																
content:	complex																				
minOccurs:	0																				
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QName	Type	Use																			
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional																			
<code>srsDimension</code>	<code>positiveInteger</code>	optional																			
<code>srsName</code>	<code>anyURI</code>	optional																			
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional																			

Element gml:OffsetCurve

Namespace	http://www.opengis.net/gml/3.2
Annotations	An offset curve is a curve at a constant distance from the basis curve. offsetBase is the base curve from which this curve is defined as an offset. distance and refDirection have the same meaning as specified in ISO 19107:2003, 6.4.23. The content model follows the general pattern for the encoding of curve segments.

Diagram



Type	<code>gml:OffsetCurveType</code>																			
Properties	content: complex																			
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractCurveSegment</code> 																			
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>numDerivativeInterior</code></td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtEnd</code></td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtStart</code></td> <td>integer</td> <td>0</td> <td>optional</td> </tr> </tbody> </table>				QName	Type	Default	Use	<code>numDerivativeInterior</code>	integer	0	optional	<code>numDerivativesAtEnd</code>	integer	0	optional	<code>numDerivativesAtStart</code>	integer	0	optional
QName	Type	Default	Use																	
<code>numDerivativeInterior</code>	integer	0	optional																	
<code>numDerivativesAtEnd</code>	integer	0	optional																	
<code>numDerivativesAtStart</code>	integer	0	optional																	

Element `gml:AffinePlacementType` / `gml:location`

Namespace	http://www.opengis.net/gml/3.2																		
Diagram	<p>Diagram illustrating the schema structure for <code>gml:DirectPositionType</code>. The diagram shows inheritance from <code>gml:DoubleList</code>. The <code>gml:DoubleList</code> class has attributes <code>axisLabels</code>, <code>srsDimension</code>, <code>srsName</code>, and <code>uomLabels</code>. A note states: "Direct position instances hold the coordinates for a position within some coordinate reference system (CRS). Since..."</p>																		
Type	<code>gml:DirectPositionType</code>																		
Properties	content: complex																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> <tr> <td><code>srsDimension</code></td> <td><code>positiveInteger</code></td> <td>optional</td> </tr> <tr> <td><code>srsName</code></td> <td><code>anyURI</code></td> <td>optional</td> </tr> <tr> <td><code>uomLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> </tbody> </table>				QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional
QName	Type	Use																	
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional																	
<code>srsDimension</code>	<code>positiveInteger</code>	optional																	
<code>srsName</code>	<code>anyURI</code>	optional																	
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional																	

Element `gml:AffinePlacementType` / `gml:refDirection`

Namespace	http://www.opengis.net/gml/3.2															
Diagram	<p>The diagram illustrates the structure of the <code>gml:refDirection</code> element. It is a child of <code>gml:VectorType</code>, which is a restriction base for <code>gml:DirectPositionType</code>. <code>gml:DirectPositionType</code> is a list of <code>gml:doubleList</code> elements, which are described as a type for a list of values of the respective simple type. The <code>gml:refDirection</code> element is shown with a line connecting it to the <code>gml:VectorType</code> node. Below the main structure, there is a box for attributes containing the <code>gml:SRSReferenceGroup</code> attribute group, which is described as an optional reference to the CRS used by this geometry.</p>															
Type	<code>gml:VectorType</code>															
Properties	<table> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	maxOccurs:	unbounded											
content:	complex															
maxOccurs:	unbounded															
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> <tr> <td><code>srsDimension</code></td> <td><code>positiveInteger</code></td> <td>optional</td> </tr> <tr> <td><code>srsName</code></td> <td><code>anyURI</code></td> <td>optional</td> </tr> <tr> <td><code>uomLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional
QName	Type	Use														
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional														
<code>srsDimension</code>	<code>positiveInteger</code>	optional														
<code>srsName</code>	<code>anyURI</code>	optional														
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional														

Element `gml:AffinePlacementType` / `gml:inDimension`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the structure of the <code>gml:inDimension</code> element. It is a child of <code>gml:AffinePlacementType</code>, which is a derived type from <code>positiveInteger</code>. A note below the diagram states that <code>positiveInteger</code> is a built-in derived type derived from <code>nonNegativeInteger</code> by setting the value of...</p>
Type	<code>positiveInteger</code>
Properties	content: simple

Element `gml:AffinePlacementType` / `gml:outDimension`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the structure of the <code>gml:outDimension</code> element. It is a child of <code>gml:AffinePlacementType</code>, which is a derived type from <code>positiveInteger</code>. A note below the diagram states that <code>positiveInteger</code> is a built-in derived type derived from <code>nonNegativeInteger</code> by setting the value of...</p>
Type	<code>positiveInteger</code>
Properties	content: simple

Element `gml:AffinePlacement`

Namespace	http://www.opengis.net/gml/3.2
Annotations	location, refDirection, inDimension and outDimension have the same meaning as specified in ISO 19107:2003, 6.4.21.

Diagram	
Type	gml:AffinePlacementType
Properties	content: complex
Substitution Group Affiliation	• gml:AbstractObject

Element gml:ClothoidType / gml:refLocation

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Properties	content: complex

Element gml:ClothoidType / gml:scaleFactor

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	decimal
Properties	content: simple

Element gml:ClothoidType / gml:startParameter

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	double
Properties	content: simple

Element gml:ClothoidType / gml:endParameter

Namespace	http://www.opengis.net/gml/3.2
Diagram	

Type	double
Properties	content: simple

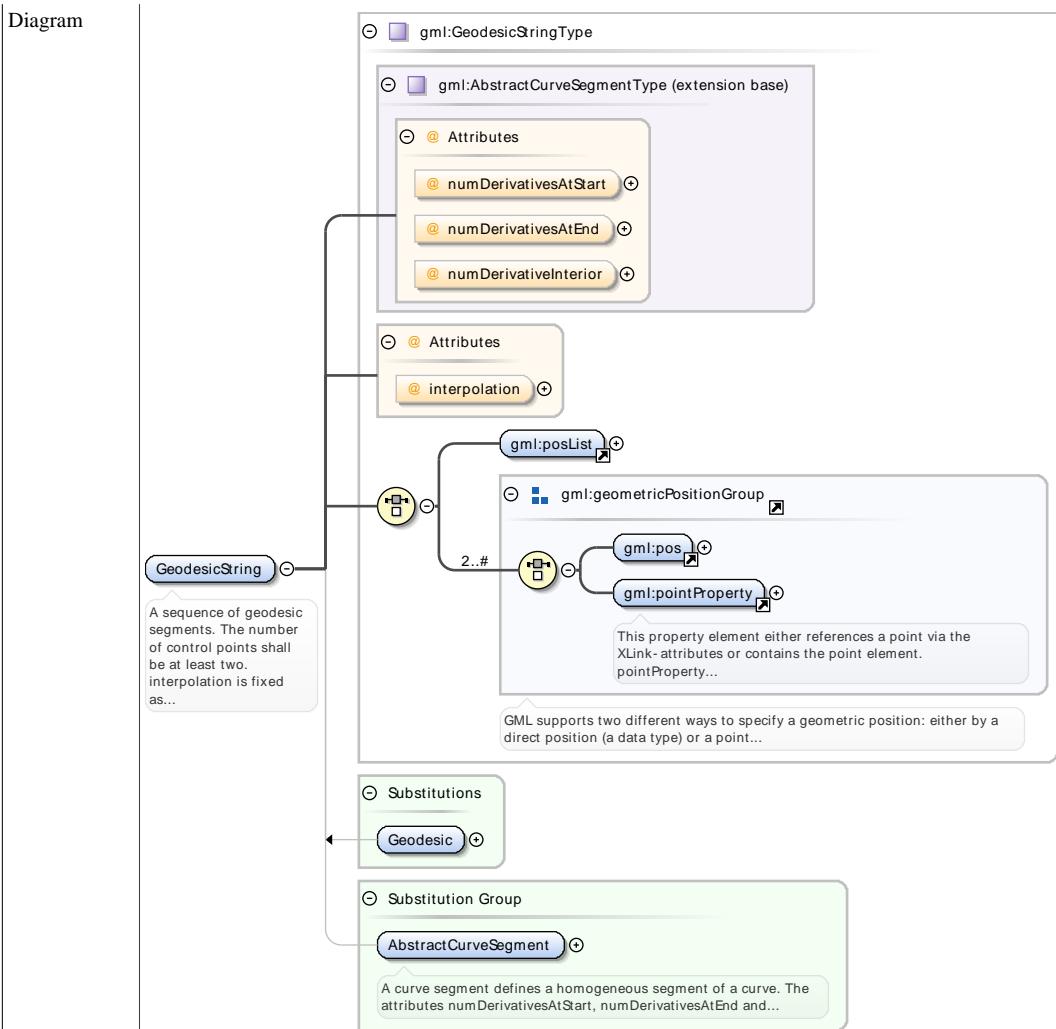
Element gml:Clothoid

Namespace	http://www.opengis.net/gml/3.2																									
Annotations	A clothoid, or Cornu's spiral, is plane curve whose curvature is a fixed function of its length. refLocation, startParameter, endParameter and scaleFactor have the same meaning as specified in ISO 19107:2003, 6.4.22. interpolation is fixed as "clothoid". The content model follows the general pattern for the encoding of curve segments.																									
Diagram	<pre> classDiagram class Clothoid { <<A clothoid, or Cornu's spiral, is plane curve whose curvature is a fixed function of its length. refLocation,...>> refLocation scaleFactor startParameter endParameter } Clothoid < -- gml:AbstractCurveSegmentType class AbstractCurveSegment { <<A curve segment defines a homogeneous segment of a curve. The attributes numDerivativesAtStart, numDerivativesAtEnd and...>> } </pre>																									
Type	gml:ClothoidType																									
Properties	content: complex																									
Substitution Group	• gml:AbstractCurveSegment																									
Affiliation																										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:CurveInterpolationType</td> <td>clothoid</td> <td></td> <td>optional</td> </tr> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gml:CurveInterpolationType	clothoid		optional	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																						
interpolation	gml:CurveInterpolationType	clothoid		optional																						
numDerivativeInterior	integer		0	optional																						
numDerivativesAtEnd	integer		0	optional																						
numDerivativesAtStart	integer		0	optional																						

Element gml:GeodesicString

Namespace	http://www.opengis.net/gml/3.2
Annotations	A sequence of geodesic segments. The number of control points shall be at least two. interpolation is fixed as "geodesic". The content model follows the general pattern for the encoding of curve segments.

Diagram



Type	<code>gml:GeodesicStringType</code>
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Properties	content: complex
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Substitution Group	• <code>gml:Geodesic</code>
--------------------	-----------------------------

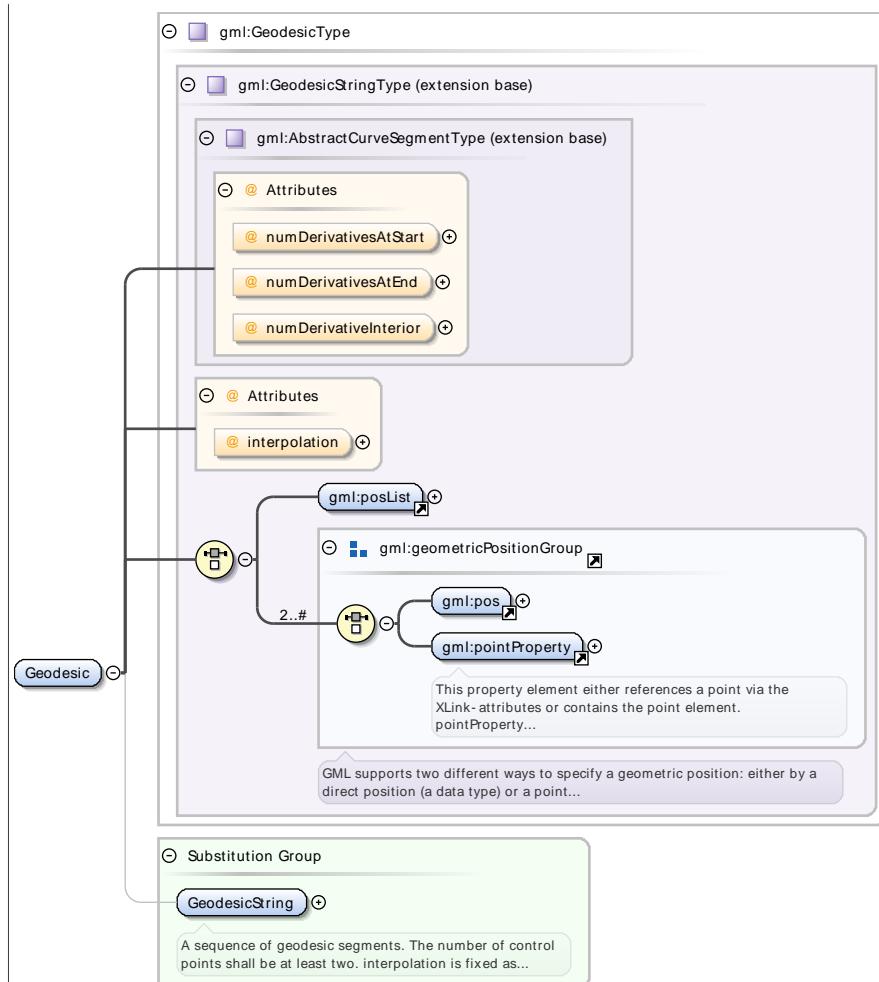
Substitution Group Affiliation	• <code>gml:AbstractCurveSegment</code>
--------------------------------	---

Attributes	QName	Type	Fixed	Default	Use
	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	geodesic		optional
	<code>numDerivativeInterior</code>	integer		0	optional
	<code>numDerivativesAtEnd</code>	integer		0	optional
	<code>numDerivativesAtStart</code>	integer		0	optional

Element `gml:Geodesic`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	<code>gml:GeodesicType</code>																									
Properties	content: complex																									
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:GeodesicString</code> 																									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>interpolation</code></td> <td><code>gml:CurveInterpolationType</code></td> <td>geodesic</td> <td></td> <td>optional</td> </tr> <tr> <td><code>numDerivativeInterior</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtEnd</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtStart</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	geodesic		optional	<code>numDerivativeInterior</code>	integer		0	optional	<code>numDerivativesAtEnd</code>	integer		0	optional	<code>numDerivativesAtStart</code>	integer		0	optional
QName	Type	Fixed	Default	Use																						
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	geodesic		optional																						
<code>numDerivativeInterior</code>	integer		0	optional																						
<code>numDerivativesAtEnd</code>	integer		0	optional																						
<code>numDerivativesAtStart</code>	integer		0	optional																						

Element `gml:patches`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The <code>patches</code> property element contains the sequence of surface patches. The order of the elements is significant and shall be preserved when processing the array.

Diagram	<p>The patches property element contains the sequence of surface patches. The order of the elements is significant and...</p>
Type	gml:SurfacePatchArrayType
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> • gml:polygonPatches • gml:trianglePatches

Element **gml:AbstractSurfacePatch**

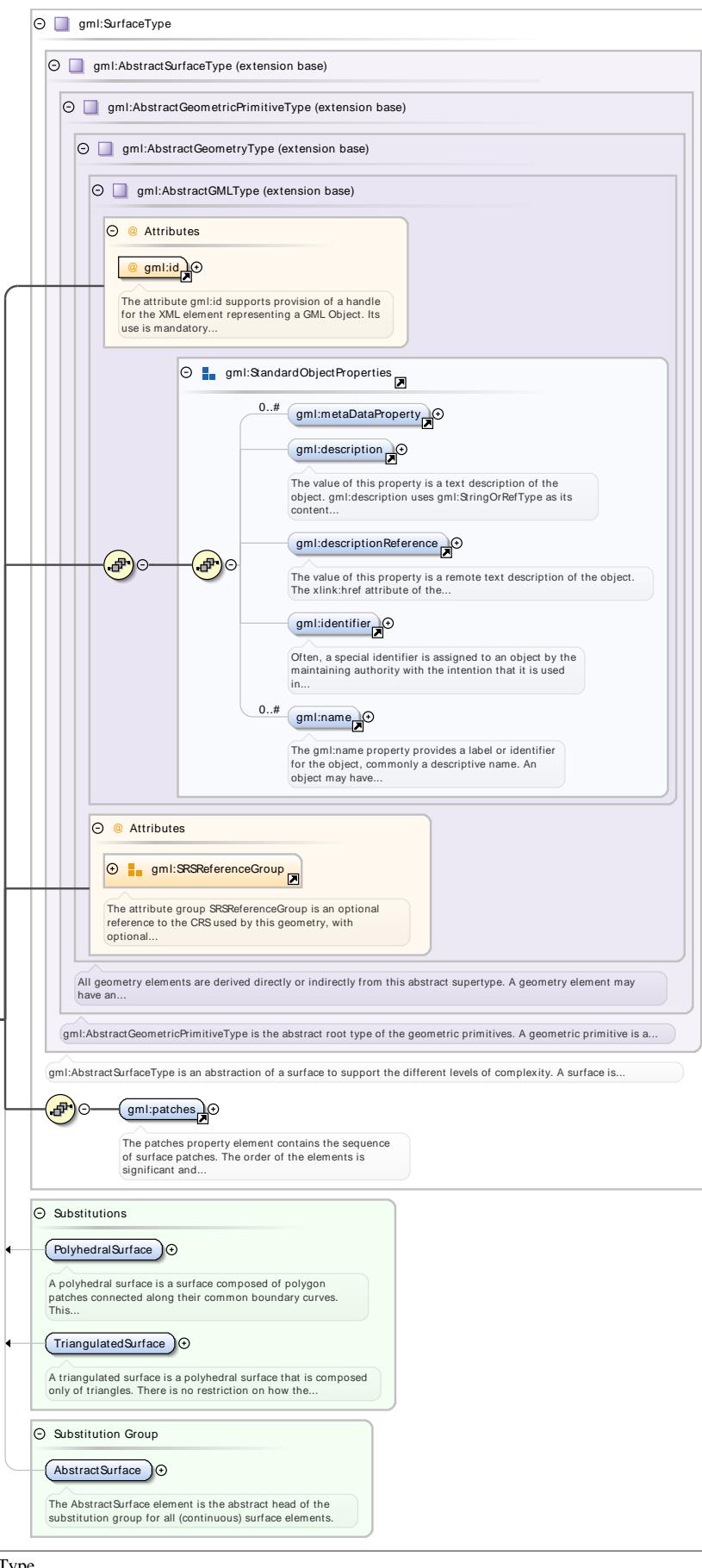
Namespace	http://www.opengis.net/gml/3.2				
Annotations	A surface patch defines a homogenous portion of a surface. The AbstractSurfacePatch element is the abstract head of the substitution group for all surface patch elements describing a continuous portion of a surface. All surface patches shall have an attribute interpolation (declared in the types derived from gml:AbstractSurfacePatchType) specifying the interpolation mechanism used for the patch using gml:SurfaceInterpolationType.				
Diagram	<p>A surface patch defines a homogenous portion of a surface. The AbstractSurfacePatch element is the abstract head of...</p>				
Type	gml:AbstractSurfacePatchType				
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>abstract:</td><td>true</td></tr> </table>	content:	complex	abstract:	true
content:	complex				
abstract:	true				
Substitution Group	<ul style="list-style-type: none"> • gml:PolygonPatch • gml:Triangle • gml:Rectangle • gml:AbstractParametricCurveSurface • gml:AbstractGriddedSurface • gml:Cone • gml:Cylinder 				

- | |
|------------------------------|
| • gml:Sphere |
|------------------------------|

Element **gml:Surface**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A Surface is a 2-dimensional primitive and is composed of one or more surface patches as specified in ISO 19107:2003, 6.3.17.1. The surface patches are connected to one another. patches encapsulates the patches of the surface.

Diagram



Type	<code>gml:SurfaceType</code>
------	------------------------------

Properties	content: complex		
Substitution Group	<ul style="list-style-type: none"> • gml:PolyhedralSurface • gml:TriangulatedSurface • gml:Tin 		
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractSurface 		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element gml:baseSurface

Namespace	http://www.opengis.net/gml/3.2				
Annotations	The property baseSurface references or contains the base surface. The property baseSurface either references the base surface via the XLink-attributes or contains the surface element. A surface element is any element which is substitutable for gml:AbstractSurface. The base surface has positive orientation.				
Diagram					
Type	gml:SurfacePropertyType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element `gml:OrientableSurface`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>OrientableSurface consists of a surface and an orientation. If the orientation is "+", then the OrientableSurface is identical to the baseSurface. If the orientation is "-", then the OrientableSurface is a reference to a gml:AbstractSurface with an up-normal that reverses the direction for this OrientableSurface, the sense of "the top of the surface".</p>
Diagram	<p>The diagram illustrates the inheritance structure of the <code>gml:OrientableSurfaceType</code>. It is derived from <code>gml:AbstractSurfaceType</code>, which is itself derived from <code>gml:AbstractGeometricPrimitiveType</code> and <code>gml:AbstractGMLType</code>. The <code>gml:OrientableSurfaceType</code> class contains several attributes:</p> <ul style="list-style-type: none"> <code>gml:id</code>: A mandatory attribute that provides a handle for the XML element representing a GML Object. <code>gml:metaDataProperty</code>: An attribute that contains a text description of the object. <code>gml:description</code>: An attribute that contains a text description of the object. <code>gml:descriptionReference</code>: An attribute that contains a remote text description of the object. <code>gml:identifier</code>: An attribute that contains a special identifier assigned by the maintaining authority. <code>gml:name</code>: An attribute that provides a label or identifier for the object. <code>gml:SRSReferenceGroup</code>: An optional attribute group that refers to the CRS used by the geometry. <p>Additionally, the class has an attribute <code>gml:orientation</code> and a reference to <code>gml:baseSurface</code>. A <code>Substitution Group</code> is defined for <code>AbstractSurface</code>, indicating that <code>AbstractSurface</code> is the abstract head of the substitution group for all (continuous) surface elements.</p>
Type	<code>gml:OrientableSurfaceType</code>
Properties	content: complex

Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractSurface 				
Attributes	QName	Type	Default	Use	
	axisLabels	gml:NCNameList		optional	
	gml:id	ID		required	
	<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>				
	orientation	gml:SignType	+	optional	
	srsDimension	positiveInteger		optional	
	srsName	anyURI		optional	
	uomLabels	gml:NCNameList		optional	

Element gml:exterior

Namespace	http://www.opengis.net/gml/3.2
Annotations	A boundary of a surface consists of a number of rings. In the normal 2D case, one of these rings is distinguished as being the exterior boundary. In a general manifold this is not always possible, in which case all boundaries shall be listed as interior boundaries, and the exterior will be empty.
Diagram	<p>A boundary of a surface consists of a number of rings. In the normal 2D case, one of these rings is distinguished as being the exterior boundary. In a general manifold this is not always possible, in which case all boundaries shall be listed as interior boundaries, and the exterior will be empty.</p>
Type	gml:AbstractRingPropertyType
Properties	content: complex

Element gml:AbstractRing

Namespace	http://www.opengis.net/gml/3.2
Annotations	An abstraction of a ring to support surface boundaries of different complexity. The AbstractRing element is the abstract head of the substitution group for all closed boundaries of a surface patch.
Diagram	<p>An abstraction of a ring to support surface boundaries of different complexity. The AbstractRing element is the abstract head of the substitution group for all closed boundaries of a surface patch.</p> <p>Substitutions</p> <p>LinearRing</p> <p>A LinearRing is defined by four or more coordinate tuples, with linear interpolation between them; the first and last...</p> <p>Ring</p> <p>A ring is used to represent a single connected component of a surface boundary as specified in ISO 19107:2003, 6.3.6....</p> <p>Substitution Group</p> <p>AbstractObject</p> <p>This element has no type defined, and is therefore implicitly (according to the rules of W3C XML Schema) an XML Schema...</p>
Type	gml:AbstractRingType

Properties	content: complex abstract: true
Substitution Group	• gml:LinearRing • gml:Ring
Substitution Group Affiliation	• gml:AbstractObject

Element gml:interior

Namespace	http://www.opengis.net/gml/3.2
Annotations	A boundary of a surface consists of a number of rings. The "interior" rings separate the surface / surface patch from the area enclosed by the rings.
Diagram	
Type	gml:AbstractRingPropertyType
Properties	content: complex

Element gml:PolygonPatch

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:PolygonPatch is a surface patch that is defined by a set of boundary curves and an underlying surface to which these curves adhere. The curves shall be coplanar and the polygon uses planar interpolation in its interior. interpolation is fixed to "planar", i.e. an interpolation shall return points on a single plane. The boundary of the patch shall be contained within that plane.
Diagram	
Type	gml:PolygonPatchType
Properties	content: complex
Substitution Group Affiliation	• gml:AbstractSurfacePatch

Attributes	QName	Type	Fixed	Use	
	interpolation	gml:SurfaceInterpolationType	planar	optional	

Element `gml:Triangle`

Namespace	http://www.opengis.net/gml/3.2														
Annotations	gml:Triangle represents a triangle as a surface patch with an outer boundary consisting of a linear ring. Note that this is a polygon (subtype) with no inner boundaries. The number of points in the linear ring shall be four. The ring (element exterior) shall be a gml:LinearRing and shall form a triangle, the first and the last position shall be coincident. interpolation is fixed to "planar", i.e. an interpolation shall return points on a single plane. The boundary of the patch shall be contained within that plane.														
Diagram	<p>gml:Triangle represents a triangle as a surface patch with an outer boundary consisting of a linear ring. Note that...</p> <p>A boundary of a surface consists of a number of rings. In the normal 2D case, one of these rings is distinguished as...</p> <p>Substitution Group</p> <p>AbstractSurfacePatch</p>														
Type	gml:TriangleType														
Properties	content: complex														
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractSurfacePatch 														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:SurfaceInterpolationType</td> <td>planar</td> <td>optional</td> <td></td> </tr> </tbody> </table>					QName	Type	Fixed	Use		interpolation	gml:SurfaceInterpolationType	planar	optional	
QName	Type	Fixed	Use												
interpolation	gml:SurfaceInterpolationType	planar	optional												

Element `gml:Rectangle`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:Rectangle represents a rectangle as a surface patch with an outer boundary consisting of a linear ring. Note that this is a polygon (subtype) with no inner boundaries. The number of points in the linear ring shall be five. The ring (element exterior) shall be a gml:LinearRing and shall form a rectangle; the first and the last position shall be coincident. interpolation is fixed to "planar", i.e. an interpolation shall return points on a single plane. The boundary of the patch shall be contained within that plane.				
Diagram	<p>gml:Rectangle represents a rectangle as a surface patch with an outer boundary consisting of a linear ring. Note that...</p> <p>A boundary of a surface consists of a number of rings. In the normal 2D case, one of these rings is distinguished as...</p> <p>Substitution Group</p> <p>AbstractSurfacePatch</p>				
Type	gml:RectangleType				

Type	gml:RectangleType			
Properties	content: complex			
Substitution Group	Affiliation			
Attributes	QName	Type	Fixed	Use
	interpolation	gml:SurfaceInterpolationType	planar	optional

Element gml:Ring

Namespace	http://www.opengis.net/gml/3.2			
Annotations	A ring is used to represent a single connected component of a surface boundary as specified in ISO 19107:2003, 6.3.6. Every gml:curveMember references or contains one curve, i.e. any element which is substitutable for gml:AbstractCurve. In the context of a ring, the curves describe the boundary of the surface. The sequence of curves shall be contiguous and connected in a cycle. If provided, the aggregationType attribute shall have the value "sequence".			
Diagram	<p>A ring is used to represent a single connected component of a surface boundary as specified in ISO 19107:2003, 6.3.6....</p>			
Type	gml:RingType			
Properties	content: complex			
Substitution Group	Affiliation			
Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	

Element gml:PointGrid / gml:rows

Namespace	http://www.opengis.net/gml/3.2			
Diagram				
Properties	content: complex			

Element gml:PointGrid / gml:rows / gml:Row

Namespace	http://www.opengis.net/gml/3.2			
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Diagram					
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	complex	maxOccurs:	unbounded
content:	complex				
maxOccurs:	unbounded				

Element **gml:AbstractParametricCurveSurface**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<p>The element provides a substitution group head for the surface patches based on parametric curves. All properties are specified in the derived subtypes. All derived subtypes shall conform to the constraints specified in ISO 19107:2003, 6.4.40. If provided, the aggregationType attribute shall have the value "set".</p>				
Diagram					
Type	gml:AbstractParametricCurveSurfaceType				
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>abstract:</td><td>true</td></tr> </table>	content:	complex	abstract:	true
content:	complex				
abstract:	true				
Substitution Group	<ul style="list-style-type: none"> gml:AbstractGriddedSurface gml:Cone gml:Cylinder gml:Sphere 				
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractSurfacePatch 				

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional

Element `gml:AbstractGriddedSurface`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	if provided, rows gives the number of rows, columns the number of columns in the parameter grid. The parameter grid is represented by an instance of the <code>gml:PointGrid</code> group. The element provides a substitution group head for the surface patches based on a grid. All derived subtypes shall conform to the constraints specified in ISO 19107:2003, 6.4.41.		
Diagram	<p>if provided, rows gives the number of rows, columns the number of columns in the parameter grid. The parameter grid is...</p> <p>A GML Object Collection is any GML Object with a property element in its content model whose content model is derived...</p> <p>A gml:PointGrid group contains or references points or positions which are organised into sequences or grids. All rows...</p> <p>The element provides a substitution group head for the surface patches based on parametric curves. All properties are...</p>		
Type	<code>gml:AbstractGriddedSurfaceType</code>		
Properties	<p>content: complex</p> <p>abstract: true</p>		
Substitution Group	<ul style="list-style-type: none"> gml:Cone gml:Cylinder gml:Sphere 		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractParametricCurveSurface 		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	columns	integer	optional

QName	Type	Use	
rows	integer	optional	

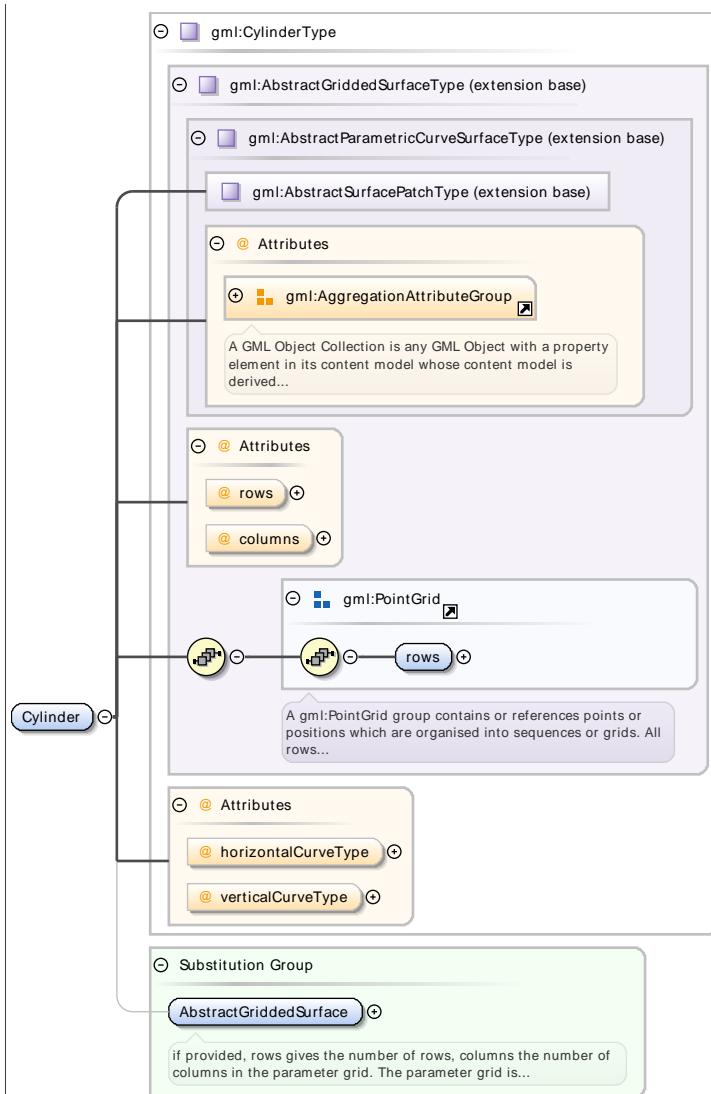
Element `gml:Cone`

Namespace	http://www.opengis.net/gml/3.2																								
Diagram	<p>The diagram illustrates the inheritance structure of the <code>gml:Cone</code> element. It starts with <code>gml:ConeType</code>, which inherits from <code>gml:AbstractGriddedSurfaceType</code> (extension base). This base type further inherits from <code>gml:AbstractParametricCurveSurfaceType</code> (extension base). The <code>gml:AbstractGriddedSurfaceType</code> base class contains an <code>Attributes</code> block with an <code>gml:AggregationAttributeGroup</code> (highlighted in orange). A note states: "A GML Object Collection is any GML Object with a property element in its content model whose content model is derived...". Below this, another <code>Attributes</code> block contains attributes <code>@rows</code> and <code>@columns</code>. A <code>gml:PointGrid</code> block is shown, with a note: "A gml:PointGrid group contains or references points or positions which are organised into sequences or grids. All rows...". The <code>gml:Cone</code> element is shown as a reference to the <code>gml:ConeType</code> class. The <code>gml:AbstractGriddedSurfaceType</code> base class also contains attributes <code>@horizontalCurveType</code> and <code>@verticalCurveType</code>. A <code>Substitution Group</code> block contains the type <code>AbstractGriddedSurface</code>. A note states: "if provided, rows gives the number of rows, columns the number of columns in the parameter grid. The parameter grid is...".</p>																								
Type	<code>gml:ConeType</code>																								
Properties	content: complex																								
Substitution Group Affiliation	• <code>gml:AbstractGriddedSurface</code>																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>columns</code></td> <td>integer</td> <td></td> <td>optional</td> </tr> <tr> <td><code>horizontalCurveType</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>circularArc3Points</code></td> <td>optional</td> </tr> <tr> <td><code>rows</code></td> <td>integer</td> <td></td> <td>optional</td> </tr> <tr> <td><code>verticalCurveType</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>linear</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>		optional	<code>columns</code>	integer		optional	<code>horizontalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional	<code>rows</code>	integer		optional	<code>verticalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>linear</code>	optional
QName	Type	Fixed	Use																						
<code>aggregationType</code>	<code>gml:AggregationType</code>		optional																						
<code>columns</code>	integer		optional																						
<code>horizontalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional																						
<code>rows</code>	integer		optional																						
<code>verticalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>linear</code>	optional																						

Element `gml:Cylinder`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

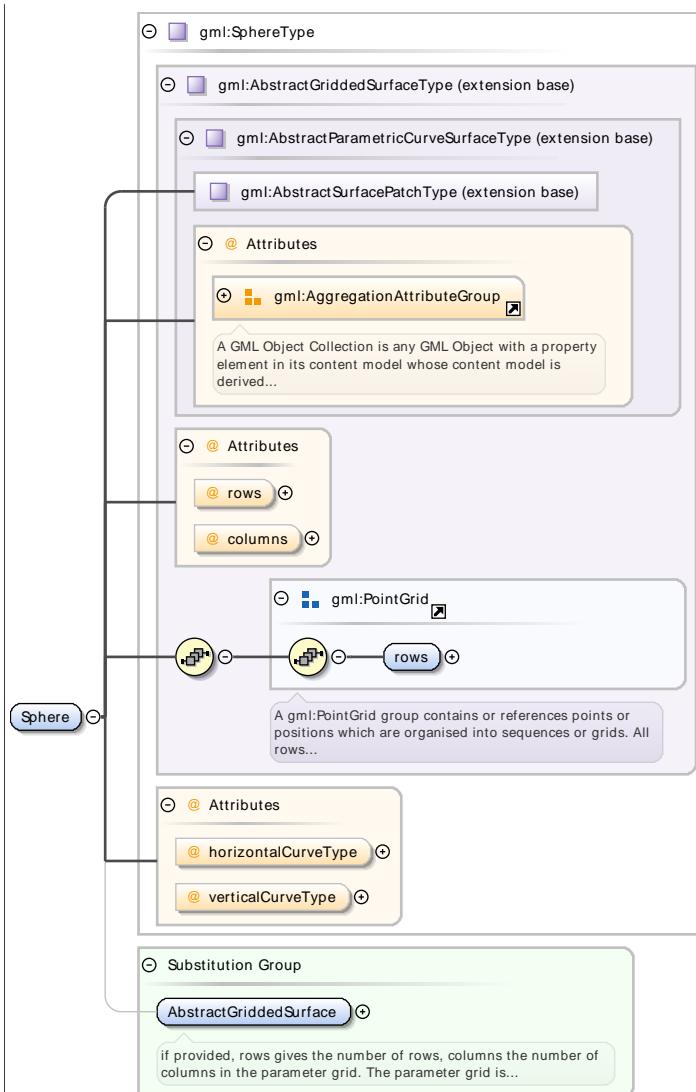


Type	<code>gml:CylinderType</code>																								
Properties	content: complex																								
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractGriddedSurface</code> 																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>columns</code></td> <td>integer</td> <td></td> <td>optional</td> </tr> <tr> <td><code>horizontalCurveType</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>circularArc3Points</code></td> <td>optional</td> </tr> <tr> <td><code>rows</code></td> <td>integer</td> <td></td> <td>optional</td> </tr> <tr> <td><code>verticalCurveType</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>linear</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>		optional	<code>columns</code>	integer		optional	<code>horizontalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional	<code>rows</code>	integer		optional	<code>verticalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>linear</code>	optional
QName	Type	Fixed	Use																						
<code>aggregationType</code>	<code>gml:AggregationType</code>		optional																						
<code>columns</code>	integer		optional																						
<code>horizontalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional																						
<code>rows</code>	integer		optional																						
<code>verticalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>linear</code>	optional																						

Element `gml:Sphere`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

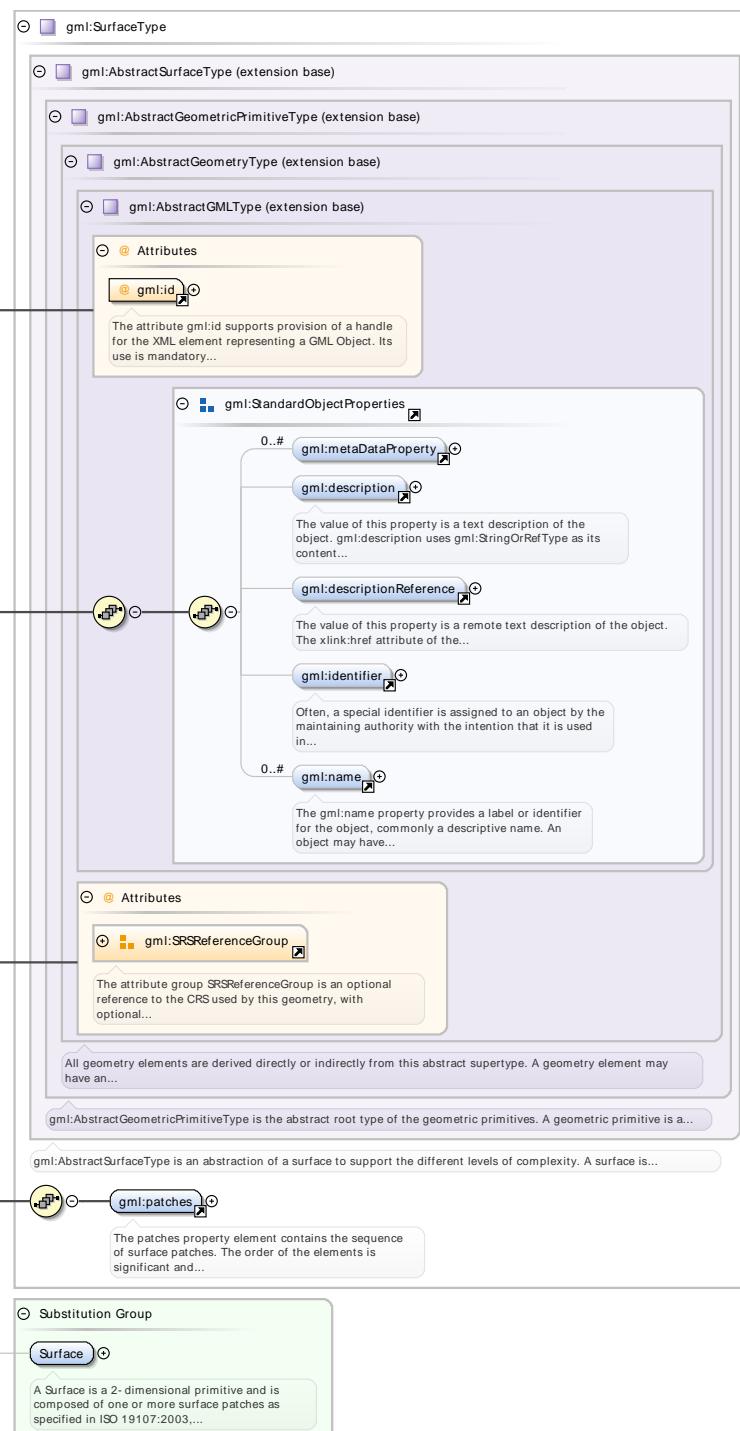


Type	<code>gml:SphereType</code>																								
Properties	content: complex																								
Substitution Group Affiliation	• <code>gml:AbstractGriddedSurface</code>																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>columns</code></td> <td>integer</td> <td></td> <td>optional</td> </tr> <tr> <td><code>horizontalCurveType</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>circularArc3Points</code></td> <td>optional</td> </tr> <tr> <td><code>rows</code></td> <td>integer</td> <td></td> <td>optional</td> </tr> <tr> <td><code>verticalCurveType</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>circularArc3Points</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>		optional	<code>columns</code>	integer		optional	<code>horizontalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional	<code>rows</code>	integer		optional	<code>verticalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional
QName	Type	Fixed	Use																						
<code>aggregationType</code>	<code>gml:AggregationType</code>		optional																						
<code>columns</code>	integer		optional																						
<code>horizontalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional																						
<code>rows</code>	integer		optional																						
<code>verticalCurveType</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>	optional																						

Element `gml:PolyhedralSurface`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A polyhedral surface is a surface composed of polygon patches connected along their common boundary curves. This differs from the surface type only in the restriction on the types of surface patches acceptable. <code>polygonPatches</code> encapsulates the polygon patches of the polyhedral surface.

Diagram



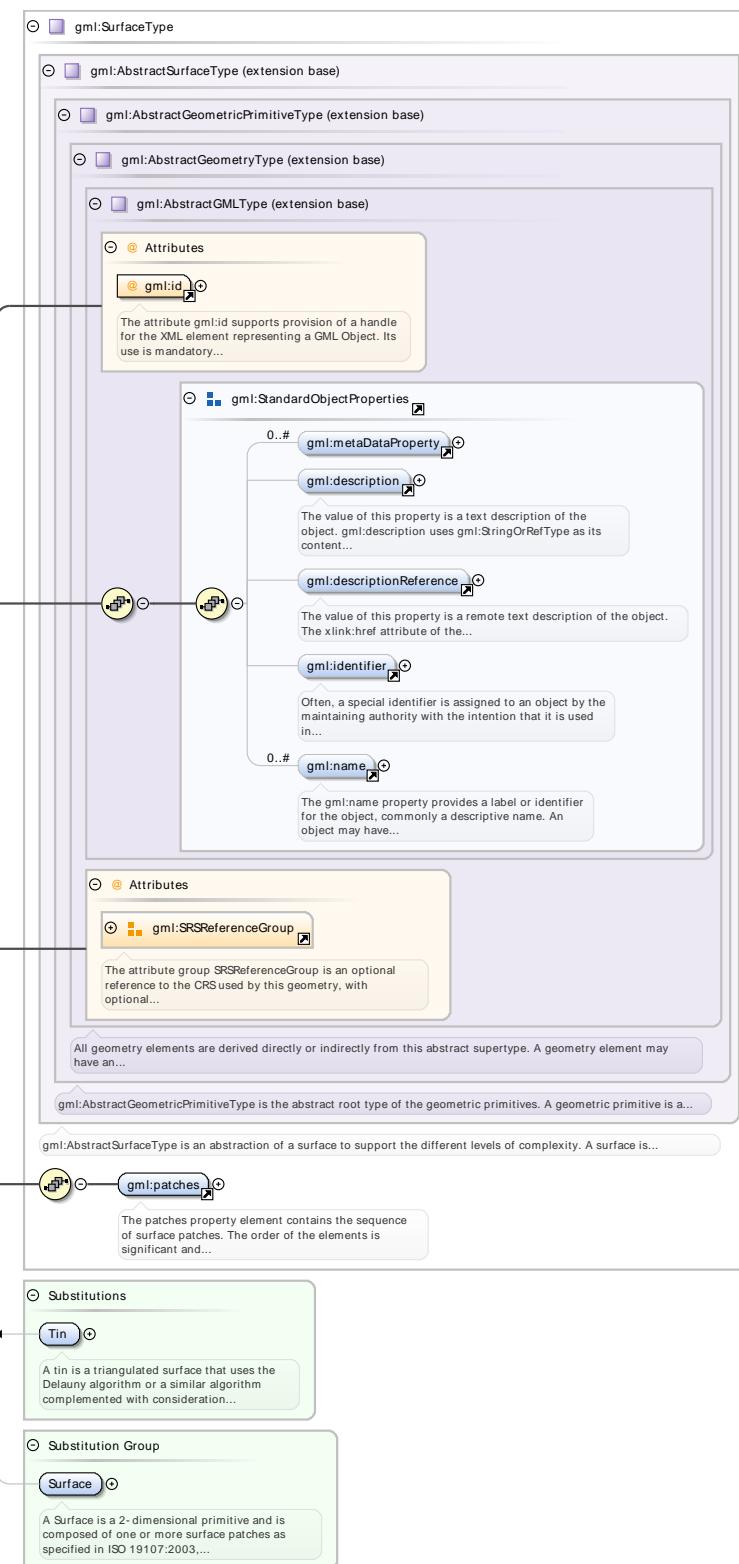
Type	gml:SurfaceType		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:Surface 		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

QName	Type	Use	
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
uomLabels	gml:NCNameList	optional	

Element `gml:TriangulatedSurface`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A triangulated surface is a polyhedral surface that is composed only of triangles. There is no restriction on how the triangulation is derived. trianglePatches encapsulates the triangles of the triangulated surface.

Diagram



Type	<code>gml:SurfaceType</code>
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> • <code>gml:Tin</code>
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:Surface</code>

Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element **gml:tinType / gml:stopLines**

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:LineStringSegmentArrayPropertyType						
Properties	<table> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded
content:	complex						
minOccurs:	0						
maxOccurs:	unbounded						

Element **gml:tinType / gml:breakLines**

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:LineStringSegmentArrayPropertyType						
Properties	<table> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded
content:	complex						
minOccurs:	0						
maxOccurs:	unbounded						

Element **gml:tinType / gml:maxLength**

Namespace	http://www.opengis.net/gml/3.2
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Diagram							
Type	gml:LengthType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

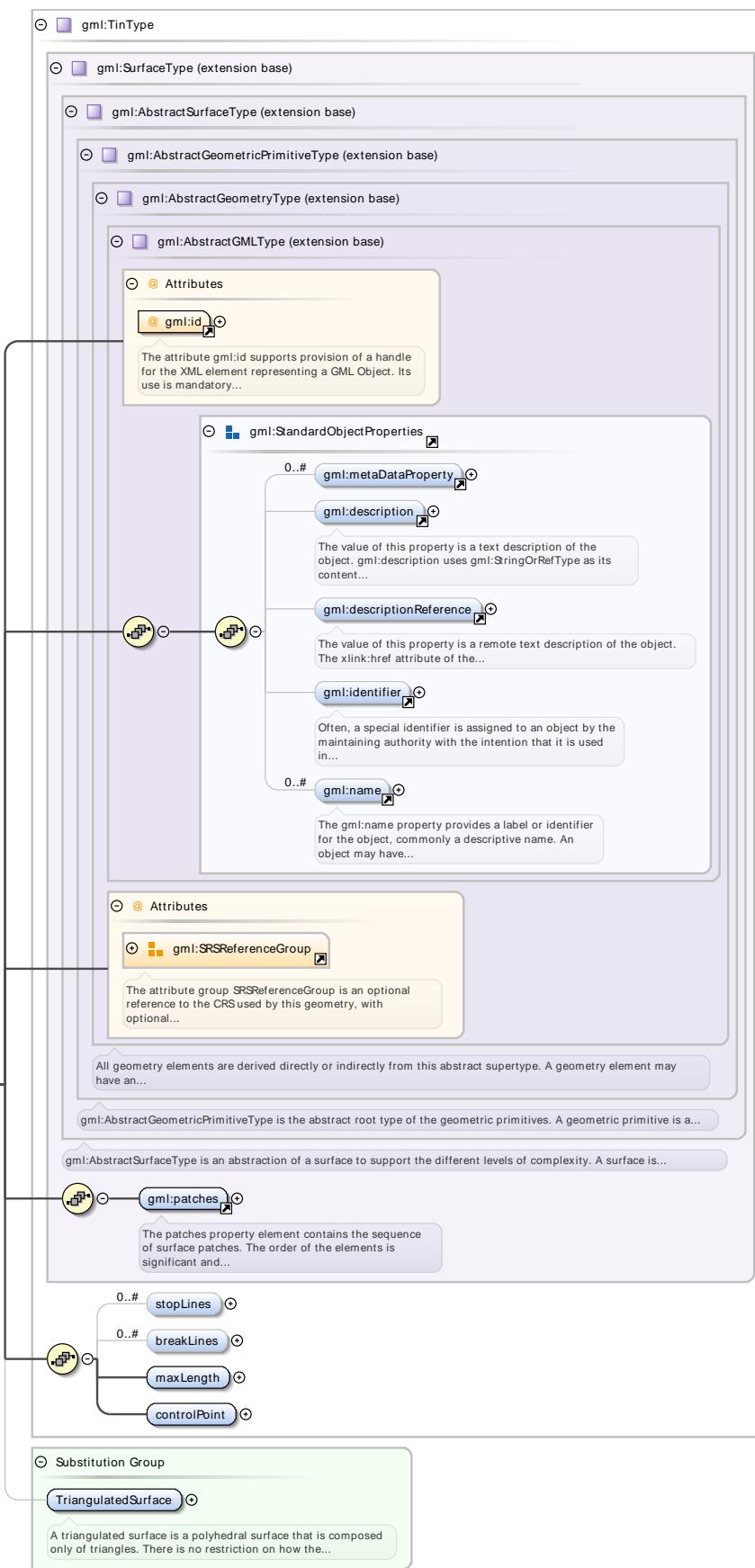
Element gml:TinType / gml:controlPoint

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Properties	content: complex

Element gml:Tin

Namespace	http://www.opengis.net/gml/3.2
Annotations	A tin is a triangulated surface that uses the Delaunay algorithm or a similar algorithm complemented with consideration of stoplines (stopLines), breaklines (breakLines), and maximum length of triangle sides (maxLength). controlPoint shall contain a set of the positions (three or more) used as posts for this TIN (corners of the triangles in the TIN). See ISO 19107:2003, 6.4.39 for details.

Diagram



Type	<code>gml:TinType</code>
Properties	content: complex

Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:TriangulatedSurface 			
Attributes	QName	Type	Use	
	axisLabels	gml:NCNameList	optional	
	gml:id	ID	required	
	<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>			
	srsDimension	positiveInteger	optional	
	srsName	anyURI	optional	
	uomLabels	gml:NCNameList	optional	

Element gml:solidProperty

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<p>This property element either references a solid via the XLink-attributes or contains the solid element. solidProperty is the predefined property which may be used by GML Application Schemas whenever a GML feature has a property with a value that is substitutable for AbstractSolid.</p>				
Diagram					
Type	gml:SolidPropertyType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element gml:SolidType / gml:exterior

Namespace	http://www.opengis.net/gml/3.2				
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Diagram	<p>gml:ShellPropertyType</p> <p>exterior → gml:Shell</p> <p>A shell is used to represent a single connected component of a solid boundary as specified in ISO 19107:2003, 6.3.8....</p> <p>A property with the content model of gml:ShellPropertyType encapsulates a shell to represent a component of a solid...</p>				
Type	gml:ShellPropertyType				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element gml:Shell

Namespace	http://www.opengis.net/gml/3.2						
Annotations	<p>A shell is used to represent a single connected component of a solid boundary as specified in ISO 19107:2003, 6.3.8. Every gml:surfaceMember references or contains one surface, i.e. any element which is substitutable for gml:AbstractSurface. In the context of a shell, the surfaces describe the boundary of the solid. If provided, the aggregationType attribute shall have the value "set".</p>						
Diagram	<p>gml:ShellType</p> <p>Attributes</p> <p>gml:AggregationAttributeGroup</p> <p>A GML Object Collection is any GML Object with a property element in its content model whose content model is derived...</p> <p>Shell → 1..# gml:surfaceMember</p> <p>This property element either references a surface via the XLink- attributes or contains the surface element. A surface...</p> <p>Substitution Group</p> <p>AbstractObject</p> <p>This element has no type defined, and is therefore implicitly (according to the rules of W3C XML Schema) an XML Schema...</p>						
Type	gml:ShellType						
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> </table>	content:	complex				
content:	complex						
Substitution Group	• gml:AbstractObject						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>aggregationType</td> <td>gml:AggregationType</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	aggregationType	gml:AggregationType	optional
QName	Type	Use					
aggregationType	gml:AggregationType	optional					

Element gml:SolidType / gml:interior

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>gml:ShellPropertyType</p> <p>interior → gml:Shell</p> <p>A shell is used to represent a single connected component of a solid boundary as specified in ISO 19107:2003, 6.3.8....</p> <p>A property with the content model of gml:ShellPropertyType encapsulates a shell to represent a component of a solid...</p>
Type	gml:ShellPropertyType

Properties	<p>content: complex</p> <p>minOccurs: 0</p> <p>maxOccurs: unbounded</p>
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Element `gml:Solid`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A solid is the basis for 3-dimensional geometry. The extent of a solid is defined by the boundary surfaces as specified in ISO 19107:2003, 6.3.18. exterior specifies the outer boundary, interior the inner boundary of the solid.</p>
Diagram	<pre> classDiagram class gml:SolidType class gml:AbstractSolidType class gml:AbstractGeometricPrimitiveType class gml:AbstractGeometryType class gml:AbstractGMLType gml:SolidType < -- gml:AbstractSolidType gml:AbstractSolidType < -- gml:AbstractGeometricPrimitiveType gml:AbstractGeometricPrimitiveType < -- gml:AbstractGeometryType gml:AbstractGeometryType < -- gml:AbstractGMLType gml:SolidType "0..1" --> "0..1" gml:SolidType : Solid gml:SolidType "0..1" --> "0..1" gml:AbstractSolidType : exterior gml:SolidType "0..1" --> "0..1" gml:AbstractSolidType : interior </pre> <p>gml:SolidType</p> <ul style="list-style-type: none"> Attributes <ul style="list-style-type: none"> gml:id: The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory... StandardObjectProperties <ul style="list-style-type: none"> gml:metaDataProperty: 0..# gml:description: The value of this property is a text description of the object. <code>gml:description</code> uses <code>gml:StringOrRefType</code> as its content... gml:descriptionReference: A reference to a remote text description of the object. The <code>xlink:href</code> attribute of the... gml:identifier: Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in... gml:name: 0..# The <code>gml:name</code> property provides a label or identifier for the object, commonly a descriptive name. An object may have... Attributes <ul style="list-style-type: none"> gml:SRSReferenceGroup: The attribute group <code>SRSReferenceGroup</code> is an optional reference to the CRS used by this geometry, with optional... <p>gml:AbstractSolidType</p> <ul style="list-style-type: none"> exterior: 0..# interior: 0..# <p>Substitution Group</p> <ul style="list-style-type: none"> AbstractSolid: The <code>AbstractSolid</code> element is the abstract head of the substitution group for all (continuous) solid elements.

Type	gml:SolidType			
Properties	content: complex			
Substitution Group Affiliation	• gml:AbstractSolid			
Attributes	QName	Type	Use	
	axisLabels	gml:NCNameList	optional	
	gml:id	ID	required	
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional	
	srsName	anyURI	optional	
	uomLabels	gml:NCNameList	optional	

Element gml:surfaceProperty

Namespace	http://www.opengis.net/gml/3.2			
Annotations	This property element either references a surface via the XLink-attributes or contains the surface element. surfaceProperty is the predefined property which may be used by GML Application Schemas whenever a GML feature has a property with a value that is substitutable for AbstractSurface.			
Diagram				
Type	gml:SurfacePropertyType			
Properties	content: complex			
Attributes	QName	Type	Fixed	Default
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	owns	boolean	false	optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:Polygon

Namespace	http://www.opengis.net/gml/3.2			
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Annotations	A Polygon is a special surface that is defined by a single surface patch (see D.3.6). The boundary of this patch is coplanar and the polygon uses planar interpolation in its interior. The elements exterior and interior describe the surface boundary of the polygon.
Diagram	<p>The diagram illustrates the schema structure of <code>gml:PolygonType</code>. It is an abstract type that extends <code>gml:AbstractSurfaceType</code>, <code>gml:AbstractGeometricPrimitiveType</code>, and <code>gml:AbstractGeometryType</code>. The <code>gml:id</code> attribute is marked as mandatory. The <code>gml:metaDataProperty</code> group contains <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, and <code>gml:name</code>. The <code>gml:SRSReferenceGroup</code> attribute group is optional. The <code>gml:exterior</code> and <code>gml:interior</code> components define the boundary of the polygon. A <code>Substitution Group</code> for <code>AbstractSurface</code> is also shown.</p>
Type	<code>gml:PolygonType</code>
Properties	content: complex

Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractSurface</code> 		
Attributes	QName	Type	Use
	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional
	<code>gml:id</code>	<code>ID</code>	required
	<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code>, so is constrained to be unique in the XML document within which it occurs.</p>		
	<code>srsDimension</code>	<code>positiveInteger</code>	optional
	<code>srsName</code>	<code>anyURI</code>	optional
		<code>uomLabels</code>	<code>gml:NCNameList</code>
		optional	

Element `gml:LinearRing`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A LinearRing is defined by four or more coordinate tuples, with linear interpolation between them; the first and last coordinates shall be coincident. The number of direct positions in the list shall be at least four.
Diagram	
Type	<code>gml:LinearRingType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractRing</code>

Element `gml:vector`

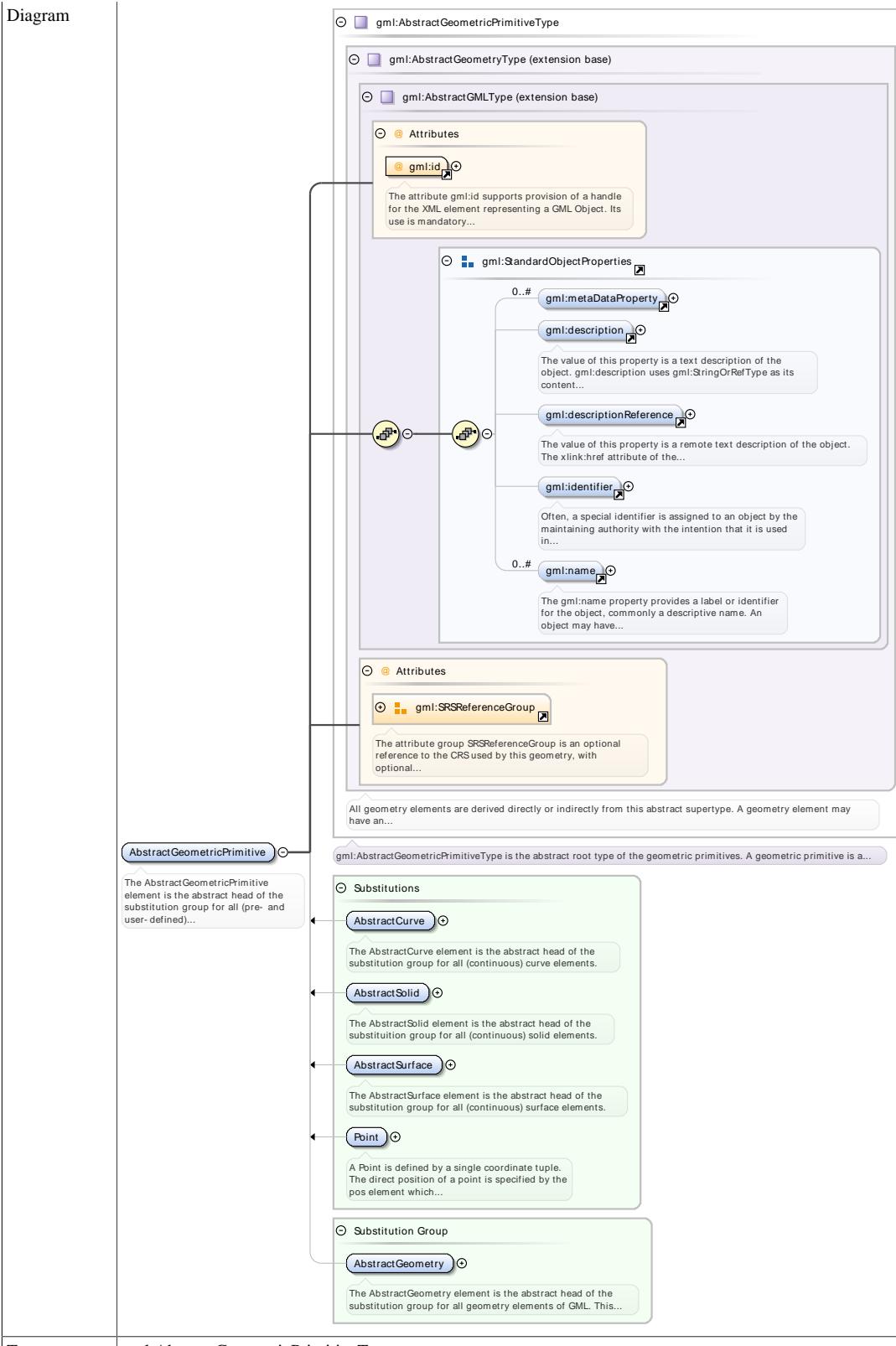
Namespace	http://www.opengis.net/gml/3.2
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Diagram																
Type	gml:VectorType															
Properties	content: complex															
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">QName</th><th style="text-align: left; padding: 2px;">Type</th><th style="text-align: left; padding: 2px;">Use</th></tr> </thead> <tbody> <tr> <td style="padding: 2px;">axisLabels</td><td style="padding: 2px;">gml:NCNameList</td><td style="padding: 2px;">optional</td></tr> <tr> <td style="padding: 2px;">srsDimension</td><td style="padding: 2px;">positiveInteger</td><td style="padding: 2px;">optional</td></tr> <tr> <td style="padding: 2px;">srsName</td><td style="padding: 2px;">anyURI</td><td style="padding: 2px;">optional</td></tr> <tr> <td style="padding: 2px;">uomLabels</td><td style="padding: 2px;">gml:NCNameList</td><td style="padding: 2px;">optional</td></tr> </tbody> </table>	QName	Type	Use	axisLabels	gml:NCNameList	optional	srsDimension	positiveInteger	optional	srsName	anyURI	optional	uomLabels	gml:NCNameList	optional
QName	Type	Use														
axisLabels	gml:NCNameList	optional														
srsDimension	positiveInteger	optional														
srsName	anyURI	optional														
uomLabels	gml:NCNameList	optional														

Element **gml:AbstractGeometricPrimitive**

Namespace	http://www.opengis.net/gml/3.2
Annotations	The AbstractGeometricPrimitive element is the abstract head of the substitution group for all (pre- and user-defined) geometric primitives.

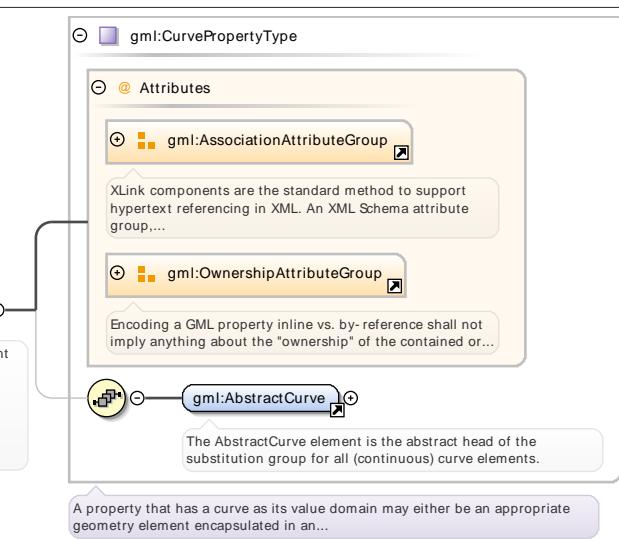
Diagram



Type	<code>gml:AbstractGeometricPrimitiveType</code>
Properties	<p>content: complex</p> <p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> • <code>gml:Point</code> • <code>gml:AbstractCurve</code> • <code>gml:LineString</code>

	<ul style="list-style-type: none"> • <code>gml:CompositeCurve</code> • <code>gml:Curve</code> • <code>gml:OrientableCurve</code> • <code>gml:AbstractSolid</code> • <code>gml:Solid</code> • <code>gml:CompositeSolid</code> • <code>gml:AbstractSurface</code> • <code>gml:Polygon</code> • <code>gml:CompositeSurface</code> • <code>gml:Surface</code> • <code>gml:PolyhedralSurface</code> • <code>gml:TriangulatedSurface</code> • <code>gml:Tin</code> • <code>gml:OrientableSurface</code> 																												
Substitution Group Affiliation	• <code>gml:AbstractGeometry</code>																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> <td></td> </tr> <tr> <td><code>gml:id</code></td> <td><code>ID</code></td> <td>required</td> <td></td> </tr> <tr> <td></td> <td colspan="3">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code>, so is constrained to be unique in the XML document within which it occurs.</td></tr> <tr> <td><code>srsDimension</code></td> <td><code>positiveInteger</code></td> <td>optional</td> <td></td> </tr> <tr> <td><code>srsName</code></td> <td><code>anyURI</code></td> <td>optional</td> <td></td> </tr> <tr> <td><code>uomLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		<code>axisLabels</code>	<code>gml:NCNameList</code>	optional		<code>gml:id</code>	<code>ID</code>	required			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code> , so is constrained to be unique in the XML document within which it occurs.			<code>srsDimension</code>	<code>positiveInteger</code>	optional		<code>srsName</code>	<code>anyURI</code>	optional		<code>uomLabels</code>	<code>gml:NCNameList</code>	optional	
QName	Type	Use																											
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional																											
<code>gml:id</code>	<code>ID</code>	required																											
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code> , so is constrained to be unique in the XML document within which it occurs.																												
<code>srsDimension</code>	<code>positiveInteger</code>	optional																											
<code>srsName</code>	<code>anyURI</code>	optional																											
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional																											

Element `gml:curveProperty`

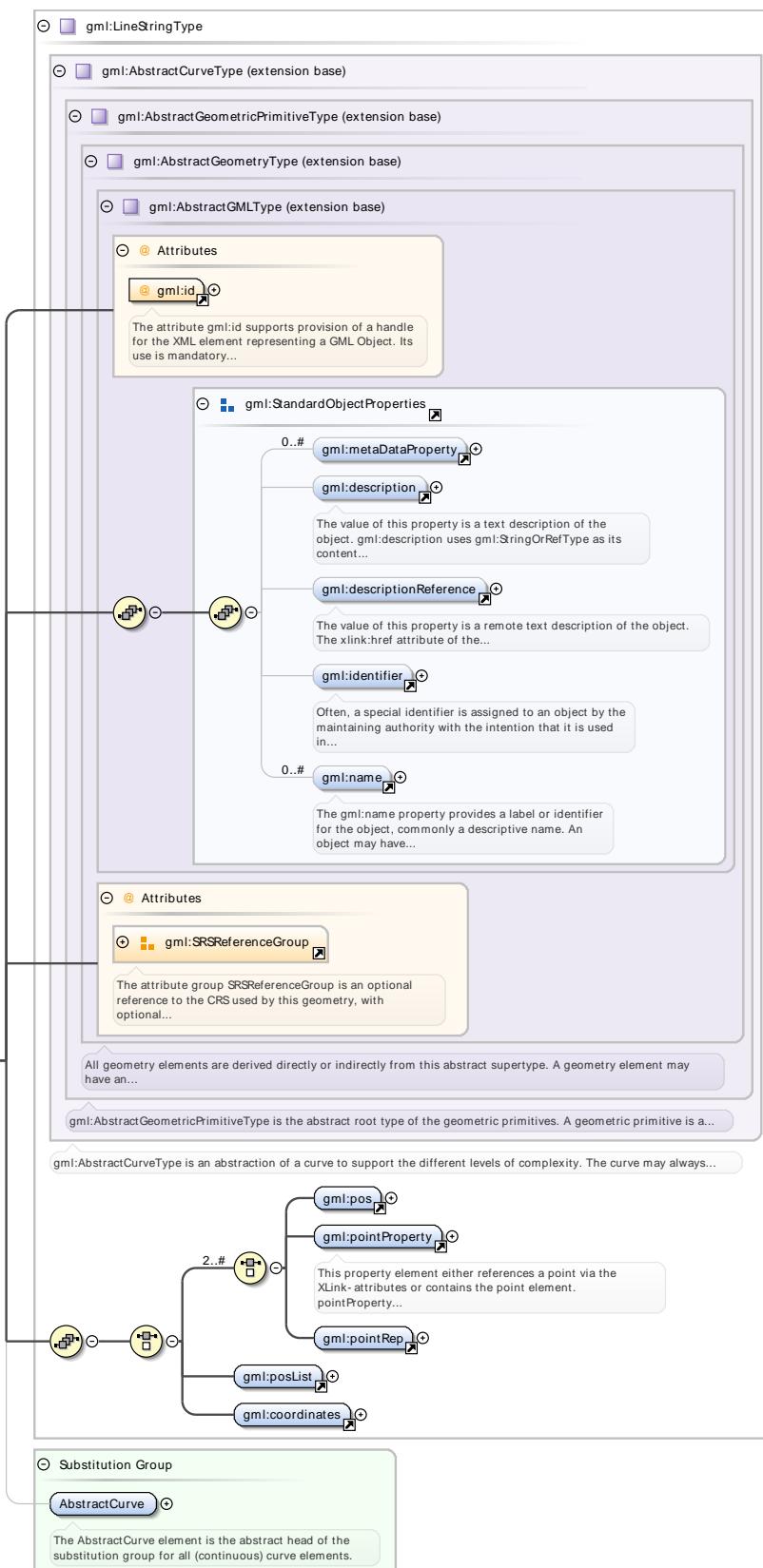
Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>This property element either references a curve via the XLink-attributes or contains the curve element. <code>curveProperty</code> is the predefined property which may be used by GML Application Schemas whenever a GML feature has a property with a value that is substitutable for <code>AbstractCurve</code>.</p>
Diagram	
Type	<code>gml:CurvePropertyType</code>

Properties	content: complex					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:LineString**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A LineString is a special curve that consists of a single segment with linear interpolation. It is defined by two or more coordinate tuples, with linear interpolation between them. The number of direct positions in the list shall be at least two.

Diagram



Type	gmL:LineStringType
Properties	content: complex
Substitution Group Affiliation	• gmL:AbstractCurve

Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element **gml:measure**

Namespace	http://www.opengis.net/gml/3.2						
Annotations	The value of a physical quantity, together with its unit.						
Diagram	<p>gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...</p>						
Type	gml:MeasureType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element **gml:angle**

Namespace	http://www.opengis.net/gml/3.2						
Annotations	The gml:angle property element is used to record the value of an angle quantity as a single number, with its units.						
Diagram	<p>gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...</p>						
Type	gml:AngleType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

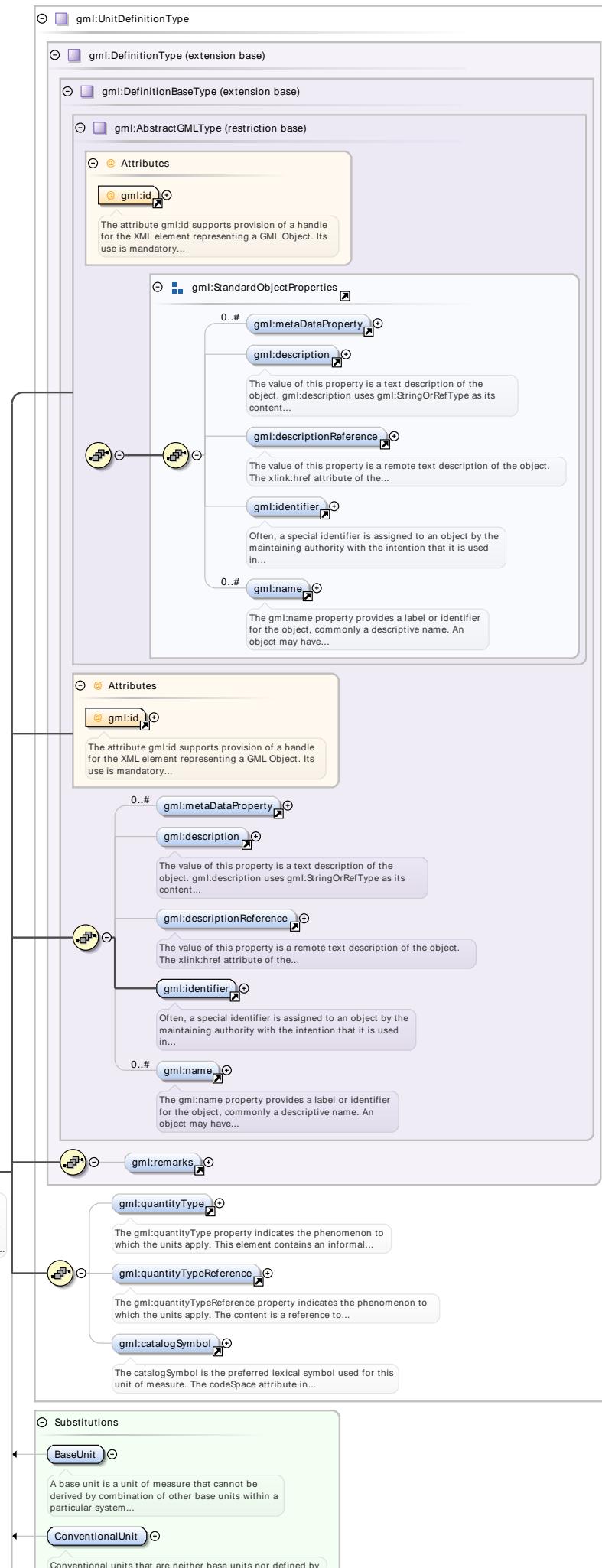
Element `gml:unitOfMeasure`

Namespace	http://www.opengis.net/gml/3.2							
Annotations	The element <code>gml:unitOfMeasure</code> is a property element to refer to a unit of measure. This is an empty element which carries a reference to a unit of measure definition.							
Diagram	<pre> classDiagram class gml:UnitOfMeasureType { @ uom } note left of gml:UnitOfMeasureType: The element gml:unitOfMeasure is a property element to refer to a unit of measure. This is an empty element which... </pre>							
Type	<code>gml:UnitOfMeasureType</code>							
Properties	content: complex							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>uom</code></td> <td><code>gml:UomIdentifier</code></td> <td>required</td> </tr> </tbody> </table>		QName	Type	Use	<code>uom</code>	<code>gml:UomIdentifier</code>	required
QName	Type	Use						
<code>uom</code>	<code>gml:UomIdentifier</code>	required						

Element `gml:UnitDefinition`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	A <code>gml:UnitDefinition</code> is a general definition of a unit of measure. This generic element is used only for units for which no relationship with other units or units systems is known. The content model of <code>gml:UnitDefinition</code> adds three additional properties to <code>gml:Definition</code> , <code>gml:quantityType</code> , <code>gml:quantityTypeReference</code> and <code>gml:catalogSymbol</code> . The <code>gml:catalogSymbol</code> property optionally gives the short symbol used for this unit. This element is usually used when the relationship of this unit to other units or units systems is unknown.		

Diagram



Type	gml:UnitDefinitionType		
Properties	content: complex		
Substitution Group	<ul style="list-style-type: none"> • gml:BaseUnit • gml:DerivedUnit • gml:ConventionalUnit 		
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:Definition 		
Attributes	QName gml:id	Type ID	Use required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element gml:remarks

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>Built-in primitive type. The string datatype represents character strings in XML.</p>		
Type	string		
Properties	content: simple		

Element gml:quantityType

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<p>The gml:quantityType property indicates the phenomenon to which the units apply. This element contains an informal description of the phenomenon or type of physical quantity that is measured or observed. When the physical quantity is the result of an observation or measurement, this term is known as observable type or measurand. The use of gml:quantityType for references to remote values is deprecated.</p>		
Diagram	<p>The gml:quantityType property indicates the phenomenon to which the units apply. This element contains an informal...</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Attributes</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...</p>		
Type	gml:StringOrRefType		
Properties	content: complex		
Attributes	QName gml:remoteSchema nilReason xlink:actuate xlink:arcrole xlink:href xlink:role xlink:show xlink:title xlink:type	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed Use optional optional optional optional optional optional optional optional optional

Element `gml:quantityTypeReference`

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	The <code>gml:quantityTypeReference</code> property indicates the phenomenon to which the units apply. The content is a reference to a remote value.																																																							
Diagram	<p>The diagram shows the <code>gml:quantityTypeReference</code> element as a reference to the <code>gml:ReferenceType</code> class. The <code>gml:ReferenceType</code> class has attributes for <code>gml:OwnershipAttributeGroup</code> and <code>gml:AssociationAttributeGroup</code>. A note states: "Encoding a GML property inline vs. by-reference shall not imply anything about the 'ownership' of the contained or..." and "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...".</p>																																																							
Type	<code>gml:ReferenceType</code>																																																							
Properties	content: complex																																																							
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Element `gml:catalogSymbol`

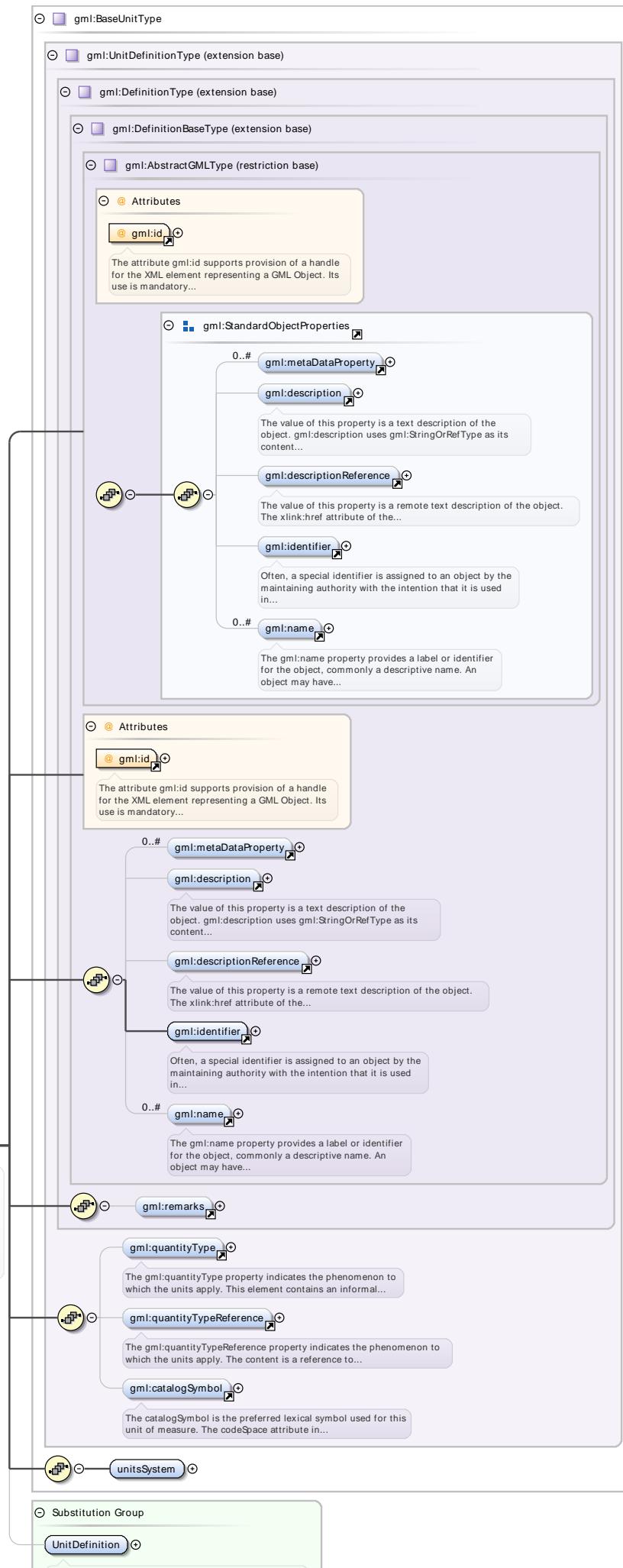
Namespace	http://www.opengis.net/gml/3.2
Annotations	The <code>catalogSymbol</code> is the preferred lexical symbol used for this unit of measure. The <code>codeSpace</code> attribute in <code>gml:CodeType</code> identifies a namespace for the catalog symbol value, and might reference the external catalog. The string value in <code>gml:CodeType</code> contains the value of a symbol that should be unique within this catalog namespace. This symbol often appears explicitly in the catalog, but it could be a combination of symbols using a specified algebra of units.
Diagram	<p>The diagram shows the <code>gml:catalogSymbol</code> element as a reference to the <code>gml:CodeType</code> class. The <code>gml:CodeType</code> class has a string attribute. A note states: "Built-in primitive type. The string datatype represents character strings in XML." and "gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term...".</p>
Type	<code>gml:CodeType</code>
Properties	content: complex

Attributes	QName	Type	Use
	codeSpace	anyURI	optional

Element **gml:BaseUnit**

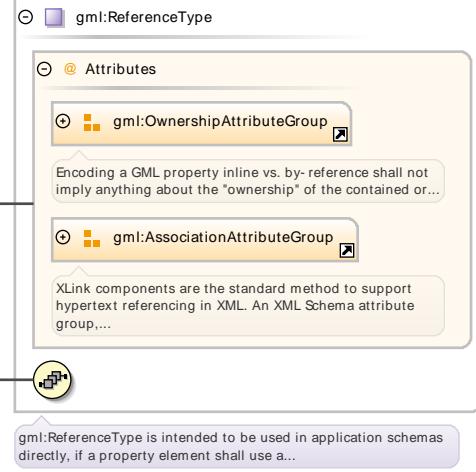
Namespace	http://www.opengis.net/gml/3.2
Annotations	A base unit is a unit of measure that cannot be derived by combination of other base units within a particular system of units. For example, in the SI system of units, the base units are metre, kilogram, second, Ampere, Kelvin, mole, and candela, for the physical quantity types length, mass, time interval, electric current, thermodynamic temperature, amount of substance and luminous intensity, respectively. gml:BaseUnit extends generic gml:UnitDefinition with the property gml:unitsSystem, which carries a reference to the units system to which this base unit is asserted to belong.

Diagram



Type	gml:BaseUnitType		
Properties	content: complex		
Substitution Group Affiliation	• gml:UnitDefinition		
Attributes	QName gml:id	Type ID	Use required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

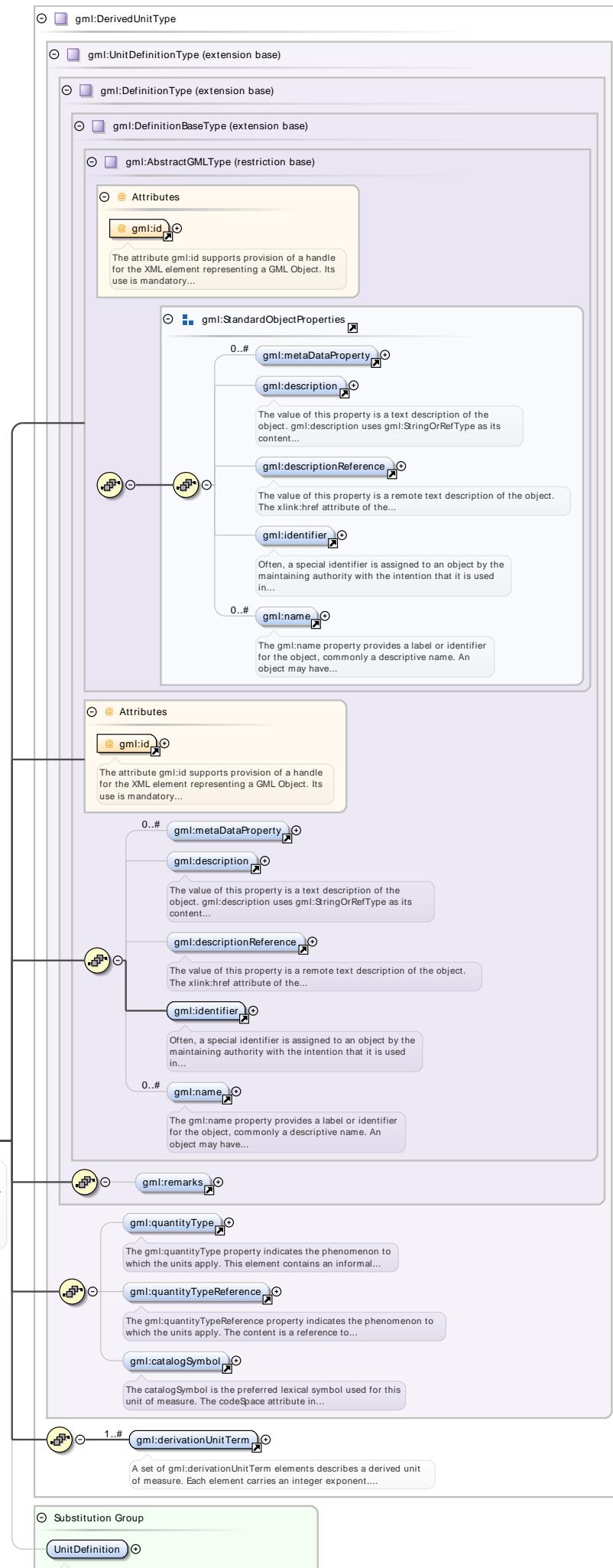
Element gml:BaseUnitType / gml:unitsSystem

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram																																																								
Type	gml:ReferenceType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
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xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element gml:DerivedUnit

Namespace	http://www.opengis.net/gml/3.2
Annotations	Derived units are defined by combination of other units. Derived units are used for quantities other than those corresponding to the base units, such as hertz (s ⁻¹) for frequency, Newton (kg.m/s ²) for force. Derived units based directly on base units are usually preferred for quantities other than the fundamental quantities within a system. If a derived unit is not the preferred unit, the gml:ConventionalUnit element should be used instead. The gml:DerivedUnit extends gml:UnitDefinition with the property gml:derivationUnitTerms.

Diagram



Type	gml:DerivedUnitType		
Properties	content: complex		
Substitution Group Affiliation	• gml:UnitDefinition		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

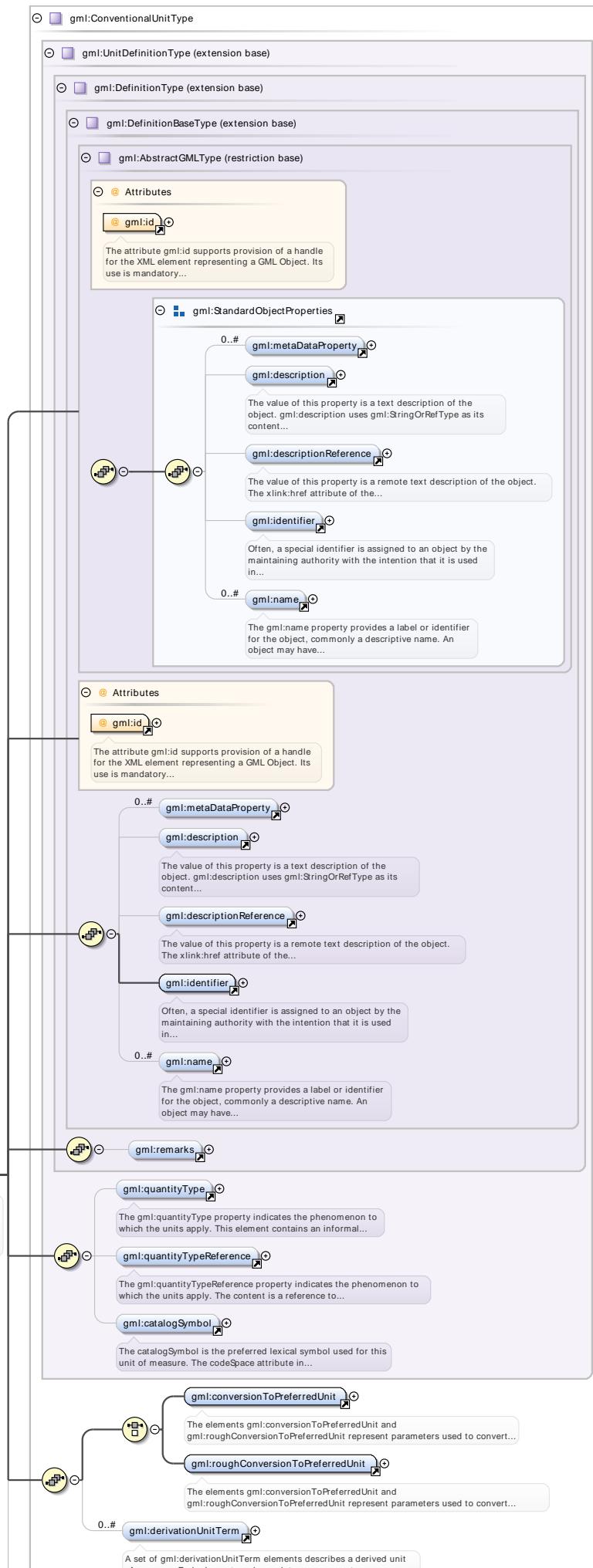
Element gml:derivationUnitTerm

Namespace	http://www.opengis.net/gml/3.2		
Annotations	A set of gml:derivationUnitTerm elements describes a derived unit of measure. Each element carries an integer exponent. The terms are combined by raising each referenced unit to the power of its exponent and forming the product. This unit term references another unit of measure (uom) and provides an integer exponent applied to that unit in defining the compound unit. The exponent may be positive or negative, but not zero.		
Diagram	<pre> classDiagram class gml:DerivationUnitTermType { <<gml:UnitOfMeasureType (extension base)>> <<Attributes>> @uom <<Attributes>> @exponent } gml:derivationUnitTerm < -- gml:DerivationUnitTermType </pre> <p>A set of gml:derivationUnitTerm elements describes a derived unit of measure. Each element carries an integer exponent....</p>		
Type	gml:DerivationUnitTermType		
Properties	content: complex		
Attributes	QName	Type	Use
	exponent	integer	optional
	uom	gml:UomIdentifier	required

Element gml:ConventionalUnit

Namespace	http://www.opengis.net/gml/3.2		
Annotations	Conventional units that are neither base units nor defined by direct combination of base units are used in many application domains. For example electronVolt for energy, feet and nautical miles for length. In most cases there is a known, usually linear, conversion to a preferred unit which is either a base unit or derived by direct combination of base units. The gml:ConventionalUnit extends gml:UnitDefinition with a property that describes a conversion to a preferred unit for this physical quantity. When the conversion is exact, the element gml:conversionToPreferredUnit should be used, or when the conversion is not exact the element gml:roughConversionToPreferredUnit is available. Both of these elements have the same content model. The gml:derivationUnitTerm property defined above is included to allow a user to optionally record how this unit may be derived from other ("more primitive") units.		

Diagram



Type	gml:ConventionalUnitType		
Properties	content: complex		
Substitution Group Affiliation	• gml:UnitDefinition		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:conversionToPreferredUnit

Namespace	http://www.opengis.net/gml/3.2		
Annotations	The elements gml:conversionToPreferredUnit and gml:roughConversionToPreferredUnit represent parameters used to convert conventional units to preferred units for this physical quantity type. A preferred unit is either a Base Unit or a Derived Unit that is selected for all values of one physical quantity type.		
Diagram			
Type	gml:ConversionToPreferredUnitType		
Properties	content: complex		
Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

Element gml:ConversionToPreferredUnitType / gml:factor

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	double		
Properties	content: simple		

Element gml:ConversionToPreferredUnitType / gml:formula

Namespace	http://www.opengis.net/gml/3.2		
Diagram			

Type	gml:FormulaType
Properties	content: complex

Element gml:FormulaType / gml:a

Namespace	http://www.opengis.net/gml/3.2				
Diagram	 <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p>				
Type	double				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element gml:FormulaType / gml:b

Namespace	http://www.opengis.net/gml/3.2		
Diagram	 <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p>		
Type	double		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple
content:	simple		

Element gml:FormulaType / gml:c

Namespace	http://www.opengis.net/gml/3.2		
Diagram	 <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p>		
Type	double		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple
content:	simple		

Element gml:FormulaType / gml:d

Namespace	http://www.opengis.net/gml/3.2				
Diagram	 <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p>				
Type	double				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element gml:roughConversionToPreferredUnit

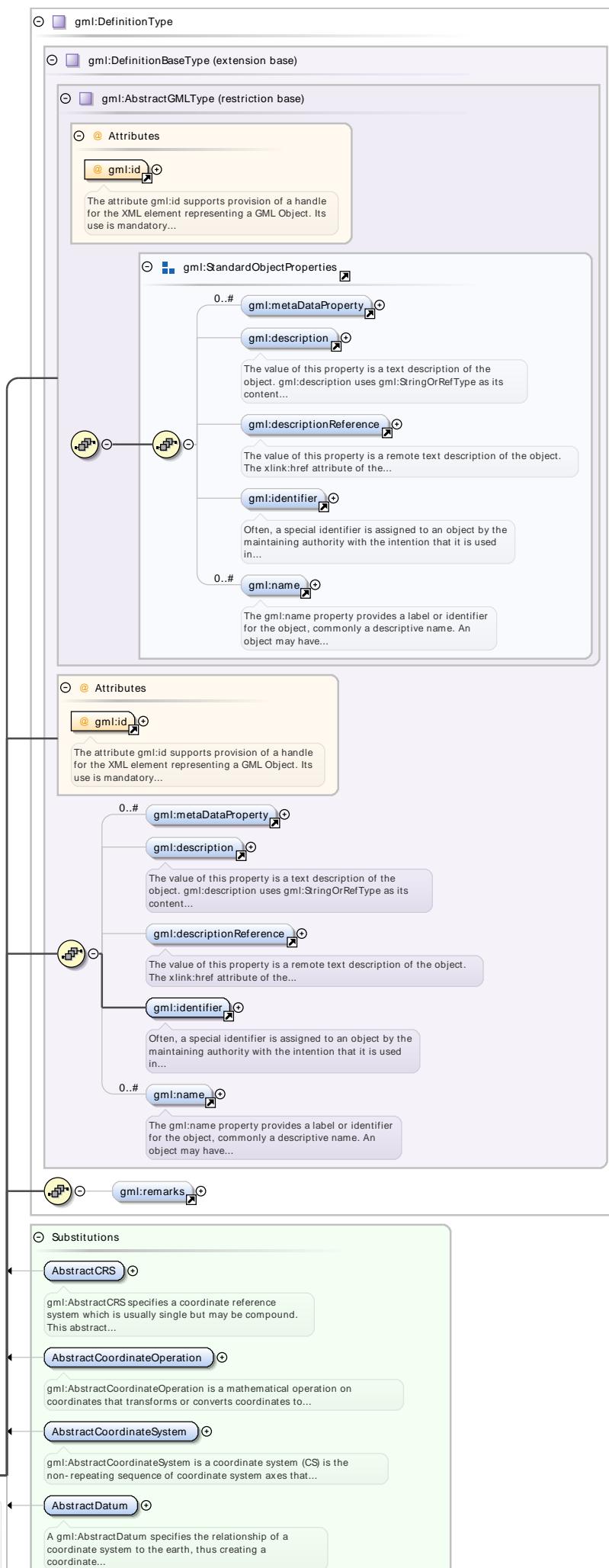
Namespace	http://www.opengis.net/gml/3.2
Annotations	The elements gml:conversionToPreferredUnit and gml:roughConversionToPreferredUnit represent parameters used to convert conventional units to preferred units for this physical quantity type. A preferred unit is either a Base Unit or a Derived Unit that is selected for all values of one physical quantity type.

Diagram	<p>The elements <code>gml:conversionToPreferredUnit</code> and <code>gml:roughConversionToPreferredUnit</code> represent parameters used to convert...</p> <p>The inherited attribute <code>uom</code> references the preferred unit that this conversion applies to. The conversion of a unit to...</p>						
Type	<code>gml:ConversionToPreferredUnitType</code>						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>uom</code></td><td><code>gml:UomIdentifier</code></td><td>required</td></tr> </tbody> </table>	QName	Type	Use	<code>uom</code>	<code>gml:UomIdentifier</code>	required
QName	Type	Use					
<code>uom</code>	<code>gml:UomIdentifier</code>	required					

Element `gml:Definition`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>The basic <code>gml:Definition</code> element specifies a definition, which can be included in or referenced by a dictionary. The content model for a generic definition is a derivation from <code>gml:AbstractGMLType</code>. The <code>gml:description</code> property element shall hold the definition if this can be captured in a simple text string, or the <code>gml:descriptionReference</code> property element may carry a link to a description elsewhere. The <code>gml:identifier</code> element shall provide one identifier identifying this definition. The identifier shall be unique within the dictionaries using this definition. The <code>gml:name</code> elements shall provide zero or more terms and synonyms for which this is the definition. The <code>gml:remarks</code> element shall be used to hold additional textual information that is not conceptually part of the definition but is useful in understanding the definition.</p>

Diagram



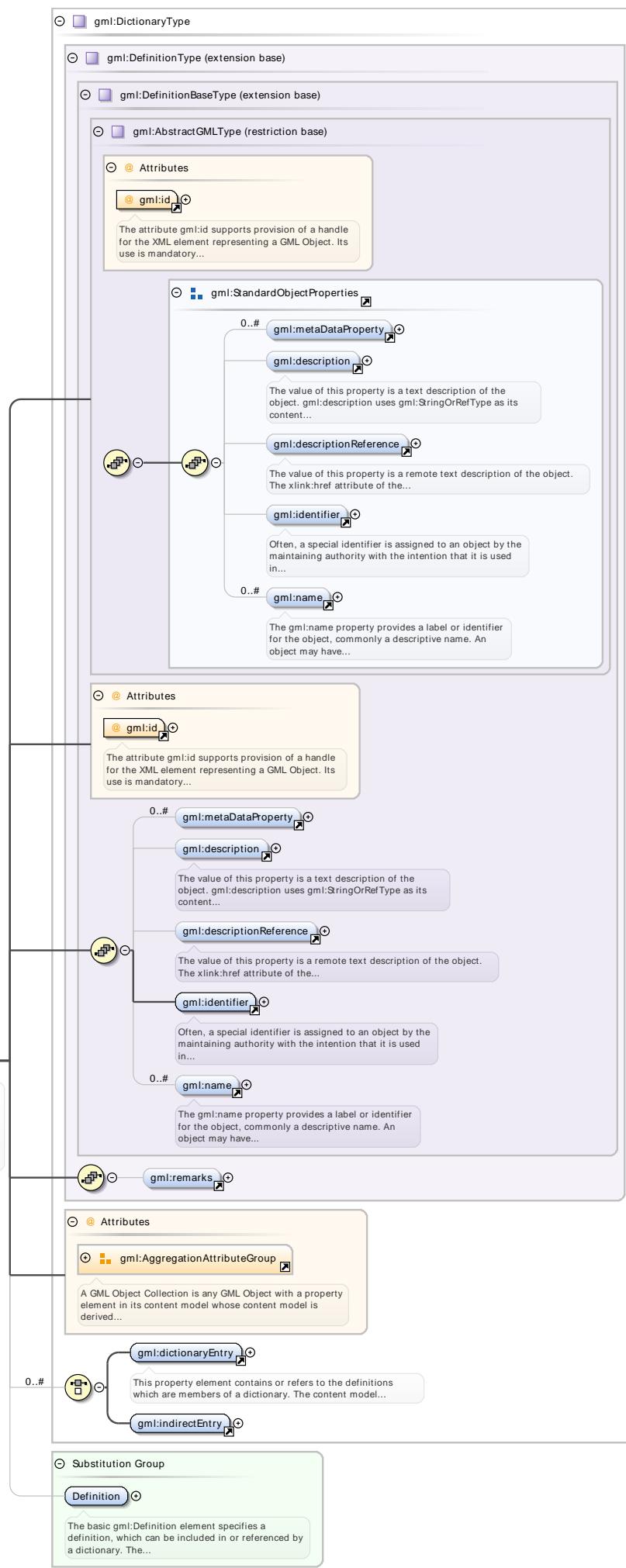
Type	gml:DefinitionType
Properties	<p>content: complex</p>
Substitution Group	<ul style="list-style-type: none"> • gml:Dictionary • gml:AbstractCRS • gml:AbstractSingleCRS • gml:AbstractGeneralDerivedCRS • gml:GeodeticCRS • gml:VerticalCRS • gml:ProjectedCRS • gml:DerivedCRS • gml:EngineeringCRS • gml:ImageCRS • gml:TemporalCRS • gml:GeographicCRS • gml:GeocentricCRS • gml:CompoundCRS • gml:TimeReferenceSystem • gml:TimeCoordinateSystem • gml:TimeCalendar • gml:TimeClock • gml:TimeOrdinalReferenceSystem • gml:DefinitionCollection • gml:DefinitionProxy • gml:CoordinateSystemAxis • gml:AbstractCoordinateSystem • gml:EllipsoidalCS • gml:CartesianCS • gml:VerticalCS • gml:TimeCS • gml:LinearCS • gml:UserDefinedCS • gml:SphericalCS • gml:PolarCS • gml:CylindricalCS • gml:AffineCS • gml:TemporalCS • gml:ObliqueCartesianCS • gml:AbstractDatum • gml:GeodeticDatum • gml:EngineeringDatum

	<ul style="list-style-type: none"> • <code>gml:ImageDatum</code> • <code>gml:VerticalDatum</code> • <code>gml:TemporalDatum</code> • <code>gml:Ellipsoid</code> • <code>gml:PrimeMeridian</code> • <code>gml:UnitDefinition</code> • <code>gml:BaseUnit</code> • <code>gml:DerivedUnit</code> • <code>gml:ConventionalUnit</code> • <code>gml:AbstractCoordinateOperation</code> • <code>gml:AbstractSingleOperation</code> • <code>gml:ConcatenatedOperation</code> • <code>gml:PassThroughOperation</code> • <code>gml:AbstractOperation</code> • <code>gml:AbstractGeneralConversion</code> • <code>gml:Conversion</code> • <code>gml:AbstractGeneralTransformation</code> • <code>gml:Transformation</code> • <code>gml:OperationMethod</code> • <code>gml:AbstractGeneralOperationParameter</code> • <code>gml:OperationParameter</code> • <code>gml:OperationParameterGroup</code> 												
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractGML</code> 												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td><code>gml:id</code></td><td>ID</td><td>required</td><td></td></tr> <tr> <td></td><td></td><td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use		<code>gml:id</code>	ID	required				The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use											
<code>gml:id</code>	ID	required											
		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.											

Element `gml:Dictionary`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>Sets of definitions may be collected into dictionaries or collections. A <code>gml:Dictionary</code> is a non-abstract collection of definitions. The <code>gml:Dictionary</code> content model adds a list of <code>gml:dictionaryEntry</code> properties that contain or reference <code>gml:Definition</code> objects. A database handle (<code>gml:id</code> attribute) is required, in order that this collection may be referred to. The standard <code>gml:identifier</code>, <code>gml:description</code>, <code>gml:descriptionReference</code> and <code>gml:name</code> properties are available to reference or contain more information about this dictionary. The <code>gml:description</code> and <code>gml:descriptionReference</code> property elements may be used for a description of this dictionary. The derived <code>gml:name</code> element may be used for the name(s) of this dictionary. for remote definiton references <code>gml:dictionaryEntry</code> shall be used. If a <code>Definition</code> object contained within a <code>Dictionary</code> uses the <code>descriptionReference</code> property to refer to a remote definition, then this enables the inclusion of a remote definition in a local dictionary, giving a handle and identifier in the context of the local dictionary.</p>

Diagram



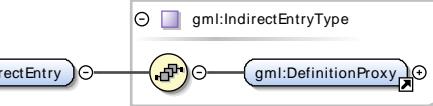
Type	gml:DictionaryType		
Properties	content: complex		
Substitution Group Affiliation	• gml:Definition		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element gml:dictionaryEntry

Namespace	http://www.opengis.net/gml/3.2		
Annotations	This property element contains or refers to the definitions which are members of a dictionary. The content model follows the standard GML property pattern, so a gml:dictionaryEntry may either contain or refer to a single gml:Definition. Since gml:Dictionary is substitutable for gml:Definition, the content of an entry may itself be a lower level dictionary. Note that if the value is provided by reference, this definition does not carry a handle (gml:id) in this context, so does not allow external references to this specific definition in this context. When used in this way the referenced definition will usually be in a dictionary in the same XML document.		
Diagram	<p>gml:DictionaryEntryType</p> <p>gml:AbstractMemberType (extension base)</p> <p>Attributes</p> <ul style="list-style-type: none"> gml:OwnershipAttributeGroup <p>Encoding a GML property inline vs. by- reference shall not imply anything about the 'ownership' of the contained or...</p> <p>gml:AssociationAttributeGroup</p> <p>To create a collection of GML Objects that are not all features, a property type shall be derived by extension from...</p> <p>gml:Definition</p> <p>The basic gml:Definition element specifies a definition, which can be included in or referenced by a dictionary. The...</p> <p>Substitutions</p> <p>definitionMember</p>		
Type	gml:DictionaryEntryType		
Properties	content: complex		
Substitution Group	• gml:definitionMember		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	owns	boolean	false
	xlink:actuate	xlink:actuateType	
			optional

QName	Type	Fixed	Default	Use
xlink:arcrole	xlink:arcroleType			optional
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

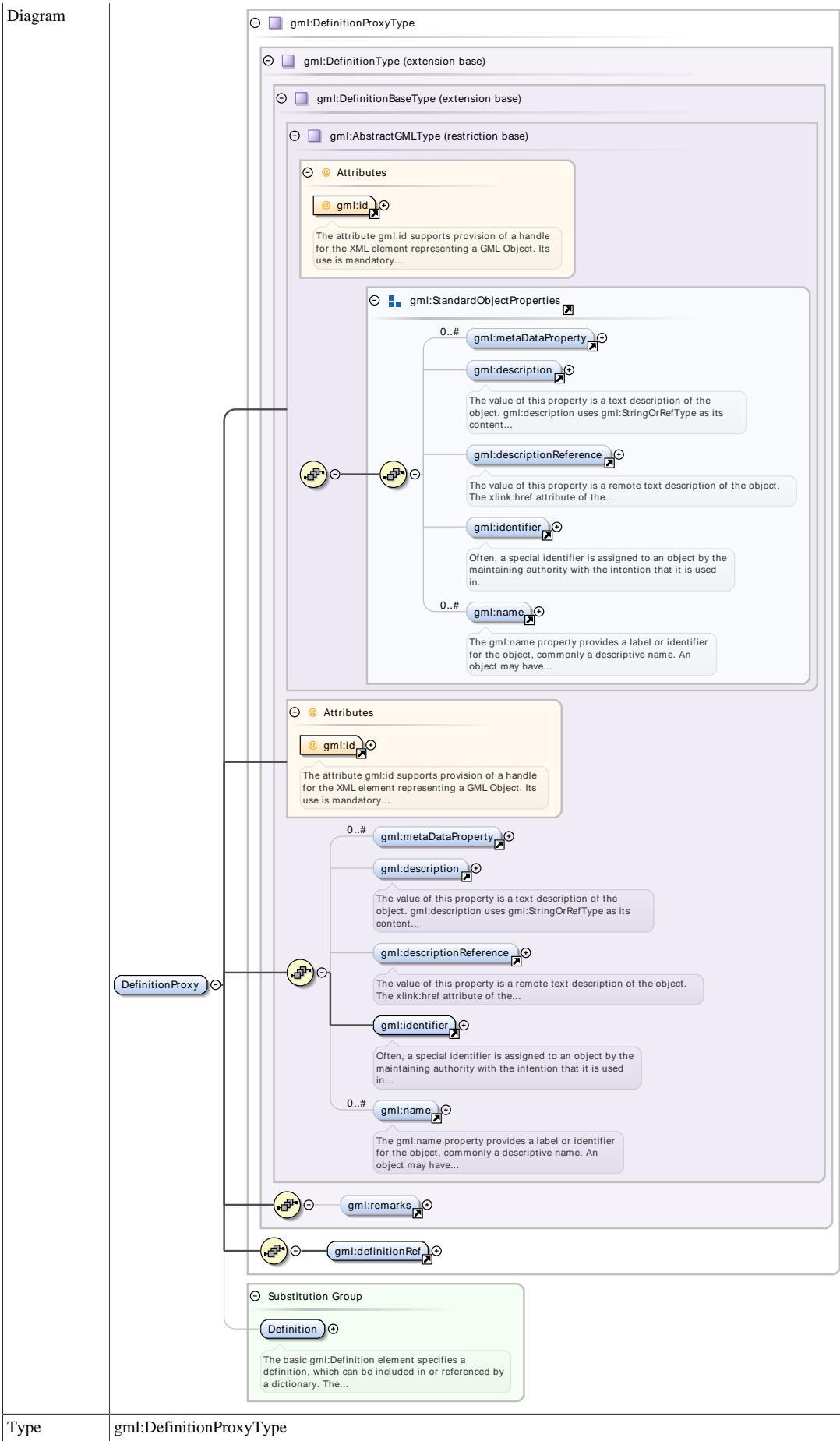
Element **gml:indirectEntry**

Namespace	http://www.opengis.net/gml/3.2
Diagram	 <pre> classDiagram class gml:IndirectEntryType class indirectEntry class gml:DefinitionProxy gml:IndirectEntryType < -- indirectEntry gml:IndirectEntryType < -- gml:DefinitionProxy </pre>
Type	gml:IndirectEntryType
Properties	content: complex

Element **gml:DefinitionProxy**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Properties	content: complex			
Substitution Group Affiliation	• gml:Definition			
Attributes	QName	Type	Use	
	gml:id	ID	required	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

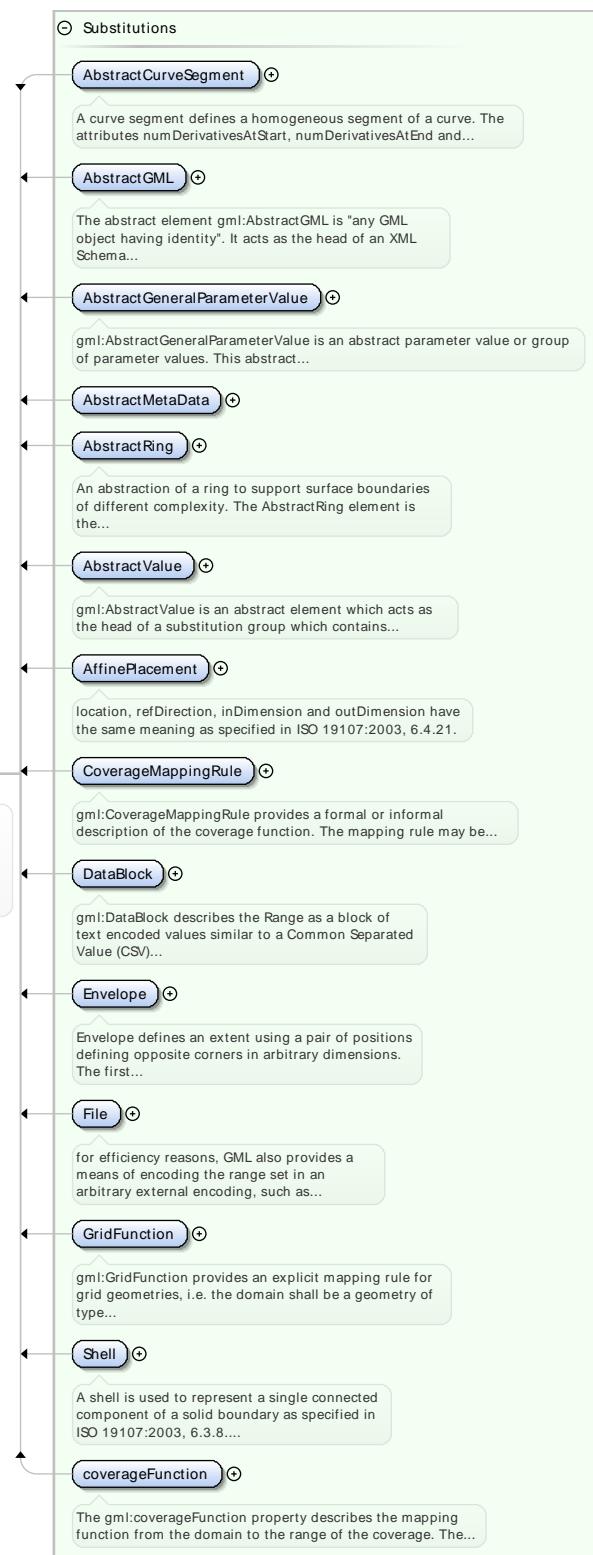
Element **gml:definitionRef**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:definitionRef element. It is a reference type (gml:ReferenceType) containing attributes (gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup) and a definitionRef element. A callout box provides information about the ownership and association groups, stating that encoding a property inline vs. by reference does not imply ownership. Another callout box explains that XLink components are used for hypertext referencing. A third callout box notes that gml:ReferenceType is intended for application schemas.</p>																																																							
Type	gml:ReferenceType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gml:remoteSchema	anyURI			optional																																																				
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xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:AbstractObject**

Namespace	http://www.opengis.net/gml/3.2
Annotations	This element has no type defined, and is therefore implicitly (according to the rules of W3C XML Schema) an XML Schema anyType. It is used as the head of an XML Schema substitution group which unifies complex content and certain simple content elements used for datatypes in GML, including the gml:AbstractGML substitution group.

Diagram



Properties	abstract: true
Substitution Group	<ul style="list-style-type: none"> gml:AbstractGML gml:AbstractTimeSlice gml:MovingObjectStatus gml:AbstractTopology gml:AbstractTopoPrimitive

- `gml:Node`
- `gml:Edge`
- `gml:Face`
- `gml:TopoSolid`
- `gml:TopoComplex`
- `gml:DataBlock`
- `gml:File`
- `gml:coverageFunction`
- `gml:CoverageMappingRule`
- `gml:GridFunction`
- `gml:AbstractGeometry`
- `gml:AbstractGeometricPrimitive`
- `gml:Point`
- `gml:AbstractCurve`
- `gml:LineString`
- `gml:AbstractGeometricAggregate`
- `gml:MultiGeometry`
- `gml:MultiPoint`
- `gml:MultiCurve`
- `gml:MultiSurface`
- `gml:MultiSolid`
- `gml:Envelope`
- `gml:AbstractTimeObject`
- `gml:AbstractTimePrimitive`
- `gml:AbstractTimeComplex`
- `gml:AbstractTimeGeometricPrimitive`
- `gml:TimeInstant`
- `gml:TimePeriod`
- `gml:Definition`
- `gml:Dictionary`
- `gml:AbstractCRS`
- `gml:AbstractSingleCRS`
- `gml:AbstractGeneralDerivedCRS`
- `gml:GeodeticCRS`
- `gml:VerticalCRS`
- `gml:ProjectedCRS`
- `gml:DerivedCRS`
- `gml:EngineeringCRS`
- `gml:ImageCRS`
- `gml:TemporalCRS`

- `gml:GeographicCRS`
- `gml:GeocentricCRS`
- `gml:CompoundCRS`
- `gml:TimeReferenceSystem`
- `gml:TimeCoordinateSystem`
- `gml:TimeCalendar`
- `gml:TimeClock`
- `gml:TimeOrdinalReferenceSystem`
- `gml:Bag`
- `gml:Array`
- `gml:AbstractMetaData`
- `gml:GenericMetaData`
- `gml:DefinitionCollection`
- `gml:DefinitionProxy`
- `gml:AbstractFeature`
- `gml:AbstractFeatureCollection`
- `gml:FeatureCollection`
- `gml:DynamicFeature`
- `gml:DynamicFeatureCollection`
- `gml:AbstractCoverage`
- `gml:AbstractDiscreteCoverage`
- `gml:MultiPointCoverage`
- `gml:MultiCurveCoverage`
- `gml:MultiSurfaceCoverage`
- `gml:MultiSolidCoverage`
- `gml:GridCoverage`
- `gml:RectifiedGridCoverage`
- `gml:AbstractContinuousCoverage`
- `gml:Observation`
- `gml:DirectedObservation`
- `gml:DirectedObservationAtDistance`
- `gml:EnvelopeWithTimePeriod`
- `gml:GeometricComplex`
- `gml:CompositeCurve`
- `gml:AbstractValue`
- `gml:Boolean`
- `gml:Category`
- `gml:Count`
- `gml:Quantity`
- `gml:AbstractScalarValue`

- `gml:BooleanList`
- `gml:CategoryList`
- `gml:CountList`
- `gml:QuantityList`
- `gml:AbstractScalarValueList`
- `gml:CompositeValue`
- `gml:ValueArray`
- `gml:CategoryExtent`
- `gml:CountExtent`
- `gml:QuantityExtent`
- `gml:Grid`
- `gml:AbstractImplicitGeometry`
- `gml:RectifiedGrid`
- `gml:CoordinateSystemAxis`
- `gml:AbstractCoordinateSystem`
- `gml:EllipsoidalCS`
- `gml:CartesianCS`
- `gml:VerticalCS`
- `gml:TimeCS`
- `gml:LinearCS`
- `gml:UserDefinedCS`
- `gml:SphericalCS`
- `gml:PolarCS`
- `gml:CylindricalCS`
- `gml:AffineCS`
- `gml:TemporalCS`
- `gml:ObliqueCartesianCS`
- `gml:AbstractDatum`
- `gml:GeodeticDatum`
- `gml:EngineeringDatum`
- `gml:ImageDatum`
- `gml:VerticalDatum`
- `gml:TemporalDatum`
- `gml:Ellipsoid`
- `gml:PrimeMeridian`
- `gml:UnitDefinition`
- `gml:BaseUnit`
- `gml:DerivedUnit`
- `gml:ConventionalUnit`
- `gml:AbstractCoordinateOperation`

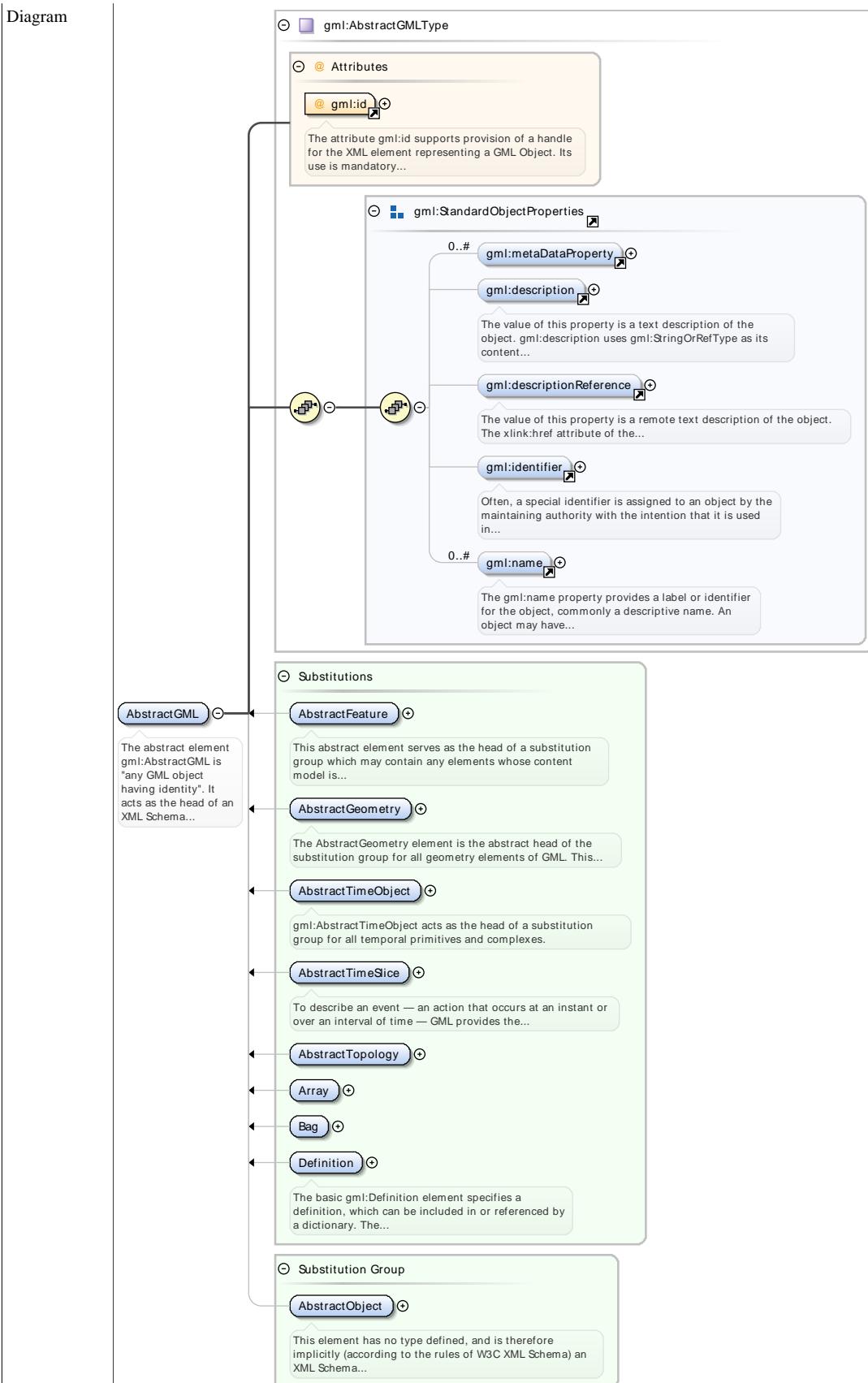
- `gml:AbstractSingleOperation`
- `gml:ConcatenatedOperation`
- `gml:PassThroughOperation`
- `gml:AbstractOperation`
- `gml:AbstractGeneralConversion`
- `gml:Conversion`
- `gml:AbstractGeneralTransformation`
- `gml:Transformation`
- `gml:AbstractGeneralParameterValue`
- `gml:ParameterValue`
- `gml:ParameterValueGroup`
- `gml:OperationMethod`
- `gml:AbstractGeneralOperationParameter`
- `gml:OperationParameter`
- `gml:OperationParameterGroup`
- `gml:AbstractTimeTopologyPrimitive`
- `gml:TimeNode`
- `gml:TimeEdge`
- `gml:TimeTopologyComplex`
- `gml:Curve`
- `gml:OrientableCurve`
- `gml:AbstractCurveSegment`
- `gml:LineStringSegment`
- `gml:ArcString`
- `gml:Arc`
- `gml:Circle`
- `gml:ArcStringByBulge`
- `gml:ArcByBulge`
- `gml:ArcByCenterPoint`
- `gml:CircleByCenterPoint`
- `gml:CubicSpline`
- `gml:BSpline`
- `gml:Bezier`
- `gml:OffsetCurve`
- `gml:Clothoid`
- `gml:GeodesicString`
- `gml:Geodesic`
- `gml:AffinePlacement`
- `gml:AbstractSolid`
- `gml:Solid`

- `gml:CompositeSolid`
- `gml:Shell`
- `gml:AbstractSurface`
- `gml:Polygon`
- `gml:CompositeSurface`
- `gml:Surface`
- `gml:PolyhedralSurface`
- `gml:TriangulatedSurface`
- `gml:Tin`
- `gml:OrientableSurface`
- `gml:AbstractRing`
- `gml:LinearRing`
- `gml:Ring`

Element `gml:AbstractGML`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The abstract element <code>gml:AbstractGML</code> is "any GML object having identity". It acts as the head of an XML Schema substitution group, which may include any element which is a GML feature, or other object, with identity. This is used as a variable in content models in GML core and application schemas. It is effectively an abstract superclass for all GML objects.

Diagram



Type	<code>gml:AbstractGMLType</code>				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>abstract:</td> <td>true</td> </tr> </table>	content:	complex	abstract:	true
content:	complex				
abstract:	true				

Substitution Group	<ul style="list-style-type: none">• <code>gml:AbstractTimeSlice</code>• <code>gml:MovingObjectStatus</code>• <code>gml:AbstractTopology</code>• <code>gml:AbstractTopoPrimitive</code>• <code>gml:Node</code>• <code>gml:Edge</code>• <code>gml:Face</code>• <code>gml:TopoSolid</code>• <code>gml:TopoComplex</code>• <code>gml:AbstractGeometry</code>• <code>gml:AbstractGeometricPrimitive</code>• <code>gml:Point</code>• <code>gml:AbstractCurve</code>• <code>gml:LineString</code>• <code>gml:AbstractGeometricAggregate</code>• <code>gml:MultiGeometry</code>• <code>gml:MultiPoint</code>• <code>gml:MultiCurve</code>• <code>gml:MultiSurface</code>• <code>gml:MultiSolid</code>• <code>gml:AbstractTimeObject</code>• <code>gml:AbstractTimePrimitive</code>• <code>gml:AbstractTimeComplex</code>• <code>gml:AbstractTimeGeometricPrimitive</code>• <code>gml:TimeInstant</code>• <code>gml:TimePeriod</code>• <code>gml:Definition</code>• <code>gml:Dictionary</code>• <code>gml:AbstractCRS</code>• <code>gml:AbstractSingleCRS</code>• <code>gml:AbstractGeneralDerivedCRS</code>• <code>gml:GeodeticCRS</code>• <code>gml:VerticalCRS</code>• <code>gml:ProjectedCRS</code>• <code>gml:DerivedCRS</code>• <code>gml:EngineeringCRS</code>• <code>gml:ImageCRS</code>• <code>gml:TemporalCRS</code>• <code>gml:GeographicCRS</code>
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- `gml:GeocentricCRS`
- `gml:CompoundCRS`
- `gml:TimeReferenceSystem`
- `gml:TimeCoordinateSystem`
- `gml:TimeCalendar`
- `gml:TimeClock`
- `gml:TimeOrdinalReferenceSystem`
- `gml:Bag`
- `gml:Array`
- `gml:DefinitionCollection`
- `gml:DefinitionProxy`
- `gml:AbstractFeature`
- `gml:AbstractFeatureCollection`
- `gml:FeatureCollection`
- `gml:DynamicFeature`
- `gml:DynamicFeatureCollection`
- `gml:AbstractCoverage`
- `gml:AbstractDiscreteCoverage`
- `gml:MultiPointCoverage`
- `gml:MultiCurveCoverage`
- `gml:MultiSurfaceCoverage`
- `gml:MultiSolidCoverage`
- `gml:GridCoverage`
- `gml:RectifiedGridCoverage`
- `gml:AbstractContinuousCoverage`
- `gml:Observation`
- `gml:DirectedObservation`
- `gml:DirectedObservationAtDistance`
- `gml:GeometricComplex`
- `gml:CompositeCurve`
- `gml:Grid`
- `gml:AbstractImplicitGeometry`
- `gml:RectifiedGrid`
- `gml:CoordinateSystemAxis`
- `gml:AbstractCoordinateSystem`
- `gml:EllipsoidalCS`
- `gml:CartesianCS`
- `gml:VerticalCS`
- `gml:TimeCS`
- `gml:LinearCS`

- `gml:UserDefinedCS`
- `gml:SphericalCS`
- `gml:PolarCS`
- `gml:CylindricalCS`
- `gml:AffineCS`
- `gml:TemporalCS`
- `gml:ObliqueCartesianCS`
- `gml:AbstractDatum`
- `gml:GeodeticDatum`
- `gml:EngineeringDatum`
- `gml:ImageDatum`
- `gml:VerticalDatum`
- `gml:TemporalDatum`
- `gml:Ellipsoid`
- `gml:PrimeMeridian`
- `gml:UnitDefinition`
- `gml:BaseUnit`
- `gml:DerivedUnit`
- `gml:ConventionalUnit`
- `gml:AbstractCoordinateOperation`
- `gml:AbstractSingleOperation`
- `gml:ConcatenatedOperation`
- `gml:PassThroughOperation`
- `gml:AbstractOperation`
- `gml:AbstractGeneralConversion`
- `gml:Conversion`
- `gml:AbstractGeneralTransformation`
- `gml:Transformation`
- `gml:OperationMethod`
- `gml:AbstractGeneralOperationParameter`
- `gml:OperationParameter`
- `gml:OperationParameterGroup`
- `gml:AbstractTimeTopologyPrimitive`
- `gml:TimeNode`
- `gml:TimeEdge`
- `gml:TimeTopologyComplex`
- `gml:Curve`
- `gml:OrientableCurve`
- `gml:AbstractSolid`
- `gml:Solid`

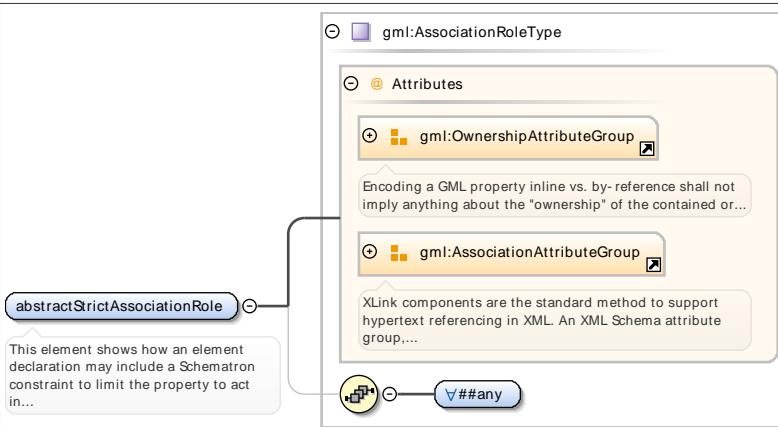
	<ul style="list-style-type: none"> • <code>gml:CompositeSolid</code> • <code>gml:AbstractSurface</code> • <code>gml:Polygon</code> • <code>gml:CompositeSurface</code> • <code>gml:Surface</code> • <code>gml:PolyhedralSurface</code> • <code>gml:TriangulatedSurface</code> • <code>gml:Tin</code> • <code>gml:OrientableSurface</code> 								
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractObject</code> 								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td><code>gml:id</code></td><td>ID</td><td>required</td><td></td></tr> </tbody> </table> <p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	QName	Type	Use		<code>gml:id</code>	ID	required	
QName	Type	Use							
<code>gml:id</code>	ID	required							

Element `gml:abstractAssociationRole`

Namespace	http://www.opengis.net/gml/3.2																																																		
Annotations	<p>Applying this pattern shall restrict the multiplicity of objects in a property element using this content model to exactly one. An instance of this type shall contain an element representing an object, or serve as a pointer to a remote object. Applying the pattern to define an application schema specific property type allows to restrict - the inline object to specified object types, - the encoding to "by-reference only" (see 7.2.3.7), - the encoding to "inline only" (see 7.2.3.8).</p>																																																		
Diagram	<pre> classDiagram class gml { class AssociationRoleType { class abstractAssociationRole { 1..1 gml:OwnershipAttributeGroup gml:AssociationAttributeGroup } } } </pre>																																																		
Type	<code>gml:AssociationRoleType</code>																																																		
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QName	Type	Fixed	Default	Use
xlink:type	xlink:typeType	simple		optional

Element **gml:abstractStrictAssociationRole**

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	This element shows how an element declaration may include a Schematron constraint to limit the property to act in either inline or by-reference mode, but not both.																																																							
Diagram	 <p>The diagram shows the <code>gml:AssociationRoleType</code> class with the <code>abstractStrictAssociationRole</code> attribute. A callout box for this attribute contains the text: "This element shows how an element declaration may include a Schematron constraint to limit the property to act in..."</p> <p>Inside the <code>gml:AssociationRoleType</code> class, there are two attribute groups: <code>gml:OwnershipAttributeGroup</code> and <code>gml:AssociationAttributeGroup</code>. A callout box for <code>gml:OwnershipAttributeGroup</code> contains the text: "Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or..."</p> <p>A callout box for <code>gml:AssociationAttributeGroup</code> contains the text: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group..."</p>																																																							
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Element **gml:abstractReference**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:abstractReference</code> may be used as the head of a substitution group of more specific elements providing a value by-reference.

Diagram																																																								
Type	gml:ReferenceType																																																							
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>abstract:</td><td>true</td></tr> </table>	content:	complex	abstract:	true																																																			
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Element **gml:abstractInlineProperty**

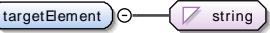
Namespace	http://www.opengis.net/gml/3.2								
Annotations	gml:abstractInlineProperty may be used as the head of a substitution group of more specific elements providing a value inline.								
Diagram									
Type	gml:InlinePropertyType								
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>abstract:</td><td>true</td></tr> </table>	content:	complex	abstract:	true				
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QName	Type	Default	Use						
owns	boolean	false	optional						

Element **gml:reversePropertyName**

Namespace	http://www.opengis.net/gml/3.2
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Annotations	If the value of an object property is another object and that object contains also a property for the association between the two objects, then this name of the reverse property may be encoded in a <code>gml:reversePropertyName</code> element in an <code>appinfo</code> annotation of the property element to document the constraint between the two properties. The value of the element shall contain the qualified name of the property element.
Diagram	 If the value of an object property is another object and that object contains also a property for the association... Built-in primitive type. The string datatype represents character strings in XML.
Type	string
Properties	content: simple

Element `gml:targetElement`

Namespace	http://www.opengis.net/gml/3.2
Diagram	 Built-in primitive type. The string datatype represents character strings in XML.
Type	string
Properties	content: simple

Element `gml:associationName`

Namespace	http://www.opengis.net/gml/3.2
Diagram	 Built-in primitive type. The string datatype represents character strings in XML.
Type	string
Properties	content: simple

Element `gml:defaultCodeSpace`

Namespace	http://www.opengis.net/gml/3.2
Diagram	 Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).
Type	anyURI
Properties	content: simple

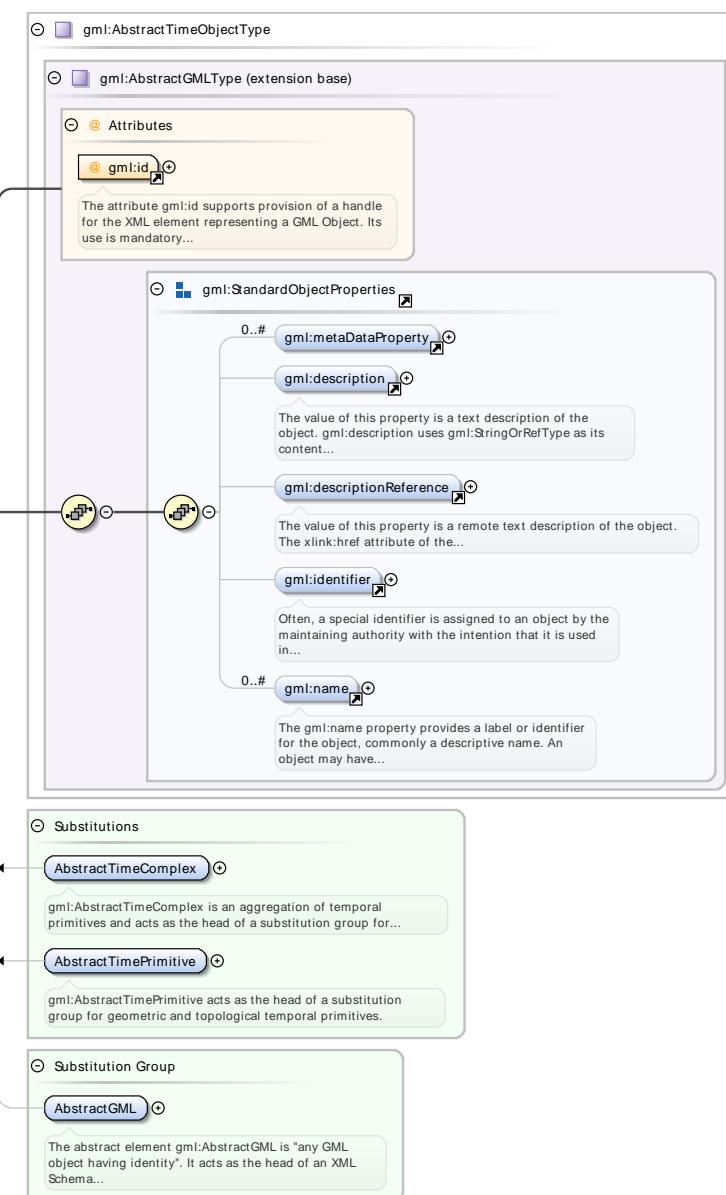
Element `gml:gmlProfileSchema`

Namespace	http://www.opengis.net/gml/3.2
Diagram	 Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).
Type	anyURI
Properties	content: simple

Element `gml:AbstractTimeObject`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:AbstractTimeObject</code> acts as the head of a substitution group for all temporal primitives and complexes.

Diagram



Type	<code>gml:AbstractTimeObjectType</code>
Properties	<p>content: complex</p> <p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> <code>gml:AbstractTimePrimitive</code> <code>gml:AbstractTimeComplex</code> <code>gml:AbstractTimeGeometricPrimitive</code> <code>gml:TimeInstant</code> <code>gml:TimePeriod</code> <code>gml:AbstractTimeTopologyPrimitive</code> <code>gml:TimeNode</code> <code>gml:TimeEdge</code> <code>gml:TimeTopologyComplex</code>
Substitution Group Affiliation	<ul style="list-style-type: none"> <code>gml:AbstractGML</code>

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element **gml:AbstractTimeComplex**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:AbstractTimeComplex is an aggregation of temporal primitives and acts as the head of a substitution group for temporal complexes.		
Diagram			
Type	gml:AbstractTimeComplexType		
Properties	<p>content: complex</p> <p>abstract: true</p>		
Substitution Group	<ul style="list-style-type: none"> gml:TimeTopologyComplex 		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractTimeObject 		
Attributes	QName	Type	Use
	gml:id	ID	required

QName	Type	Use
		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element `gml:AbstractTimeGeometricPrimitive`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<p><code>gml:TimeGeometricPrimitive</code> acts as the head of a substitution group for geometric temporal primitives. A temporal geometry shall be associated with a temporal reference system through the <code>frame</code> attribute that provides a URI reference that identifies a description of the reference system. Following ISO 19108, the Gregorian calendar with UTC is the default reference system, but others may also be used. The GPS calendar is an alternative reference systems in common use. The two geometric primitives in the temporal dimension are the instant and the period. GML components are defined to support these as follows.</p>				
Diagram					
Type	<code>gml:AbstractTimeGeometricPrimitiveType</code>				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>abstract:</td> <td>true</td> </tr> </table>	content:	complex	abstract:	true
content:	complex				
abstract:	true				
Substitution Group	<ul style="list-style-type: none"> • <code>gml:TimeInstant</code> 				

	<ul style="list-style-type: none"> • <code>gml:TimePeriod</code> • <code>gml:AbstractTimePrimitive</code> 												
Substitution Group Affiliation													
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>frame</code></td><td>anyURI</td><td>#ISO-8601</td><td>optional</td></tr> <tr> <td><code>gml:id</code></td><td>ID</td><td></td><td>required</td></tr> </tbody> </table> <p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	QName	Type	Default	Use	<code>frame</code>	anyURI	#ISO-8601	optional	<code>gml:id</code>	ID		required
QName	Type	Default	Use										
<code>frame</code>	anyURI	#ISO-8601	optional										
<code>gml:id</code>	ID		required										

Element `gml:TimeInstant`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:TimeInstant</code> acts as a zero-dimensional geometric primitive that represents an identifiable position in time.
Diagram	<p>The diagram illustrates the inheritance path and associations for the <code>gml:TimeInstant</code> element. It starts with the <code>gml:TimeInstantType</code> class, which is an extension of <code>gml:AbstractTimeGeometricPrimitiveType</code> and <code>gml:AbstractTimePrimitiveType</code>. The <code>gml:TimeInstant</code> class itself has associations with <code>gml:metaDataProperty</code>, <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, <code>gml:name</code>, and <code>relatedTime</code>. It also has an association with <code>gml:timePosition</code>. The <code>gml:TimeInstant</code> class is part of a substitution group for <code>AbstractTimeGeometricPrimitive</code>.</p>
Type	<code>gml:TimeInstantType</code>

Properties	content: complex				
Substitution Group Affiliation	• <code>gml:AbstractTimeGeometricPrimitive</code>				
Attributes	QName	Type	Default	Use	
	<code>frame</code>	anyURI	#ISO-8601	optional	
	<code>gml:id</code>	ID		required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.				

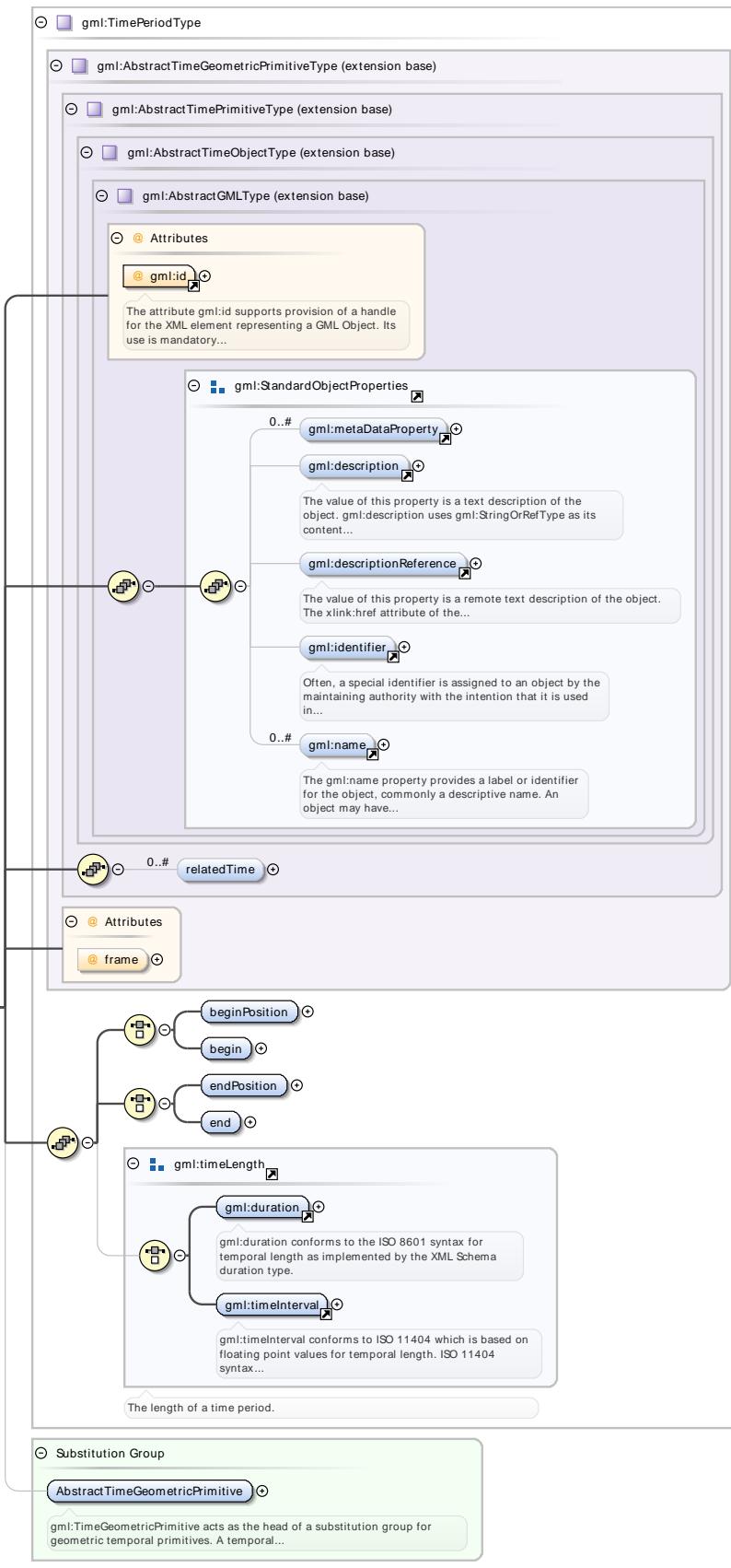
Element `gml:timePosition`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	This element is used directly as a property of <code>gml:TimeInstant</code> (see 15.2.2.3), and may also be used in application schemas.				
Diagram					
Type	<code>gml:TimePositionType</code>				
Properties	content: complex				
Attributes	QName	Type	Default	Use	
	<code>calendarEraName</code>	string		optional	
	<code>frame</code>	anyURI	#ISO-8601	optional	
	<code>indeterminatePosition</code>	<code>gml:TimeIndeterminateValueType</code>		optional	

Element `gml:TimePeriod`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<p><code>gml:TimePeriod</code> acts as a one-dimensional geometric primitive that represents an identifiable extent in time. The location in of a <code>gml:TimePeriod</code> is described by the temporal positions of the instants at which it begins and ends. The length of the period is equal to the temporal distance between the two bounding temporal positions. Both beginning and end may be described in terms of their direct position using <code>gml:TimePositionType</code> which is an XML Schema simple content type, or by reference to an identifiable time instant using <code>gml:TimeInstantPropertyType</code>. Alternatively a limit of a <code>gml:TimePeriod</code> may use the conventional GML property model to make a reference to a time instant described elsewhere, or a limit may be indicated as a direct position.</p>				

Diagram



Type	gml:TimePeriodType
Properties	content: complex

Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractTimeGeometricPrimitive</code> 				
Attributes	QName	Type	Default	Use	
	<code>frame</code>	anyURI	#ISO-8601	optional	
	<code>gml:id</code>	ID		required	
	<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>				

Element `gml:TimePeriodType / gml:beginPosition`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of <code>gml:TimePositionType</code>. It shows a <code>gml:TimePositionUnion</code> element, which is a union of XML Schema simple types. The diagram also shows attributes <code>frame</code>, <code>calendarEraName</code>, and <code>indeterminatePosition</code>. A note states: "The method for identifying a temporal position is specific to each temporal reference system. <code>gml:TimePositionType</code>..."</p>				
Type	<code>gml:TimePositionType</code>				
Properties	content: complex				
Attributes	QName	Type	Default	Use	
	<code>calendarEraName</code>	string		optional	
	<code>frame</code>	anyURI	#ISO-8601	optional	
	<code>indeterminatePosition</code>	<code>gml:TimeIndeterminateValueType</code>		optional	

Element `gml:TimePeriodType / gml:begin`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of <code>gml:TimeInstantPropertyType</code>. It shows <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code>. A note states: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...." Another note states: "Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or..." The diagram also shows <code>gml:TimelInstant</code>. A note states: "gml:TimelInstant acts as a zero-dimensional geometric primitive that represents an identifiable position in time." A final note states: "gml:TimelInstantPropertyType provides for associating a gml:TimelInstant with an object."</p>				
Type	<code>gml:TimeInstantPropertyType</code>				
Properties	content: complex				
Attributes	QName	Type	Default	Use	
	<code>calendarEraName</code>	string		optional	
	<code>frame</code>	anyURI	#ISO-8601	optional	
	<code>indeterminatePosition</code>	<code>gml:TimeIndeterminateValueType</code>		optional	

Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element **gml:TimePeriodType / gml:endPosition**

Namespace	http://www.opengis.net/gml/3.2																
Diagram	<p>The diagram illustrates the structure of gml:TimePositionType. It shows an endPosition attribute pointing to a gml:TimePositionUnion element. The gml:TimePositionUnion element is described as a union of XML Schema simple types. It contains three attributes: frame, calendarEraName, and indeterminatePosition. A note states: "The method for identifying a temporal position is specific to each temporal reference system. gml:TimePositionType..."</p>																
Type	gml:TimePositionType																
Properties	content: complex																
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>calendarEraName</td> <td>string</td> <td></td> <td>optional</td> </tr> <tr> <td>frame</td> <td>anyURI</td> <td>#ISO-8601</td> <td>optional</td> </tr> <tr> <td>indeterminatePosition</td> <td>gml:TimeIndeterminateValueType</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	calendarEraName	string		optional	frame	anyURI	#ISO-8601	optional	indeterminatePosition	gml:TimeIndeterminateValueType		optional
QName	Type	Default	Use														
calendarEraName	string		optional														
frame	anyURI	#ISO-8601	optional														
indeterminatePosition	gml:TimeIndeterminateValueType		optional														

Element **gml:TimePeriodType / gml:end**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the structure of gml:TimeInstantPropertyType. It shows an end attribute pointing to a gml:TimeInstant element. The gml:TimeInstant element is described as a zero-dimensional geometric primitive that represents an identifiable position in time. A note states: "gml:TimeInstantPropertyType provides for associating a gml:TimeInstant with an object."</p>

Type	gml:TimeInstantPropertyType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element gml:duration

Namespace	http://www.opengis.net/gml/3.2	
Annotations	gml:duration conforms to the ISO 8601 syntax for temporal length as implemented by the XML Schema duration type.	
Diagram		
Type	gml:duration	
Properties	content: simple	

Element gml:timeInterval

Namespace	http://www.opengis.net/gml/3.2													
Annotations	gml:timeInterval conforms to ISO 11404 which is based on floating point values for temporal length. ISO 11404 syntax specifies the use of a positiveInteger together with appropriate values for radix and factor. The resolution of the time interval is to one radix \wedge -factor) of the specified time unit. The value of the unit is either selected from the units for time intervals from ISO 31-1:1992, or is another suitable unit. The encoding is defined for GML in gml:TimeUnitType. The second component of this union type provides a method for indicating time units other than the six standard units given in the enumeration.													
Diagram														
Type	gml:TimeIntervalLengthType													
Properties	content: complex													
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>factor</td> <td>integer</td> <td>optional</td> </tr> <tr> <td>radix</td> <td>positiveInteger</td> <td>optional</td> </tr> <tr> <td>unit</td> <td>gml:TimeUnitType</td> <td>required</td> </tr> </tbody> </table>		QName	Type	Use	factor	integer	optional	radix	positiveInteger	optional	unit	gml:TimeUnitType	required
QName	Type	Use												
factor	integer	optional												
radix	positiveInteger	optional												
unit	gml:TimeUnitType	required												

Element `gml:direction`

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	The property <code>gml:direction</code> is intended as a pre-defined property expressing a direction to be assigned to features defined in a GML application schema.																																																							
Diagram	<pre> classDiagram class gml:DirectionPropertyType { gml:OwnershipAttributeGroup gml:AssociationAttributeGroup directionVector directionDescription compassPoint directionKeyword directionString } directionVector < -- direction direction < -- "The property gml:direction is intended as a pre-defined property expressing a direction to be assigned to features..." </pre>																																																							
Type	<code>gml:DirectionPropertyType</code>																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>owns</code></td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td><code>xlink:actuate</code></td> <td><code>xlink:actuateType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td><code>xlink:arcroleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:href</code></td> <td><code>xlink:hrefType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:role</code></td> <td><code>xlink:roleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:show</code></td> <td><code>xlink:showType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:title</code></td> <td><code>xlink:titleAttrType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:type</code></td> <td><code>xlink:typeType</code></td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	anyURI			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	<code>owns</code>	boolean		false	optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional	<code>xlink:role</code>	<code>xlink:roleType</code>			optional	<code>xlink:show</code>	<code>xlink:showType</code>			optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional
QName	Type	Fixed	Default	Use																																																				
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<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional																																																				

Element `gml:DirectionPropertyType / gml:DirectionVector`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<pre> classDiagram class gml:DirectionVectorType { gml:vector horizontalAngle verticalAngle } horizontalAngle < -- directionVector directionVector < -- "Direction vectors are specified by providing components of a vector." </pre>
Type	<code>gml:DirectionVectorType</code>
Properties	content: complex

Element `gml:DirectionVectorType / gml:horizontalAngle`

Namespace	http://www.opengis.net/gml/3.2
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Diagram							
Type	gml:AngleType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element gml:DirectionVectorType / gml:verticalAngle

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:AngleType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element gml:DirectionPropertyType / gml:DirectionDescription

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:DirectionDescriptionType
Properties	content: complex

Element `gml:DirectionDescriptionType` / `gml:compassPoint`

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:CompassPointEnumeration
Properties	content: simple

Element `gml:DirectionDescriptionType` / `gml:keyword`

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:CodeType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>codeSpace</td> <td>anyURI</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional
QName	Type	Use					
codeSpace	anyURI	optional					

Element `gml:DirectionDescriptionType` / `gml:description`

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	string
Properties	content: simple

Element `gml:DirectionDescriptionType` / `gml:reference`

Namespace	http://www.opengis.net/gml/3.2
Diagram	

Type	gml:ReferenceType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element gml:DirectionPropertyType / gml:CompassPoint

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:CompassPointEnumeration
Properties	content: simple

Element gml:DirectionPropertyType / gml:DirectionKeyword

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:CodeType						
Properties	content: complex						
Attributes	<table border="1"> <tr> <td>QName</td><td>Type</td><td>Use</td></tr> <tr> <td>codeSpace</td><td>anyURI</td><td>optional</td></tr> </table>	QName	Type	Use	codeSpace	anyURI	optional
QName	Type	Use					
codeSpace	anyURI	optional					

Element gml:DirectionPropertyType / gml:DirectionString

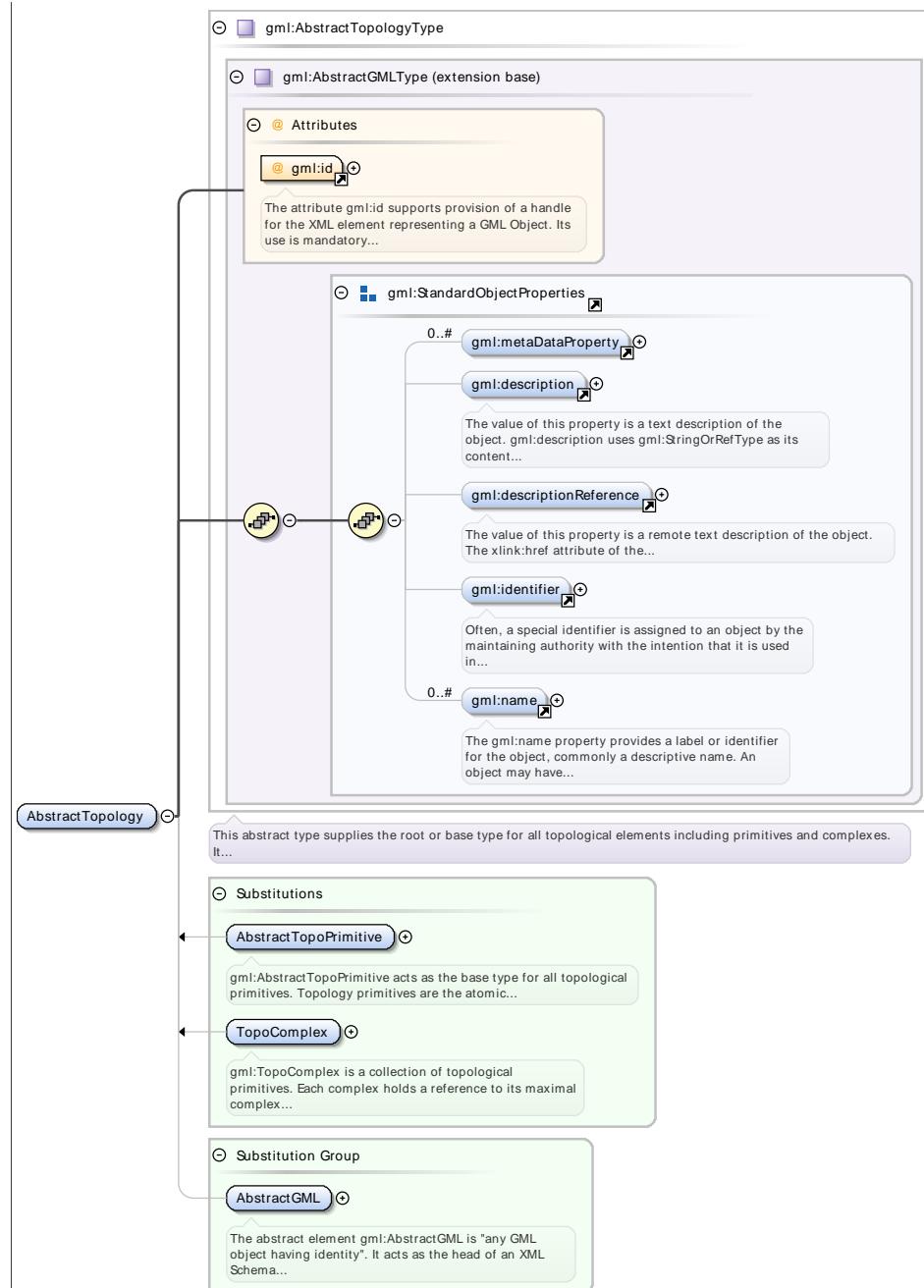
Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram illustrates the structure of the gml:StringOrRefType element. It starts with a box for gml:StringOrRefType, which contains a 'string' element (represented by a purple square icon) and an 'Attributes' section (represented by a yellow square icon). A callout points from the 'string' element to a description: 'Built-in primitive type. The string datatype represents character strings in XML.' Another callout points from the 'Attributes' section to a description: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...' A 'DirectionString' element is also shown, with a callout pointing to the 'string' element.</p>																																								
Type	gml:StringOrRefType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:type	xlink:typeType	simple	optional																																						

Element gml:AbstractTopology

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	gml:AbstractTopologyType
Properties	<p>content: complex</p> <p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> • gml:AbstractTopoPrimitive • gml:Node • gml:Edge • gml:Face • gml:TopoSolid • gml:TopoComplex
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractGML

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:AbstractTopoPrimitive

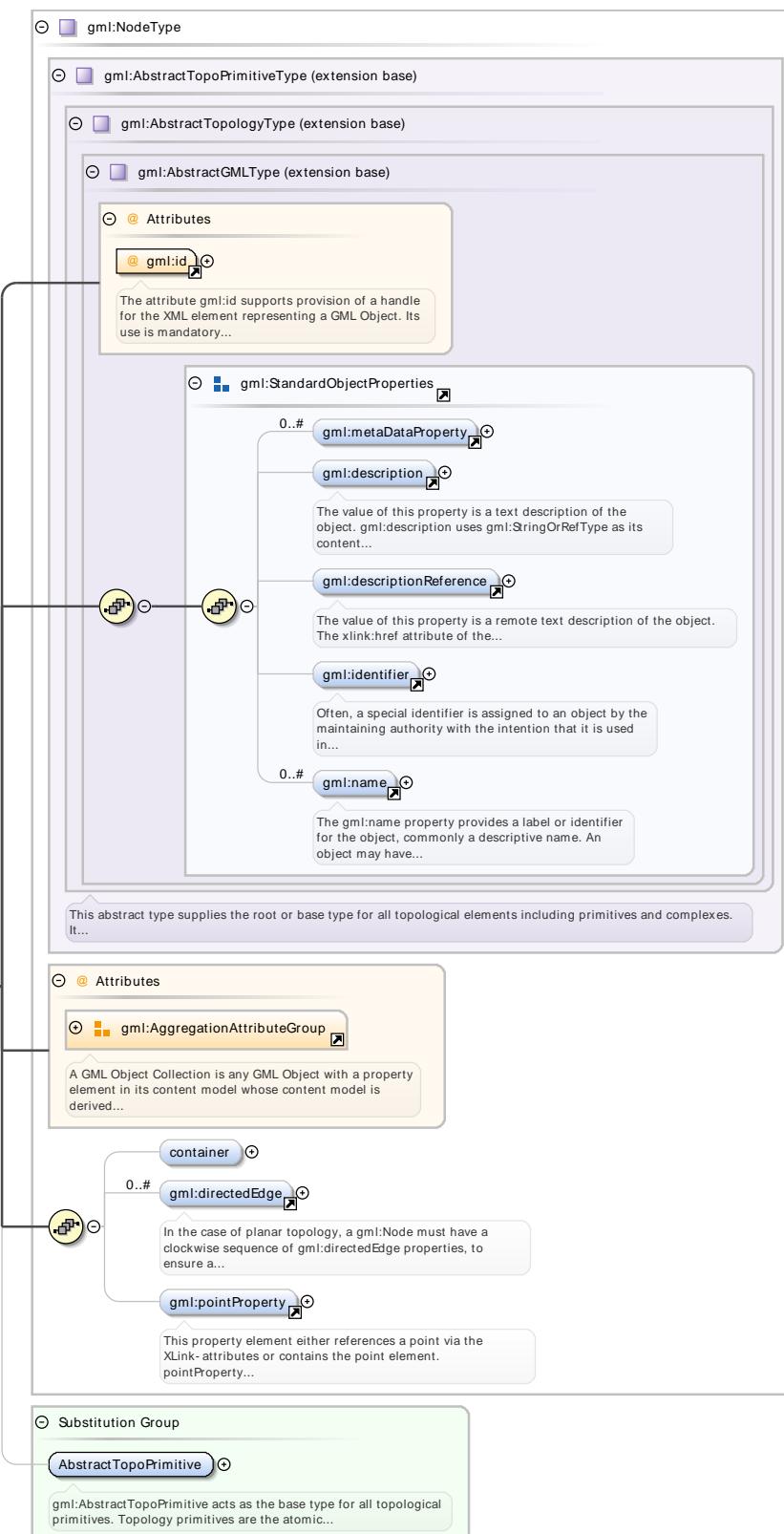
Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:AbstractTopoPrimitive acts as the base type for all topological primitives. Topology primitives are the atomic (smallest possible) units of a topology complex. Each topology primitive may contain references to other topology primitives of codimension 2 or more (gml:isolated). Conversely, nodes may have faces as containers and nodes and edges may have solids as containers (gml:container).</p>
Diagram	<p>The diagram illustrates the schema structure for gml:AbstractTopoPrimitive. It shows the inheritance path from gml:AbstractTopoPrimitiveType to gml:AbstractTopologyType and gml:AbstractGMLType. The attributes of gml:AbstractTopologyType are detailed, including gml:id (mandatory), gml:metaDataProperty (0..#), gml:description (text), gml:descriptionReference (remote text), gml:identifier (special identifier), and gml:name (label). The diagram also shows the substitutions for AbstractTopoPrimitive, listing Edge, Face, Node, and TopoSolid as possible types.</p>

Type	gml:AbstractTopoPrimitiveType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> • gml:Node • gml:Edge • gml:Face • gml:TopoSolid 		
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractTopology 		
Attributes	QName gml:id	Type ID	Use required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element **gml:Node**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:Node represents the 0-dimensional primitive. The optional coboundary of a node (gml:directedEdge) is a sequence of directed edges which are incident on this node. Edges emanating from this node appear in the node coboundary with a negative orientation. If provided, the aggregationType attribute shall have the value "sequence". A node may optionally be realised by a 0-dimensional geometric primitive (gml:pointProperty).

Diagram



Type	<code>gml:NodeType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractTopoPrimitive</code>

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

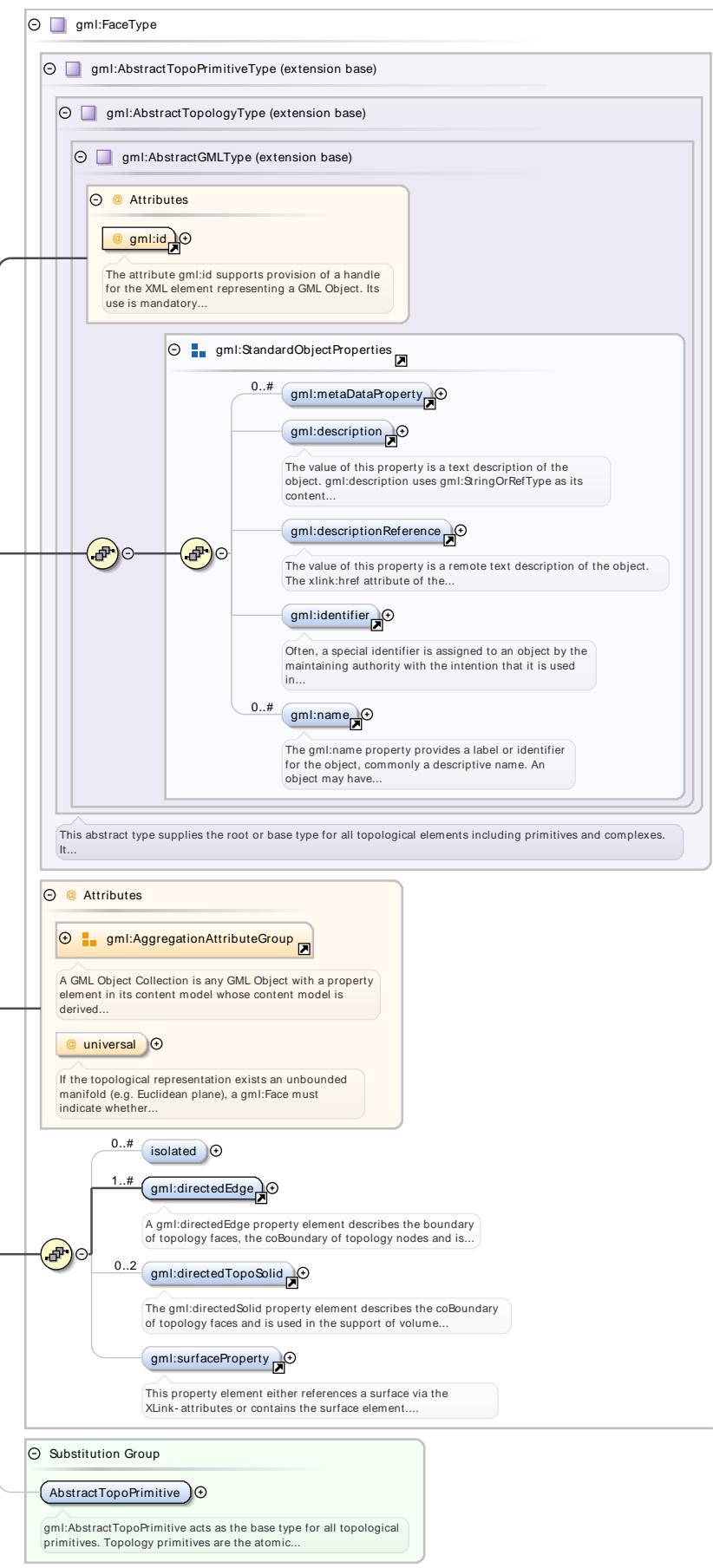
Element **gml:NodeType** / **gml:container**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:FaceOrTopoSolidPropertyType element. It is a complex type (complex) with a single child element, gml:Face. The gml:Face element is described as representing the 2-dimensional topology primitive, specifically the topological boundary of a face (gml:directedEdge). It is also noted that gml:Face represents the 3-dimensional topology primitive, the topological boundary of a solid (gml:directedFace). The diagram also shows the gml:TopoSolid element, which represents the 3-dimensional topology primitive, the topological boundary of a solid (gml:directedFace). Annotations for the gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup are also present.</p>																																																							
Type	gml:FaceOrTopoSolidPropertyType																																																							
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0																																																			
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:Face**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:Face represents the 2-dimensional topology primitive. The topological boundary of a face (gml:directedEdge) consists of a sequence of directed edges. If provided, the aggregationType attribute shall have the value "sequence". The optional coboundary of a face (gml:directedTopoSolid) is a pair of directed solids which are bounded by this face. A positively directed solid corresponds to a solid which lies in the direction of the negatively directed normal to the face in any geometric realisation. A face may optionally be realised by a 2-dimensional geometric primitive (gml:surfaceProperty).</p>

Diagram



Type	<code>gml:FaceType</code>
------	---------------------------

Properties	content: complex				
Substitution Group Affiliation	• gml:AbstractTopoPrimitive				
Attributes	QName	Type	Default	Use	
	aggregationType	gml:AggregationType		optional	
	gml:id	ID		required	
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
	universal	boolean	false	optional	
		If the topological representation exists an unbounded manifold (e.g. Euclidean plane), a gml:Face must indicate whether it is a universal face or not, to ensure a lossless topology representation as defined by Kuijpers, et. al. (see OGC 05-102 Topology IPR). The optional universal attribute of type boolean is used to indicate this. NOTE The universal face is normally not part of any feature, and is used to represent the unbounded portion of the data set. Its interior boundary (it has no exterior boundary) would normally be considered the exterior boundary of the map represented by the data set.			

Element gml:FaceType / gml:isolated

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of the gml:NodePropertyType. It shows a central box for 'Attributes' containing two groups: 'gml:AssociationAttributeGroup' and 'gml:OwnershipAttributeGroup'. A callout box provides a detailed description of XLink components. Below these is a 'gml:Node' element, which is described as representing a 0-dimensional primitive and being the optional coboundary of a node. A 'isolated' attribute is also shown.</p>				
Type	gml:NodePropertyType				
Properties	<p>content: complex</p> <p>minOccurs: 0</p> <p>maxOccurs: unbounded</p>				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

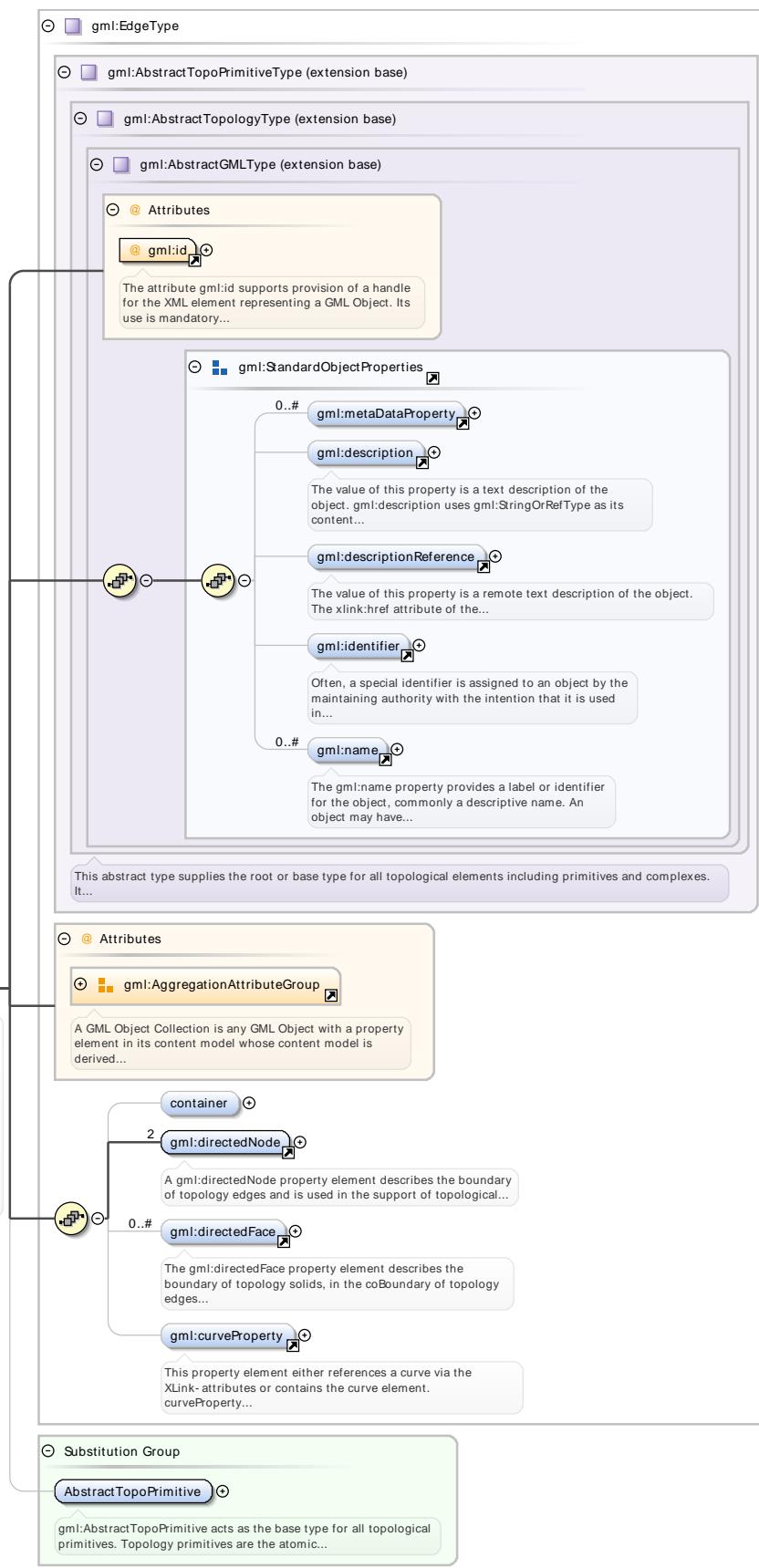
Element gml:directedEdge

Namespace	http://www.opengis.net/gml/3.2																																																												
Annotations	A gml:directedEdge property element describes the boundary of topology faces, the coBoundary of topology nodes and is used in the support of topological line features via the gml:TopoCurve expression, see below. The orientation attribute of type gml:SignType expresses the sense in which the included edge is used, i.e. forward or reverse.																																																												
Diagram	<pre> graph TD A[gml:DirectedEdgePropertyType] --> B[Attributes] B --> C[orientation] B --> D[AssociationAttributeGroup] D --> E[XLink components] B --> F[OwnershipAttributeGroup] F --> G[gml:Edge] G --> H[gml:Edge] H --> I[Encoding GML property] H --> J[gml:Edge] J --> K[gml:Edge] K --> L[gml:Edge] L --> M[gml:Edge] M --> N[gml:Edge] N --> O[gml:Edge] O --> P[gml:Edge] P --> Q[gml:Edge] Q --> R[gml:Edge] R --> S[gml:Edge] S --> T[gml:Edge] T --> U[gml:Edge] U --> V[gml:Edge] V --> W[gml:Edge] W --> X[gml:Edge] X --> Y[gml:Edge] Y --> Z[gml:Edge] </pre> <p>The diagram illustrates the structure of the gml:DirectedEdgePropertyType. It starts with a root element 'gml:DirectedEdgePropertyType' which contains an 'Attributes' group. The 'Attributes' group includes the 'orientation' attribute and an 'AssociationAttributeGroup' (indicated by a yellow box). A callout box for the 'AssociationAttributeGroup' notes that XLink components are used for hypertext referencing. The 'Attributes' group also contains an 'OwnershipAttributeGroup' (indicated by a yellow box), with a callout box stating that encoding a GML property inline vs. by-reference does not imply ownership. Below the 'Attributes' group is a 'gml:Edge' element, which is further detailed with a callout box explaining its role as a 1-dimensional primitive representing the topological boundary of an Edge. The 'gml:Edge' element is connected to a series of other 'gml:Edge' elements, forming a chain that represents the boundary of topology faces.</p>																																																												
Type	gml:DirectedEdgePropertyType																																																												
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Element qml:Edge

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:Edge represents the 1-dimensional primitive. The topological boundary of an Edge (gml:directedNode) consists of a negatively directed start Node and a positively directed end Node. The optional coboundary of an edge (gml:directedFace) is a circular sequence of directed faces which are incident on this edge in document order. In the 2D case, the orientation of the face on the left of the edge is "+"; the orientation of the face on the right on its right is "-". If provided, the aggregationType attribute shall have the value "sequence". An edge may optionally be realised by a 1-dimensional geometric primitive (gml:curveProperty).</p>

Diagram



Type	<code>gml:EdgeType</code>
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Properties	content: complex
------------	------------------

Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractTopoPrimitive 			
Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	
	gml:id	ID	required	
	<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>			

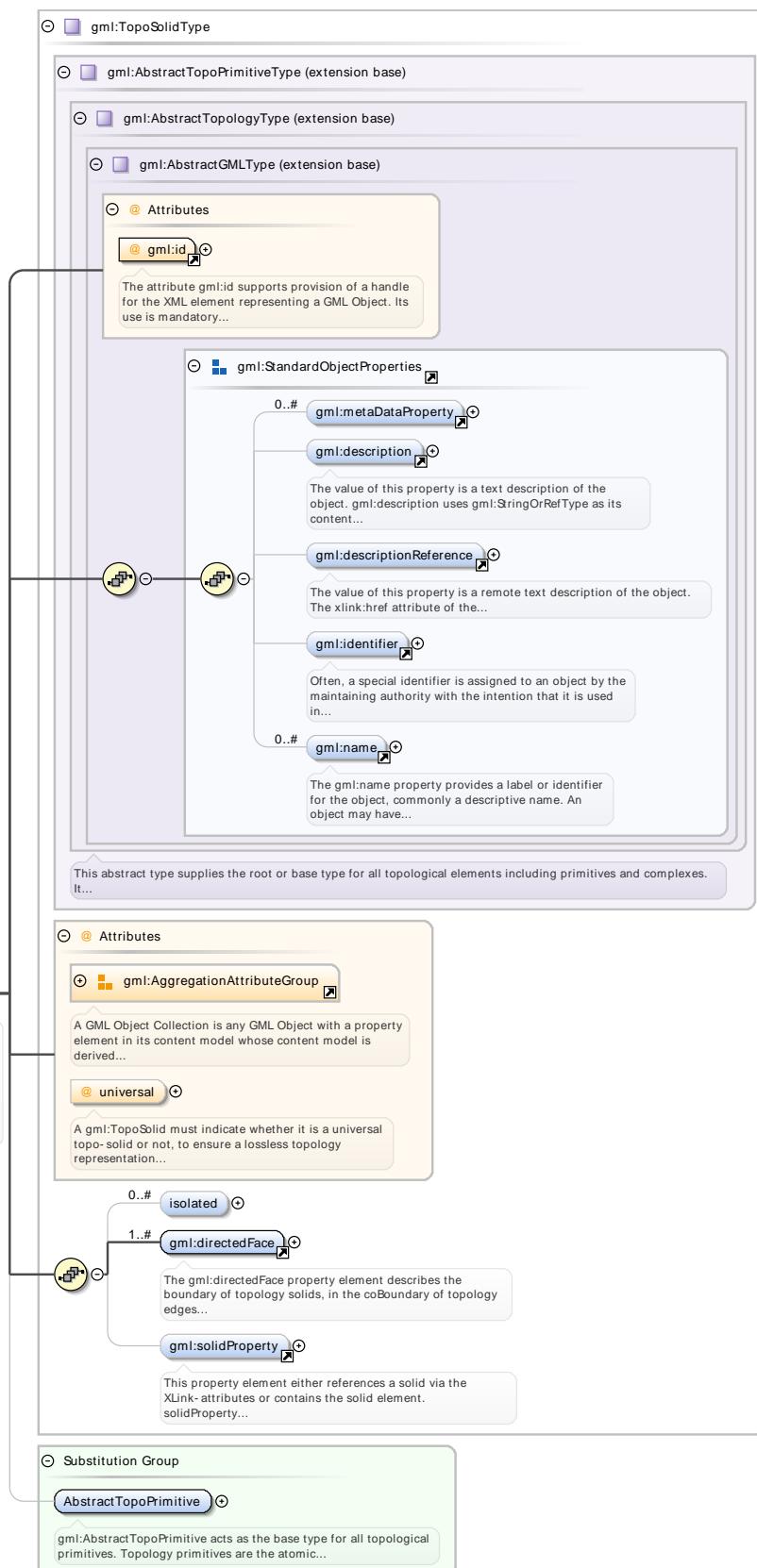
Element gml:EdgeType / gml:container

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:TopoSolidPropertyType element. It shows a central box for 'gml:TopoSolidPropertyType' with an 'Attributes' section containing two groups: 'gml:AssociationAttributeGroup' and 'gml:OwnershipAttributeGroup'. A 'container' element is shown with a line connecting to the 'gml:TopoSolid' attribute. A note states: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....' Another note states: 'Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...' A note for 'gml:TopoSolid' states: 'gml:TopoSolid represents the 3- dimensional topology primitive. The topological boundary of a solid (gml:directedFace)...'.</p>																																																							
Type	gml:TopoSolidPropertyType																																																							
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Element gml:TopoSolid

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:TopoSolid represents the 3-dimensional topology primitive. The topological boundary of a solid (gml:directedFace) consists of a set of directed faces. A solid may optionally be realised by a 3-dimensional geometric primitive (gml:solidProperty).

Diagram



Type	<code>gml:TopoSolidType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractTopoPrimitive</code>

Attributes	QName	Type	Default	Use	
	aggregationType	gml:AggregationType		optional	
	gml:id	ID		required	
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
	universal	boolean	false	optional	
		A gml:TopoSolid must indicate whether it is a universal topo-solid or not, to ensure a lossless topology representation as defined by Kuijpers, et. al. (see OGC 05-102 Topology IPR). The optional universal attribute of type boolean is used to indicate this and the default is fault. NOTE The universal topo-solid is normally not part of any feature, and is used to represent the unbounded portion of the data set. Its interior boundary (it has no exterior boundary) would normally be considered the exterior boundary of the data set.			

Element **gml:TopoSolidType** / **gml:isolated**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:NodeOrEdgePropertyType. It shows the following components and their relationships:</p> <ul style="list-style-type: none"> gml:NodeOrEdgePropertyType (parent element) gml:AssociationAttributeGroup (child element) gml:OwnershipAttributeGroup (child element) gml:Node (child element) gml:Edge (child element) isolated (attribute) <p>Annotations provide additional context:</p> <ul style="list-style-type: none"> isolated: Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or... gml:Node: gml:Node represents the 0- dimensional primitive. The optional coboundary of a node (gml:directedEdge) is a sequence of... gml:Edge: gml:Edge represents the 1- dimensional primitive. The topological boundary of an Edge (gml:directedNode) consists of a... gml:AssociationAttributeGroup: XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group.... gml:OwnershipAttributeGroup: ... 																																																							
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Element **gml:directedFace**

Namespace	http://www.opengis.net/gml/3.2
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Annotations	The <code>gml:directedFace</code> property element describes the boundary of topology solids, in the coBoundary of topology edges and is used in the support of surface features via the <code>gml:TopoSurface</code> expression, see below. The orientation attribute of type <code>gml:SignType</code> expresses the sense in which the included face is used i.e. inward or outward with respect to the surface normal in any geometric realisation.																																																												
Diagram	<p>The diagram illustrates the structure of the <code>gml:DirectedFacePropertyType</code>. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: <ul style="list-style-type: none"> <code>orientation</code> (type <code>gml:SignType</code>) gml:AssociationAttributeGroup (a group of XLink components: <code>xlink:actuate</code>, <code>xlink:arcrole</code>, <code>xlink:href</code>, <code>xlink:role</code>, <code>xlink:show</code>, <code>xlink:title</code>, <code>xlink:type</code>) gml:OwnershipAttributeGroup (a group of attributes: <code>owns</code>, <code>nilReason</code>) gml:Face (a reference to the <code>gml:Face</code> element, which represents the 2-dimensional topology primitive of a face). <p>Annotations for the <code>gml:directedFace</code> element state: "The <code>gml:directedFace</code> property element describes the boundary of topology solids, in the coBoundary of topology edges..."</p>																																																												
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Element `gml:directedNode`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A <code>gml:directedNode</code> property element describes the boundary of topology edges and is used in the support of topological point features via the <code>gml:TopoPoint</code> expression, see below. The orientation attribute of type <code>gml:SignType</code> expresses the sense in which the included node is used: start ("−") or end ("+" node).

Diagram	<p>A gml:directedNode property element describes the boundary of topology edges and is used in the support of topological...</p>																																																												
Type	gml:DirectedNodePropertyType																																																												
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Element gml:directedTopoSolid

Namespace	http://www.opengis.net/gml/3.2
Annotations	The gml:directedSolid property element describes the coBoundary of topology faces and is used in the support of volume features via the gml:TopoVolume expression, see below. The orientation attribute of type gml:SignType expresses the sense in which the included solid appears in the face coboundary. In the context of a gml:TopoVolume the orientation attribute has no meaning.
Diagram	<p>The gml:directedSolid property element describes the coBoundary of topology faces and is used in the support of volume...</p>

Type	gml:DirectedTopoSolidPropertyType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	orientation	gml:SignType		+	optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element gml:TopoPoint

Namespace	http://www.opengis.net/gml/3.2
Annotations	The intended use of gml:TopoPoint is to appear within a point feature to express the structural and possibly geometric relationships of this feature to other features via shared node definitions.
Diagram	
Type	gml:TopoPointType
Properties	content: complex

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

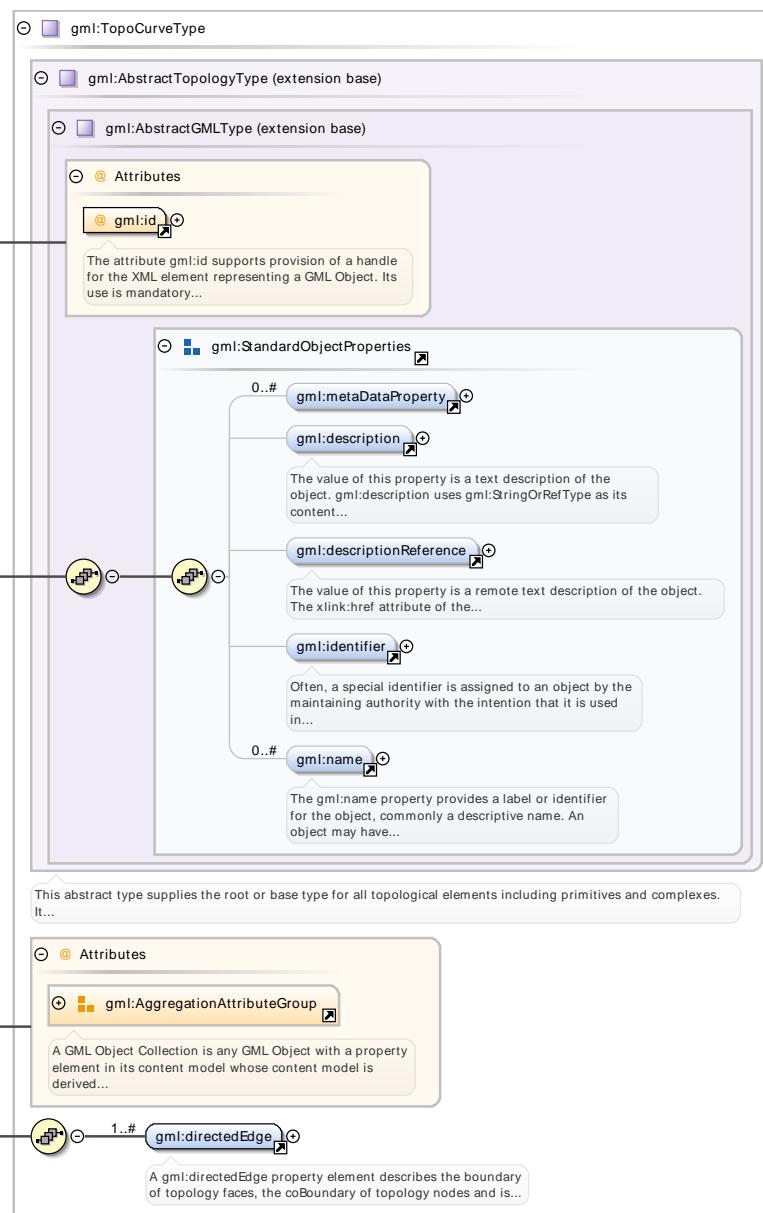
Element **gml:topoPointProperty**

Namespace	http://www.opengis.net/gml/3.2										
Annotations	The gml:topoPointProperty property element may be used in features to express their relationship to the referenced topology node.										
Diagram											
Type	gml:TopoPointPropertyType										
Properties	content: complex										
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>			QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use								
owns	boolean	false	optional								

Element **gml:TopoCurve**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:TopoCurve represents a homogeneous topological expression, a sequence of directed edges, which if realised are isomorphic to a geometric curve primitive. The intended use of gml:TopoCurve is to appear within a line feature to express the structural and geometric relationships of this feature to other features via the shared edge definitions. If provided, the aggregationType attribute shall have the value "sequence".		

Diagram



Type	<code>gm1:TopoCurveType</code>												
Properties	content: complex												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gm1:AggregationType</code></td> <td>optional</td> </tr> <tr> <td><code>gm1:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gm1:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>aggregationType</code>	<code>gm1:AggregationType</code>	optional	<code>gm1:id</code>	ID	required		The attribute <code>gm1:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use											
<code>aggregationType</code>	<code>gm1:AggregationType</code>	optional											
<code>gm1:id</code>	ID	required											
	The attribute <code>gm1:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.												

Element `gm1:topoCurveProperty`

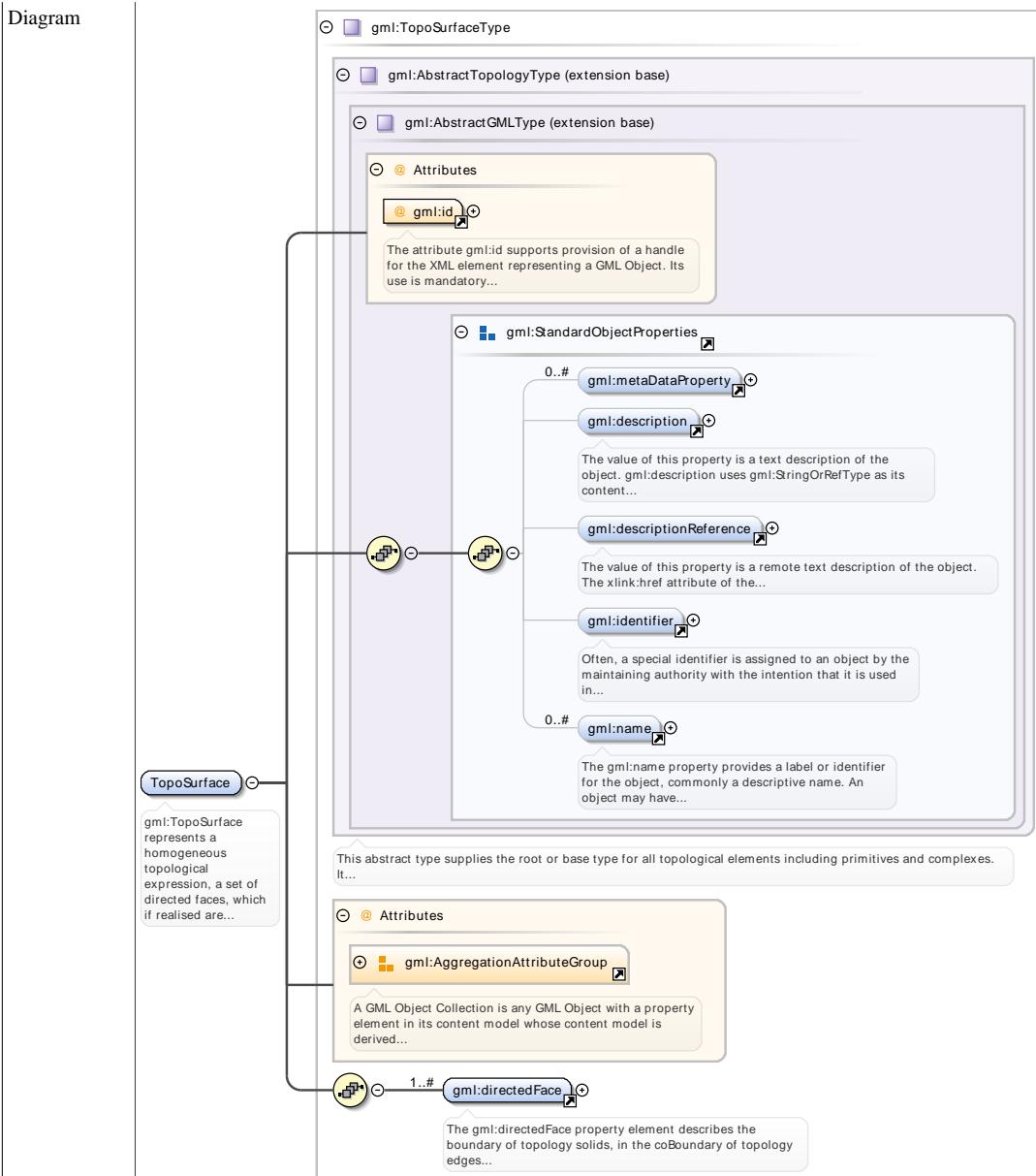
Namespace	http://www.opengis.net/gml/3.2
Annotations	The <code>gm1:topoCurveProperty</code> property element may be used in features to express their relationship to the referenced topology edges.

Diagram	<p>The <code>gml:topoCurveProperty</code> property element may be used in features to express their relationship to the referenced...</p> <p><code>gml:TopoCurve</code> represents a homogeneous topological expression, a sequence of directed edges, which if realised are...</p>								
Type	<code>gml:TopoCurvePropertyType</code>								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>owns</code></td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	<code>owns</code>	boolean	false	optional
QName	Type	Default	Use						
<code>owns</code>	boolean	false	optional						

Element `gml:TopoSurface`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:TopoSurface</code> represents a homogeneous topological expression, a set of directed faces, which if realised are isomorphic to a geometric surface primitive. The intended use of <code>gml:TopoSurface</code> is to appear within a surface feature to express the structural and possibly geometric relationships of this surface feature to other features via the shared face definitions.

Diagram



Type	<code>gml:TopoSurfaceType</code>												
Properties	content: complex												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td>optional</td> </tr> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use											
<code>aggregationType</code>	<code>gml:AggregationType</code>	optional											
<code>gml:id</code>	ID	required											
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.												

Element `gml:topoSurfaceProperty`

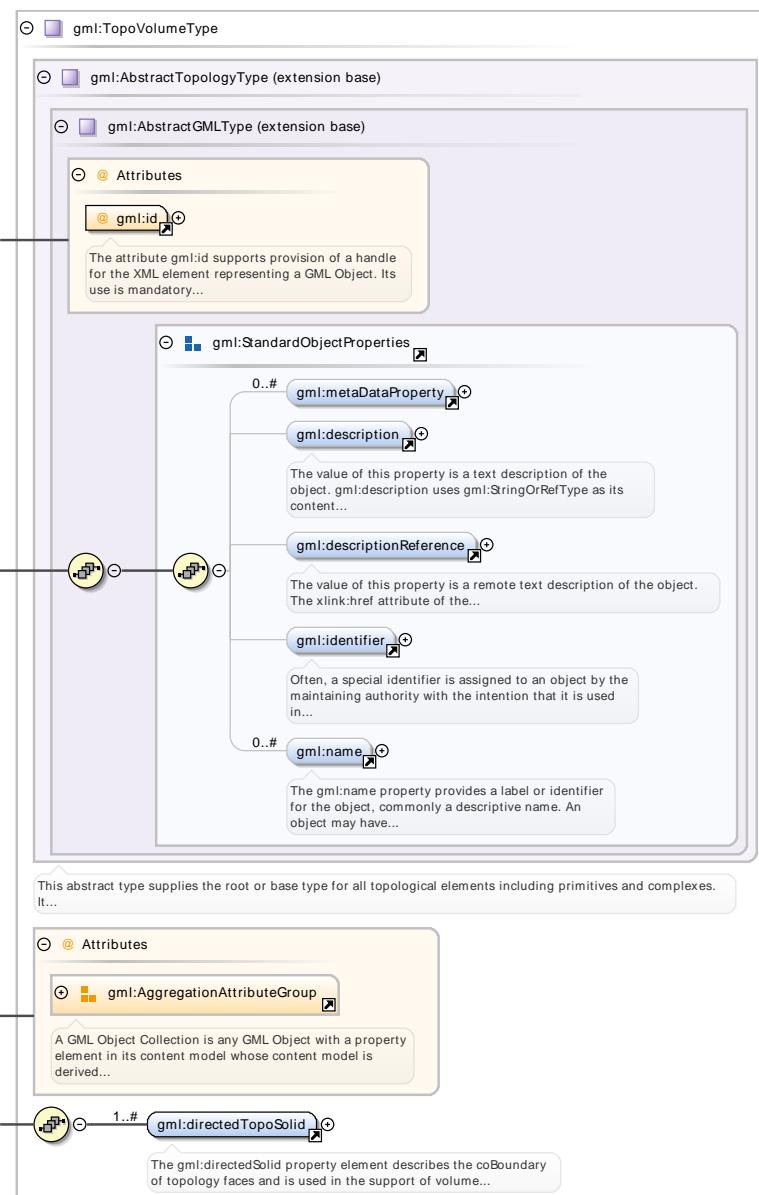
Namespace	http://www.opengis.net/gml/3.2
Annotations	The <code>gml:topoSurfaceProperty</code> property element may be used in features to express their relationship to the referenced topology faces.

Diagram	<p>The <code>gml:topoSurfaceProperty</code> property element may be used in features to express their relationship to the referenced...</p> <p>Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...</p> <p><code>gml:TopoSurface</code> represents a homogeneous topological expression, a set of directed faces, which if realised are...</p>								
Type	<code>gml:TopoSurfacePropertyType</code>								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>owns</code></td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	<code>owns</code>	boolean	false	optional
QName	Type	Default	Use						
<code>owns</code>	boolean	false	optional						

Element `gml:TopoVolume`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:TopoVolume</code> represents a homogeneous topological expression, a set of directed topologic solids, which if realised are isomorphic to a geometric solid primitive. The intended use of <code>gml:TopoVolume</code> is to appear within a solid feature to express the structural and geometric relationships of this solid feature to other features via the shared solid definitions.

Diagram



Type	<code>gml:TopoVolumeType</code>												
Properties	content: complex												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td>optional</td> </tr> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use											
<code>aggregationType</code>	<code>gml:AggregationType</code>	optional											
<code>gml:id</code>	ID	required											
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.												

Element `gml:topoVolumeProperty`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The <code>gml:topoVolumeProperty</code> element may be used in features to express their relationship to the referenced topology volume.

Diagram									
Type	gml:TopoVolumePropertyType								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

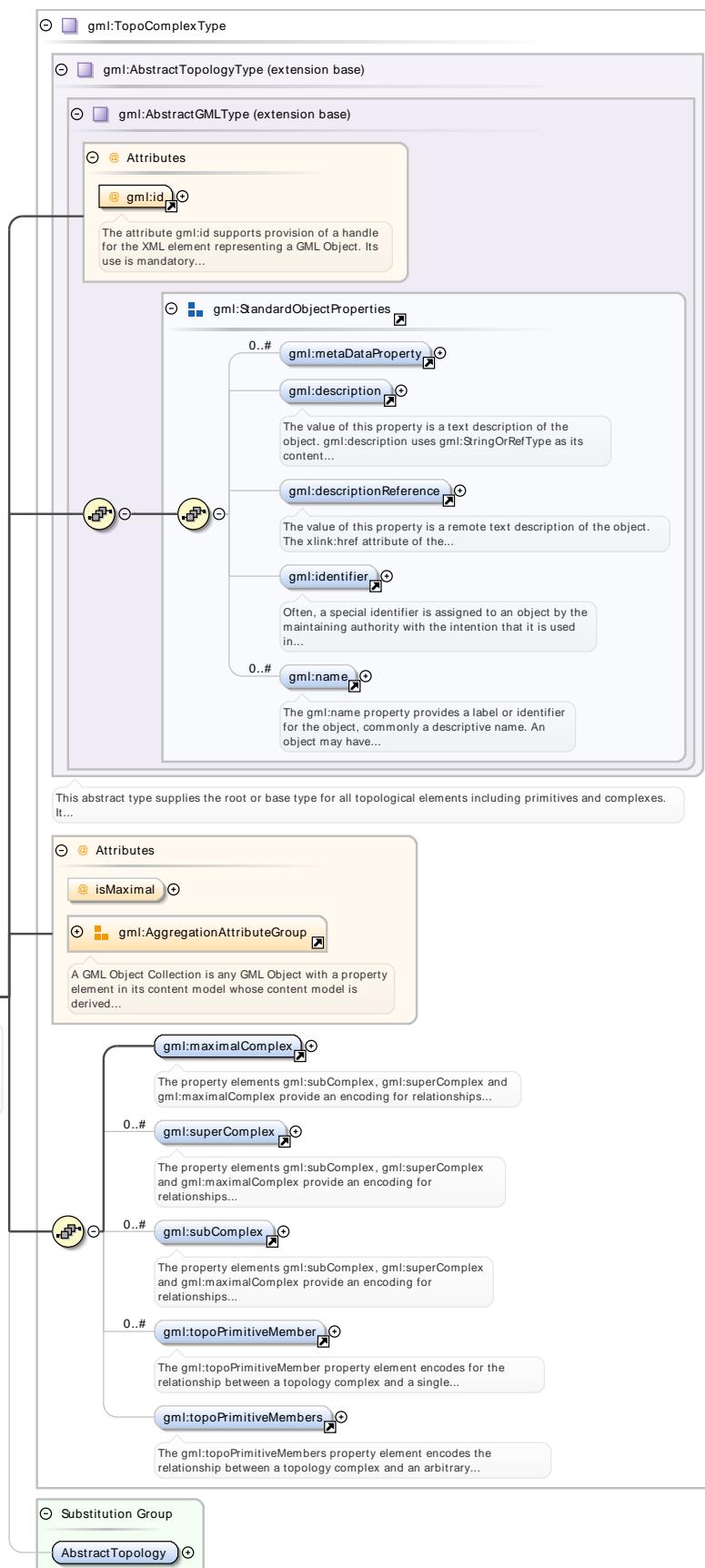
Element **gml:maximalComplex**

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	The property elements gml:subComplex, gml:superComplex and gml:maximalComplex provide an encoding for relationships between topology complexes as described for gml:TopoComplex above.																																								
Diagram																																									
Type	gml:TopoComplexPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
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xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:TopoComplex**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:TopoComplex is a collection of topological primitives. Each complex holds a reference to its maximal complex (gml:maximalComplex) and optionally to sub- or super-complexes (gml:subComplex, gml:superComplex). A topology complex contains its primitive and sub-complex members.

Diagram



Type	<code>gml:TopoComplexType</code>
Properties	content: complex

Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractTopology</code> 				
Attributes	QName	Type	Default	Use	
	<code>aggregationType</code>	<code>gml:AggregationType</code>		optional	
	<code>gml:id</code>	<code>ID</code>		required	
		<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code>, so is constrained to be unique in the XML document within which it occurs.</p>			
	<code>isMaximal</code>	<code>boolean</code>	<code>false</code>	optional	

Element `gml:superComplex`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<p>The property elements <code>gml:subComplex</code>, <code>gml:superComplex</code> and <code>gml:maximalComplex</code> provide an encoding for relationships between topology complexes as described for <code>gml:TopoComplex</code> above.</p>				
Diagram	<p>The diagram illustrates the structure of <code>gml:TopoComplexPropertyType</code>. It shows a main box for <code>gml:TopoComplexPropertyType</code> containing an <code>Attributes</code> section with a <code>gml:AssociationAttributeGroup</code>. A callout box provides a detailed description of XLink components. Another callout box describes <code>gml:TopoComplex</code> as a collection of topological primitives. A separate box for <code>superComplex</code> is connected to the main structure, with a callout explaining its relationship to the other property elements.</p>				
Type	<code>gml:TopoComplexPropertyType</code>				
Properties	<p>content: complex</p>				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	<code>anyURI</code>		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Element `gml:subComplex`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<p>The property elements <code>gml:subComplex</code>, <code>gml:superComplex</code> and <code>gml:maximalComplex</code> provide an encoding for relationships between topology complexes as described for <code>gml:TopoComplex</code> above.</p>				

Diagram	<p>The diagram illustrates the structure of the gml:TopoComplexPropertyType. It is a complex type with attributes. One attribute is a gml:AssociationAttributeGroup, which is described as supporting hypertext referencing in XML. Another attribute is a gml:OwnershipAttributeGroup, which is described as encoding a GML property inline vs. by-reference. The type itself is described as a collection of topological primitives, with each complex holding a reference to its maximal complex.</p>																																								
Type	gml:TopoComplexPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
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xlink:actuate	xlink:actuateType		optional																																						
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xlink:href	xlink:hrefType		optional																																						
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:topoPrimitiveMember

Namespace	http://www.opengis.net/gml/3.2																																		
Annotations	The gml:topoPrimitiveMember property element encodes for the relationship between a topology complex and a single topology primitive.																																		
Diagram	<p>The diagram illustrates the structure of the gml:TopoPrimitiveMemberType. It is a complex type with attributes. One attribute is a gml:AssociationAttributeGroup, which is described as supporting hypertext referencing in XML. Another attribute is a gml:OwnershipAttributeGroup, which is described as encoding a GML property inline vs. by-reference. The type itself is described as a base type for all topological primitives, with topology primitives being the atomic...</p>																																		
Type	gml:TopoPrimitiveMemberType																																		
Properties	content: complex																																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional				
QName	Type	Fixed	Default	Use																															
gml:remoteSchema	anyURI			optional																															
nilReason	gml:NilReasonType			optional																															
owns	boolean		false	optional																															
xlink:actuate	xlink:actuateType			optional																															
xlink:arcrole	xlink:arcroleType			optional																															

QName	Type	Fixed	Default	Use
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Element **gml:topoPrimitiveMembers**

Namespace	http://www.opengis.net/gml/3.2											
Annotations	The gml:topoPrimitiveMembers property element encodes the relationship between a topology complex and an arbitrary number of topology primitives.											
Diagram												
Type	gml:TopoPrimitiveArrayAssociationType											
Properties	content: complex											
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>				QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use									
owns	boolean	false	optional									

Element **gml:GeometricComplexType / gml:element**

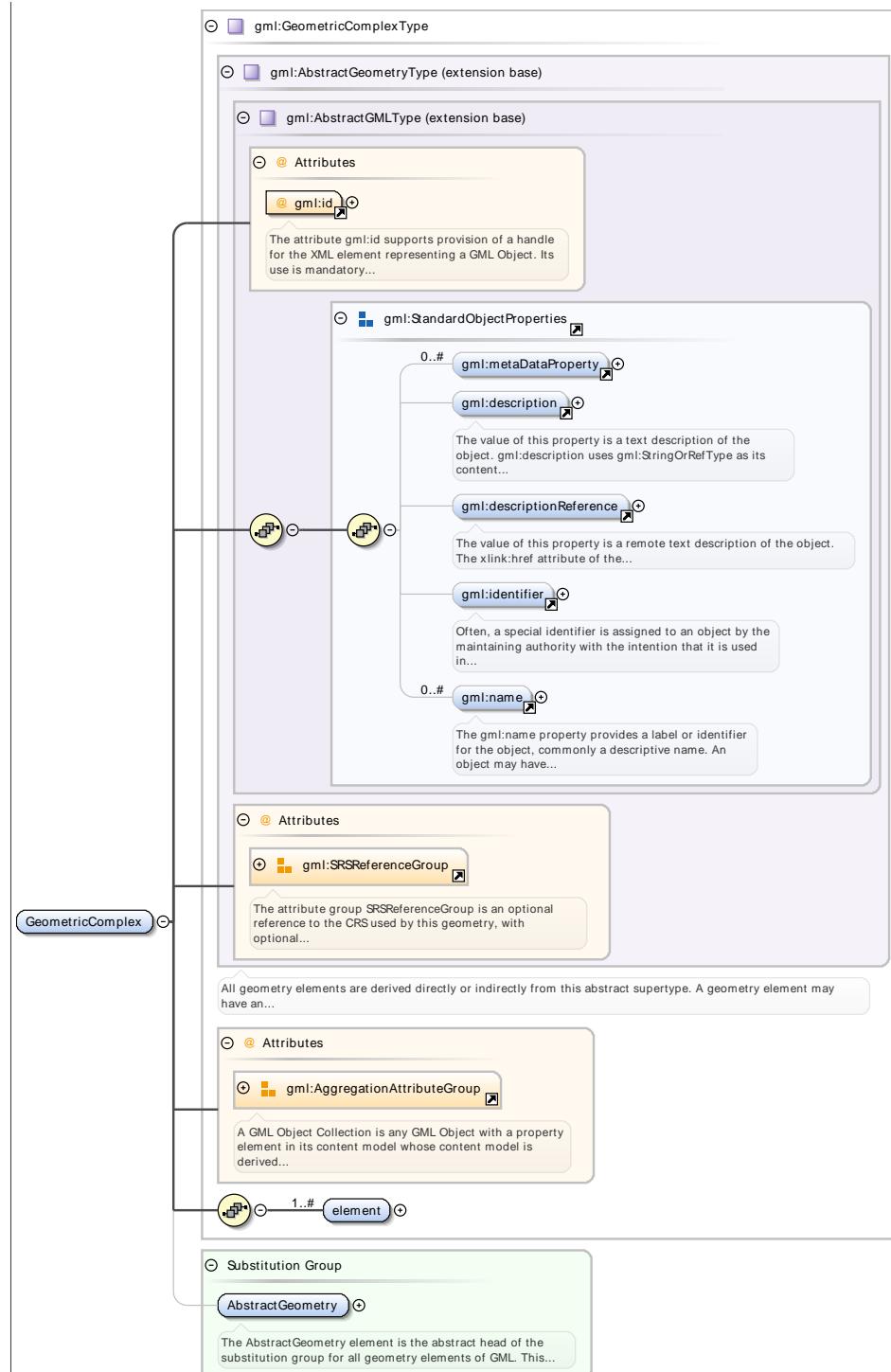
Namespace	http://www.opengis.net/gml/3.2																		
Diagram																			
Type	gml:GeometricPrimitivePropertyType																		
Properties	content: complex maxOccurs: unbounded																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> </tbody> </table>				QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional
QName	Type	Fixed	Default	Use															
gml:remoteSchema	anyURI			optional															
nilReason	gml:NilReasonType			optional															

QName	Type	Fixed	Default	Use	
owns	boolean		false	optional	
xlink:actuate	xlink:actuateType			optional	
xlink:arcrole	xlink:arcroleType			optional	
xlink:href	xlink:hrefType			optional	
xlink:role	xlink:roleType			optional	
xlink:show	xlink:showType			optional	
xlink:title	xlink:titleAttrType			optional	
xlink:type	xlink:typeType	simple		optional	

Element **gml:GeometricComplex**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



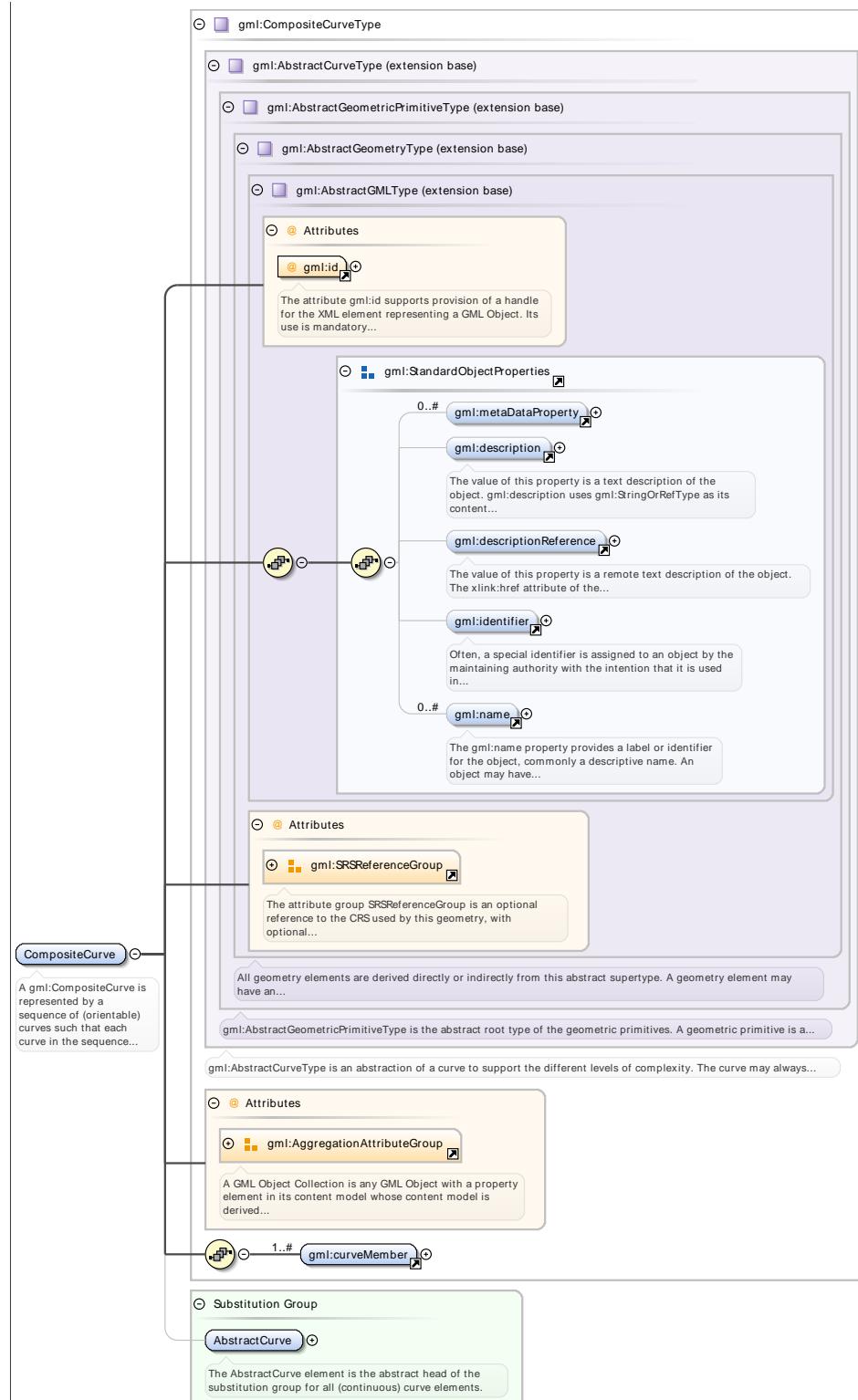
Type	<code>gml:GeometricComplexType</code>												
Properties	content: <code>complex</code>												
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractGeometry</code> 												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td>optional</td> </tr> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>gml:id</code>	ID	required
QName	Type	Use											
<code>aggregationType</code>	<code>gml:AggregationType</code>	optional											
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional											
<code>gml:id</code>	ID	required											

QName	Type	Use	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
uomLabels	gml:NCNameList	optional	

Element **gml:CompositeCurve**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:CompositeCurve is represented by a sequence of (orientable) curves such that each curve in the sequence terminates at the start point of the subsequent curve in the list. curveMember references or contains inline one curve in the composite curve. The curves are contiguous, the collection of curves is ordered. Therefore, if provided, the aggregationType attribute shall have the value "sequence".

Diagram



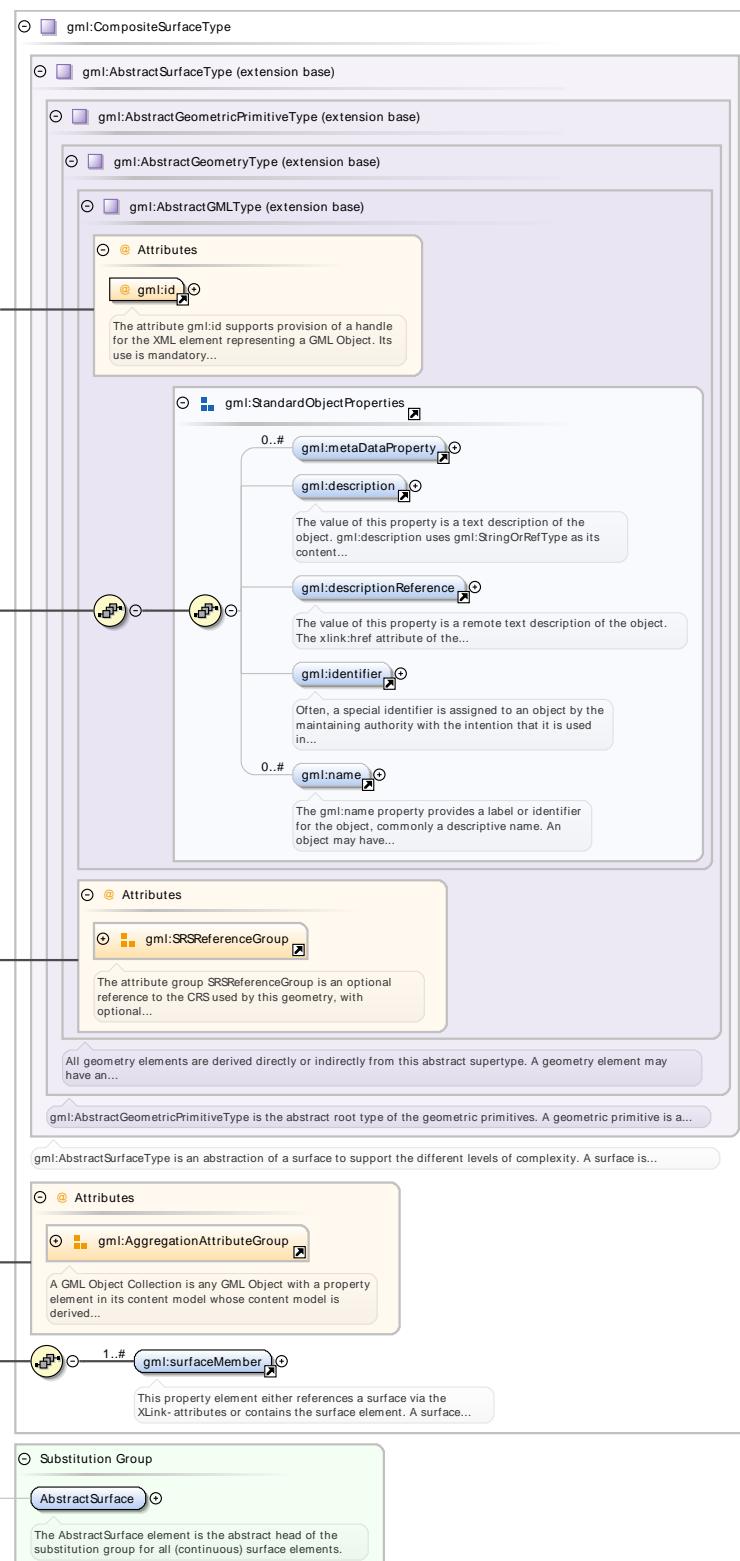
Type	gm:CompositeCurveType									
Properties	content: complex									
Substitution Group Affiliation	• gm:AbstractCurve									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>aggregationType</td> <td>gm:AggregationType</td> <td>optional</td> </tr> <tr> <td>axisLabels</td> <td>gm:NCNameList</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	aggregationType	gm:AggregationType	optional	axisLabels	gm:NCNameList	optional
QName	Type	Use								
aggregationType	gm:AggregationType	optional								
axisLabels	gm:NCNameList	optional								

QName	Type	Use	
gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
uomLabels	gml:NCNameList	optional	

Element **gml:CompositeSurface**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:CompositeSurface is represented by a set of orientable surfaces. It is geometry type with all the geometric properties of a (primitive) surface. Essentially, a composite surface is a collection of surfaces that join in pairs on common boundary curves and which, when considered as a whole, form a single surface. surfaceMember references or contains inline one surface in the composite surface. The surfaces are contiguous.

Diagram



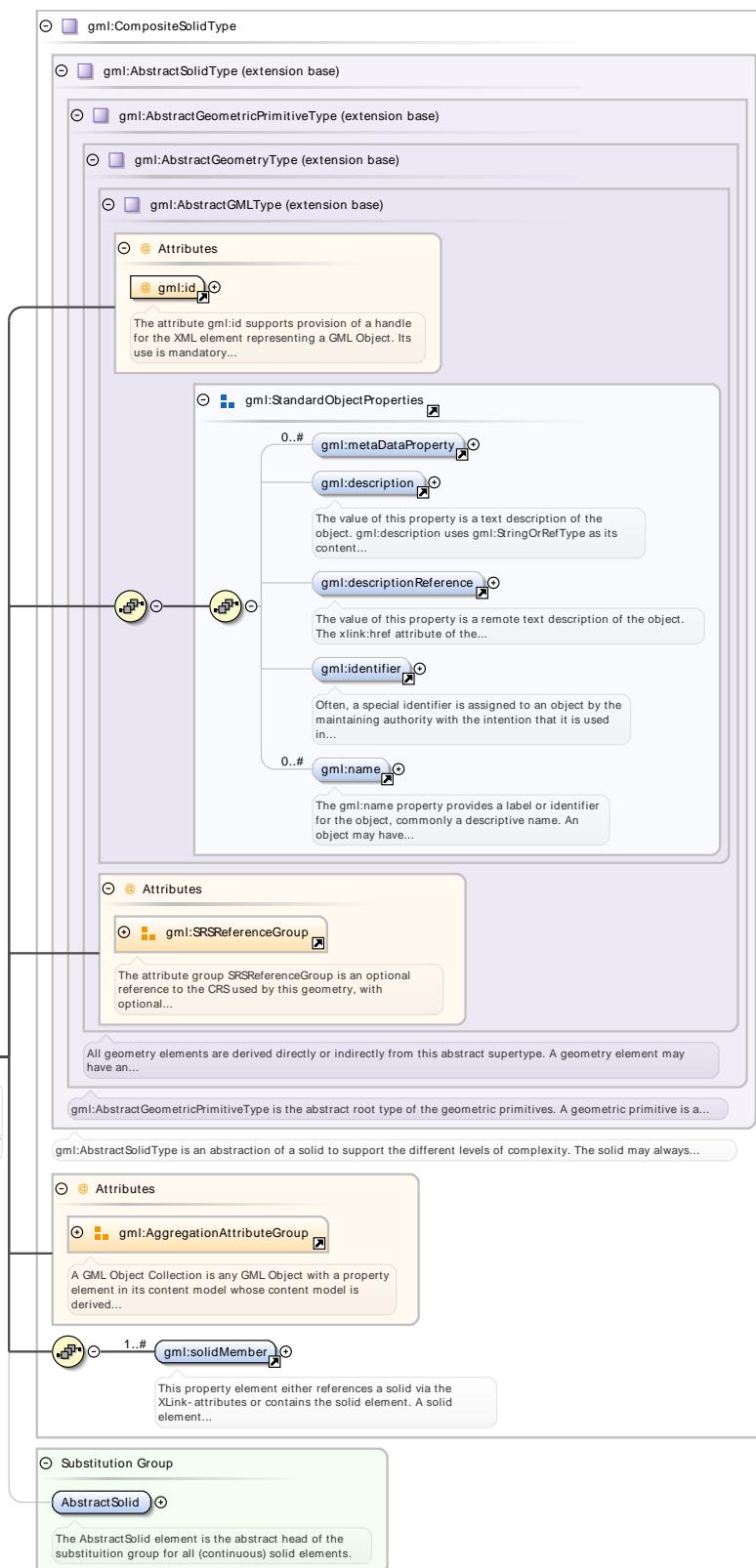
Type	<code>gml:CompositeSurfaceType</code>						
Properties	content: complex						
Substitution Group Affiliation	• <code>gml:AbstractSurface</code>						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td><td><code>gml:AggregationType</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
QName	Type	Use					
<code>aggregationType</code>	<code>gml:AggregationType</code>	optional					

QName	Type	Use	
axisLabels	gml:NCNameList	optional	
gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
uomLabels	gml:NCNameList	optional	

Element **gml:CompositeSolid**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:CompositeSolid implements ISO 19107 GM_CompositeSolid (see ISO 19107:2003, 6.6.7) as specified in D.2.3.6. A gml:CompositeSolid is represented by a set of orientable surfaces. It is a geometry type with all the geometric properties of a (primitive) solid. Essentially, a composite solid is a collection of solids that join in pairs on common boundary surfaces and which, when considered as a whole, form a single solid. solidMember references or contains one solid in the composite solid. The solids are contiguous.

Diagram



Type	<code>gml:CompositeSolidType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractSolid</code>

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element **gml:domainSet**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>The gml:domainSet property element describes the spatio-temporal region of interest, within which the coverage is defined. Its content model is given by gml:DomainSetType. The value of the domain is thus a choice between a gml:AbstractGeometry and a gml:AbstractTimeObject. In the instance these abstract elements will normally be substituted by a geometry complex or temporal complex, to represent spatial coverages and time-series, respectively. The presence of the gml:AssociationAttributeGroup means that domainSet follows the usual GML property model and may use the xlink:href attribute to point to the domain, as an alternative to describing the domain inline. Ownership semantics may be provided using the gml:OwnershipAttributeGroup.</p>
Diagram	<p>The diagram illustrates the UML class gml:DomainSetType. It features two attribute compartments: gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup. The class also defines two substitution groups: gml:AbstractGeometry and gml:AbstractTimeObject. Below the class, a list of domain types is provided, each with a plus sign icon indicating they are substitutable.</p> <pre> classDiagram class gml:DomainSetType { gml:OwnershipAttributeGroup gml:AssociationAttributeGroup } gml:DomainSetType --> gml:AbstractGeometry gml:DomainSetType --> gml:AbstractTimeObject gml:DomainSetType --> gridDomain gml:DomainSetType --> multiCurveDomain gml:DomainSetType --> multiPointDomain gml:DomainSetType --> multiSolidDomain gml:DomainSetType --> multiSurfaceDomain gml:DomainSetType --> rectifiedGridDomain </pre>
Type	gml:DomainSetType
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> gml:multiPointDomain gml:multiCurveDomain gml:multiSurfaceDomain gml:multiSolidDomain gml:gridDomain

	• gml:rectifiedGridDomain					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

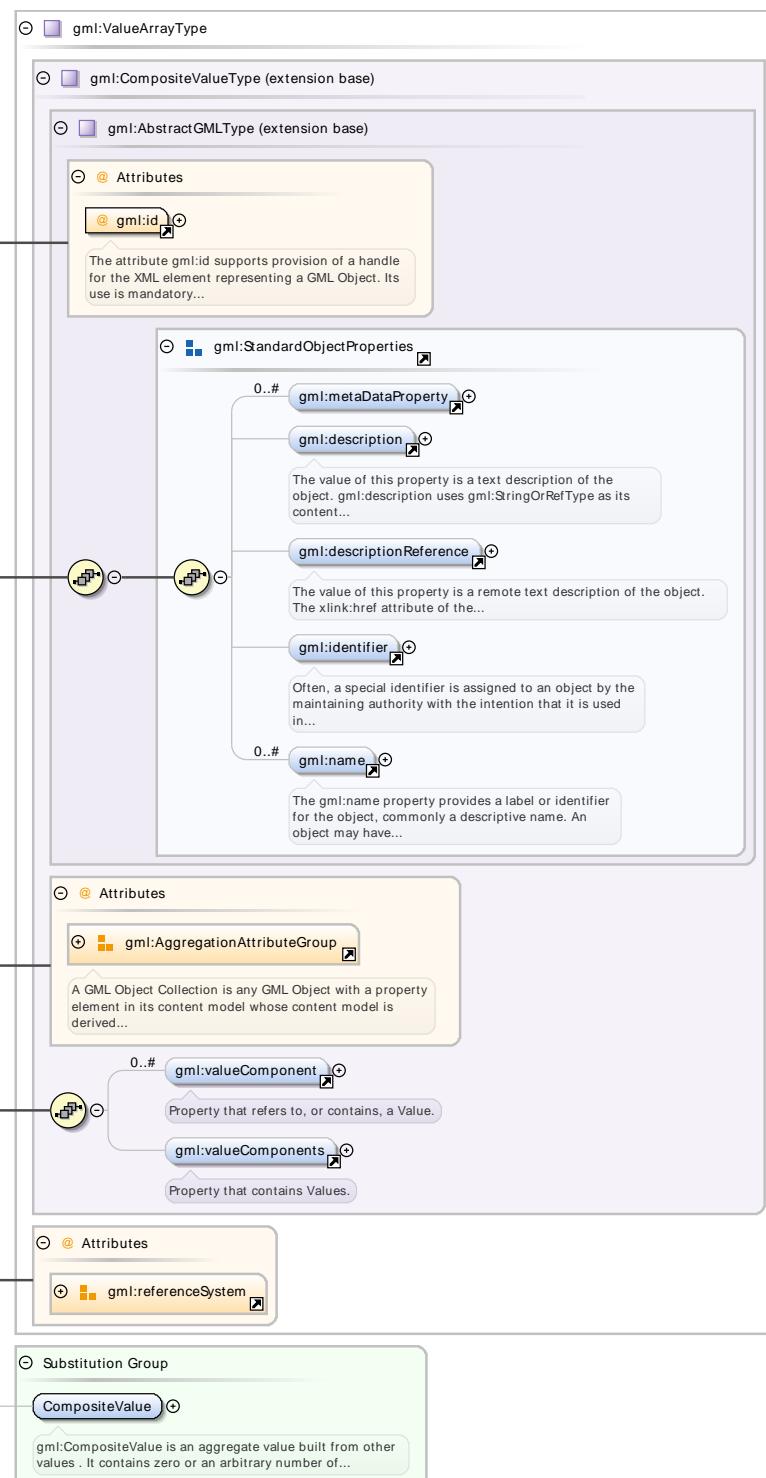
Element **gml:rangeSet**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>The gml:rangeSet property element contains the values of the coverage (sometimes called the attribute values). Its content model is given by gml:RangeSetType. This content model supports a structural description of the range. The semantic information describing the range set is embedded using a uniform method, as part of the explicit values, or as a template value accompanying the representation using gml:DataBlock and gml:File. The values from each component (or "band") in the range may be encoded within a gml:ValueArray element or a concrete member of the gml:AbstractScalarValueList substitution group. Use of these elements satisfies the value-type homogeneity requirement.</p>
Diagram	<p>The gml:rangeSet property element contains the values of the coverage (sometimes called the attribute values). Its...</p>
Type	gml:RangeSetType
Properties	content: complex

Element **gml:ValueArray**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A Value Array is used for homogeneous arrays of primitive and aggregate values. The member values may be scalars, composites, arrays or lists. ValueArray has the same content model as CompositeValue, but the member values shall be homogeneous. The element declaration contains a Schematron constraint which expresses this restriction precisely. Since the members are homogeneous, the gml:referenceSystem (uom, codeSpace) may be specified on the gml:ValueArray itself and inherited by all the members if desired.</p>

Diagram



Type	<code>gml:ValueArrayType</code>
Properties	content: complex
Substitution Group	• <code>gml:CompositeValue</code>
Affiliation	

Attributes	QName	Type	Use	
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional	
	<code>codeSpace</code>	<code>anyURI</code>	optional	
	<code>gml:id</code>	<code>ID</code>	required	

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
uom	gml:UomIdentifier	optional

Element **gml:valueComponent**

Namespace	http://www.opengis.net/gml/3.2																																																							
Annotations	Property that refers to, or contains, a Value.																																																							
Diagram	<p>The diagram illustrates the structure of the gml:valueComponent element. It is a property type (gml:ValuePropertyType) with attributes for Association and Ownership. It points to the gml:Value element, which is an abstract element. The gml:Value element has three substitution groups: gml:AbstractValue, gml:AbstractGeometry, and gml:AbstractTimeObject. Additionally, gml:Null is shown as a choice group.</p>																																																							
Type	gml:ValuePropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:AbstractValue**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:AbstractValue is an abstract element which acts as the head of a substitution group which contains gml:AbstractScalarValue , gml:AbstractScalarValueList , gml:CompositeValue and gml:ValueExtent , and (transitively) the elements in their substitution

groups. These elements may be used in an application schema as variables, so that in an XML instance document any member of its substitution group may occur.

Diagram	<p>The diagram illustrates the structure of the <code>anyType</code> element and its substitution group members. It shows a tree of elements with annotations:</p> <ul style="list-style-type: none"> anyType (represented by a purple square icon) has an attribute <code>@ Attributes</code> containing <code>##any</code>. Substitutions (represented by a green rounded rectangle) contains: <ul style="list-style-type: none"> AbstractScalarValue (with a note: "gml:AbstractScalarValue is an abstract element which acts as the head of a substitution group which contains...") AbstractScalarValueList (with a note: "gml:AbstractScalarValueList is an abstract element which acts as the head of a substitution group which contains...") CategoryExtent CompositeValue (with a note: "gml:CompositeValue is an aggregate value built from other values. It contains zero or an arbitrary number of...") CountExtent QuantityExtent Substitution Group (represented by a green rounded rectangle) contains AbstractObject (with a note: "This element has no type defined, and is therefore implicitly (according to the rules of W3C XML Schema) an XML Schema...")
Properties	<p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> • <code>gml:Boolean</code> • <code>gml:Category</code> • <code>gml:Count</code> • <code>gml:Quantity</code> • <code>gml:AbstractScalarValue</code> • <code>gml:BooleanList</code> • <code>gml:CategoryList</code> • <code>gml:CountList</code> • <code>gml:QuantityList</code> • <code>gml:AbstractScalarValueList</code> • <code>gml:CompositeValue</code> • <code>gml:ValueArray</code> • <code>gml:CategoryExtent</code> • <code>gml:CountExtent</code> • <code>gml:QuantityExtent</code>

Substitution Group	• <code>gml:AbstractObject</code>
Affiliation	

Element `gml:valueComponents`

Namespace	http://www.opengis.net/gml/3.2									
Annotations	Property that contains Values.									
Diagram	<p><code>valueComponents</code> Property that contains Values.</p> <p>1..#</p> <p>This is a convenience choice group which unifies generic values defined in this Clause with spatial and temporal...</p>									
Type	<code>gml:ValueArrayType</code>									
Properties	content: complex									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>owns</code></td> <td>boolean</td> <td>false</td> <td>optional</td> </tr> </tbody> </table>		QName	Type	Default	Use	<code>owns</code>	boolean	false	optional
QName	Type	Default	Use							
<code>owns</code>	boolean	false	optional							

Element `gml:AbstractScalarValueList`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<p><code>gml:AbstractScalarValueList</code> is an abstract element which acts as the head of a substitution group which contains <code>gml:BooleanList</code>, <code>gml:CategoryList</code>, <code>gml:CountList</code> and <code>gml:QuantityList</code>, and (transitively) the elements in their substitution groups.</p>		

Diagram	<p>Diagram illustrating the schema structure for <code>anyType</code>:</p> <ul style="list-style-type: none"> <code>anyType</code> is an abstract type with attributes. It has a substitution group with 0..# occurrences of <code>any</code>. The substitution group includes <code>AbstractScalarValueList</code> and <code>AbstractValue</code>. <code>AbstractScalarValueList</code> is an abstract element which acts as the head of a substitution group which contains <code>BooleanList</code>, <code>CategoryList</code>, <code>CountList</code>, and <code>QuantityList</code>. <code>AbstractValue</code> is an abstract element which acts as the head of a substitution group which contains <code>AbstractScalarValueList</code>.
Properties	abstract: true
Substitution Group	<ul style="list-style-type: none"> • <code>gml:BooleanList</code> • <code>gml:CategoryList</code> • <code>gml:CountList</code> • <code>gml:QuantityList</code>
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractValue</code>

Element `gml:DataBlock`

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:DataBlock describes the Range as a block of text encoded values similar to a Common Separated Value (CSV) representation. The range set parameterization is described by the property <code>gml:rangeParameters</code> .
Diagram	<p>Diagram illustrating the schema structure for <code>gml:DataBlockType</code>:</p> <ul style="list-style-type: none"> <code>gml:DataBlockType</code> is a type with properties <code>gml:rangeParameters</code> and <code>gml:tupleList</code>. <code>gml:rangeParameters</code> is a property of <code>gml:DataBlockType</code>. <code>gml:tupleList</code> is a property of <code>gml:DataBlockType</code>. <code>gml:tupleList</code> has a substitution group for <code>gml:CoordinatesType</code> and <code>gml:doubleOrNilReasonTupleList</code>. <code>gml:CoordinatesType</code> consists of a list of coordinate tuples, with each coordinate tuple separated by the ts or tuple... <code>gml:doubleOrNilReasonTupleList</code> consists of a list of <code>gml:doubleOrNilReason</code> values, each separated by a whitespace. The... <code>gml:DataBlock</code> is an element which acts as the head of a substitution group which contains <code>AbstractObject</code>. <code>AbstractObject</code> is an element which has no type defined, and is therefore implicitly (according to the rules of W3C XML Schema) an XML Schema...
Type	<code>gml:DataBlockType</code>
Properties	content: complex

Substitution Group	• <code>gml:AbstractObject</code>
Affiliation	

Element `gml:rangeParameters`

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram shows the inheritance path of <code>gml:rangeParameters</code> from <code>gml:AssociationRoleType</code>. It highlights the <code>gml:OwnershipAttributeGroup</code> and <code>gml:AssociationAttributeGroup</code> attributes. A note states: "Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or..." and "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...".</p>																																																							
Type	<code>gml:AssociationRoleType</code>																																																							
Properties	content: complex																																																							
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Element `gml:tupleList`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:CoordinatesType</code> consists of a list of coordinate tuples, with each coordinate tuple separated by the <code>ts</code> or tuple separator (whitespace), and each coordinate in the tuple by the <code>cs</code> or coordinate separator (comma). The <code>gml:tupleList</code> encoding is effectively "band-interleaved".
Diagram	<p>The diagram shows the inheritance path of <code>gml:tupleList</code> from <code>gml:CoordinatesType</code>. It highlights the <code>string</code> type and attributes <code>@ decimal</code>, <code>@ cs</code>, and <code>@ ts</code>. A note states: "Built-in primitive type. The string datatype represents character strings in XML." and "This type is deprecated for tuples with ordinate values that are numbers. CoordinatesType is a text string, intended to...".</p>
Type	<code>gml:CoordinatesType</code>

Properties	content: complex				
Attributes	QName	Type	Default	Use	
	cs	string	,	optional	
	decimal	string	.	optional	
	ts	string		optional	

Element **gml:doubleOrNilReasonTupleList**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:doubleOrNilReasonList consists of a list of gml:doubleOrNilReason values, each separated by a whitespace. The gml:doubleOrNilReason values are grouped into tuples where the dimension of each tuple in the list is equal to the number of range parameters.
Diagram	
Type	gml:doubleOrNilReasonList
Properties	content: simple

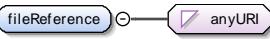
Element **gml:File**

Namespace	http://www.opengis.net/gml/3.2
Annotations	for efficiency reasons, GML also provides a means of encoding the range set in an arbitrary external encoding, such as a binary file. This encoding may be "well-known" but this is not required. This mode uses the gml:File element. The values of the coverage (attribute values in the range set) are transmitted in a external file that is referenced from the XML structure described by gml:FileType. The external file is referenced by the gml:fileReference property that is an anyURI (the gml:fileName property has been deprecated). This means that the external file may be located remotely from the referencing GML instance. The gml:compression property points to a definition of a compression algorithm through an anyURI. This may be a retrievable, computable definition or simply a reference to an unambiguous name for the compression method. The gml:mimeType property points to a definition of the file mime type. The gml:fileStructure property is defined by a codelist. Note further that all values shall be enclosed in a single file. Multi-file structures for values are not supported in GML. The semantics of the range set is described as above using the gml:rangeParameters property. Note that if any compression algorithm is applied, the structure above applies only to the pre-compression or post-decompression structure of the file. Note that the fields within a record match the gml:valueComponents of the gml:CompositeValue in document order.
Diagram	<p>for efficiency reasons, GML also provides a means of encoding the range set in an arbitrary external encoding, such as...</p>
Type	gml:FileType
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractObject

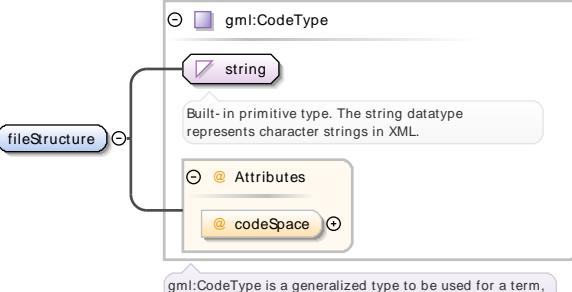
Element `gml:FileType / gml:fileName`

Namespace	http://www.opengis.net/gml/3.2
Diagram	 <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>
Type	anyURI
Properties	content: simple

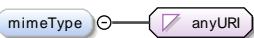
Element `gml:FileType / gml:fileReference`

Namespace	http://www.opengis.net/gml/3.2
Diagram	 <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>
Type	anyURI
Properties	content: simple

Element `gml:FileType / gml:fileStructure`

Namespace	http://www.opengis.net/gml/3.2								
Diagram	 <p>gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,....</p>								
Type	gml:CodeType								
Properties	content: complex								
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Use</td> <td></td> </tr> <tr> <td>codeSpace</td> <td>anyURI</td> <td>optional</td> <td></td> </tr> </table>	QName	Type	Use		codeSpace	anyURI	optional	
QName	Type	Use							
codeSpace	anyURI	optional							

Element `gml:FileType / gml:mimeType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	 <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>				
Type	anyURI				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element `gml:FileType / gml:compression`

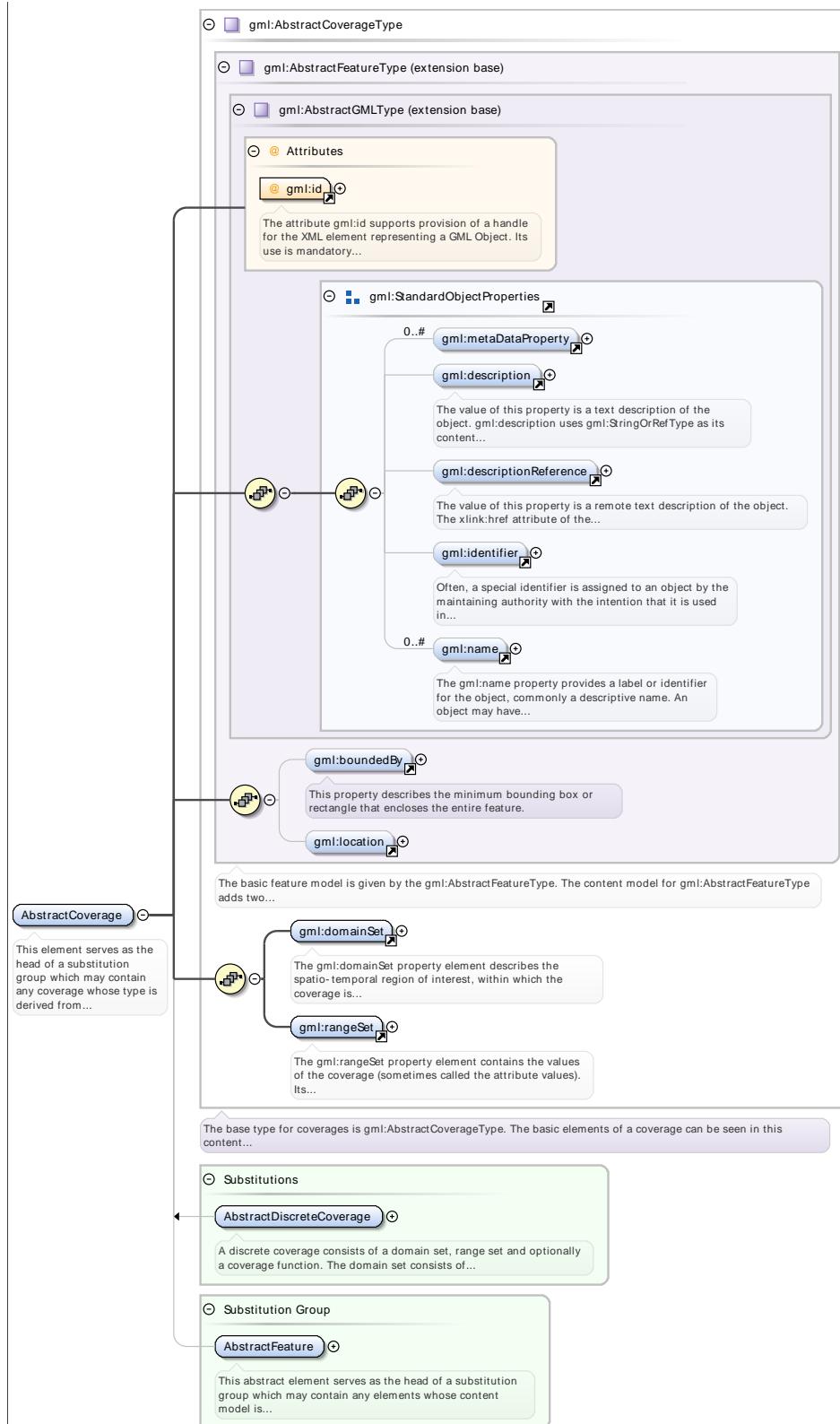
Namespace	http://www.opengis.net/gml/3.2
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Diagram	 <p>A UML class diagram fragment showing a dependency relationship. A rounded rectangle labeled 'compression' has a line with an open diamond head pointing to a rounded rectangle labeled 'anyURI'. A callout box with a light gray border and a thin gray arrow points from the text 'Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).' to the 'anyURI' box.</p>				
Type	anyURI				
Properties	<table><tr><td>content:</td><td>simple</td></tr><tr><td>minOccurs:</td><td>0</td></tr></table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element **gml:AbstractCoverage**

Namespace	http://www.opengis.net/gml/3.2
Annotations	This element serves as the head of a substitution group which may contain any coverage whose type is derived from gml:AbstractCoverageType. It may act as a variable in the definition of content models where it is required to permit any coverage to be valid.

Diagram



Type	gm:AbstractCoverageType
Properties	<p>content: complex</p> <p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> gm:AbstractDiscreteCoverage gm:MultiPointCoverage gm:MultiCurveCoverage

	<ul style="list-style-type: none"> • gml:MultiSurfaceCoverage • gml:MultiSolidCoverage • gml:GridCoverage • gml:RectifiedGridCoverage 												
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractFeature 												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>ID</td><td>required</td><td></td></tr> <tr> <td></td><td colspan="3">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use		gml:id	ID	required			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
QName	Type	Use											
gml:id	ID	required											
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.												

Element `gml:coverageFunction`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The gml:coverageFunction property describes the mapping function from the domain to the range of the coverage. The value of the CoverageFunction is one of gml:CovarianceMappingRule and gml:GridFunction. If the gml:coverageFunction property is omitted for a gridded coverage (including rectified gridded coverages) the gml:startPoint is assumed to be the value of the gml:low property in the gml:Grid geometry, and the gml:sequenceRule is assumed to be linear and the gml:axisOrder property is assumed to be "+1 +2".
Diagram	
Type	gml:CovarianceFunctionType
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractObject

Element gml:MappingRule

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the structure of the <code>gml:StringOrRefType</code>. It starts with a root node <code>gml:StringOrRefType</code>, which branches into two main types: <code>string</code> and <code>Attributes</code>. The <code>string</code> type is described as a built-in primitive type representing character strings in XML. The <code>Attributes</code> type is described as an <code>AssociationAttributeGroup</code> that supports hypertext referencing in XML. A <code>MappingRule</code> is shown pointing to the <code>string</code> type.</p>

Type	gml:StringOrRefType			
Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:Cov erageMappingRule

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:Cov erageMappingRule provides a formal or informal description of the coverage function. The mapping rule may be defined as an in-line string (gml:ruleDefinition) or via a remote reference through xlink:href (gml:ruleReference). If no rule name is specified, the default is 'Linear' with respect to members of the domain in document order.
Diagram	
Type	gml:MappingRuleType
Properties	content: complex
Substitution Group	• gml:AbstractObject
Affiliation	

Element gml:MappingRuleType / gml:ruleDefinition

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	string
Properties	content: simple

Element gml:MappingRuleType / gml:ruleReference

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>gml:ReferenceType</p> <p>ruleReference</p> <p>gml:OwnershipAttributeGroup</p> <p>gml:AssociationAttributeGroup</p> <p>gml:ReferenceType is intended to be used in application schemas directly, if a property element shall use a...</p>																																																							
Type	gml:ReferenceType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gml:remoteSchema	anyURI			optional																																																				
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owns	boolean		false	optional																																																				
xlink:actuate	xlink:actuateType			optional																																																				
xlink:arcrole	xlink:arcroleType			optional																																																				
xlink:href	xlink:hrefType			optional																																																				
xlink:role	xlink:roleType			optional																																																				
xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element gml:GridFunction

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:GridFunction provides an explicit mapping rule for grid geometries, i.e. the domain shall be a geometry of type grid. It describes the mapping of grid posts (discrete point grid coverage) or grid cells (discrete surface coverage) to the values in the range set. The gml:startPoint is the index position of a point in the grid that is mapped to the first point in the range set (this is also the index position of the first grid post). If the gml:startPoint property is omitted the gml:startPoint is assumed to be equal to the value of gml:low in the gml:Grid geometry. Subsequent points in the mapping are determined by the value of the gml:sequenceRule.</p>
Diagram	<p>gml:GridFunction</p> <p>gml:GridFunction provides an explicit mapping rule for grid geometries, i.e. the domain shall be a geometry of type...</p> <p>gml:GridFunctionType</p> <p>sequenceRule</p> <p>startPoint</p> <p>AbstractObject</p> <p>This element has no type defined, and is therefore implicitly (according to the rules of W3C XML Schema) an XML Schema...</p>
Type	gml:GridFunctionType
Properties	content: complex
Substitution Group	• gml:AbstractObject
Affiliation	

Element **gml:GridFunctionType / gml:sequenceRule**

Namespace	http://www.opengis.net/gml/3.2									
Diagram	<p>The gml:SequenceRuleType is derived from the gml:SequenceRuleEnumeration through the addition of an axisOrder...</p>									
Type	gml:SequenceRuleType									
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0					
content:	complex									
minOccurs:	0									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>axisOrder</td> <td>gml:AxisDirectionList</td> <td>optional</td> </tr> <tr> <td>order</td> <td>gml:IncrementOrder</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	axisOrder	gml:AxisDirectionList	optional	order	gml:IncrementOrder	optional
QName	Type	Use								
axisOrder	gml:AxisDirectionList	optional								
order	gml:IncrementOrder	optional								

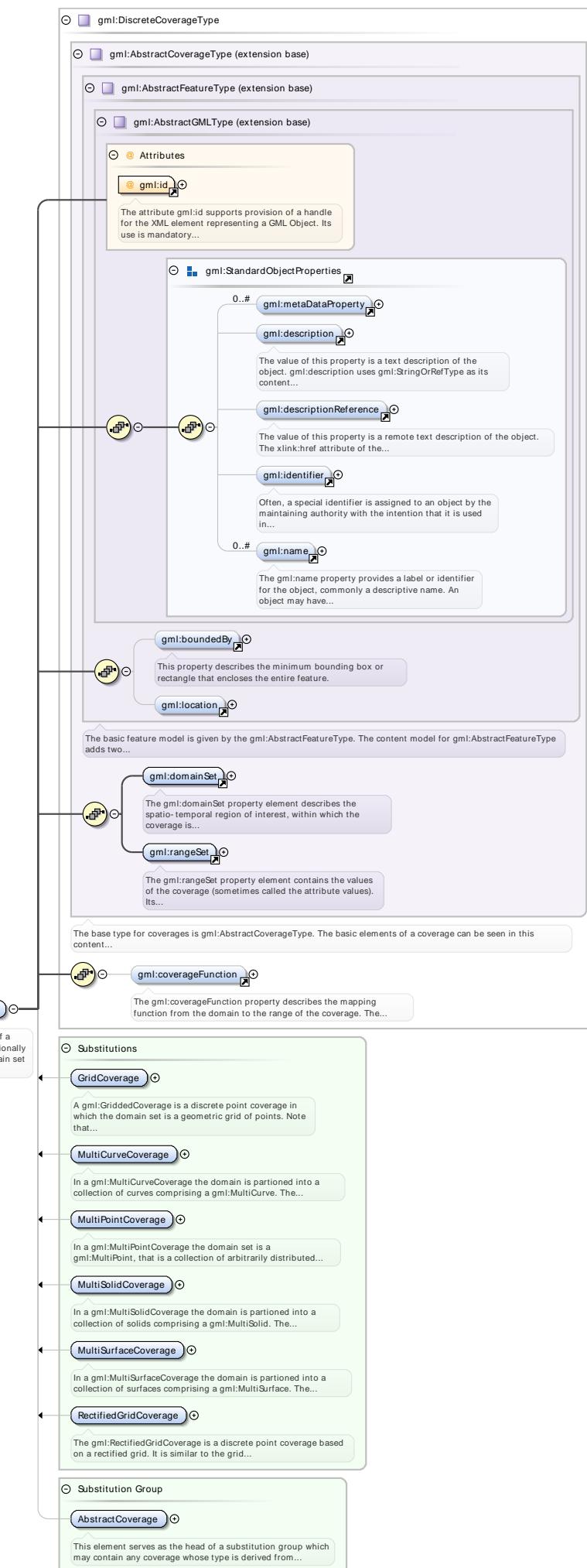
Element **gml:GridFunctionType / gml:startPoint**

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>A type for a list of values of the respective simple type.</p>				
Type	gml:integerList				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element **gml:AbstractDiscreteCoverage**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A discrete coverage consists of a domain set, range set and optionally a coverage function. The domain set consists of either spatial or temporal geometry objects, finite in number. The range set is comprised of a finite number of attribute values each of which is associated to every direct position within any single spatiotemporal object in the domain. In other words, the range values are constant on each spatiotemporal object in the domain. This coverage function maps each element from the coverage domain to an element in its range. The coverageFunction element describes the mapping function. This element serves as the head of a substitution group which may contain any discrete coverage whose type is derived from gml:DiscreteCoverageType.</p>

Diagram

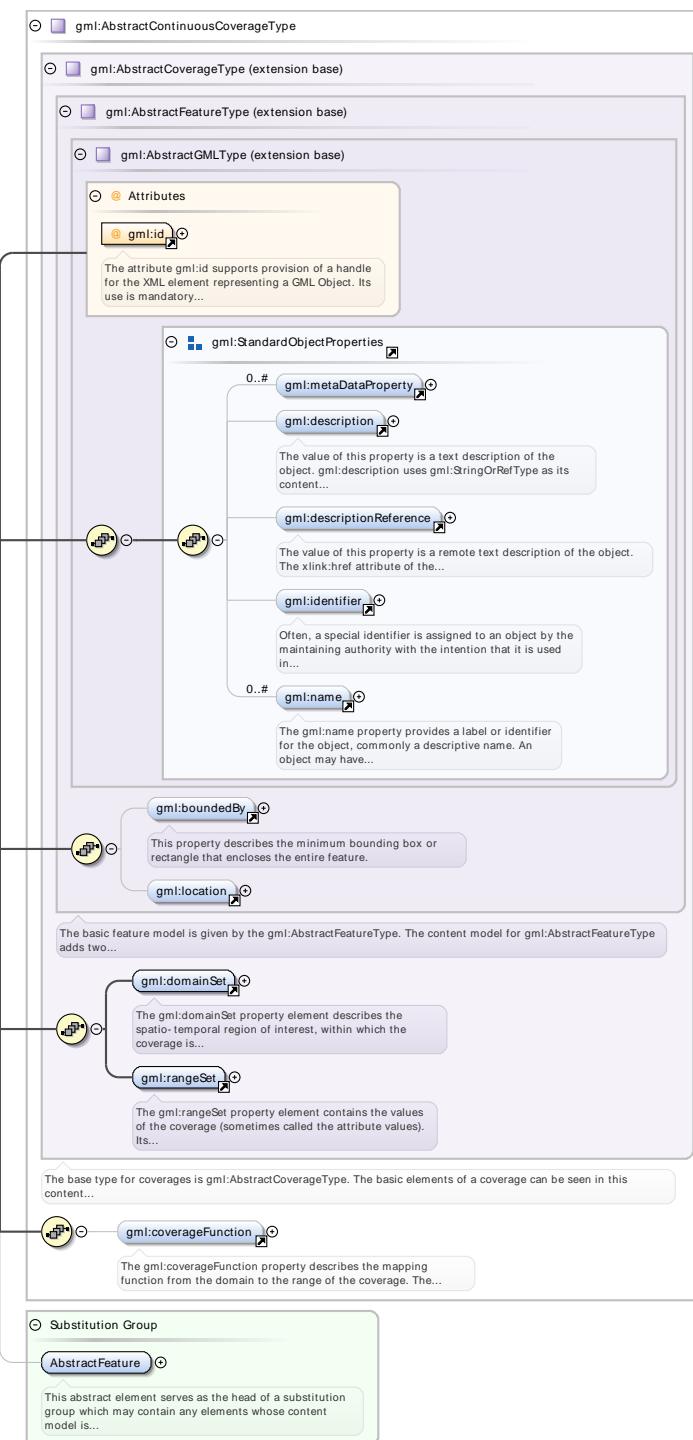


Type	gml:DiscreteCoverageType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> • gml:MultiPointCoverage • gml:MultiCurveCoverage • gml:MultiSurfaceCoverage • gml:MultiSolidCoverage • gml:GridCoverage • gml:RectifiedGridCoverage 		
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractCoverage 		
Attributes	QName gml:id	Type ID	Use required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element **gml:AbstractContinuousCoverage**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A continuous coverage as defined in ISO 19123 is a coverage that can return different values for the same feature attribute at different direct positions within a single spatiotemporal object in its spatiotemporal domain. The base type for continuous coverages is AbstractContinuousCoverageType. The coverageFunction element describes the mapping function. The abstract element gml:AbstractContinuousCoverage serves as the head of a substitution group which may contain any continuous coverage whose type is derived from gml:AbstractContinuousCoverageType.

Diagram



Type	<code>gml:AbstractContinuousCoverageType</code>									
Properties	<p>content: complex</p> <p>abstract: true</p>									
Substitution Group Affiliation	• <code>gml:AbstractFeature</code>									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
<code>gml:id</code>	ID	required								
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Element `gml:MultiPointCoverage`

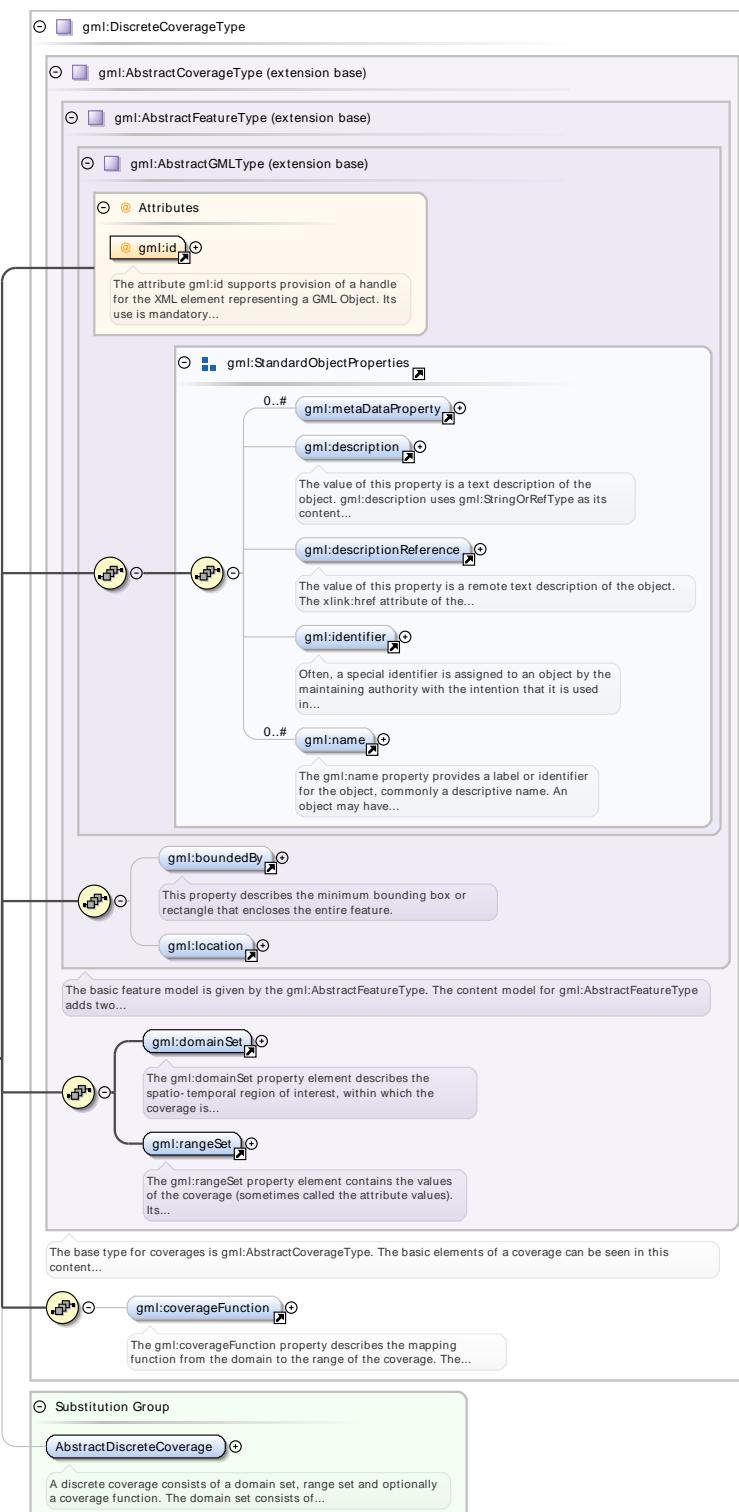
Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>In a <code>gml:MultiPointCoverage</code> the domain set is a <code>gml:MultiPoint</code>, that is a collection of arbitrarily distributed geometric points. The content model is identical with <code>gml:DiscreteCoverageType</code>, but that <code>gml:domainSet</code> shall have values <code>gml:MultiPoint</code>. In a <code>gml:MultiPointCoverage</code> the mapping from the domain to the range is straightforward. - For <code>gml:DataBlock</code> encodings the points of the <code>gml:MultiPoint</code> are mapped in document order to the tuples of the data block. - For <code>gml:CompositeValue</code> encodings the points of the <code>gml:MultiPoint</code> are mapped to the members of the composite value in document order. - For <code>gml:File</code> encodings the points of the <code>gml:MultiPoint</code> are mapped to the records of the file in sequential order.</p>
Diagram	
Type	<code>gml:DiscreteCoverageType</code>

Properties	content: complex										
Substitution Group Affiliation	• <code>gml:AbstractDiscreteCoverage</code>										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		<code>gml:id</code>	ID	required		<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	
QName	Type	Use									
<code>gml:id</code>	ID	required									

Element `gml:MultiCurveCoverage`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>In a <code>gml:MultiCurveCoverage</code> the domain is partitioned into a collection of curves comprising a <code>gml:MultiCurve</code>. The coverage function then maps each curve in the collection to a value in the range set. The content model is identical with <code>gml:DiscreteCoverageType</code>, but that <code>gml:domainSet</code> shall have values <code>gml:MultiCurve</code>. In a <code>gml:MultiCurveCoverage</code> the mapping from the domain to the range is straightforward.</p> <ul style="list-style-type: none"> - For <code>gml:DataBlock</code> encodings the curves of the <code>gml:MultiCurve</code> are mapped in document order to the tuples of the data block. - For <code>gml:CompositeValue</code> encodings the curves of the <code>gml:MultiCurve</code> are mapped to the members of the composite value in document order. - For <code>gml:File</code> encodings the curves of the <code>gml:MultiCurve</code> are mapped to the records of the file in sequential order.

Diagram



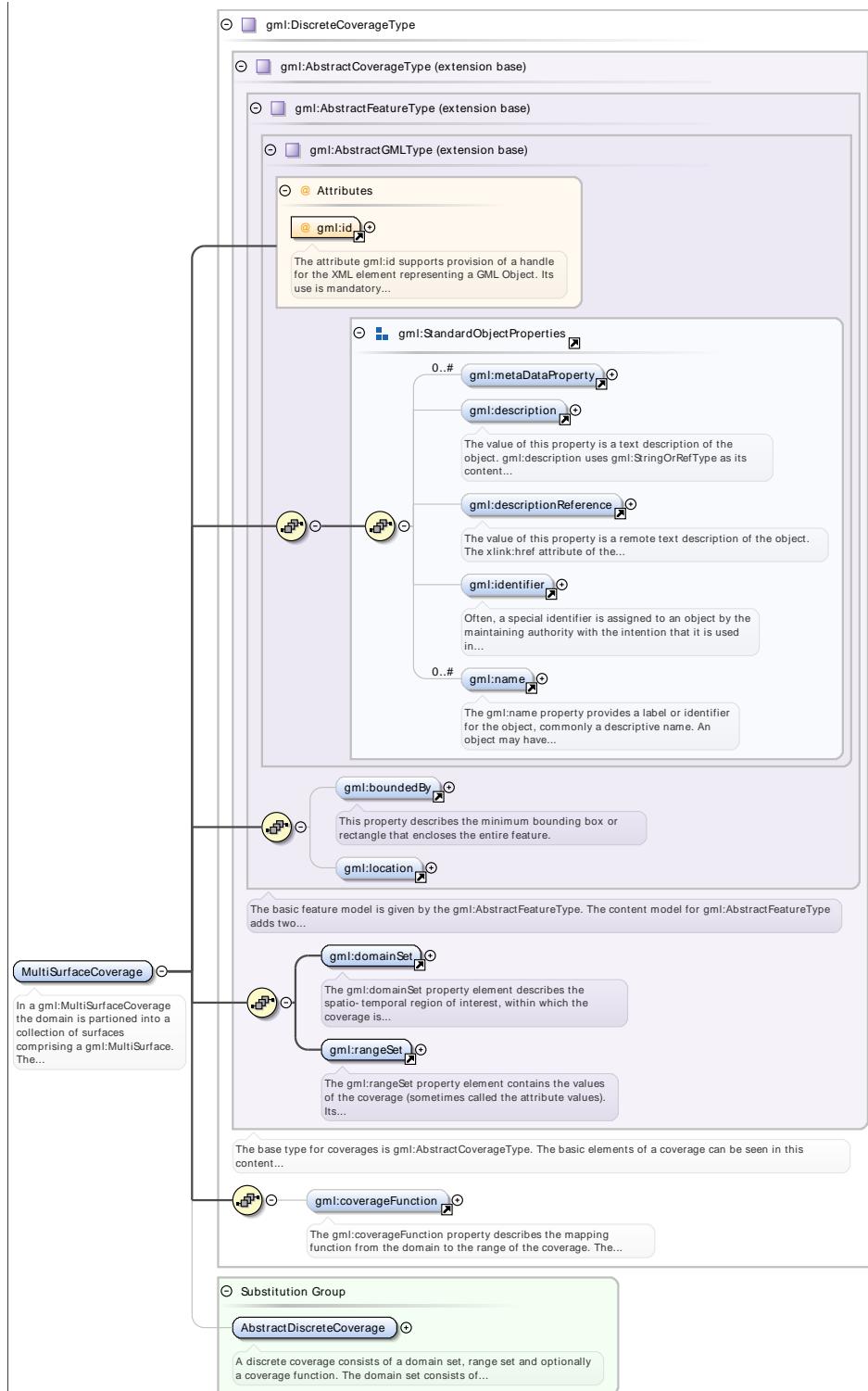
Type	<code>gml:DiscreteCoverageType</code>		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractDiscreteCoverage</code> 		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

QName	Type	Use
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element **gml:MultiSurfaceCoverage**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>In a gml:MultiSurfaceCoverage the domain is partitioned into a collection of surfaces comprising a gml:MultiSurface. The coverage function then maps each surface in the collection to a value in the range set. The content model is identical with gml:DiscreteCoverageType, but that gml:domainSet shall have values gml:MultiSurface. In a gml:MultiSurfaceCoverage the mapping from the domain to the range is straightforward. - For gml:DataBlock encodings the surfaces of the gml:MultiSurface are mapped in document order to the tuples of the data block. - For gml:CompositeValue encodings the surfaces of the gml:MultiSurface are mapped to the members of the composite value in document order. - For gml:File encodings the surfaces of the gml:MultiSurface are mapped to the records of the file in sequential order.</p>

Diagram



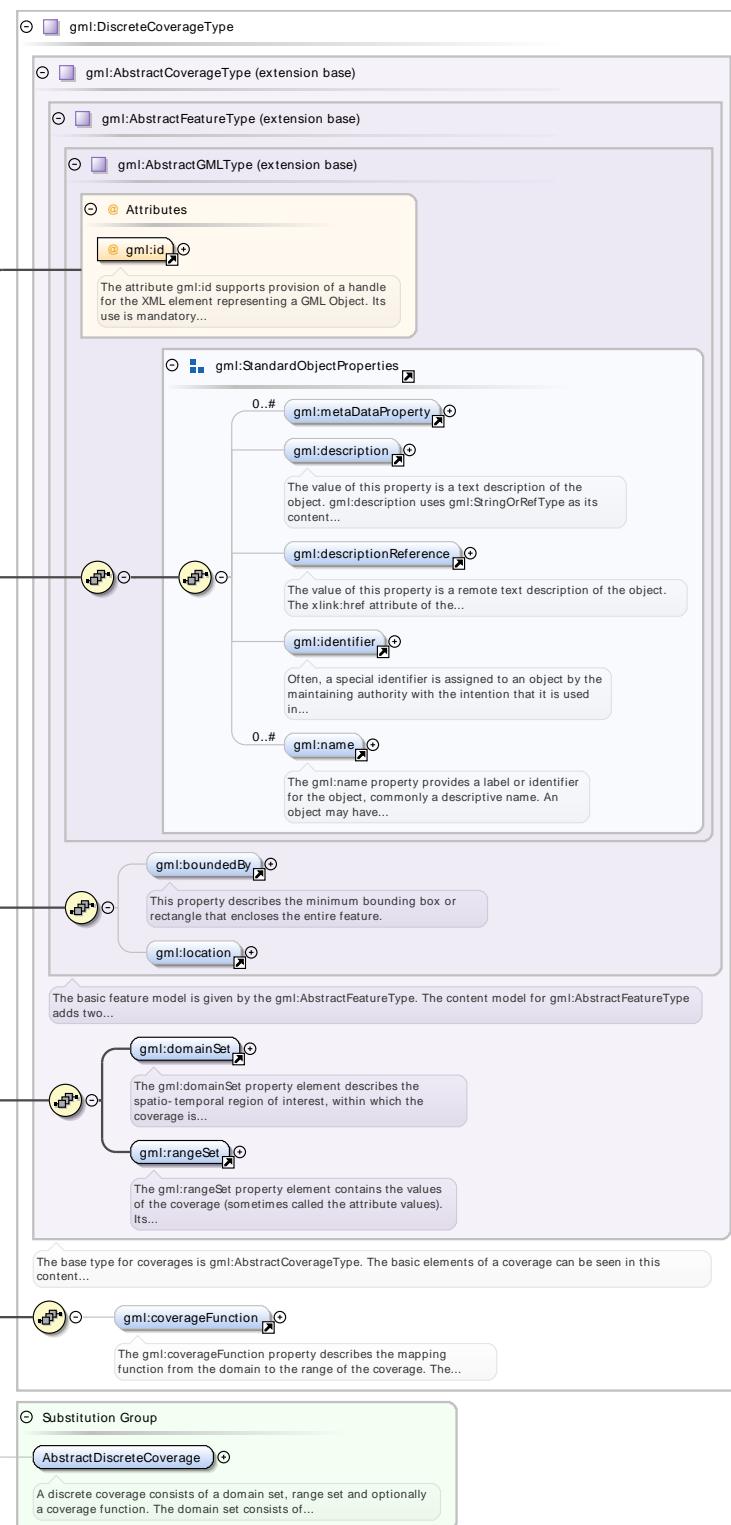
Type	<code>gml:DiscreteCoverageType</code>		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractDiscreteCoverage</code> 		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

QName	Type	Use
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element **gml:MultiSolidCoverage**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>In a gml:MultiSolidCoverage the domain is partitioned into a collection of solids comprising a gml:MultiSolid. The coverage function than maps each solid in the collection to a value in the range set. The content model is identical with gml:DiscreteCoverageType, but that gml:domainSet shall have values gml:MultiSolid. In a gml:MultiSolidCoverage the mapping from the domain to the range is straightforward.</p> <ul style="list-style-type: none">- For gml:DataBlock encodings the solids of the gml:MultiSolid are mapped in document order to the tuples of the data block.- For gml:CompositeValue encodings the solids of the gml:MultiSolid are mapped to the members of the composite value in document order.- For gml:File encodings the solids of the gml:MultiSolid are mapped to the records of the file in sequential order.

Diagram



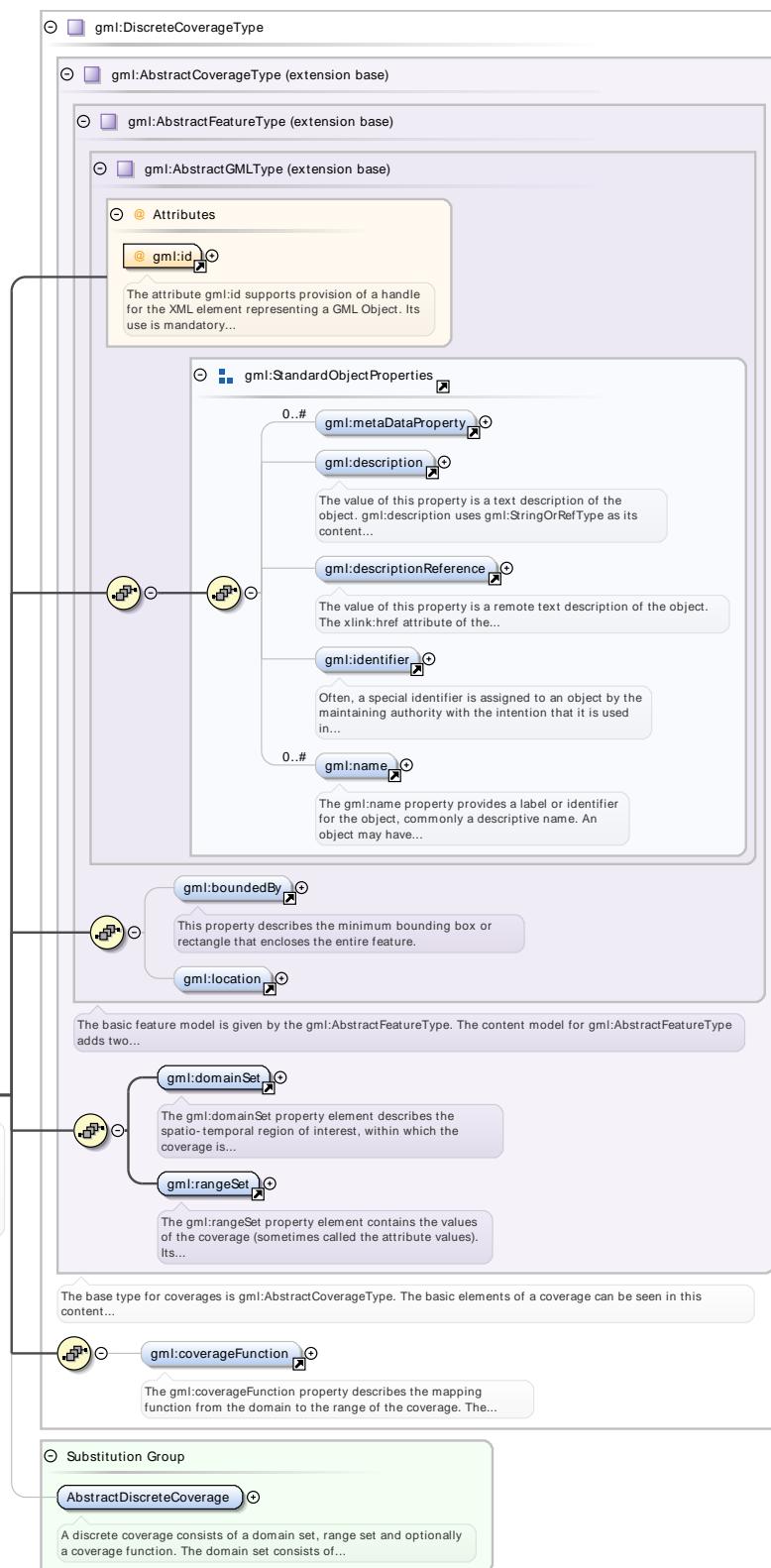
Type	<code>gml:DiscreteCoverageType</code>		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractDiscreteCoverage</code> 		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

QName	Type	Use
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element **gml:GridCoverage**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:GriddedCoverage is a discrete point coverage in which the domain set is a geometric grid of points. Note that this is the same as the gml:MultiPointCoverage except that we have a gml:Grid to describe the domain. The simple gridded coverage is not geometrically referenced and hence no geometric positions are assignable to the points in the grid. Such geometric positioning is introduced in the gml:RectifiedGridCoverage.

Diagram



Type	<code>gml:DiscreteCoverageType</code>						
Properties	content: complex						
Substitution Group Affiliation	• <code>gml:AbstractDiscreteCoverage</code>						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required
QName	Type	Use					
<code>gml:id</code>	ID	required					

QName	Type	Use
		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element `gml:RectifiedGridCoverage`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The <code>gml:RectifiedGridCoverage</code> is a discrete point coverage based on a rectified grid. It is similar to the grid coverage except that the points of the grid are geometrically referenced. The rectified grid coverage has a domain that is a <code>gml:RectifiedGrid</code> geometry.
Diagram	<p>The diagram illustrates the class hierarchy and properties of <code>gml:RectifiedGridCoverage</code>. It shows inheritance from <code>gml:AbstractCoverageType</code> and <code>gml:AbstractFeatureType</code>. The class <code>gml:RectifiedGridCoverage</code> is described as a discrete point coverage based on a rectified grid, similar to a grid coverage but with geometric referencing. It has a <code>gml:domainSet</code> property describing the spatial-temporal region of interest, and a <code>gml:rangeSet</code> property containing the values of the coverage. It also has a <code>gml:coverageFunction</code> property describing the mapping function from the domain to the range. The base type for coverages is <code>gml:AbstractCoverageType</code>, which includes properties like <code>gml:id</code>, <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, <code>gml:name</code>, <code>gml:boundedBy</code>, <code>gml:location</code>, and <code>gml:metaDataProperty</code>.</p>
Type	<code>gml:DiscreteCoverageType</code>

Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractDiscreteCoverage 		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element **gml:Boolean**

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram illustrates the inheritance of the gml:Boolean element. It starts with a Boolean element, which is a built-in primitive type. An arrow points from Boolean to boolean, indicating that gml:Boolean is an extension of boolean. A callout box for boolean states: "Built-in primitive type. It defines the boolean values true and false." Another arrow points from Boolean to a Substitution Group box, which contains the AbstractScalarValue element. A callout box for AbstractScalarValue states: "gml:AbstractScalarValue is an abstract element which acts as the head of a substitution group which contains..."</p>		
Type	extension of boolean		
Properties	<p>content: complex</p> <p>nillable: true</p>		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractScalarValue 		
Attributes	QName	Type	Use
	nilReason	gml:NilReasonType	optional

Element **gml:BooleanList**

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram illustrates the inheritance of the gml:BooleanList element. It starts with a BooleanList element, which is a type for a list of values of the respective simple type. An arrow points from BooleanList to gml:booleanOrNilReasonList, indicating that gml:BooleanList is an extension of gml:booleanOrNilReasonList. A callout box for gml:booleanOrNilReasonList states: "A type for a list of values of the respective simple type." Another arrow points from BooleanList to a Substitution Group box, which contains the AbstractScalarValueList element. A callout box for AbstractScalarValueList states: "gml:AbstractScalarValueList is an abstract element which acts as the head of a substitution group which contains..."</p>		
Type	gml:booleanOrNilReasonList		
Properties	content: simple		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractScalarValueList 		

Element **gml:Category**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	A gml:Category has an optional XML attribute <code>codeSpace</code> , whose value is a URI which identifies a dictionary, codelist or authority for the term.		

Diagram	<p>gml:CodeType (extension base)</p> <p>string</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Attributes</p> <p>@codeSpace</p> <p>gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,...</p> <p>Attributes</p> <p>@nilReason</p> <p>Substitution Group</p> <p>AbstractScalarValue</p> <p>gml:AbstractScalarValue is an abstract element which acts as the head of a substitution group which contains...</p>									
Type	extension of gml:CodeType									
Properties	<p>content: complex</p> <p>nillable: true</p>									
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractScalarValue 									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>codeSpace</td><td>anyURI</td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional	nilReason	gml:NilReasonType	optional
QName	Type	Use								
codeSpace	anyURI	optional								
nilReason	gml:NilReasonType	optional								

Element gml:CategoryList

Namespace	http://www.opengis.net/gml/3.2						
Diagram	<p>gml:CodeOrNilReasonListType</p> <p>gml:NameOrNilReasonList</p> <p>A type for a list of values of the respective simple type.</p> <p>Attributes</p> <p>@codeSpace</p> <p>gml:CodeOrNilReasonListType provides for lists of terms. The values in an instance element shall all be valid according...</p> <p>Substitution Group</p> <p>AbstractScalarValueList</p> <p>gml:AbstractScalarValueList is an abstract element which acts as the head of a substitution group which contains...</p>						
Type	gml:CodeOrNilReasonListType						
Properties	<p>content: complex</p>						
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractScalarValueList 						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>codeSpace</td><td>anyURI</td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional
QName	Type	Use					
codeSpace	anyURI	optional					

Element `gml:Count`

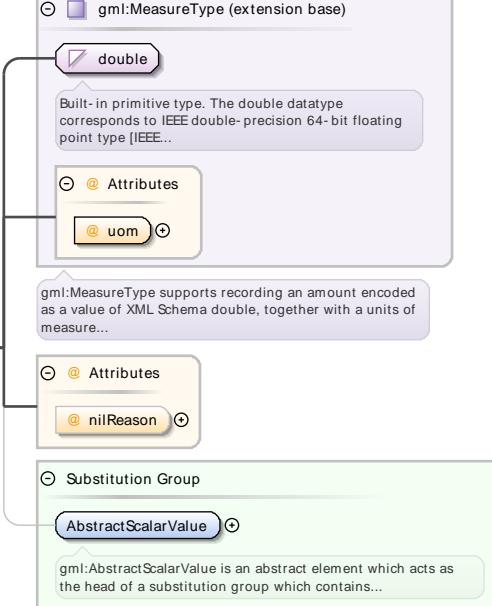
Namespace	http://www.opengis.net/gml/3.2							
Diagram	<p>The diagram illustrates the structure of the <code>gml:Count</code> element. It is derived from the <code>integer</code> type. It has attributes including <code>@nilReason</code>. It is part of a substitution group that includes <code>AbstractScalarValue</code>. A note states that <code>gml:AbstractScalarValue</code> is an abstract element which acts as the head of a substitution group which contains...</p>							
Type	extension of <code>integer</code>							
Properties	<p>content: <code>complex</code> nillable: <code>true</code></p>							
Substitution Group Affiliation	<ul style="list-style-type: none"> <code>gml:AbstractScalarValue</code> 							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td>optional</td> </tr> </tbody> </table>		QName	Type	Use	<code>nilReason</code>	<code>gml:NilReasonType</code>	optional
QName	Type	Use						
<code>nilReason</code>	<code>gml:NilReasonType</code>	optional						

Element `gml:CountList`

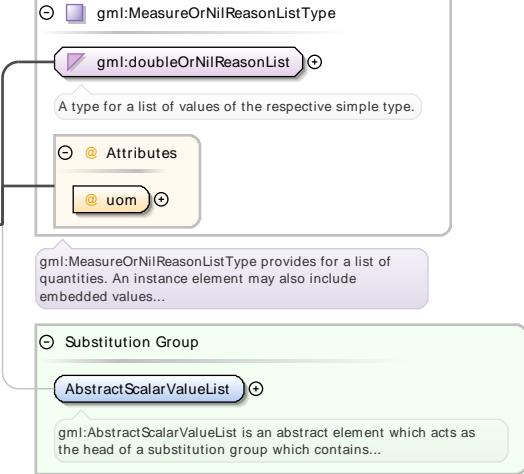
Namespace	http://www.opengis.net/gml/3.2	
Diagram	<p>The diagram illustrates the structure of the <code>gml:CountList</code> element. It is derived from the <code>gml:integerOrNilReasonList</code> type. It is part of a substitution group that includes <code>AbstractScalarValueList</code>. A note states that <code>gml:AbstractScalarValueList</code> is an abstract element which acts as the head of a substitution group which contains...</p>	
Type	<code>gml:integerOrNilReasonList</code>	
Properties	<p>content: <code>simple</code></p>	
Substitution Group Affiliation	<ul style="list-style-type: none"> <code>gml:AbstractScalarValueList</code> 	

Element `gml:Quantity`

Namespace	http://www.opengis.net/gml/3.2	
Annotations	<p>An XML attribute <code>uom</code> ("unit of measure") is required, whose value is a URI which identifies the definition of a ratio scale or units by which the numeric value shall be multiplied, or an interval or position scale on which the value occurs.</p>	

Diagram	 <p>gml:MeasureType (extension base)</p> <p>double</p> <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p> <p>@ Attributes</p> <p>@ uom</p> <p>gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...</p> <p>@ Attributes</p> <p>@ nilReason</p> <p>Substitution Group</p> <p>AbstractScalarValue</p> <p>gml:AbstractScalarValue is an abstract element which acts as the head of a substitution group which contains...</p> <p>Quantity</p> <p>An XML attribute uom ("unit of measure") is required, whose value is a URI which identifies the definition of a ratio...</p>												
Type	extension of gml:MeasureType												
Properties	<p>content: complex</p> <p>nillable: true</p>												
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractScalarValue 												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td>optional</td><td></td></tr> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Use		nilReason	gml:NilReasonType	optional		uom	gml:UomIdentifier	required	
QName	Type	Use											
nilReason	gml:NilReasonType	optional											
uom	gml:UomIdentifier	required											

Element gml:QuantityList

Namespace	http://www.opengis.net/gml/3.2								
Diagram	 <p>gml:MeasureOrNilReasonListType</p> <p>gml:doubleOrNilReasonList</p> <p>A type for a list of values of the respective simple type.</p> <p>@ Attributes</p> <p>@ uom</p> <p>gml:MeasureOrNilReasonListType provides for a list of quantities. An instance element may also include embedded values...</p> <p>Substitution Group</p> <p>AbstractScalarValueList</p> <p>gml:AbstractScalarValueList is an abstract element which acts as the head of a substitution group which contains...</p> <p>QuantityList</p> <p>gml:QuantityList</p> <p>An XML attribute uom ("unit of measure") is required, whose value is a URI which identifies the definition of a ratio...</p>								
Type	gml:MeasureOrNilReasonListType								
Properties	<p>content: complex</p>								
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractScalarValueList 								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Use		uom	gml:UomIdentifier	required	
QName	Type	Use							
uom	gml:UomIdentifier	required							

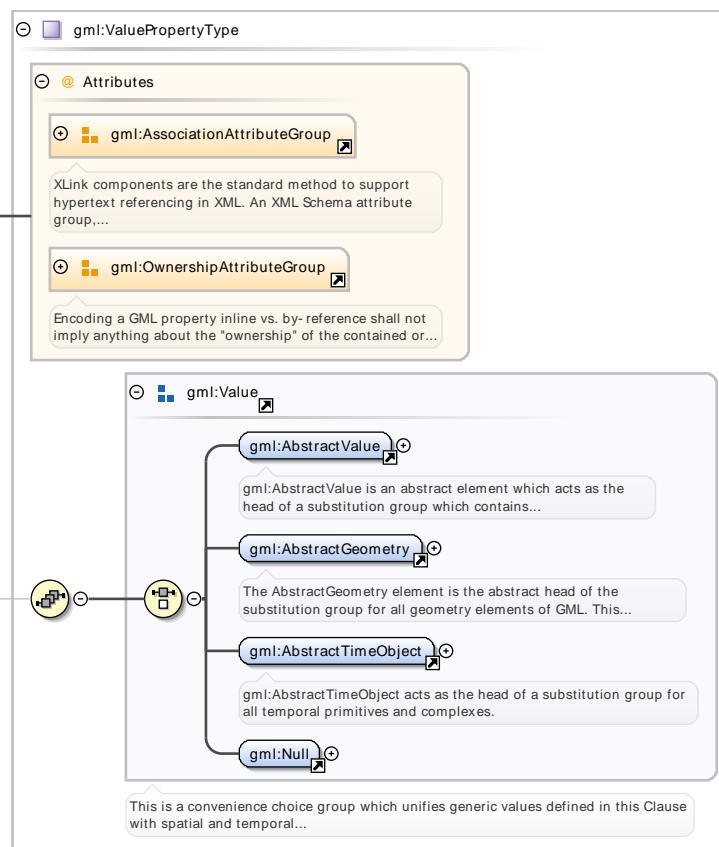
Element `gml:AbstractScalarValue`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:AbstractScalarValue is an abstract element which acts as the head of a substitution group which contains gml:Boolean, gml:Category, gml:Count and gml:Quantity, and (transitively) the elements in their substitution groups.</p>
Diagram	<p>The diagram illustrates the structure of the <code>gml:AbstractScalarValue</code> element. It is an abstract type (<code>anyType</code>) with attributes (<code>@Attributes</code>) and a list of children (<code>0..#</code> <code>gml:##any</code>). A note states: "Not the real urType, but as close an approximation as we can get in the XML representation". Below this, the <code>Substitutions</code> group contains <code>Boolean</code>, <code>Category</code>, <code>Count</code>, and <code>Quantity</code>. A note for <code>Category</code> says: "A gml:Category has an optional XML attribute codeSpace, whose value is a URL which identifies a dictionary, codelist or...". A note for <code>Quantity</code> says: "An XML attribute uom ("unit of measure") is required, whose value is a URI which identifies the definition of a ratio...". Finally, the <code>Substitution Group</code> contains <code>AbstractValue</code>. A note for <code>AbstractValue</code> says: "gml:AbstractValue is an abstract element which acts as the head of a substitution group which contains...".</p>
Properties	<p>abstract: true</p>
Substitution Group	<ul style="list-style-type: none"> • <code>gml:Boolean</code> • <code>gml:Category</code> • <code>gml:Count</code> • <code>gml:Quantity</code>
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractValue</code>

Element `gml:valueProperty`

Namespace	http://www.opengis.net/gml/3.2
Annotations	Property that refers to, or contains, a Value. Convenience element for general use.

Diagram

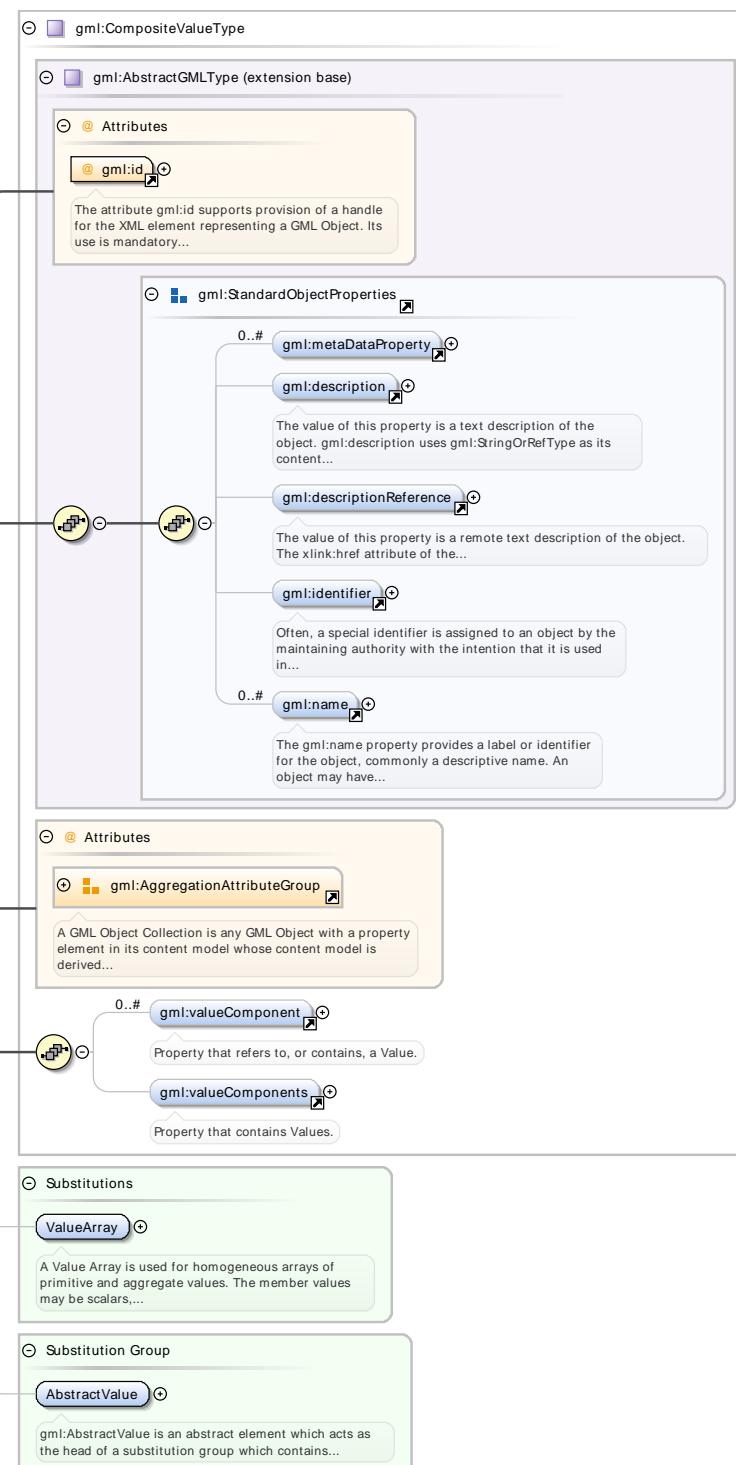


Type	<code>gml:ValuePropertyType</code>																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>owns</code></td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td><code>xlink:actuate</code></td> <td><code>xlink:actuateType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td><code>xlink:arcroleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:href</code></td> <td><code>xlink:hrefType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:role</code></td> <td><code>xlink:roleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:show</code></td> <td><code>xlink:showType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:title</code></td> <td><code>xlink:titleAttrType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:type</code></td> <td><code>xlink:typeType</code></td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	anyURI			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	<code>owns</code>	boolean		false	optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional	<code>xlink:role</code>	<code>xlink:roleType</code>			optional	<code>xlink:show</code>	<code>xlink:showType</code>			optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional
QName	Type	Fixed	Default	Use																																																				
<code>gml:remoteSchema</code>	anyURI			optional																																																				
<code>nilReason</code>	<code>gml:NilReasonType</code>			optional																																																				
<code>owns</code>	boolean		false	optional																																																				
<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional																																																				
<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional																																																				
<code>xlink:href</code>	<code>xlink:hrefType</code>			optional																																																				
<code>xlink:role</code>	<code>xlink:roleType</code>			optional																																																				
<code>xlink:show</code>	<code>xlink:showType</code>			optional																																																				
<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional																																																				
<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional																																																				

Element `gml:CompositeValue`

Namespace	<code>http://www.opengis.net/gml/3.2</code>
Annotations	<code>gml:CompositeValue</code> is an aggregate value built from other values . It contains zero or an arbitrary number of <code>gml:valueComponent</code> elements, and zero or one <code>gml:valueComponents</code> property elements. It may be used for strongly coupled aggregates (vectors, tensors) or for arbitrary collections of values.

Diagram



Type	<code>gml:CompositeValueType</code>									
Properties	content: complex									
Substitution Group	<ul style="list-style-type: none"> • <code>gml:ValueArray</code> 									
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractValue</code> 									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td>optional</td> </tr> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional	<code>gml:id</code>	ID	required
QName	Type	Use								
<code>aggregationType</code>	<code>gml:AggregationType</code>	optional								
<code>gml:id</code>	ID	required								

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element **gml:CategoryExtent**

Namespace	http://www.opengis.net/gml/3.2							
Diagram	<p>gml:CategoryExtentType</p> <p>gml:CodeOrNilReasonListType (restriction base)</p> <p>gml:NameOrNilReasonList</p> <p>A type for a list of values of the respective simple type.</p> <p>Attributes</p> <p>codeSpace</p> <p>gml:CodeOrNilReasonListType provides for lists of terms. The values in an instance element shall all be valid according...</p> <p>Substitution Group</p> <p>AbstractValue</p> <p>gml:AbstractValue is an abstract element which acts as the head of a substitution group which contains...</p>							
Type	gml:CategoryExtentType							
Properties	content: complex							
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractValue 							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>codeSpace</td> <td>anyURI</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional	
QName	Type	Use						
codeSpace	anyURI	optional						

Element **gml:CountExtent**

Namespace	http://www.opengis.net/gml/3.2	
Diagram	<p>gml:CountExtentType</p> <p>Substitution Group</p> <p>AbstractValue</p> <p>gml:AbstractValue is an abstract element which acts as the head of a substitution group which contains...</p>	
Type	gml:CountExtentType	
Properties	content: simple	
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractValue 	

Element **gml:QuantityExtent**

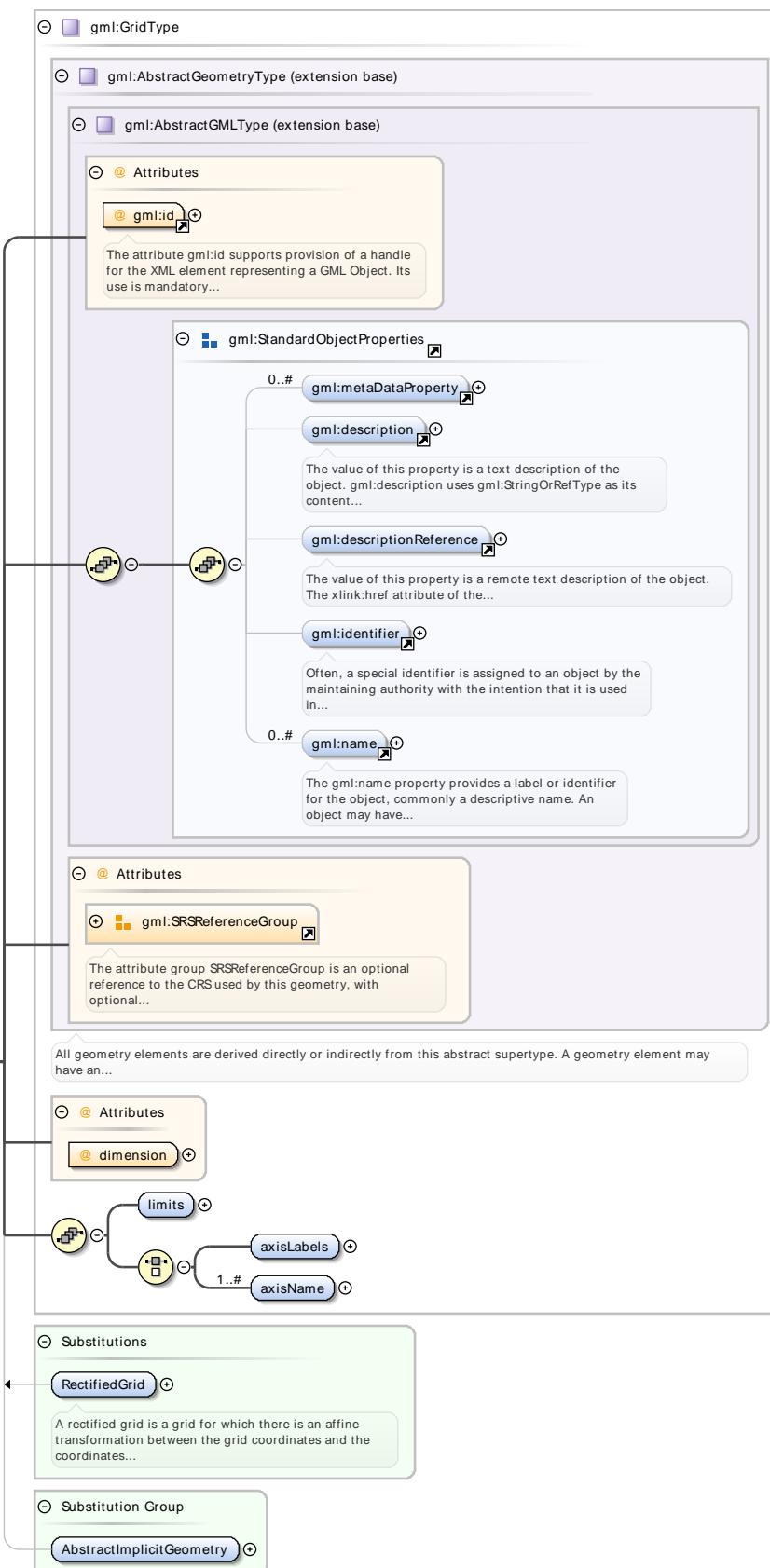
Namespace	http://www.opengis.net/gml/3.2	
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Diagram									
Type	gml:QuantityExtentType								
Properties	content: complex								
Substitution Group Affiliation	• gml:AbstractValue								
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">QName</th><th style="text-align: left; padding: 2px;">Type</th><th style="text-align: left; padding: 2px;">Use</th><th style="text-align: left; padding: 2px;"></th></tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 2px;">uom</td><td style="text-align: left; padding: 2px;">gml:UomIdentifier</td><td style="text-align: left; padding: 2px;">required</td><td style="text-align: left; padding: 2px;"></td></tr> </tbody> </table>	QName	Type	Use		uom	gml:UomIdentifier	required	
QName	Type	Use							
uom	gml:UomIdentifier	required							

Element gml:Grid

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>The gml:Grid implicitly defines an unrectified grid, which is a network composed of two or more sets of curves in which the members of each set intersect the members of the other sets in an algorithmic way. The region of interest within the grid is given in terms of its gml:limits, being the grid coordinates of diagonally opposed corners of a rectangular region. gml:axisLabels is provided with a list of labels of the axes of the grid (gml:axisName has been deprecated). gml:dimension specifies the dimension of the grid. The gml:limits element contains a single gml:GridEnvelope. The gml:low and gml:high property elements of the envelope are each integerLists, which are coordinate tuples, the coordinates being measured as offsets from the origin of the grid along each axis, of the diagonally opposing corners of a "rectangular" region of interest.</p>

Diagram



Type	gml:GridType
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> gml:RectifiedGrid

Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractImplicitGeometry 		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	dimension	positiveInteger	required
	gml:id	ID	required
	<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Element gml:GridType / gml:limits

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:GridLimitsType
Properties	content: complex

Element gml:GridLimitsType / gml:GridEnvelope

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:GridEnvelopeType
Properties	content: complex

Element gml:GridEnvelopeType / gml:low

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>A type for a list of values of the respective simple type.</p>
Type	gml:integerList
Properties	content: simple

Element gml:GridEnvelopeType / gml:high

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>A type for a list of values of the respective simple type.</p>
Type	gml:integerList
Properties	content: simple

Element gml:GridType / gml:axisLabels

Namespace	http://www.opengis.net/gml/3.2
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Diagram	 <p>A type for a list of values of the respective simple type.</p>
Type	gml:NCNameList
Properties	content: simple

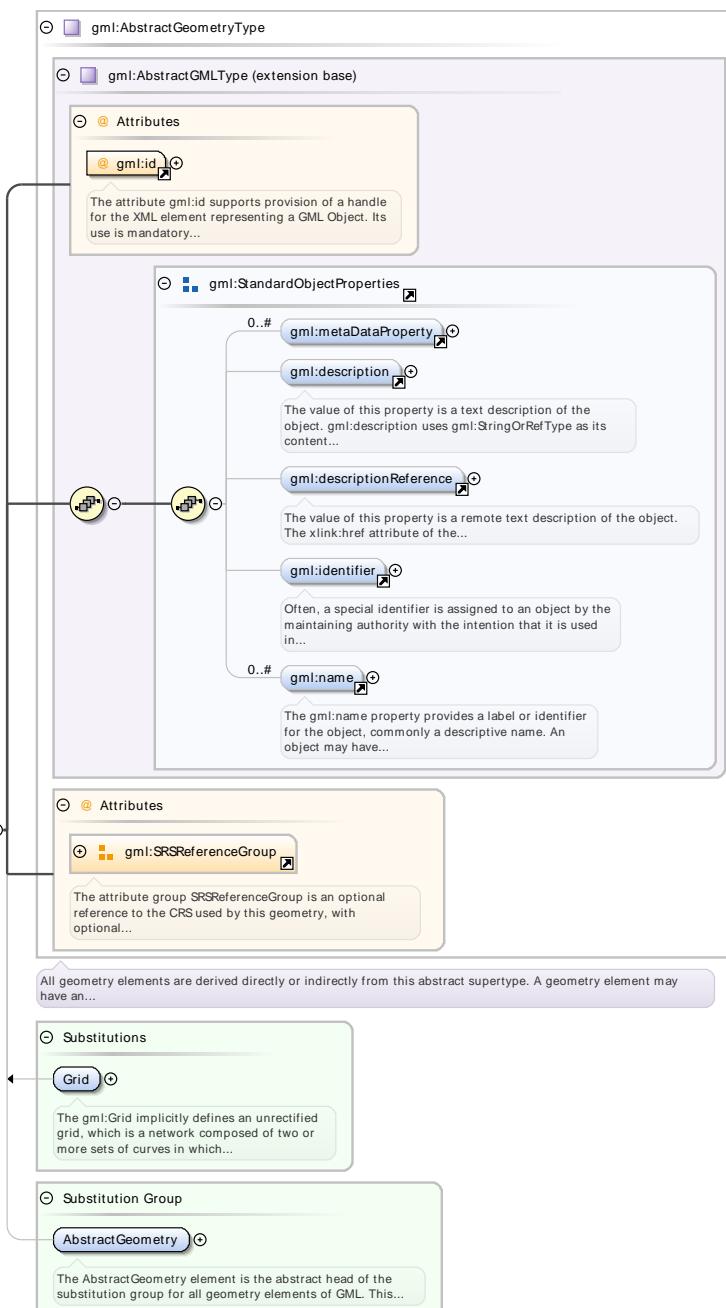
Element gml:GridType / gml:axisName

Namespace	http://www.opengis.net/gml/3.2
Diagram	<pre> classDiagram class axisName class string { <<Built-in primitive type. The string datatype represents character strings in XML.>> } axisName "1" -- "0..1" string </pre>
Type	string
Properties	content: simple maxOccurs: unbounded

Element `gml:AbstractImplicitGeometry`

Namespace <http://www.opengis.net/gml/3.2>

Diagram



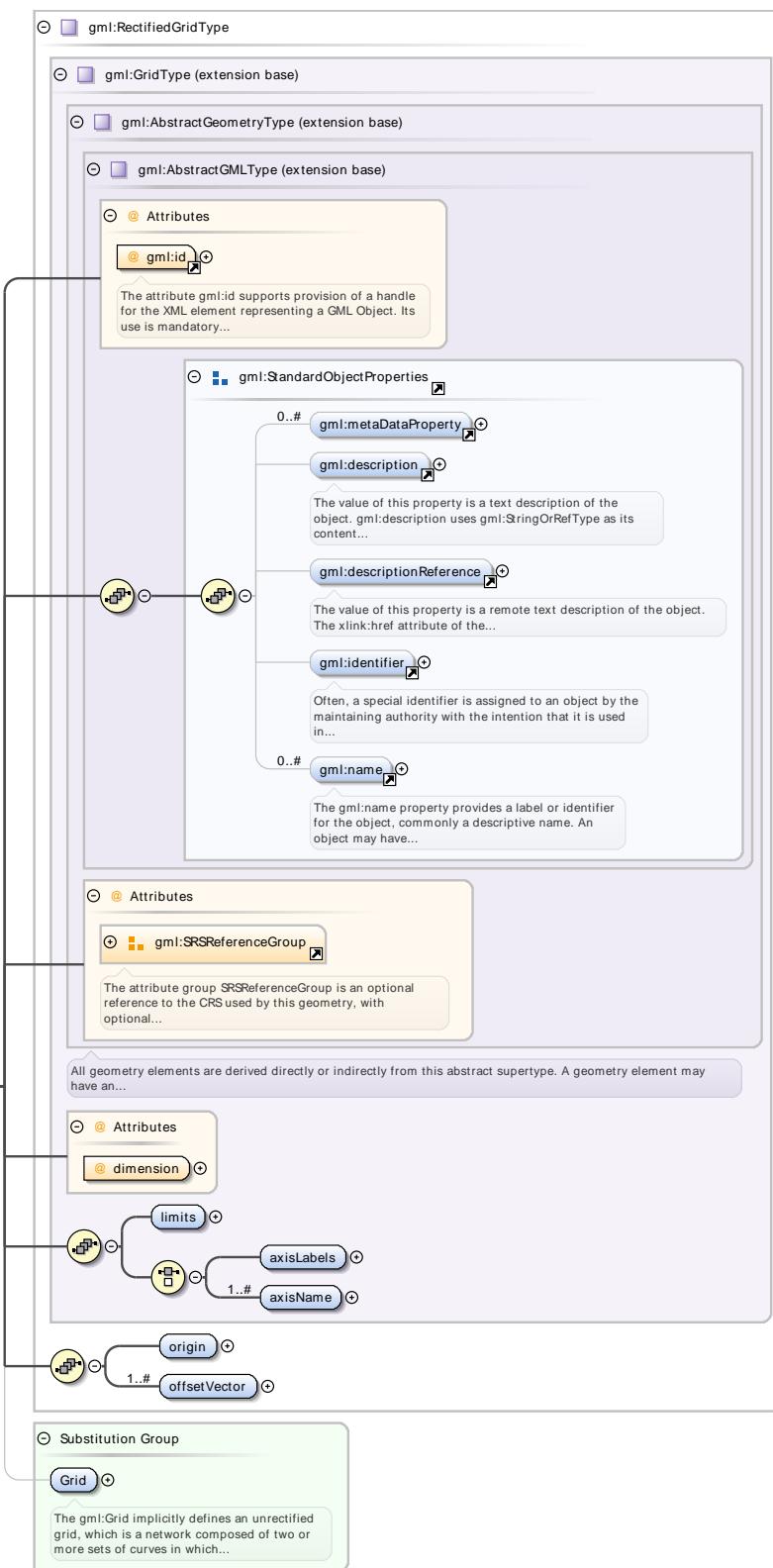
Type	<code>gml:AbstractGeometryType</code>		
Properties	<p>content: <code>complex</code></p> <p>abstract: <code>true</code></p>		
Substitution Group	<ul style="list-style-type: none"> <code>gml:Grid</code> <code>gml:RectifiedGrid</code> 		
Substitution Group Affiliation	<ul style="list-style-type: none"> <code>gml:AbstractGeometry</code> 		
Attributes	QName	Type	Use
	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional
	<code>gml:id</code>	<code>ID</code>	required
	<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code>, so is constrained to be unique in the XML document within which it occurs.</p>		

QName	Type	Use	
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
uomLabels	gml:NCNameList	optional	

Element **gml:RectifiedGrid**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A rectified grid is a grid for which there is an affine transformation between the grid coordinates and the coordinates of an external coordinate reference system. It is defined by specifying the position (in some geometric space) of the grid "origin" and of the vectors that specify the post locations. Note that the grid limits (post indexes) and axis name properties are inherited from gml:GridType and that gml:RectifiedGrid adds a gml:origin property (contains or references a gml:Point) and a set of gml:offsetVector properties.

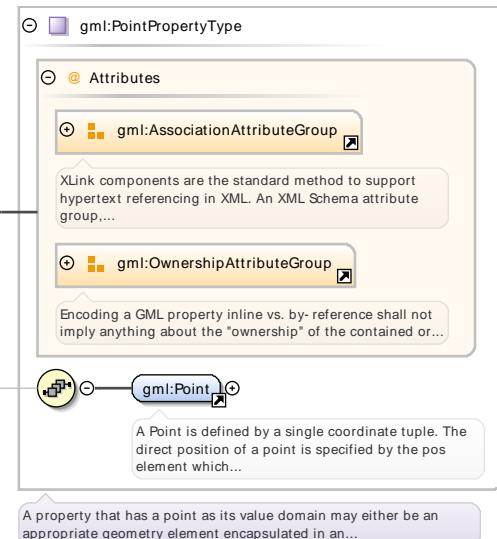
Diagram



Type	<code>gml:RectifiedGridType</code>						
Properties	content: complex						
Substitution Group Affiliation	• <code>gml:Grid</code>						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional
QName	Type	Use					
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional					

QName	Type	Use	
dimension	positiveInteger	required	
gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
uomLabels	gml:NCNameList	optional	

Element **gml:RectifiedGridType / gml:origin**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	 <p>The diagram illustrates the structure of the gml:PointPropertyType element. It shows a central box for 'Attributes' containing two groups: 'gml:AssociationAttributeGroup' and 'gml:OwnershipAttributeGroup'. An 'origin' element is associated with the 'gml:Point' element, which is defined as a single coordinate tuple. A note states that encoding a property inline vs. by-reference does not imply ownership. A general note at the bottom indicates that a property with a point value domain can be an appropriate geometry element.</p>																																																							
Type	gml:PointPropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gml:remoteSchema	anyURI			optional																																																				
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:RectifiedGridType / gml:offsetVector**

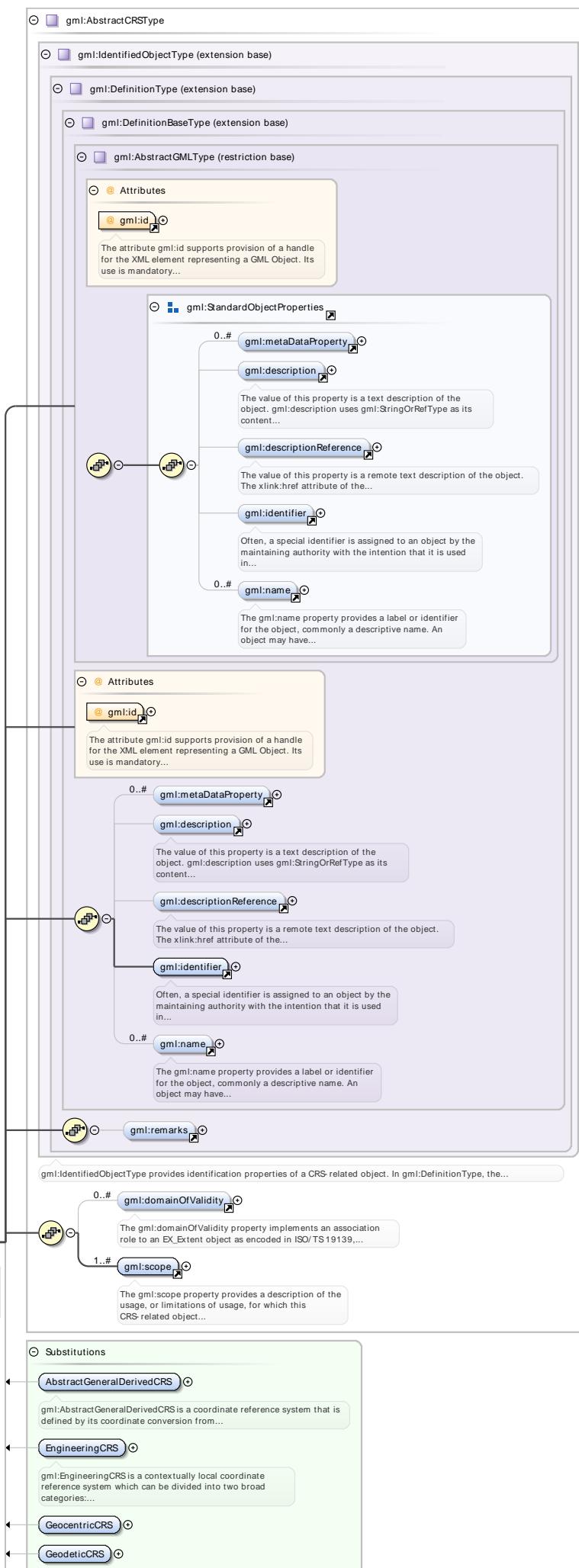
Namespace	http://www.opengis.net/gml/3.2
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Diagram																					
Type	gml:VectorType																				
Properties	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">content:</td><td>complex</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	complex	maxOccurs:	unbounded																
content:	complex																				
maxOccurs:	unbounded																				
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">QName</th><th style="width: 30%;">Type</th><th style="width: 10%;">Use</th><th style="width: 30%;"></th></tr> </thead> <tbody> <tr> <td>axisLabels</td><td>gml:NCNameList</td><td>optional</td><td></td></tr> <tr> <td>srsDimension</td><td>positiveInteger</td><td>optional</td><td></td></tr> <tr> <td>srsName</td><td>anyURI</td><td>optional</td><td></td></tr> <tr> <td>uomLabels</td><td>gml:NCNameList</td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Use		axisLabels	gml:NCNameList	optional		srsDimension	positiveInteger	optional		srsName	anyURI	optional		uomLabels	gml:NCNameList	optional	
QName	Type	Use																			
axisLabels	gml:NCNameList	optional																			
srsDimension	positiveInteger	optional																			
srsName	anyURI	optional																			
uomLabels	gml:NCNameList	optional																			

Element gml:AbstractSingleCRS

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:AbstractSingleCRS implements a coordinate reference system consisting of one coordinate system and one datum (as opposed to a Compound CRS).

Diagram



Type	gml:AbstractCRSType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> gml:AbstractGeneralDerivedCRS gml:GeodeticCRS gml:VerticalCRS gml:ProjectedCRS gml:DerivedCRS gml:EngineeringCRS gml:ImageCRS gml:TemporalCRS gml:GeographicCRS gml:GeocentricCRS 		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractCRS 		
Attributes	QName gml:id	Type ID	Use required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element **gml:domainOfValidity**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	The gml:domainOfValidity property implements an association role to an EX_Extent object as encoded in ISO/TS 19139, either referencing or containing the definition of that extent.			
Diagram	<p>The diagram illustrates the structure of the gml:domainOfValidity element. It shows the element itself, which has an association attribute group (gml:AssociationAttributeGroup) containing attributes for remote schema, nil reason, and various XLink components (actuate, arcrole, href, role, show, title, type). A callout box explains that XLink components are used for hypertext referencing. The element is also associated with a gmd:EX_Extent object.</p>			
Properties	content: complex			
Attributes	QName gml:remoteSchema nilReason xlink:actuate xlink:arcrole xlink:href xlink:role xlink:show xlink:title xlink:type	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed optional optional optional optional optional optional optional optional optional	Use optional optional optional optional optional optional optional optional optional

Element **gml:scope**

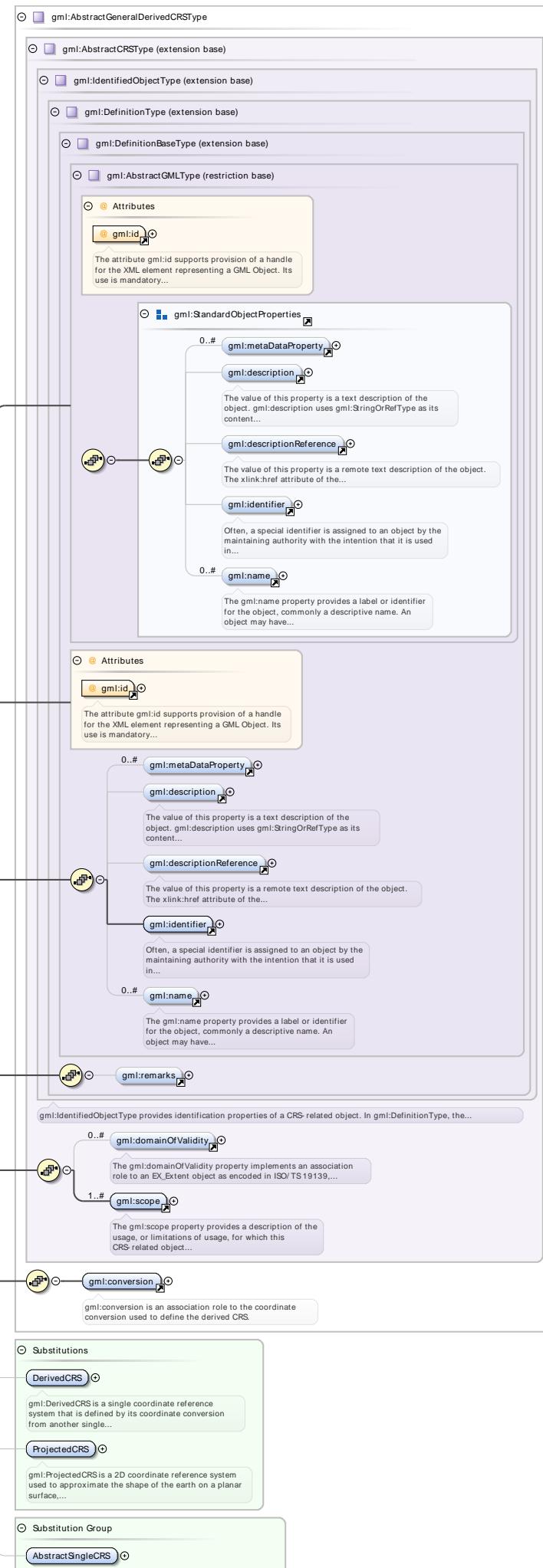
Namespace	http://www.opengis.net/gml/3.2
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Annotations	The <code>gml:scope</code> property provides a description of the usage, or limitations of usage, for which this CRS-related object is valid. If unknown, enter "not known".
Diagram	<pre> graph LR scope -- "0..1" --> string subgraph annotations [Annotations] scope string end scope -- "The gml:scope property provides a description of the usage, or limitations of usage, for which this CRS related object..." --> scope string -- "Built- in primitive type. The string datatype represents character strings in XML." --> string </pre>
Type	string
Properties	content: simple

Element `gml:AbstractGeneralDerivedCRS`

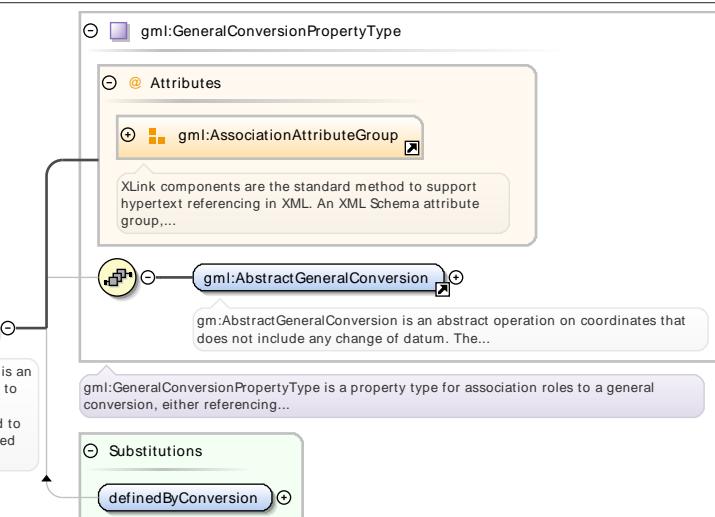
Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:AbstractGeneralDerivedCRS</code> is a coordinate reference system that is defined by its coordinate conversion from another coordinate reference system. This abstract complex type shall not be used, extended, or restricted, in a GML Application Schema, to define a concrete subtype with a meaning equivalent to a concrete subtype specified in this document.

Diagram



Type	gml:AbstractGeneralDerivedCRSType		
Properties	content: complex abstract: true		
Substitution Group	• gml:ProjectedCRS • gml:DerivedCRS		
Substitution Group Affiliation	• gml:AbstractSingleCRS		
Attributes	QName gml:id	Type ID	Use required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element gml:conversion

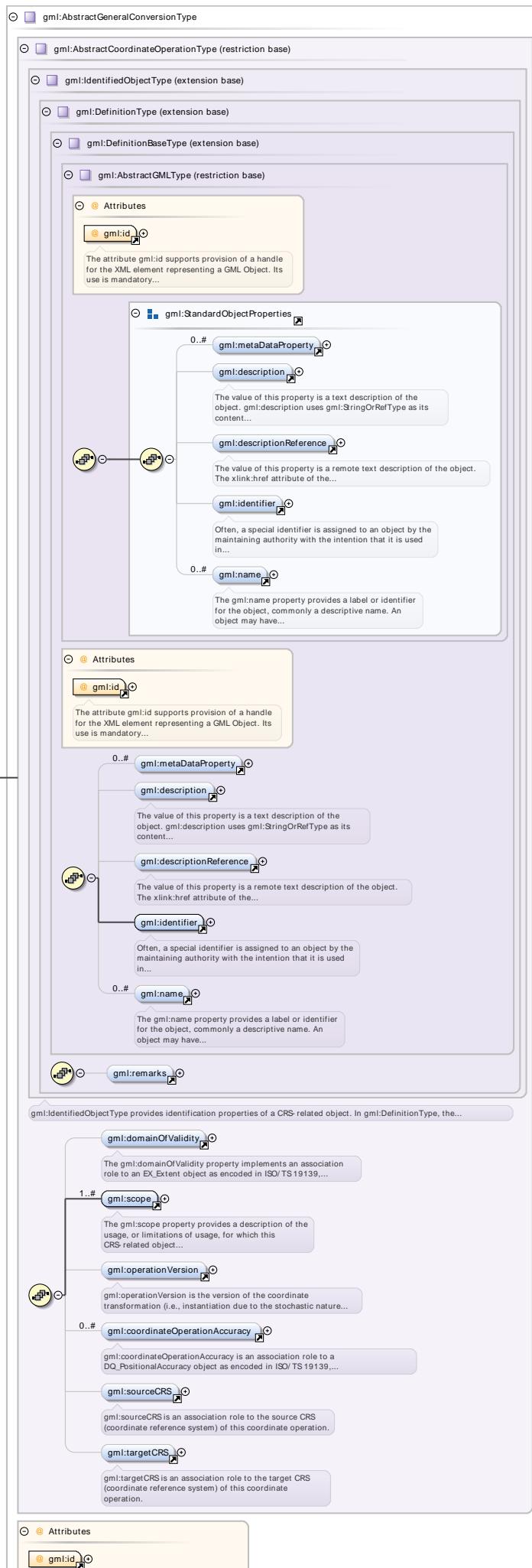
Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:conversion is an association role to the coordinate conversion used to define the derived CRS.			
Diagram				
Type	gml:GeneralConversionPropertyType			
Properties	content: complex			
Substitution Group	• gml:definedByConversion			
Attributes	QName gml:remoteSchema nilReason xlink:actuate xlink:arcrole xlink:href xlink:role xlink:show xlink:title xlink:type	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed optional optional optional optional optional optional optional optional optional	Use optional optional optional optional optional optional optional optional optional

Element gml:AbstractGeneralConversion

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:AbstractGeneralConversion is an abstract operation on coordinates that does not include any change of datum. The best-known example of a coordinate conversion is a map projection. The parameters describing coordinate conversions are defined rather		

than empirically derived. Note that some conversions have no parameters. The operationVersion, sourceCRS, and targetCRS elements are omitted in a coordinate conversion. This abstract complex type is expected to be extended for well-known operation methods with many Conversion instances, in GML Application Schemas that define operation-method-specialized element names and contents. This conversion uses an operation method, usually with associated parameter values. However, operation methods and parameter values are directly associated with concrete subtypes, not with this abstract type. All concrete types derived from this type shall extend this type to include a "usesMethod" element that references the "OperationMethod" element. Similarly, all concrete types derived from this type shall extend this type to include zero or more elements each named "uses...Value" that each use the type of an element substitutable for the "AbstractGeneralParameterValue" element.

Diagram



Type	gml:AbstractGeneralConversionType		
Properties	content: complex abstract: true		
Substitution Group	• gml:Conversion		
Substitution Group Affiliation	• gml:AbstractOperation		
Attributes	QName gml:id	Type ID	Use required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

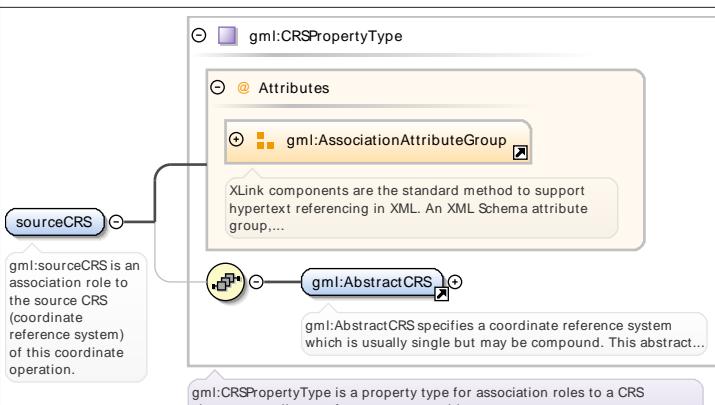
Element gml:operationVersion

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:operationVersion is the version of the coordinate transformation (i.e., instantiation due to the stochastic nature of the parameters). Mandatory when describing a transformation, and should not be supplied for a conversion.
Diagram	<p>Diagram illustrating the gml:operationVersion element. It shows a class 'operationVersion' with a multiplicity of 0..1. A line connects it to a class 'string' with a multiplicity of 1..1. A note below the 'operationVersion' class states: 'gml:operationVersion is the version of the coordinate transformation (i.e., instantiation due to the stochastic nature of the parameters)...'. A note below the 'string' class states: 'Built-in primitive type. The string datatype represents character strings in XML.'</p>
Type	string
Properties	content: simple

Element gml:coordinateOperationAccuracy

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	gml:coordinateOperationAccuracy is an association role to a DQ_PositionalAccuracy object as encoded in ISO/TS 19139, either referencing or containing the definition of that positional accuracy. That object contains an estimate of the impact of this coordinate operation on point accuracy. That is, it gives position error estimates for the target coordinates of this coordinate operation, assuming no errors in the source coordinates.																																								
Diagram	<p>Diagram illustrating the gml:coordinateOperationAccuracy element. It shows a class 'coordinateOperationAccuracy' with a multiplicity of 0..1. A line connects it to a class 'gmd:AbstractDQ_PositionalAccuracy' with a multiplicity of 0..1. A note below the 'coordinateOperationAccuracy' class states: 'gml:coordinateOperationAccuracy is an association role to a DQ_PositionalAccuracy object as encoded in ISO/TS 19139,...'. A note below the 'gmd:AbstractDQ_PositionalAccuracy' class states: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....'.</p>																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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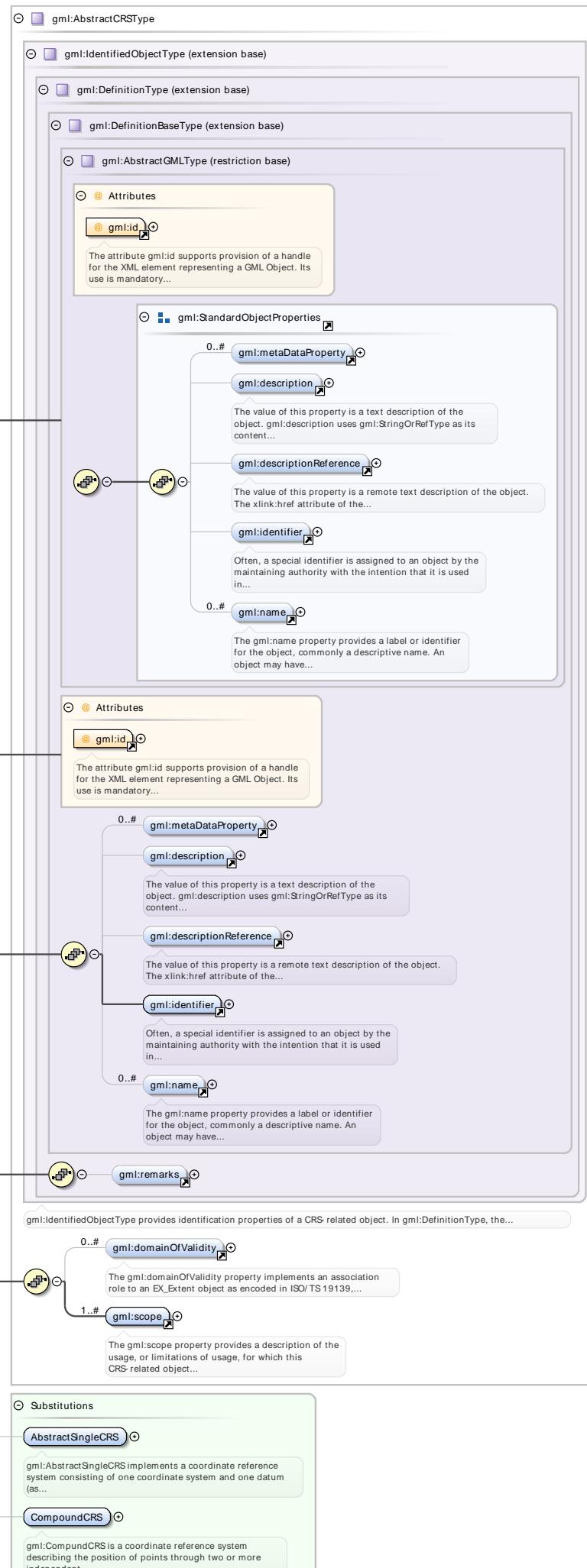
Element `gml:sourceCRS`

Namespace	http://www.opengis.net/gml/3.2																																											
Annotations	gml:sourceCRS is an association role to the source CRS (coordinate reference system) of this coordinate operation.																																											
Diagram	 <p>gml:sourceCRS is an association role to the source CRS (coordinate reference system) of this coordinate operation.</p>																																											
Type	gml:CRSPROPERTYTYPE																																											
Properties	content: complex																																											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td><code>nilReason</code></td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:actuate</code></td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:href</code></td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:role</code></td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:show</code></td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:title</code></td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:type</code></td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>				QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	anyURI		optional	<code>nilReason</code>	gml:NilReasonType		optional	<code>xlink:actuate</code>	xlink:actuateType		optional	<code>xlink:arcrole</code>	xlink:arcroleType		optional	<code>xlink:href</code>	xlink:hrefType		optional	<code>xlink:role</code>	xlink:roleType		optional	<code>xlink:show</code>	xlink:showType		optional	<code>xlink:title</code>	xlink:titleAttrType		optional	<code>xlink:type</code>	xlink:typeType	simple	optional
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<code>xlink:title</code>	xlink:titleAttrType		optional																																									
<code>xlink:type</code>	xlink:typeType	simple	optional																																									

Element `gml:AbstractCRS`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:AbstractCRS specifies a coordinate reference system which is usually single but may be compound. This abstract complex type shall not be used, extended, or restricted, in a GML Application Schema, to define a concrete subtype with a meaning equivalent to a concrete subtype specified in this document.			

Diagram



Type	gml:AbstractCRSType								
Properties	<p>content: complex</p> <p>abstract: true</p>								
Substitution Group	<ul style="list-style-type: none"> gml:AbstractSingleCRS gml:AbstractGeneralDerivedCRS gml:GeodeticCRS gml:VerticalCRS gml:ProjectedCRS gml:DerivedCRS gml:EngineeringCRS gml:ImageCRS gml:TemporalCRS gml:GeographicCRS gml:GeocentricCRS gml:CompoundCRS 								
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:Definition 								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required	<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	
QName	Type	Use							
gml:id	ID	required							

Element gml:targetCRS

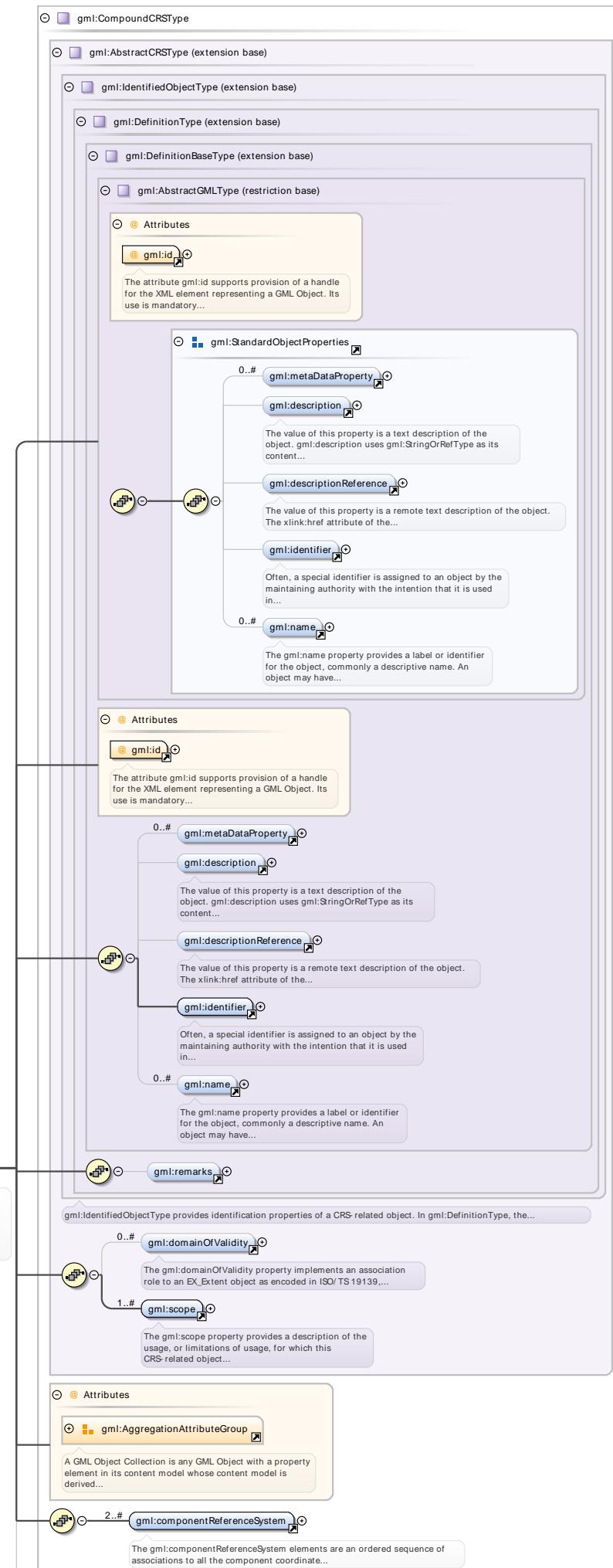
Namespace	http://www.opengis.net/gml/3.2																								
Annotations	gml:targetCRS is an association role to the target CRS (coordinate reference system) of this coordinate operation.																								
Diagram																									
Type	gml:CRSPROPERTYType																								
Properties	<p>content: complex</p>																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional
QName	Type	Fixed	Use																						
gml:remoteSchema	anyURI		optional																						
nilReason	gml:NilReasonType		optional																						
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xlink:arcrole	xlink:arcroleType		optional																						
xlink:href	xlink:hrefType		optional																						

QName	Type	Fixed	Use	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element **gml:CompoundCRS**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:CompoundCRS is a coordinate reference system describing the position of points through two or more independent coordinate reference systems. It is associated with a non-repeating sequence of two or more instances of SingleCRS.

Diagram



Type	gml:CompoundCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCRS		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

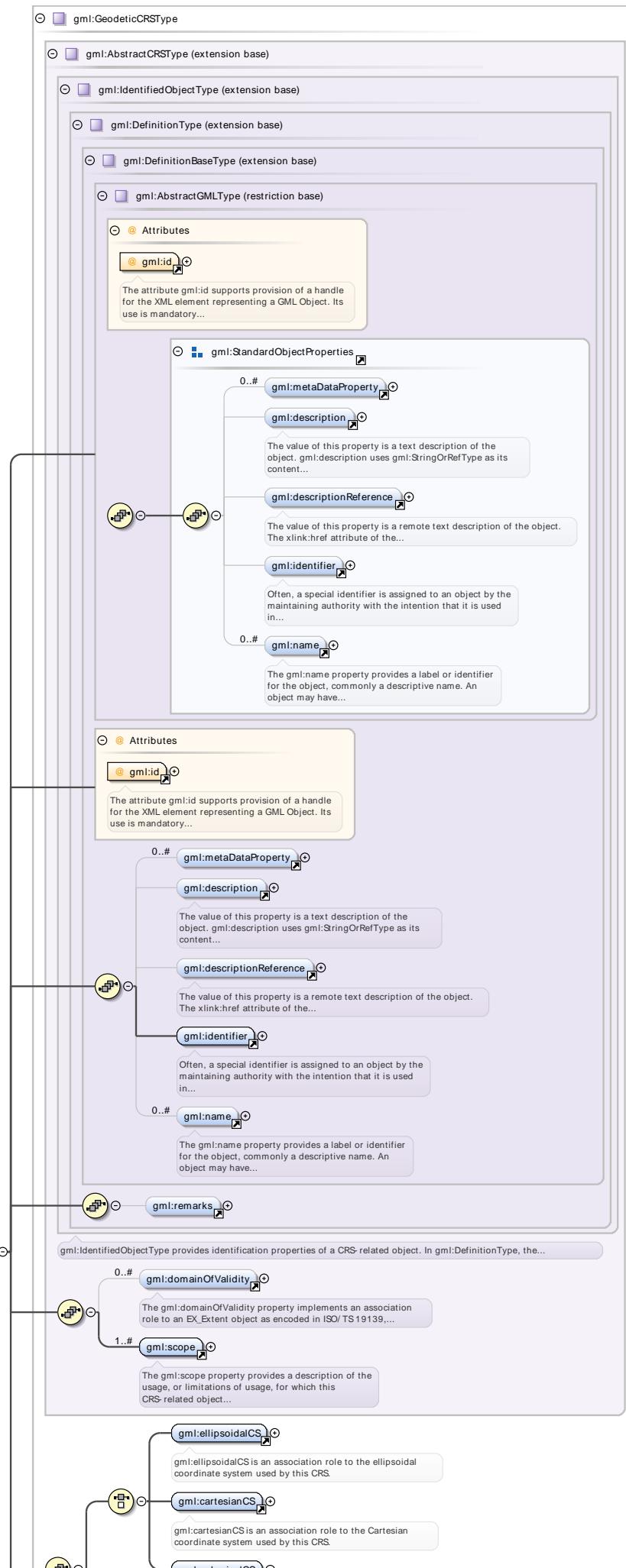
Element gml:componentReferenceSystem

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	The gml:componentReferenceSystem elements are an ordered sequence of associations to all the component coordinate reference systems included in this compound coordinate reference system. The gml:AggregationAttributeGroup should be used to specify that the gml:componentReferenceSystem properties are ordered.																																								
Diagram	<p>The diagram illustrates the structure of the gml:componentReferenceSystem element. It is an ordered sequence of associations to all component coordinate reference systems. The gml:AggregationAttributeGroup is used to specify that the properties are ordered. The element is associated with gml:SingleCRSPROPERTYType, which is a property type for association roles to a single coordinate reference system. It is also associated with gml:AbstractSingleCRS, which implements a coordinate reference system consisting of one coordinate system and one datum. Additionally, it is associated with gml:includesSingleCRS, which is a substitution for the element.</p>																																								
Type	gml:SingleCRSPROPERTYType																																								
Properties	content: complex																																								
Substitution Group	• gml:includesSingleCRS																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:type	xlink:typeType	simple	optional																																						

Element gml:GeodeticCRS

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	gml:GeodeticCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractSingleCRS		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element **gml:ellipsoidalCS**

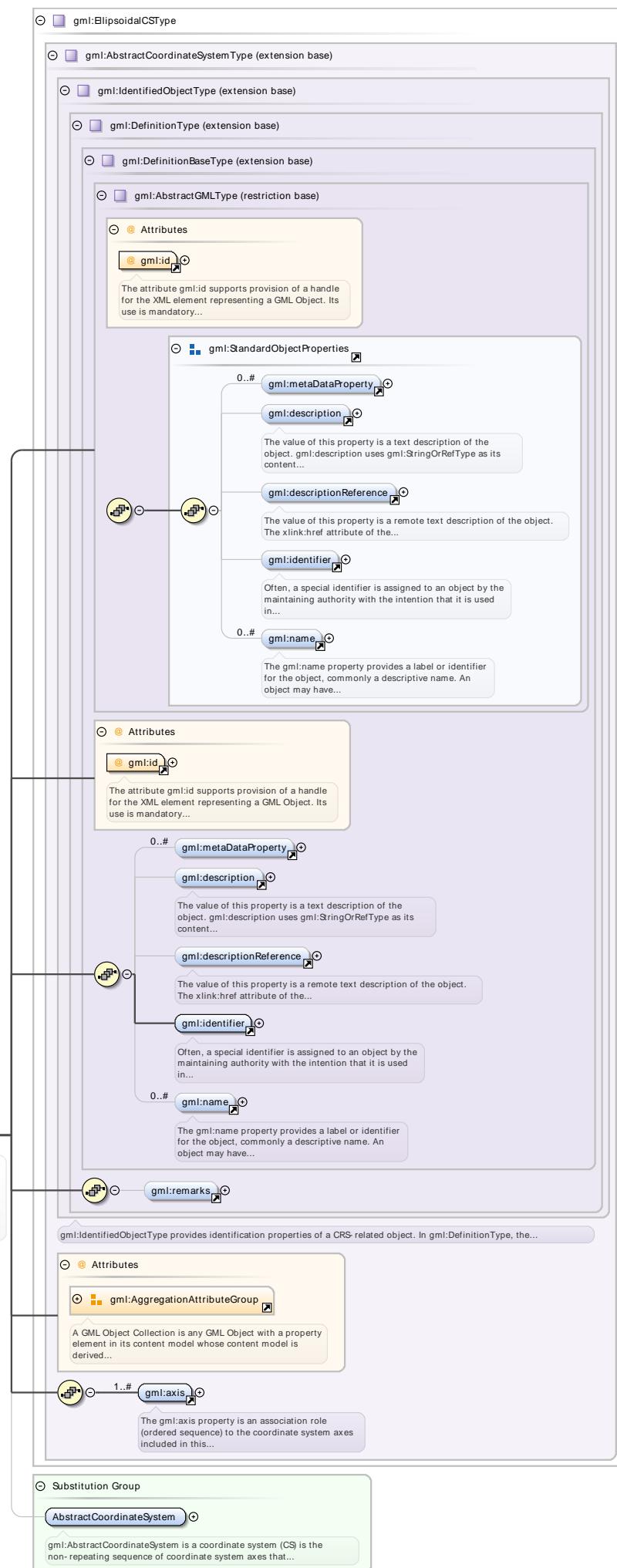
Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:ellipsoidalCS is an association role to the ellipsoidal coordinate system used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:EllipsoidalCSPropertyType. It is a property type for association roles to an ellipsoidal coordinate system. The type includes an 'Attributes' section with a 'gml:AssociationAttributeGroup' and an 'ellipsoidalCS' element. The 'ellipsoidalCS' element is described as an association role to the ellipsoidal coordinate system used by this CRS. The diagram also shows 'Substitutions' for the 'usesEllipsoidalCS' element.</p>			
Type	gml:EllipsoidalCSPropertyType			
Properties	content: complex			
Substitution Group	• gml:usesEllipsoidalCS			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element **gml:EllipsoidalCS**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:EllipsoidalCS is a two- or three-dimensional coordinate system in which position is specified by geodetic latitude, geodetic longitude, and (in the three-dimensional case) ellipsoidal height. An EllipsoidalCS shall have two or three gml:axis property elements; the number of associations shall equal the dimension of the CS.		

Schema documentation for MisPlanSummedUpTrip.xsd

Diagram



Type	gml:EllipsoidalCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:axis

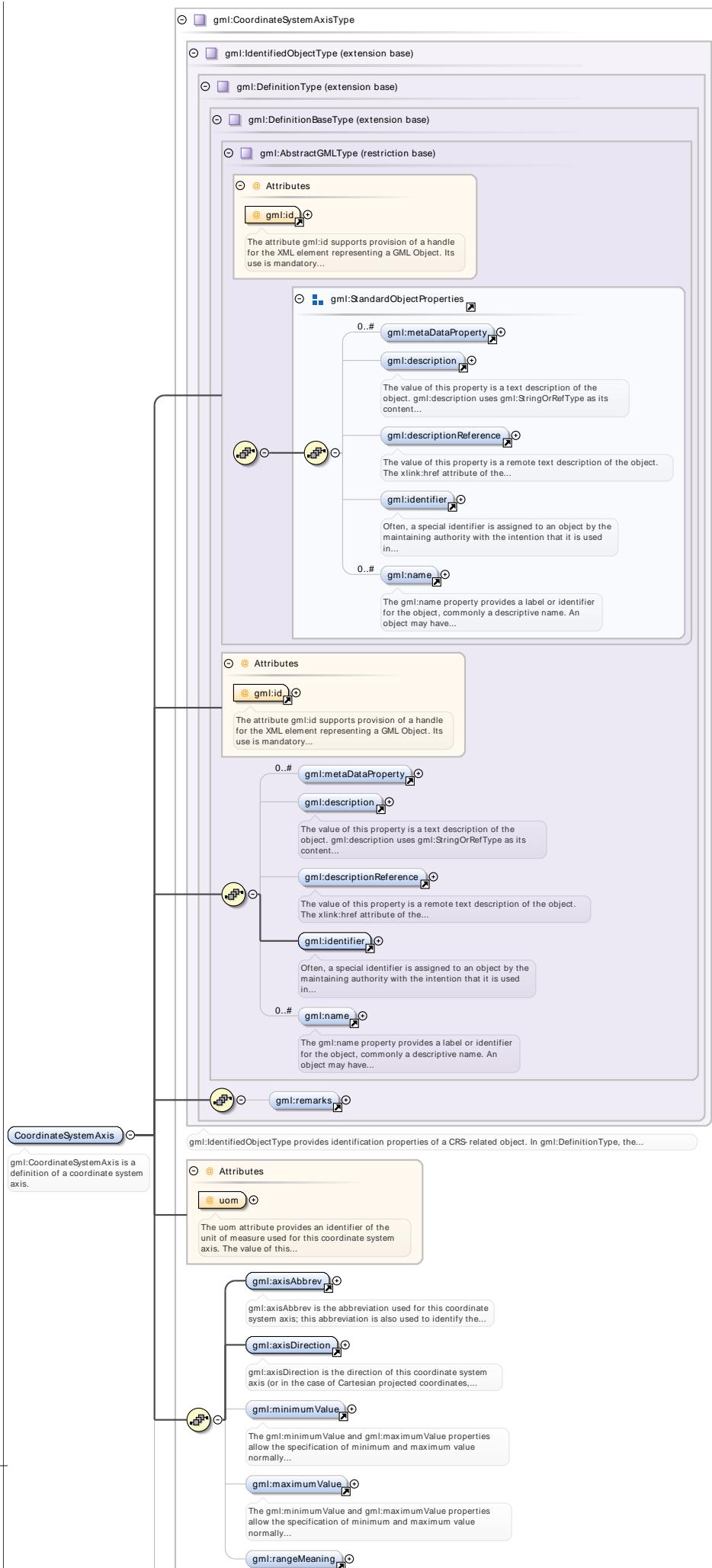
Namespace	http://www.opengis.net/gml/3.2																																										
Annotations	The gml:axis property is an association role (ordered sequence) to the coordinate system axes included in this coordinate system. The coordinate values in a coordinate tuple shall be recorded in the order in which the coordinate system axes associations are recorded, whenever those coordinates use a coordinate reference system that uses this coordinate system. The gml:AggregationAttributeGroup should be used to specify that the axis objects are ordered.																																										
Diagram	<p>The gml:axis property is an association role (ordered sequence) to the coordinate system axes included in this...</p>																																										
Type	gml:CoordinateSystemAxisPropertyType																																										
Properties	content: complex																																										
Substitution Group	• gml:usesAxis																																										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>			QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:type	xlink:typeType	simple	optional																																								

Element gml:CoordinateSystemAxis

Namespace	http://www.opengis.net/gml/3.2		
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Annotations	gml:CoordinateSystemAxis is a definition of a coordinate system axis.
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Diagram



Type	gml:CoordinateSystemAxisType		
Properties	content: complex		
Substitution Group Affiliation	• gml:Definition		
Attributes	QName	Type	Use
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	uom	gml:UomIdentifier	required
		The uom attribute provides an identifier of the unit of measure used for this coordinate system axis. The value of this coordinate in a coordinate tuple shall be recorded using this unit of measure, whenever those coordinates use a coordinate reference system that uses a coordinate system that uses this axis.	

Element gml:axisAbbrev

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:axisAbbrev is the abbreviation used for this coordinate system axis; this abbreviation is also used to identify the coordinates in the coordinate tuple. The codeSpace attribute may reference a source of more information on a set of standardized abbreviations, or on this abbreviation.		
Diagram			
Type	gml:CodeType		
Properties	content: complex		
Attributes	QName	Type	Use
	codeSpace	anyURI	optional

Element gml:axisDirection

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:axisDirection is the direction of this coordinate system axis (or in the case of Cartesian projected coordinates, the direction of this coordinate system axis at the origin). Within any set of coordinate system axes, only one of each pair of terms may be used. For earth-fixed CRSs, this direction is often approximate and intended to provide a human interpretable meaning to the axis. When a geodetic datum is used, the precise directions of the axes may therefore vary slightly from this approximate direction. The codeSpace attribute shall reference a source of information specifying the values and meanings of all the allowed string values for this property.		

<p>Diagram</p>	<pre> classDiagram class gml:CodeWithAuthorityType { <<gml:CodeType (restriction base)>> string @codeSpace } gml:CodeType < -- gml:CodeWithAuthorityType note over gml:CodeType: Built-in primitive type. The string datatype represents character strings in XML. note over gml:CodeWithAuthorityType: gml:CodeWithAuthorityType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term.... note over gml:CodeWithAuthorityType: gml:CodeWithAuthorityType requires that the codeSpace attribute is provided in an instance. note over axisDirection: gml:axisDirection is the direction of this coordinate system axis (or in the case of Cartesian projected coordinates,...) </pre>						
Type	gml:CodeWithAuthorityType						
Properties	content: complex						
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">QName</th><th style="text-align: left; padding: 2px;">Type</th><th style="text-align: left; padding: 2px;">Use</th></tr> </thead> <tbody> <tr> <td style="padding: 2px;">codeSpace</td><td style="padding: 2px;">anyURI</td><td style="padding: 2px;">required</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	required
QName	Type	Use					
codeSpace	anyURI	required					

Element gml:minimumValue

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>The gml:minimumValue and gml:maximumValue properties allow the specification of minimum and maximum value normally allowed for this axis, in the unit of measure for the axis. For a continuous angular axis such as longitude, the values wrap-around at this value. Also, values beyond this minimum/maximum can be used for specified purposes, such as in a bounding box. A value of minus infinity shall be allowed for the gml:minimumValue element, a value of plus infinity for the gml:maximumValue element. If these elements are omitted, the value is unspecified.</p>
Diagram	<pre> attributeDiagram attribute minimumValue type double note over minimumValue: The gml:minimumValue and gml:maximumValue properties allow the specification of minimum and maximum value normally... note over double: Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE... </pre>
Type	double
Properties	content: simple

Element gml:maximumValue

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>The gml:minimumValue and gml:maximumValue properties allow the specification of minimum and maximum value normally allowed for this axis, in the unit of measure for the axis. For a continuous angular axis such as longitude, the values wrap-around at this value. Also, values beyond this minimum/maximum can be used for specified purposes, such as in a bounding box. A value of minus infinity shall be allowed for the gml:minimumValue element, a value of plus infinity for the gml:maximumValue element. If these elements are omitted, the value is unspecified.</p>
Diagram	<pre> attributeDiagram attribute maximumValue type double note over maximumValue: The gml:minimumValue and gml:maximumValue properties allow the specification of minimum and maximum value normally... note over double: Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE... </pre>
Type	double
Properties	content: simple

Element `gml:rangeMeaning`

Namespace	http://www.opengis.net/gml/3.2						
Annotations	<p>gml:rangeMeaning describes the meaning of axis value range specified by gml:minimumValue and gml:maximumValue. This element shall be omitted when both gml:minimumValue and gml:maximumValue are omitted. This element should be included when gml:minimumValue and/or gml:maximumValue are included. If this element is omitted when the gml:minimumValue and/or gml:maximumValue are included, the meaning is unspecified. The codeSpace attribute shall reference a source of information specifying the values and meanings of all the allowed string values for this property.</p>						
Diagram	<p>The diagram illustrates the inheritance of the <code>gml:rangeMeaning</code> element. It shows that <code>gml:rangeMeaning</code> is a specialization of <code>gml:CodeWithAuthorityType</code>. <code>gml:CodeWithAuthorityType</code> is a restriction of <code>gml:CodeType</code>, which is a restriction of the primitive type <code>string</code>. The <code>string</code> type is described as a built-in primitive type representing character strings in XML. The <code>gml:CodeType</code> type is described as a generalized type for terms, keywords, or names, adding a <code>codeSpace</code> attribute. The <code>gml:CodeWithAuthorityType</code> type also requires the <code>codeSpace</code> attribute. The <code>rangeMeaning</code> element itself is described as specifying the meaning of axis value range by gml:minimumValue and gml:maximumValue.</p>						
Type	<code>gml:CodeWithAuthorityType</code>						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>codeSpace</code></td> <td>anyURI</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	<code>codeSpace</code>	anyURI	required
QName	Type	Use					
<code>codeSpace</code>	anyURI	required					

Element `gml:cartesianCS`

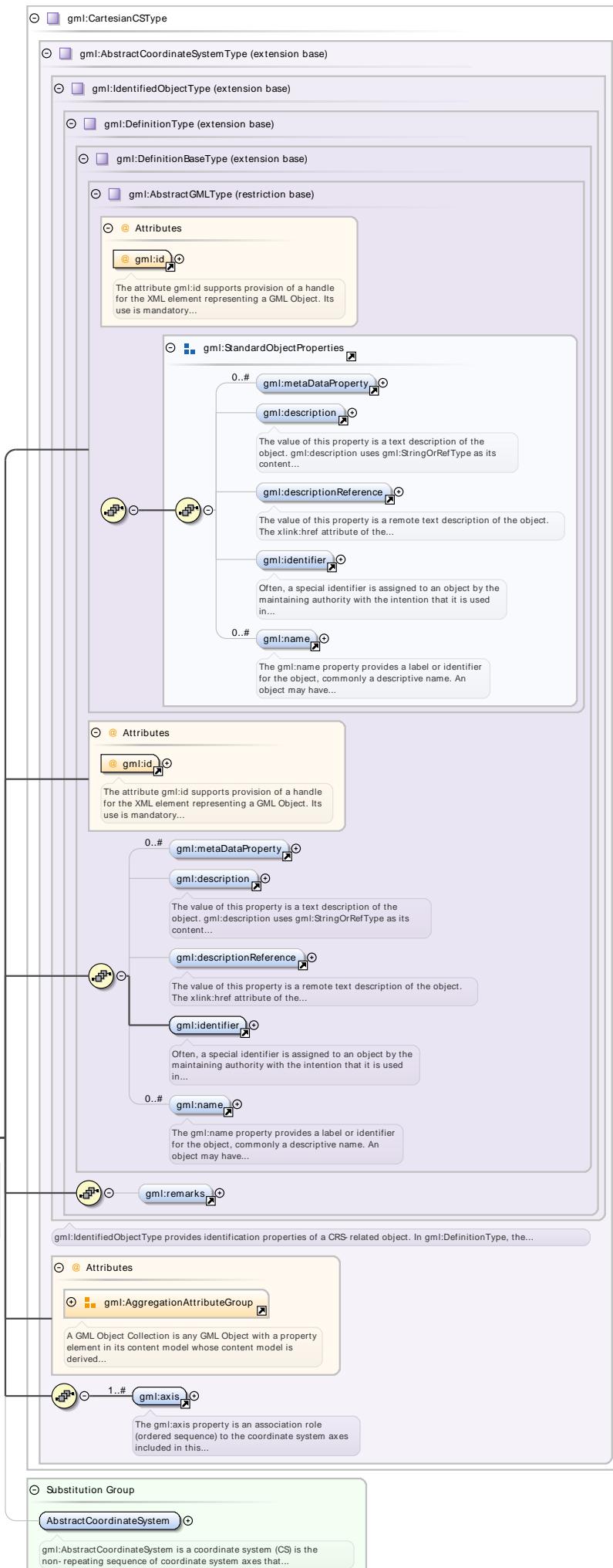
Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:cartesianCS is an association role to the Cartesian coordinate system used by this CRS.</p>
Diagram	<p>The diagram illustrates the inheritance of the <code>gml:cartesianCS</code> element. It shows that <code>gml:cartesianCS</code> is a specialization of <code>gml:CartesianCSPropertyType</code>. <code>gml:CartesianCSPropertyType</code> is a property type for association roles to a Cartesian coordinate system. It includes an <code>gml:AssociationAttributeGroup</code> for XLink components. The <code>gml:CartesianCS</code> element itself is described as a 1-, 2-, or 3-dimensional coordinate system. It also includes a <code>usesCartesianCS</code> substitution.</p>
Type	<code>gml:CartesianCSPropertyType</code>
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> • <code>gml:usesCartesianCS</code>

Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	gml:NilReasonType		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Element **gml:CartesianCS**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:CartesianCS is a 1-, 2-, or 3-dimensional coordinate system. In the 1-dimensional case, it contains a single straight coordinate axis. In the 2- and 3-dimensional cases gives the position of points relative to orthogonal straight axes. In the multi-dimensional case, all axes shall have the same length unit of measure. A CartesianCS shall have one, two, or three gml:axis property elements.

Diagram



Type	gml:CartesianCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

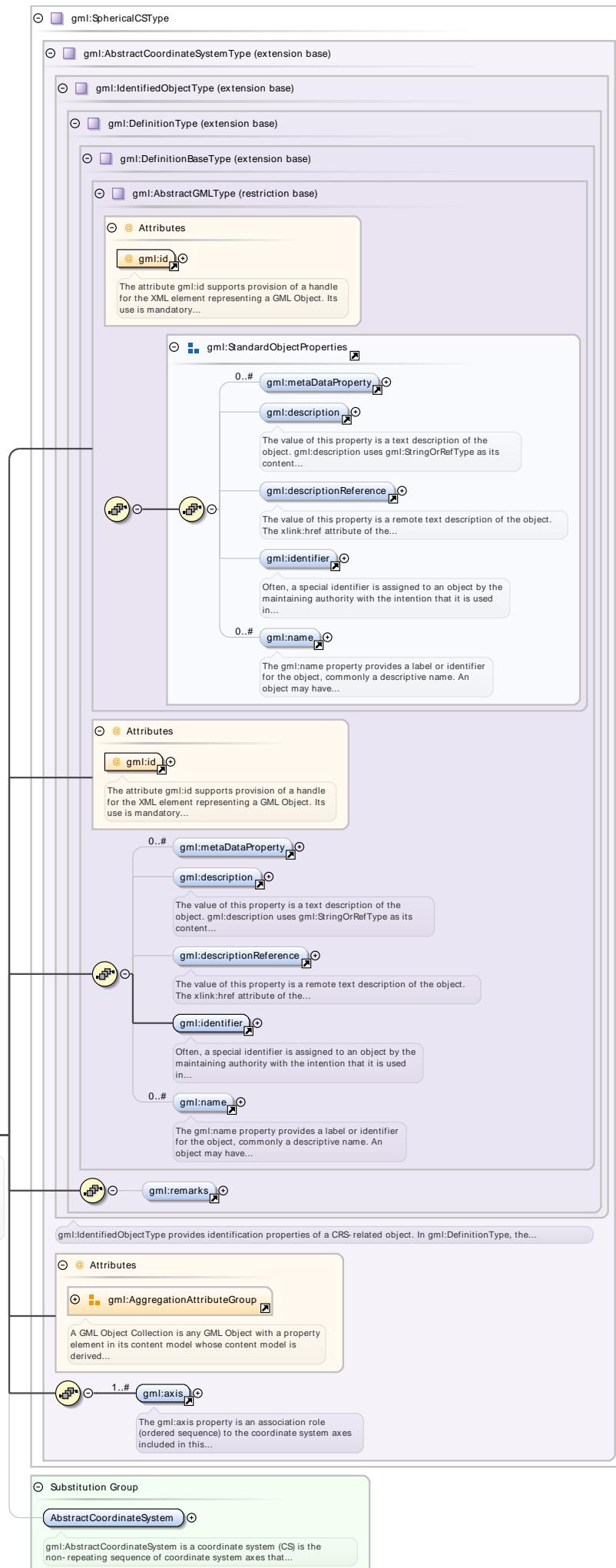
Element gml:sphericalCS

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	gml:sphericalCS is an association role to the spherical coordinate system used by this CRS.																																								
Diagram	<p>The diagram illustrates the structure of the gml:SphericalCSPropertyType. It is a property type for association roles to a spherical coordinate system. It includes an association attribute group (gml:AssociationAttributeGroup) which supports hypertext referencing. The diagram also shows the use of the gml:sphericalCS element, which is an association role to the spherical coordinate system used by this CRS. There are also substitution and usesSphericalCS components.</p>																																								
Type	gml:SphericalCSPropertyType																																								
Properties	content: complex																																								
Substitution Group	• gml:usesSphericalCS																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:SphericalCS

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:SphericalCS is a three-dimensional coordinate system with one distance measured from the origin and two angular coordinates. A SphericalCS shall have three gml:axis property elements.

Diagram



Type	gml:SphericalCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

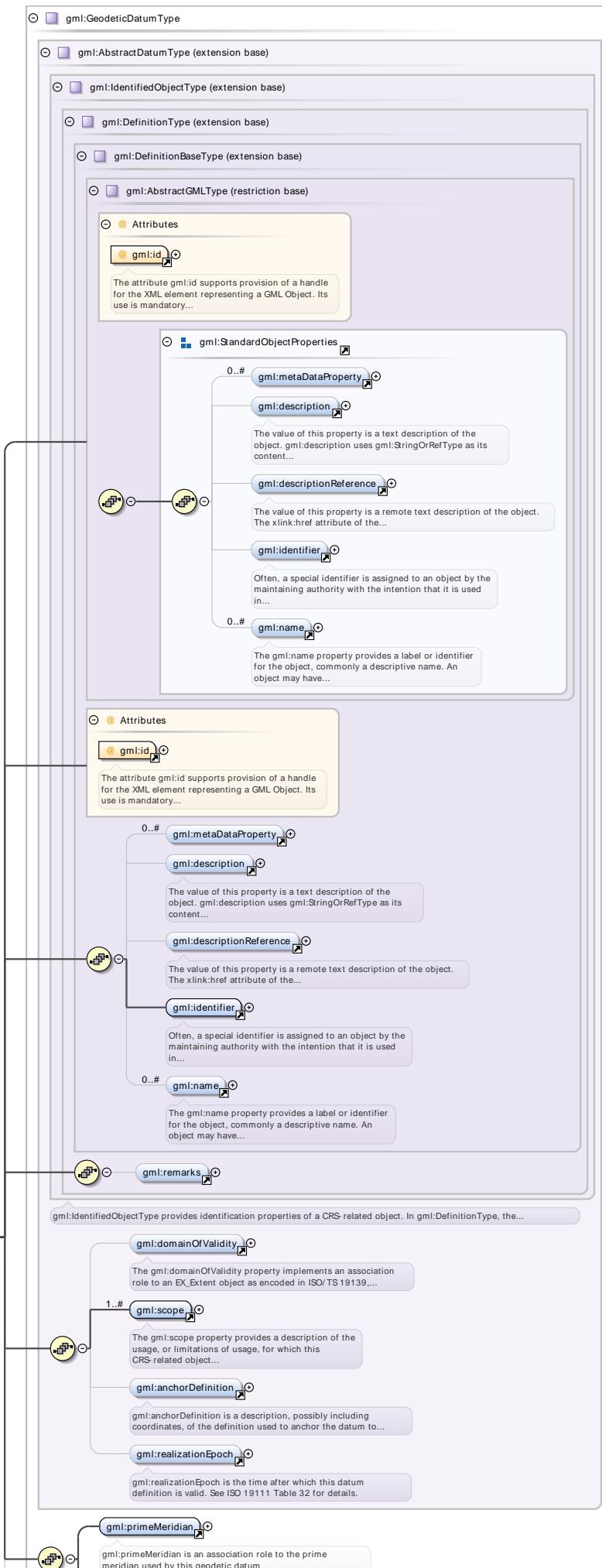
Element gml:geodeticDatum

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	gml:geodeticDatum is an association role to the geodetic datum used by this CRS.																																								
Diagram	<p>The diagram illustrates the structure of the gml:GeodeticDatumPropertyType. It shows a central box for 'gml:GeodeticDatumPropertyType' with an 'Attributes' section containing 'gml:AssociationAttributeGroup'. A callout box explains that XLink components support hypertext referencing. Another callout box for 'gml:GeodeticDatum' states it defines the precise location and orientation in 3D space. A 'geodeticDatum' element is shown with a callout explaining its role as an association to a geodetic datum. A 'usesGeodeticDatum' substitution is also shown.</p>																																								
Type	gml:GeodeticDatumPropertyType																																								
Properties	content: complex																																								
Substitution Group	• gml:usesGeodeticDatum																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:GeodeticDatum

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:GeodeticDatum is a geodetic datum defines the precise location and orientation in 3-dimensional space of a defined ellipsoid (or sphere), or of a Cartesian coordinate system centered in this ellipsoid (or sphere).

Diagram



Type	gml:GeodeticDatumType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractDatum		
Attributes	QName	Type	Use
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element gml:anchorDefinition

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:anchorDefinition is a description, possibly including coordinates, of the definition used to anchor the datum to the Earth. Also known as the "origin", especially for engineering and image datums. The codeSpace attribute may be used to reference a source of more detailed on this point or surface, or on a set of such descriptions. - For a geodetic datum, this point is also known as the fundamental point, which is traditionally the point where the relationship between geoid and ellipsoid is defined. In some cases, the "fundamental point" may consist of a number of points. In those cases, the parameters defining the geoid/ellipsoid relationship have been averaged for these points, and the averages adopted as the datum definition. - For an engineering datum, the anchor definition may be a physical point, or it may be a point with defined coordinates in another CRS. - For an image datum, the anchor definition is usually either the centre of the image or the corner of the image. - For a temporal datum, this attribute is not defined. Instead of the anchor definition, a temporal datum carries a separate time origin of type DateTime.		
Diagram	<p>The diagram illustrates the structure of gml:CodeType. It starts with a box for gml:CodeType, which contains a string (a built-in primitive type for character strings) and attributes (including codeSpace). Below this is a box for gml:anchorDefinition, which is described as a description possibly including coordinates of the definition used to anchor the datum. A line connects gml:CodeType to gml:anchorDefinition. To the right, a box for gml:Substitutions contains anchorPoint. A line connects gml:anchorDefinition to gml:Substitutions.</p>		
Type	gml:CodeType		
Properties	content: complex		
Substitution Group	• gml:anchorPoint		
Attributes	QName	Type	Use
	codeSpace	anyURI	optional

Element gml:realizationEpoch

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:realizationEpoch is the time after which this datum definition is valid. See ISO 19111 Table 32 for details.		
Diagram	<p>The diagram shows realizationEpoch connected to date (a built-in primitive type for calendar dates). A box to the left of realizationEpoch contains the annotation: "gml:realizationEpoch is the time after which this datum definition is valid. See ISO 19111 Table 32 for details."</p>		
Type	date		
Properties	content: simple		

Element `gml:primeMeridian`

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	gml:primeMeridian is an association role to the prime meridian used by this geodetic datum.																																								
Diagram	<p>Diagram illustrating the schema component <code>gml:PrimeMeridianPropertyType</code>:</p> <ul style="list-style-type: none"> Attributes: <code>gml:AssociationAttributeGroup</code> Description: XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,... Element: <code>gml:PrimeMeridian</code> Description: A <code>gml:PrimeMeridian</code> defines the origin from which longitude values are determined. The default value for the prime... Substitutions: <code>usesPrimeMeridian</code> 																																								
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QName	Type	Fixed	Use																																						
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Element `gml:PrimeMeridian`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A <code>gml:PrimeMeridian</code> defines the origin from which longitude values are determined. The default value for the prime meridian <code>gml:identifier</code> value is "Greenwich".

Diagram

	<p>Diagram illustrating the schema for gml:PrimeMeridianPropertyType. The diagram shows the following components:</p> <ul style="list-style-type: none"> Attributes: gml:AssociationAttributeGroup (XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...) Associations: gml:PrimeMeridian (A gml:PrimeMeridian defines the origin from which longitude values are determined. The default value for the prime...) Annotations: primeMeridian (gml:primeMeridian is an association role to the prime meridian used by this geodetic datum.) Substitutions: usesPrimeMeridian 									
Type	gml:PrimeMeridianType									
Properties	content: complex									
Substitution Group Affiliation	• gml:Definition									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>ID</td><td>required</td></tr> <tr> <td></td><td></td><td>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
QName	Type	Use								
gml:id	ID	required								
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.								

Element **gml:greenwichLongitude**

Namespace	http://www.opengis.net/gml/3.2							
Annotations	gml:greenwichLongitude is the longitude of the prime meridian measured from the Greenwich meridian, positive eastward. If the value of the prime meridian "name" is "Greenwich" then the value of greenwichLongitude shall be 0 degrees.							
Diagram	<p>Diagram illustrating the schema for gml:AngleType. The diagram shows the following components:</p> <ul style="list-style-type: none"> Attributes: gml:MeasureType (extension base) (double) (Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type (IEEE...)) Annotations: greenwichLongitude (gml:greenwichLongitude is the longitude of the prime meridian measured from the Greenwich meridian, positive eastward....) Substitutions: gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure... 							
Type	gml:AngleType							
Properties	content: complex							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required	
QName	Type	Use						
uom	gml:UomIdentifier	required						

Element `gml:ellipsoid`

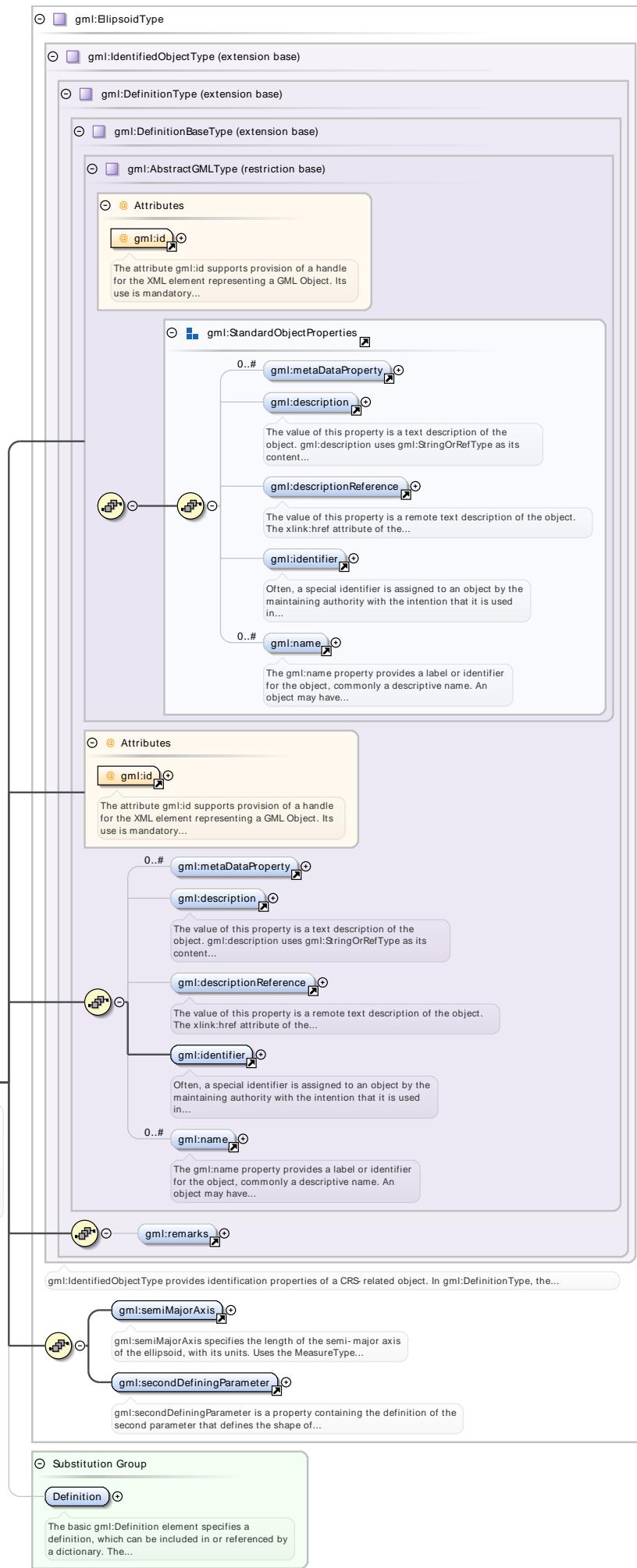
Namespace	http://www.opengis.net/gml/3.2														
Annotations	gml:ellipsoid is an association role to the ellipsoid used by this geodetic datum.														
Diagram	<p>A gml:Ellipsoid is a geometric figure that may be used to describe the approximate shape of the earth. In mathematical...</p> <p>The basic gml:Definition element specifies a definition, which can be included in or referenced by a dictionary. The...</p>														
Type	gml:EllipsoidPropertyType														
Properties	content: complex														
Substitution Group	<ul style="list-style-type: none"> gml:usesEllipsoid 														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td>optional</td> <td></td> </tr> </tbody> </table>	QName	Type	Fixed	Use		<code>gml:remoteSchema</code>	anyURI		optional					
QName	Type	Fixed	Use												
<code>gml:remoteSchema</code>	anyURI		optional												

QName	Type	Fixed	Use	
nilReason	gml:NilReasonType		optional	
xlink:actuate	xlink:actuateType		optional	
xlink:arcrole	xlink:arcroleType		optional	
xlink:href	xlink:hrefType		optional	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element gml:Ellipsoid

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:Ellipsoid is a geometric figure that may be used to describe the approximate shape of the earth. In mathematical terms, it is a surface formed by the rotation of an ellipse about its minor axis.

Diagram



Type	gml:EllipsoidType		
Properties	content: complex		
Substitution Group Affiliation	• gml:Definition		
Attributes	QName	Type	Use
	gml:id	ID	required
			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element gml:semiMajorAxis

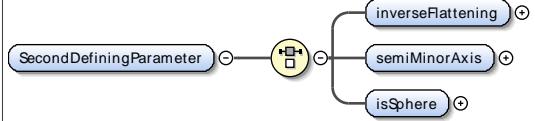
Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:semiMajorAxis specifies the length of the semi-major axis of the ellipsoid, with its units. Uses the MeasureType with the restriction that the unit of measure referenced by uom must be suitable for a length, such as metres or feet.		
Diagram			
Type	gml:MeasureType		
Properties	content:	complex	
Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

Element gml:secondDefiningParameter

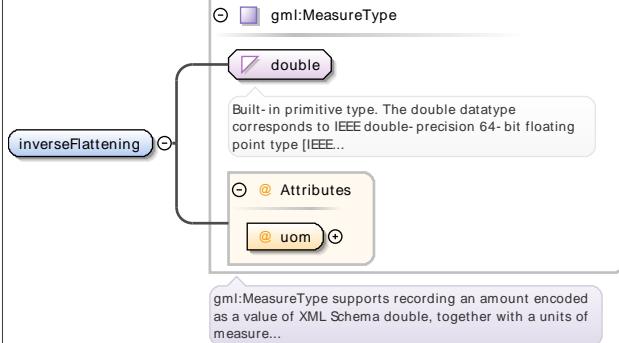
Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:secondDefiningParameter is a property containing the definition of the second parameter that defines the shape of an ellipsoid. An ellipsoid requires two defining parameters: semi-major axis and inverse flattening or semi-major axis and semi-minor axis. When the reference body is a sphere rather than an ellipsoid, only a single defining parameter is required, namely the radius of the sphere; in that case, the semi-major axis "degenerates" into the radius of the sphere. The inverseFlattening element contains the inverse flattening value of the ellipsoid. This value is a scale factor (or ratio). It uses gml:LengthType with the restriction that the unit of measure referenced by the uom attribute must be suitable for a scale factor, such as percent, permil, or parts-per-million. The semiMinorAxis element contains the length of the semi-minor axis of the ellipsoid. When the isSphere element is included, the ellipsoid is degenerate and is actually a sphere. The sphere is completely defined by the semi-major axis, which is the radius of the sphere.		
Diagram			
Properties	content:	complex	

Element gml:SecondDefiningParameter

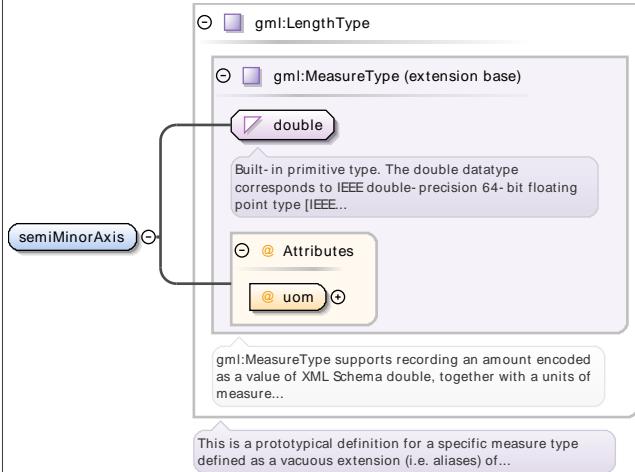
Namespace	http://www.opengis.net/gml/3.2		

Diagram	
Properties	content: complex

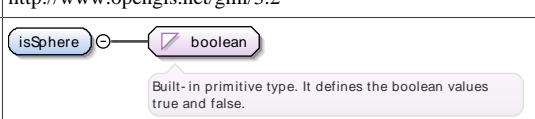
Element `gml:SecondDefiningParameter / gml:inverseFlattening`

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:MeasureType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element `gml:SecondDefiningParameter / gml:semiMinorAxis`

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Type	gml:LengthType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element `gml:SecondDefiningParameter / gml:isSphere`

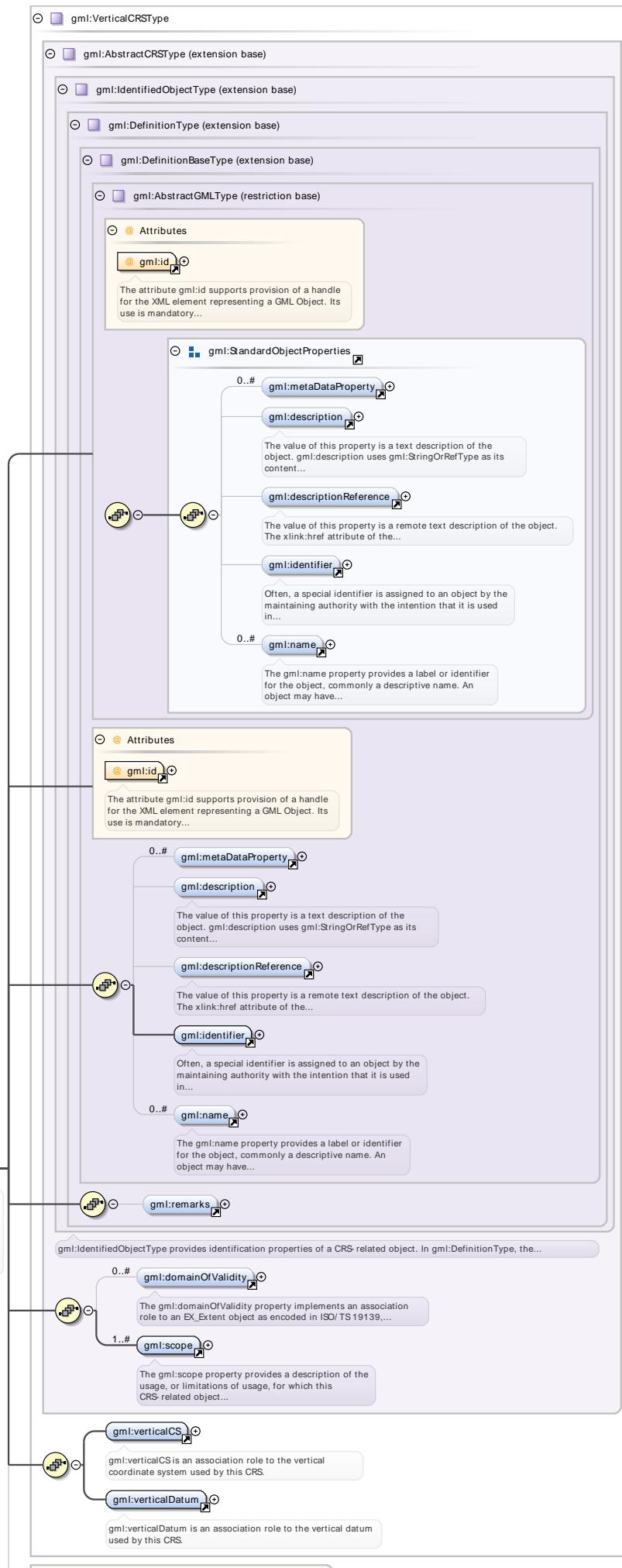
Namespace	http://www.opengis.net/gml/3.2
Diagram	

Type	boolean
Properties	<p>content: simple</p> <hr/> <p>default: true</p>

Element **gml:VerticalCRS**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:VerticalCRS is a 1D coordinate reference system used for recording heights or depths. Vertical CRSs make use of the direction of gravity to define the concept of height or depth, but the relationship with gravity may not be straightforward. By implication, ellipsoidal heights (h) cannot be captured in a vertical coordinate reference system. Ellipsoidal heights cannot exist independently, but only as an inseparable part of a 3D coordinate tuple defined in a geographic 3D coordinate reference system.</p>

Diagram



Type	gml:VerticalCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractSingleCRS		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

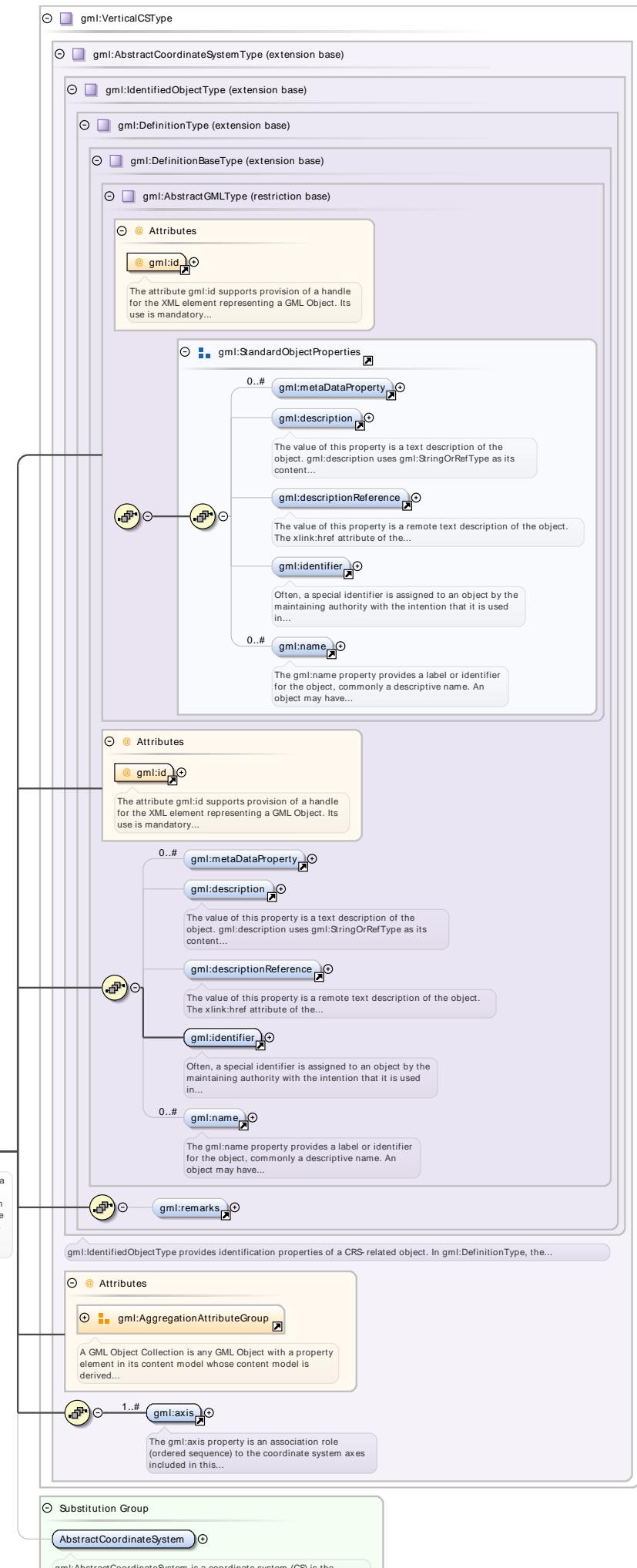
Element gml:verticalCS

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:verticalCS is an association role to the vertical coordinate system used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:VerticalCSPropertyType. It is a property type for association roles to a vertical coordinate system. The structure includes:</p> <ul style="list-style-type: none"> gml:VerticalCSPropertyType (Root node) Attributes (Group) <ul style="list-style-type: none"> gml:AssociationAttributeGroup (Group) <ul style="list-style-type: none"> XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group... gml:VerticalCS (Element) <ul style="list-style-type: none"> gml:VerticalCS is a one-dimensional coordinate system used to record the heights or depths of points. Such a coordinate... Substitutions (Group) <ul style="list-style-type: none"> usesVerticalCS (Element) <ul style="list-style-type: none"> gml:VerticalCSPropertyType is a property type for association roles to a vertical coordinate system, either referencing... <p>A callout box points to the verticalCS element with the annotation: "gml:verticalCS is an association role to the vertical coordinate system used by this CRS."</p>			
Type	gml:VerticalCSPropertyType			
Properties	content: complex			
Substitution Group	• gml:usesVerticalCS			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:VerticalCS

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:VerticalCS is a one-dimensional coordinate system used to record the heights or depths of points. Such a coordinate system is usually dependent on the Earth's gravity field, perhaps loosely as when atmospheric pressure is the basis for the vertical coordinate system axis. A VerticalCS shall have one gml:axis property element.		

Diagram



Type	gml:VerticalCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

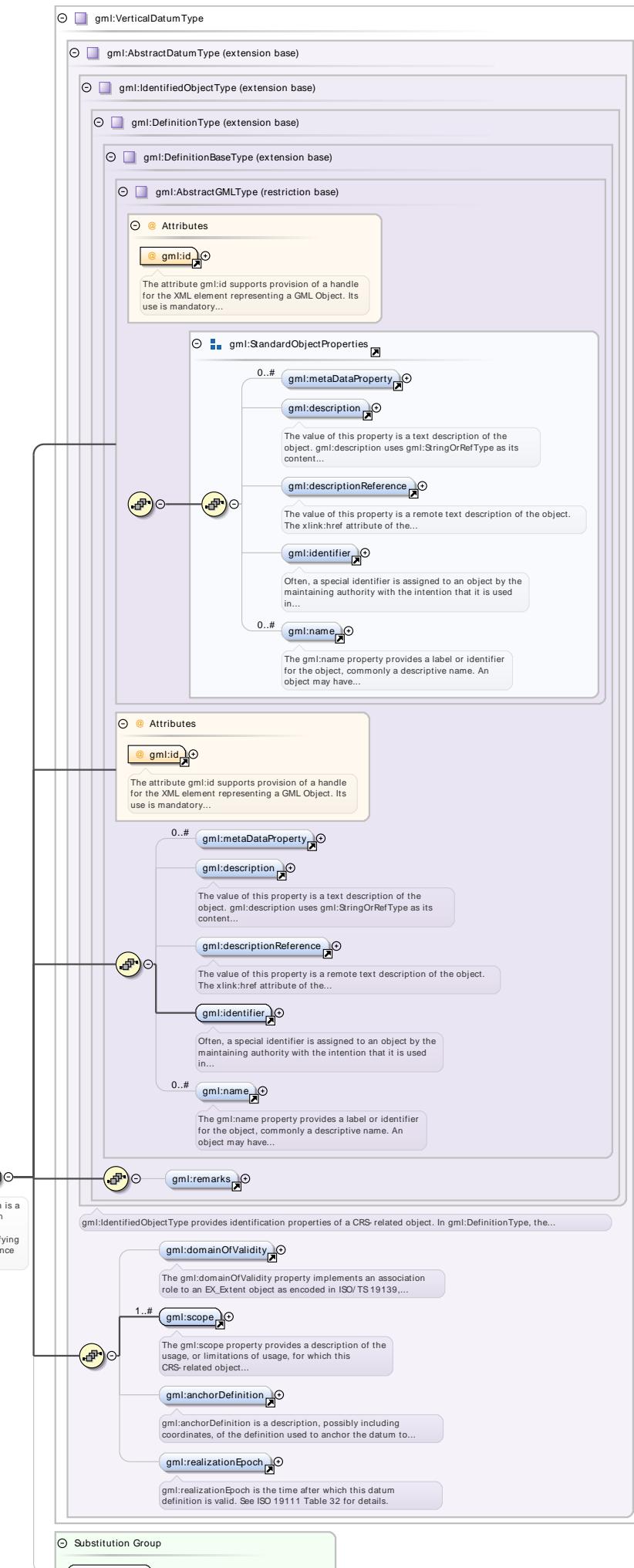
Element gml:verticalDatum

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	gml:verticalDatum is an association role to the vertical datum used by this CRS.																																								
Diagram	<p>The diagram illustrates the structure of the gml:VerticalDatumPropertyType. It is a property type for association roles to a vertical datum. It includes an 'Attributes' group containing an 'AssociationAttributeGroup' (highlighted in orange), which supports XLink components for hypertext referencing. The 'verticalDatum' element is shown as an association role to a vertical datum, with a note explaining its purpose. A 'usesVerticalDatum' substitution is also shown.</p>																																								
Type	gml:VerticalDatumPropertyType																																								
Properties	content: complex																																								
Substitution Group	• gml:usesVerticalDatum																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:VerticalDatum

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:VerticalDatum is a textual description and/or a set of parameters identifying a particular reference level surface used as a zero-height surface, including its position with respect to the Earth for any of the height types recognized by this International Standard.

Diagram

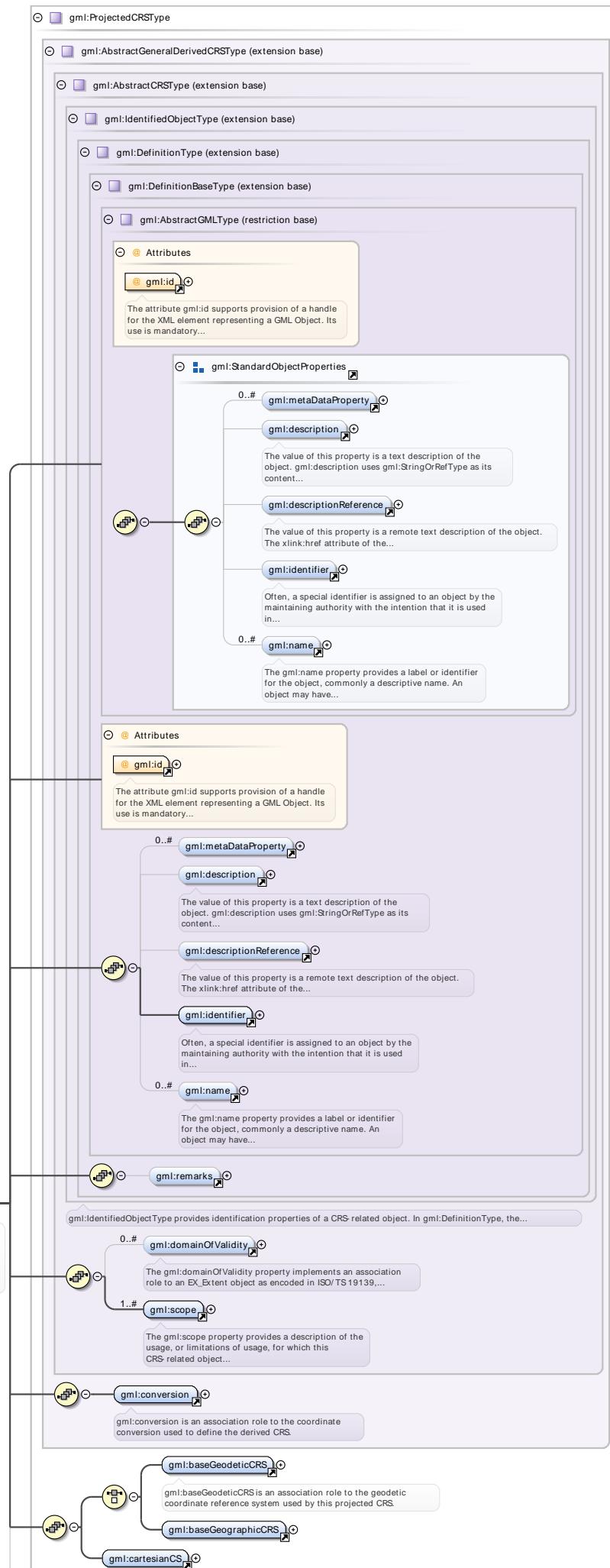


Type	gml:VerticalDatumType										
Properties	content: complex										
Substitution Group Affiliation	• gml:AbstractDatum										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		gml:id	ID	required		<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	
QName	Type	Use									
gml:id	ID	required									

Element **gml:ProjectedCRS**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:ProjectedCRS is a 2D coordinate reference system used to approximate the shape of the earth on a planar surface, but in such a way that the distortion that is inherent to the approximation is carefully controlled and known. Distortion correction is commonly applied to calculated bearings and distances to produce values that are a close match to actual field values.</p>

Diagram



Type	gml:ProjectedCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractGeneralDerivedCRS		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:baseGeodeticCRS

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:baseGeodeticCRS is an association role to the geodetic coordinate reference system used by this projected CRS.		
Diagram			
Type	gml:GeodeticCRSPropertyType		
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
	xlink:type	xlink:typeType	simple
			optional

Element gml:baseGeographicCRS

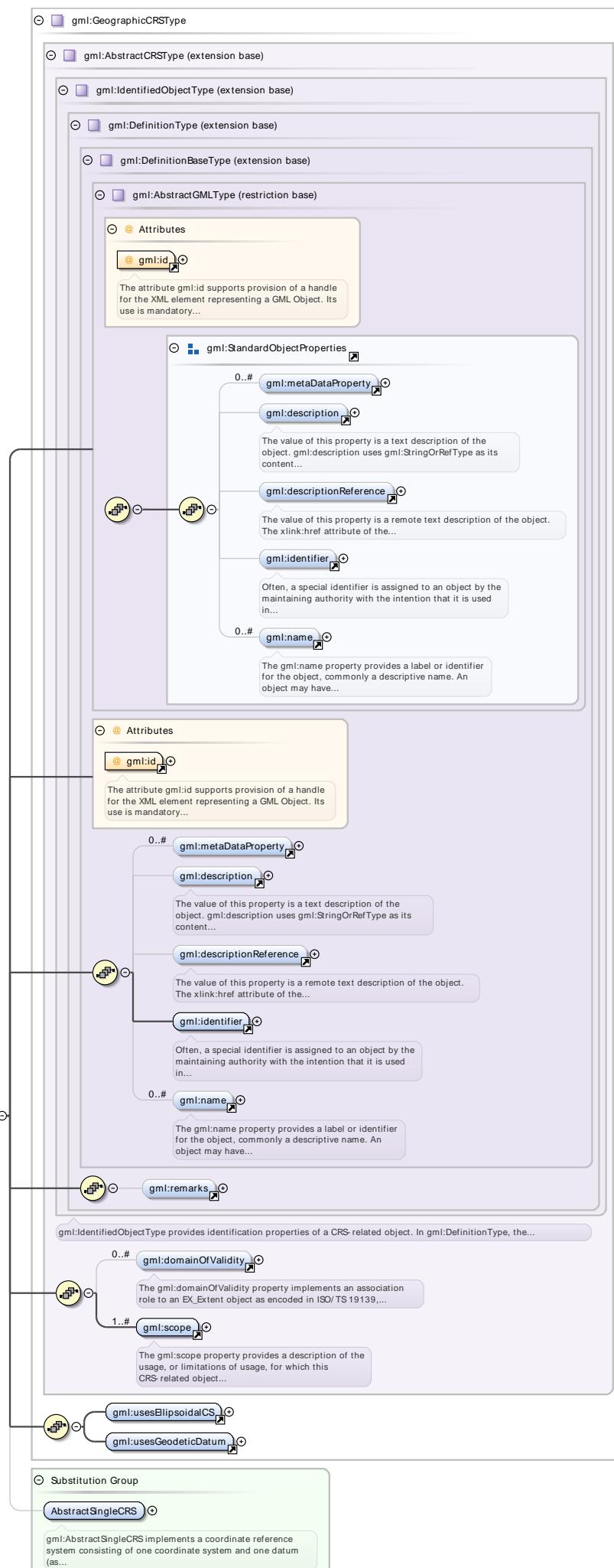
Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	gml:GeographicCRSPropertyType		

Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element **gml:GeographicCRS**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	gml:GeographicCRSType		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractSingleCRS 		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

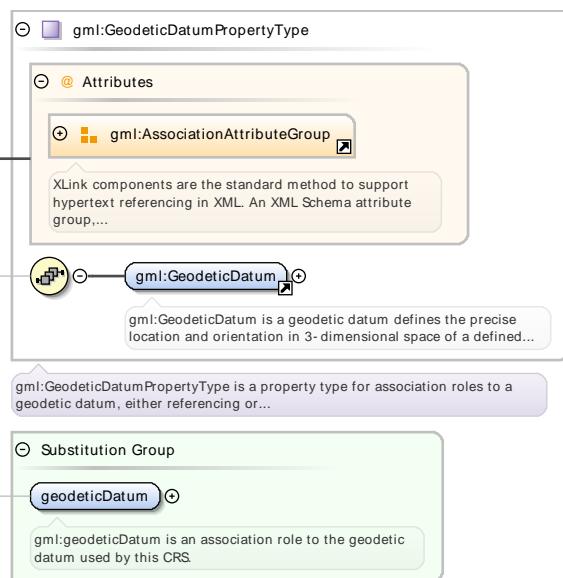
Element gml:usesEllipsoidalCS

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram illustrates the structure of the gml:EllipsoidalCSPropertyType element. It shows the following components:</p> <ul style="list-style-type: none"> gml:EllipsoidalCSPropertyType (Property Type): Contains attributes and a substitution group. Attributes (Group): Contains the gml:AssociationAttributeGroup. gml:AssociationAttributeGroup (Group): Describes XLink components for hypertext referencing. gml:EllipsoidalCS (Type): Describes a two- or three-dimensional coordinate system using geodetic latitude. Substitution Group (Group): Contains the ellipsoidalCS element. ellipsoidalCS (Type): Describes an association role to the ellipsoidal coordinate system used by this CRS. 		
Type	gml:EllipsoidalCSPropertyType		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:ellipsoidalCS 		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
	xlink:type	xlink:typeType	simple
			optional

Element gml:usesGeodeticDatum

Namespace	http://www.opengis.net/gml/3.2		
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Diagram



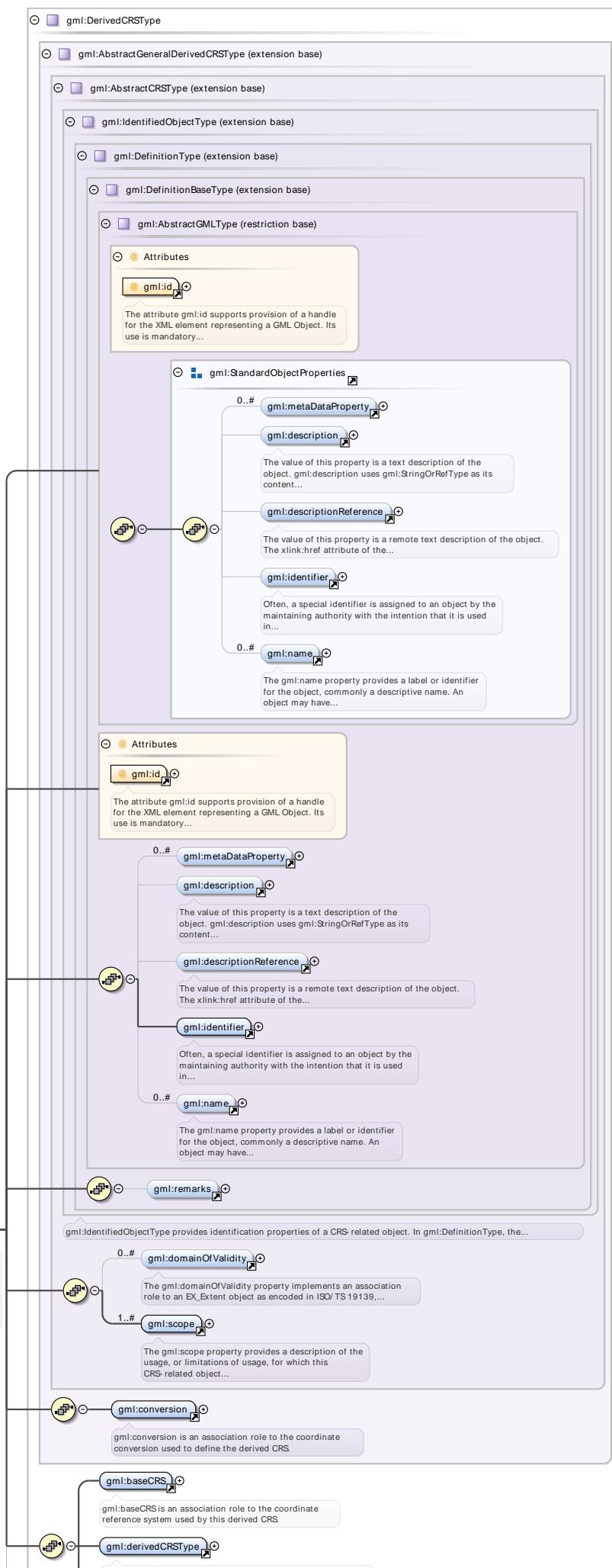
Type	gml:GeodeticDatumPropertyType
Properties	content: complex
Substitution Group	• gml:geodeticDatum
Affiliation	

Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:DerivedCRS

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:DerivedCRS is a single coordinate reference system that is defined by its coordinate conversion from another single coordinate reference system known as the base CRS. The base CRS can be a projected coordinate reference system, if this DerivedCRS is used for a georectified grid coverage as described in ISO 19123, Clause 8.

Diagram



Type	gml:DerivedCRSType										
Properties	content: complex										
Substitution Group Affiliation	• gml:AbstractGeneralDerivedCRS										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use									
gml:id	ID	required									

Element **gml:baseCRS**

Namespace	http://www.opengis.net/gml/3.2																																										
Annotations	gml:baseCRS is an association role to the coordinate reference system used by this derived CRS.																																										
Diagram																																											
Type	gml:SingleCRSPROPERTYTYPE																																										
Properties	content: complex																																										
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xlink:show	xlink:showType		optional																																								
xlink:title	xlink:titleAttrType		optional																																								
xlink:type	xlink:typeType	simple	optional																																								

Element **gml:derivedCRSType**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	The gml:derivedCRSType property describes the type of a derived coordinate reference system. The required codeSpace attribute shall reference a source of information specifying the values and meanings of all the allowed string values for this property.		

Diagram	<p>gml:CodeWithAuthorityType</p> <p>gml:CodeType (restriction base)</p> <p>string</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Attributes</p> <p>@codeSpace</p> <p>gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,...</p> <p>Attributes</p> <p>@codeSpace</p> <p>gml:CodeWithAuthorityType requires that the codeSpace attribute is provided in an instance.</p> <p>derivedCRSType</p> <p>The gml:derivedCRSType property describes the type of a derived coordinate reference system. The required codeSpace...</p>						
Type	gml:CodeWithAuthorityType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>codeSpace</td><td>anyURI</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	required
QName	Type	Use					
codeSpace	anyURI	required					

Element gml:coordinateSystem

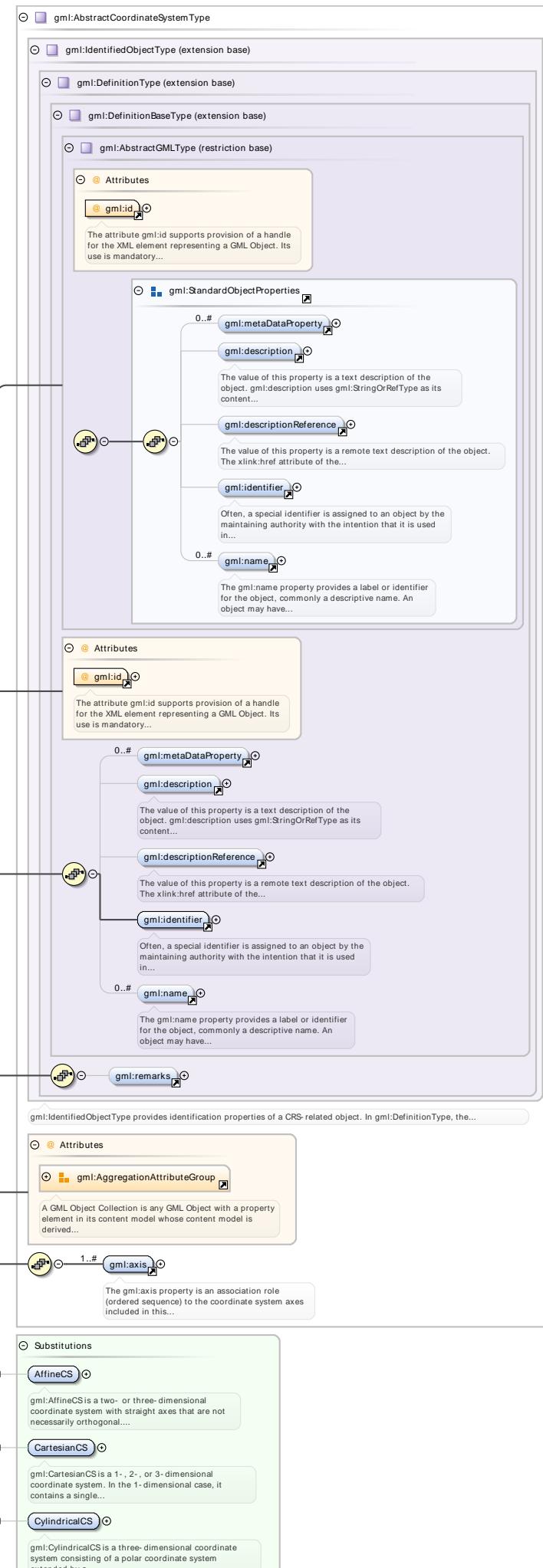
Namespace	http://www.opengis.net/gml/3.2																															
Annotations	An association role to the coordinate system used by this CRS.																															
Diagram	<p>gml:CoordinateSystemPropertyType</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...</p> <p>gml:AbstractCoordinateSystem</p> <p>gml:CoordinateSystemPropertyType is a property type for association roles to a coordinate system, either referencing or...</p> <p>Substitutions</p> <p>usesCS</p> <p>An association role to the coordinate system used by this CRS.</p>																															
Type	gml:CoordinateSystemPropertyType																															
Properties	content: complex																															
Substitution Group	<ul style="list-style-type: none"> gml:usesCS 																															
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> </tbody> </table>				QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional
QName	Type	Fixed	Use																													
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xlink:actuate	xlink:actuateType		optional																													
xlink:arcrole	xlink:arcroleType		optional																													
xlink:href	xlink:hrefType		optional																													
xlink:role	xlink:roleType		optional																													

QName	Type	Fixed	Use	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element **gml:AbstractCoordinateSystem**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:AbstractCoordinateSystem is a coordinate system (CS) is the non-repeating sequence of coordinate system axes that spans a given coordinate space. A CS is derived from a set of mathematical rules for specifying how coordinates in a given space are to be assigned to points. The coordinate values in a coordinate tuple shall be recorded in the order in which the coordinate system axes associations are recorded. This abstract complex type shall not be used, extended, or restricted, in an Application Schema, to define a concrete subtype with a meaning equivalent to a concrete subtype specified in this document.</p>

Diagram

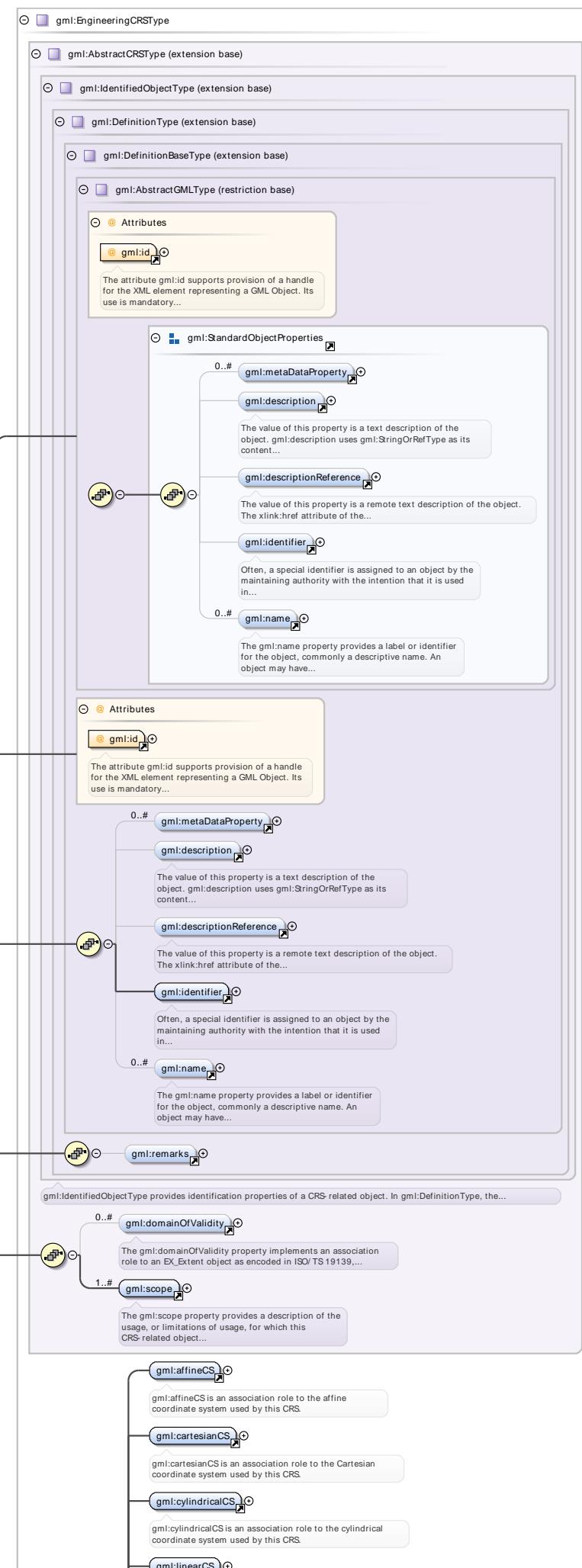


Type	gml:AbstractCoordinateSystemType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> gml:EllipsoidalCS gml:CartesianCS gml:VerticalCS gml:TimeCS gml:LinearCS gml:UserDefinedCS gml:SphericalCS gml:PolarCS gml:CylindricalCS gml:AffineCS gml:TemporalCS gml:ObliqueCartesianCS 		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:Definition 		
Attributes	QName aggregationType gml:id	Type gml:AggregationType ID	Use optional required
			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element **gml:EngineeringCRS**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:EngineeringCRS is a contextually local coordinate reference system which can be divided into two broad categories: - earth-fixed systems applied to engineering activities on or near the surface of the earth; - CRSs on moving platforms such as road vehicles, vessels, aircraft, or spacecraft, see ISO 19111 8.3.

Diagram



Type	gml:EngineeringCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractSingleCRS		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

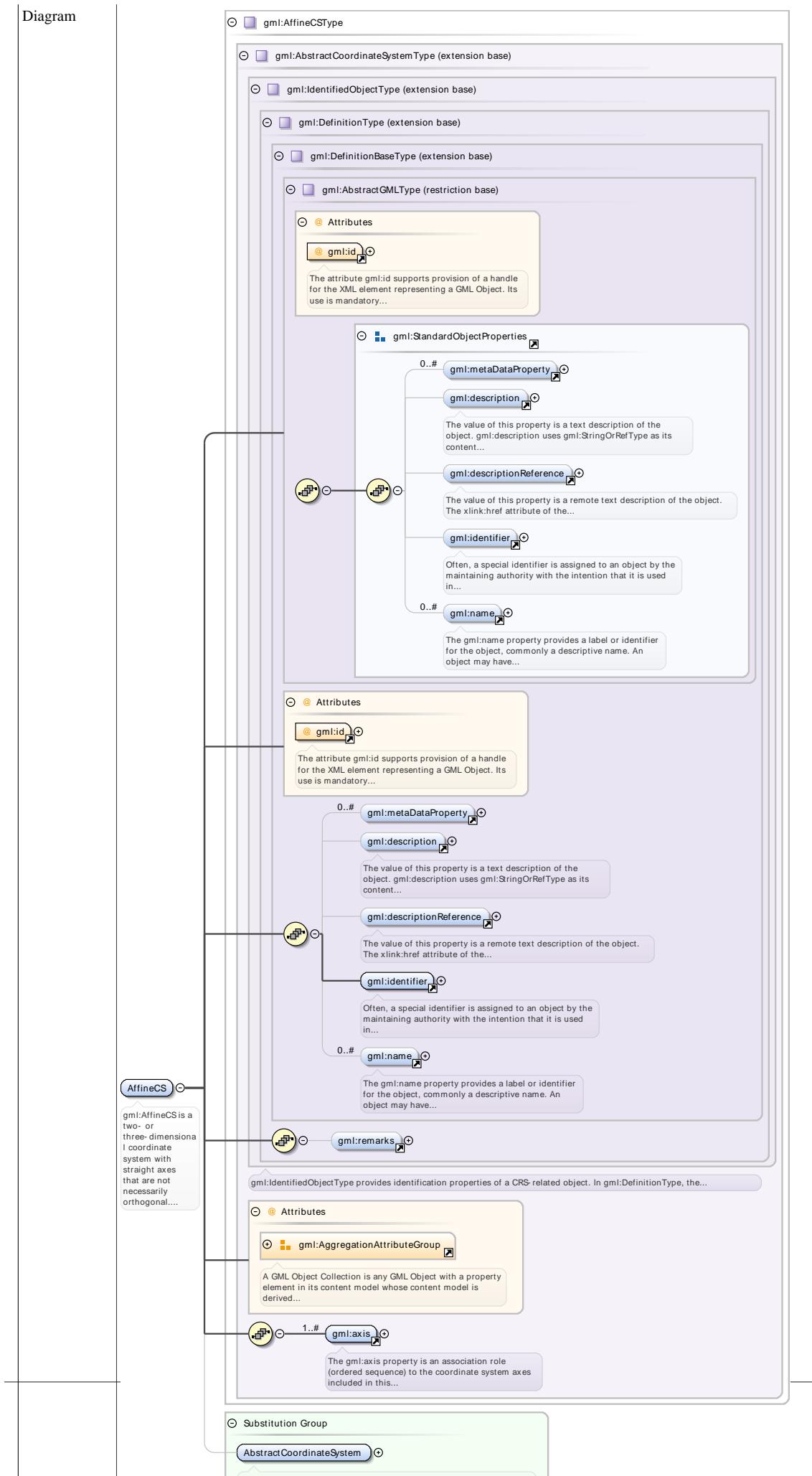
Element **gml:affineCS**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:affineCS is an association role to the affine coordinate system used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:AffineCSPropertyType. It is a property type for association roles to an affine coordinate system. It contains an association attribute group (gml:AssociationAttributeGroup) which includes the gml:AffineCS element. The gml:AffineCS element is described as a two- or three-dimensional coordinate system with straight axes that are not necessarily orthogonal. The diagram also shows the usesAffineCS substitution, which is an association role to the affine coordinate system used by this CRS.</p>			
Type	gml:AffineCSPropertyType			
Properties	content: complex			
Substitution Group	• gml:usesAffineCS			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element **gml:AffineCS**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:AffineCS is a two- or three-dimensional coordinate system with straight axes that are not necessarily orthogonal. An AffineCS shall have two or three gml:axis property elements; the number of property elements shall equal the dimension of the CS.		

Schema documentation for MisPlanSummedUpTrip.xsd



Type	gml:AffineCSType			
Properties	content: complex			
Substitution Group Affiliation	• gml:AbstractCoordinateSystem			
Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	
	gml:id	ID	required	
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

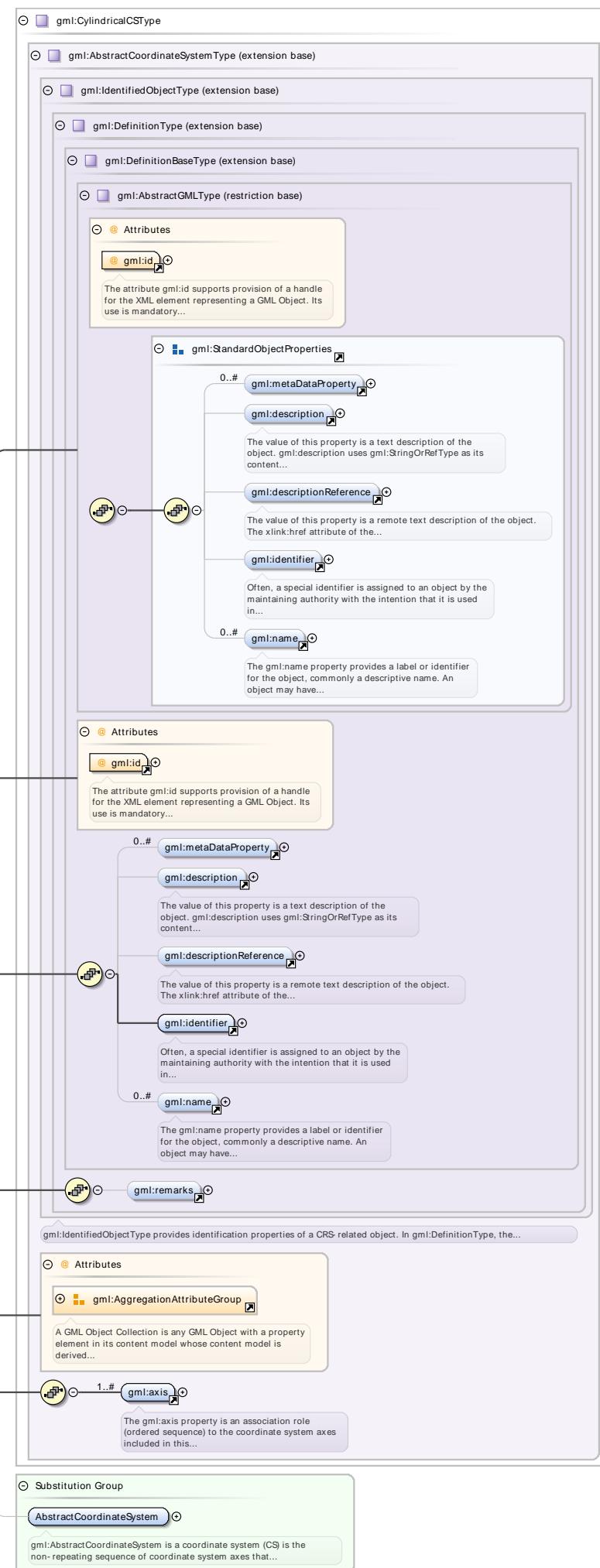
Element gml:cylindricalCS

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:cylindricalCS is an association role to the cylindrical coordinate system used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:CylindricalCSPropertyType. It is a property type for association roles to a cylindrical coordinate system. The type includes an 'Attributes' group and a 'gml:CylindricalCS' element. The 'gml:CylindricalCS' element is described as a three-dimensional coordinate system consisting of a polar coordinate system extended by a straight coordinate axis perpendicular to the plane spanned by the polar coordinate system. A note states that XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group is also mentioned.</p>			
Type	gml:CylindricalCSPropertyType			
Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:CylindricalCS

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:CylindricalCS is a three-dimensional coordinate system consisting of a polar coordinate system extended by a straight coordinate axis perpendicular to the plane spanned by the polar coordinate system. A CylindricalCS shall have three gml:axis property elements.			

Diagram



Type	gml:CylindricalCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

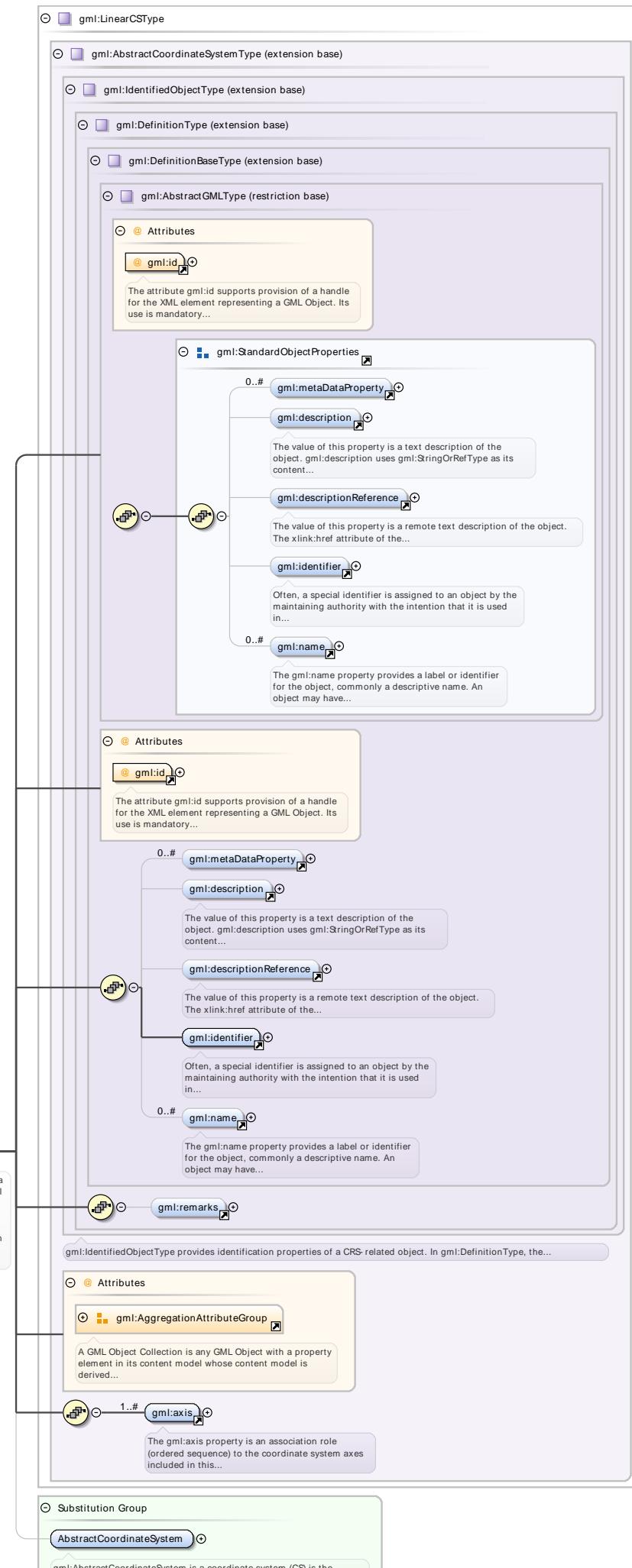
Element gml:linearCS

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:linearCS is an association role to the linear coordinate system used by this CRS.		
Diagram	<p>The diagram illustrates the structure of the gml:LinearCSPropertyType. It is a property type for association roles to a linear coordinate system. It contains an association attribute group (gml:AssociationAttributeGroup) which supports hypertext referencing in XML. The gml:LinearCS element is a one-dimensional coordinate system consisting of points on a single axis. A callout box provides a detailed description of the gml:LinearCS element.</p>		
Type	gml:LinearCSPropertyType		
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
	xlink:type	xlink:typeType	simple

Element gml:LinearCS

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:LinearCS is a one-dimensional coordinate system that consists of the points that lie on the single axis described. The associated coordinate is the distance – with or without offset – from the specified datum to the point along the axis. A LinearCS shall have one gml:axis property element.		

Diagram



Type	gml:LinearCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

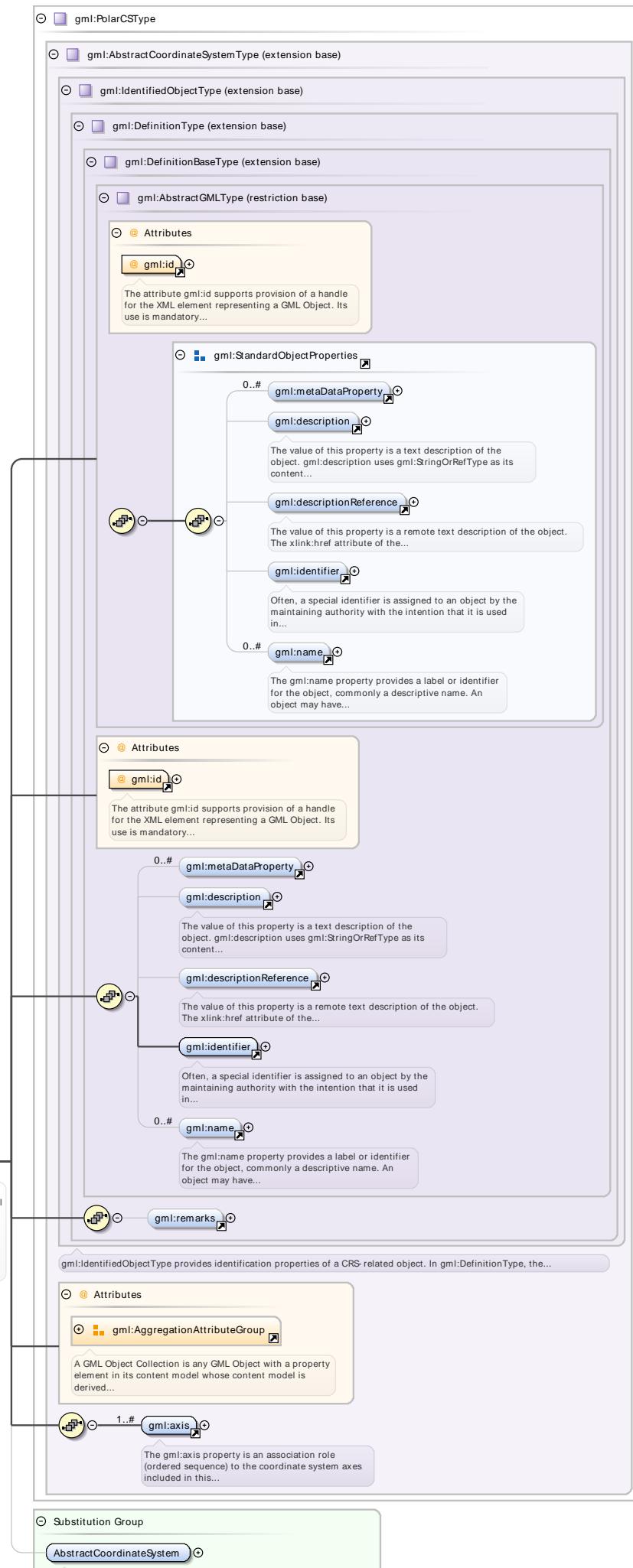
Element gml:polarCS

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:polarCS is an association role to the polar coordinate system used by this CRS.		
Diagram	<p>The diagram illustrates the structure of the gml:PolarCSPropertyType. It is a property type for association roles to a polar coordinate system. It includes an association attribute group (gml:AssociationAttributeGroup) which supports XLink components for hypertext referencing. The diagram also shows the gml:PolarCS element, which represents a two-dimensional coordinate system where position is specified by distance from the origin and angle.</p>		
Type	gml:PolarCSPropertyType		
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
	xlink:type	xlink:typeType	simple

Element gml:PolarCS

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:PolarCS is a two-dimensional coordinate system in which position is specified by the distance from the origin and the angle between the line from the origin to a point and a reference direction. A PolarCS shall have two gml:axis property elements.		

Diagram



Type	gml:PolarCSType			
Properties	content: complex			
Substitution Group Affiliation	• gml:AbstractCoordinateSystem			
Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

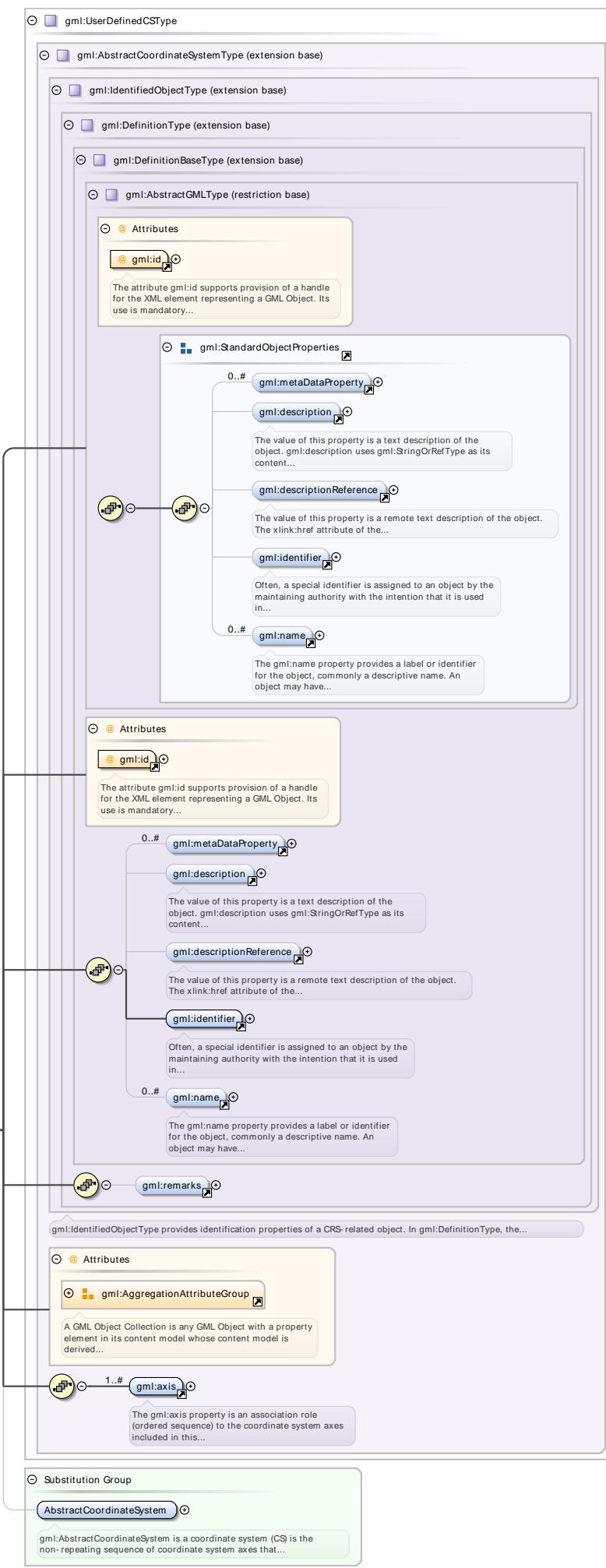
Element gml:userDefinedCS

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:userDefinedCS is an association role to the user defined coordinate system used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:UserDefinedCSPropertyType. It is a complex type with attributes. One attribute is an association attribute group named gml:AssociationAttributeGroup, which is described as supporting hypertext referencing in XML. Another attribute is gml:UserDefinedCS, which is a two- or three-dimensional coordinate system. A note states that gml:UserDefinedCSPropertyType is a property type for association roles to a user-defined coordinate system.</p>			
Type	gml:UserDefinedCSPropertyType			
Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:UserDefinedCS

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:UserDefinedCS is a two- or three-dimensional coordinate system that consists of any combination of coordinate axes not covered by any other coordinate system type. A UserDefinedCS shall have two or three gml:axis property elements; the number of property elements shall equal the dimension of the CS.			

Diagram



Type	gml:UserDefinedCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

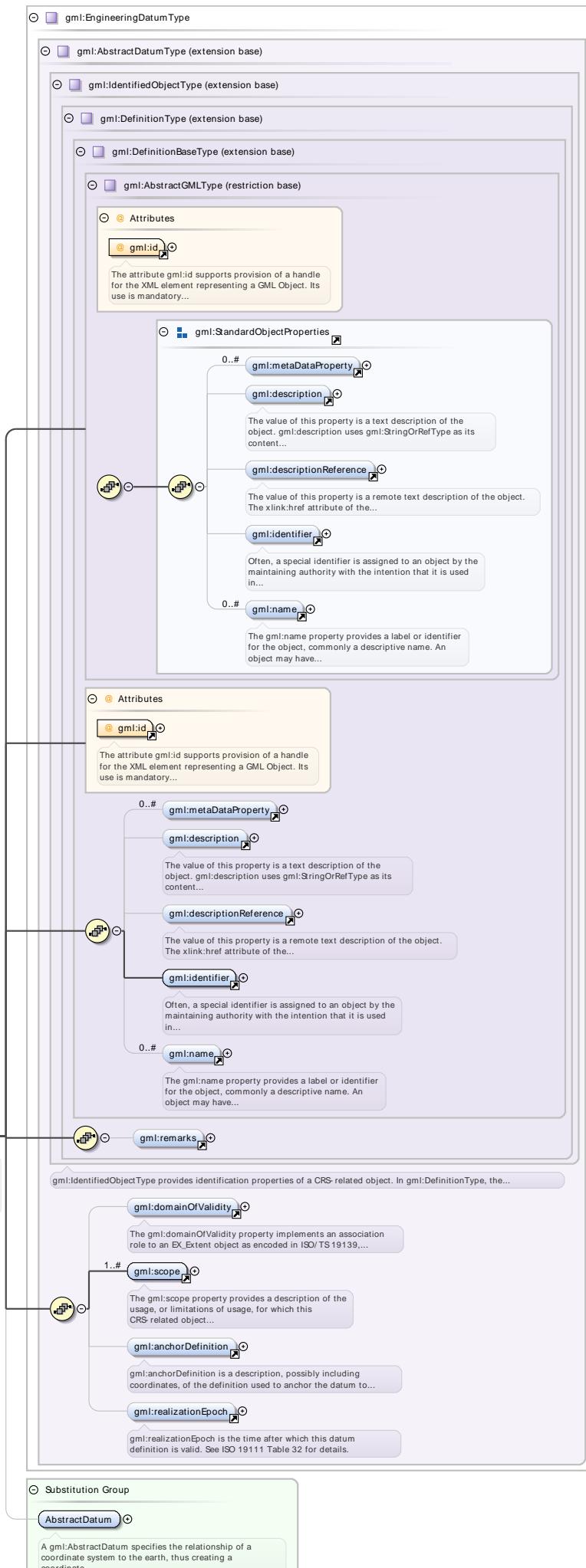
Element gml:engineeringDatum

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:engineeringDatum is an association role to the engineering datum used by this CRS.		
Diagram	<p>The diagram illustrates the structure of the gml:engineeringDatum element. It is defined as an association role to the engineering datum used by this CRS. The element is associated with the gml:EngineeringDatumPropertyType, which is a property type for association roles to an engineering datum. The gml:EngineeringDatumPropertyType has attributes, including an gml:AssociationAttributeGroup. The gml:AssociationAttributeGroup is described as using XLink components to support hypertext referencing in XML. The gml:EngineeringDatumPropertyType also has a substitution, specifically usesEngineeringDatum.</p>		
Type	gml:EngineeringDatumPropertyType		
Properties	content: complex		
Substitution Group	• gml:usesEngineeringDatum		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
	xlink:type	xlink:typeType	simple
			optional

Element gml:EngineeringDatum

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:EngineeringDatum defines the origin of an engineering coordinate reference system, and is used in a region around that origin. This origin may be fixed with respect to the earth (such as a defined point at a construction site), or be a defined point on a moving vehicle (such as on a ship or satellite).		

Diagram

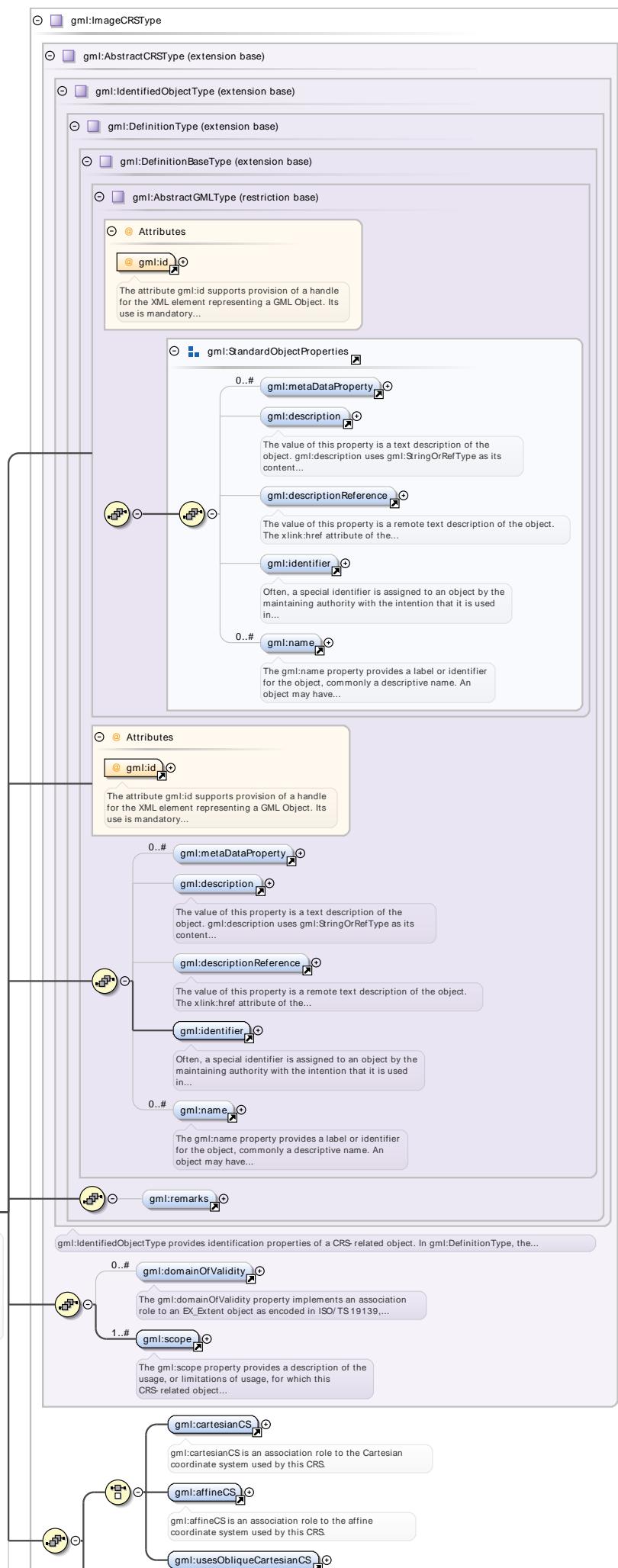


Type	gml:EngineeringDatumType										
Properties	content: complex										
Substitution Group Affiliation	• gml:AbstractDatum										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		gml:id	ID	required		<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	
QName	Type	Use									
gml:id	ID	required									

Element **gml:ImageCRS**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:ImageCRS is an engineering coordinate reference system applied to locations in images. Image coordinate reference systems are treated as a separate sub-type because the definition of the associated image datum contains two attributes not relevant to other engineering datums.

Diagram



Type	gml:ImageCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractSingleCRS		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

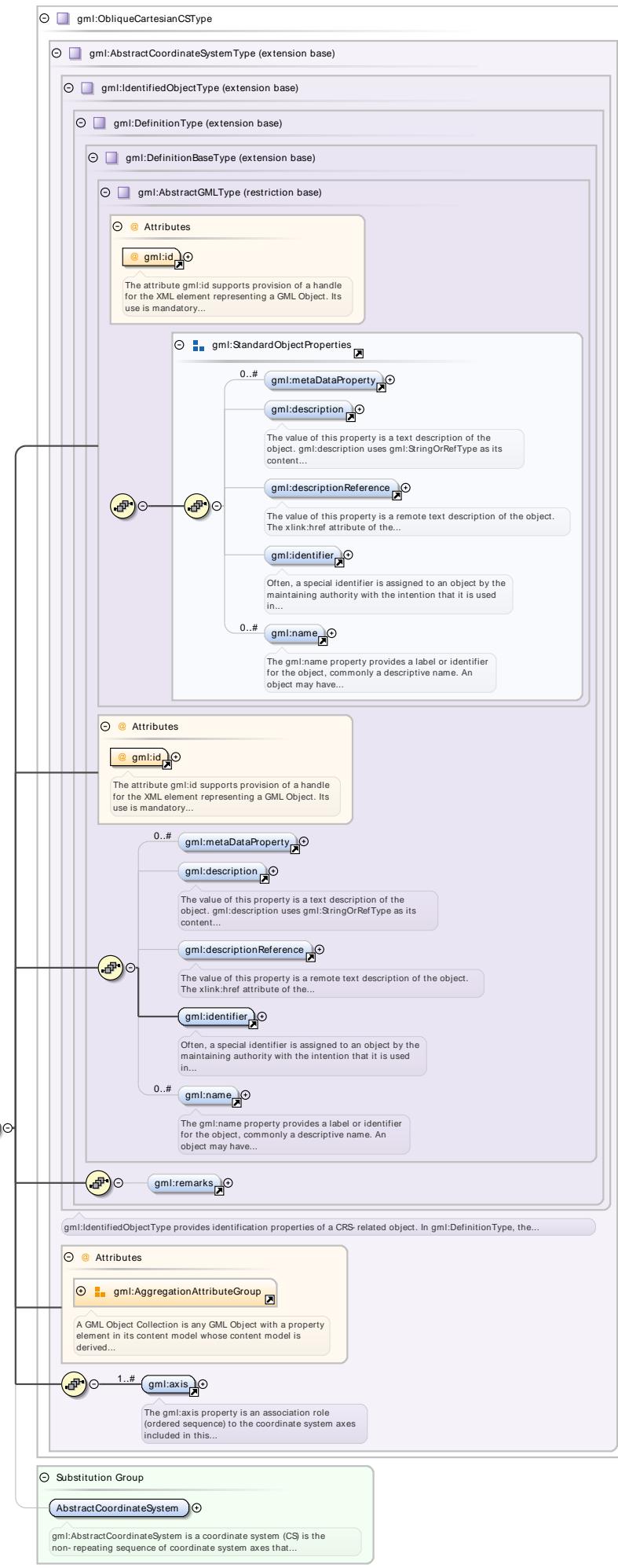
Element gml:usesObliqueCartesianCS

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<pre> classDiagram class gml:ObliqueCartesianCSPropertyType { gml:AssociationAttributeGroup } gml:ObliqueCartesianCSPropertyType "1" -- "1" gml:ObliqueCartesianCS : usesObliqueCartesianCS note over gml:AssociationAttributeGroup: XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group, ... </pre>		
Type	gml:ObliqueCartesianCSPropertyType		
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
	xlink:type	xlink:typeType	simple
			optional

Element gml:ObliqueCartesianCS

Namespace	http://www.opengis.net/gml/3.2		
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Diagram



Type	gml:ObliqueCartesianCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

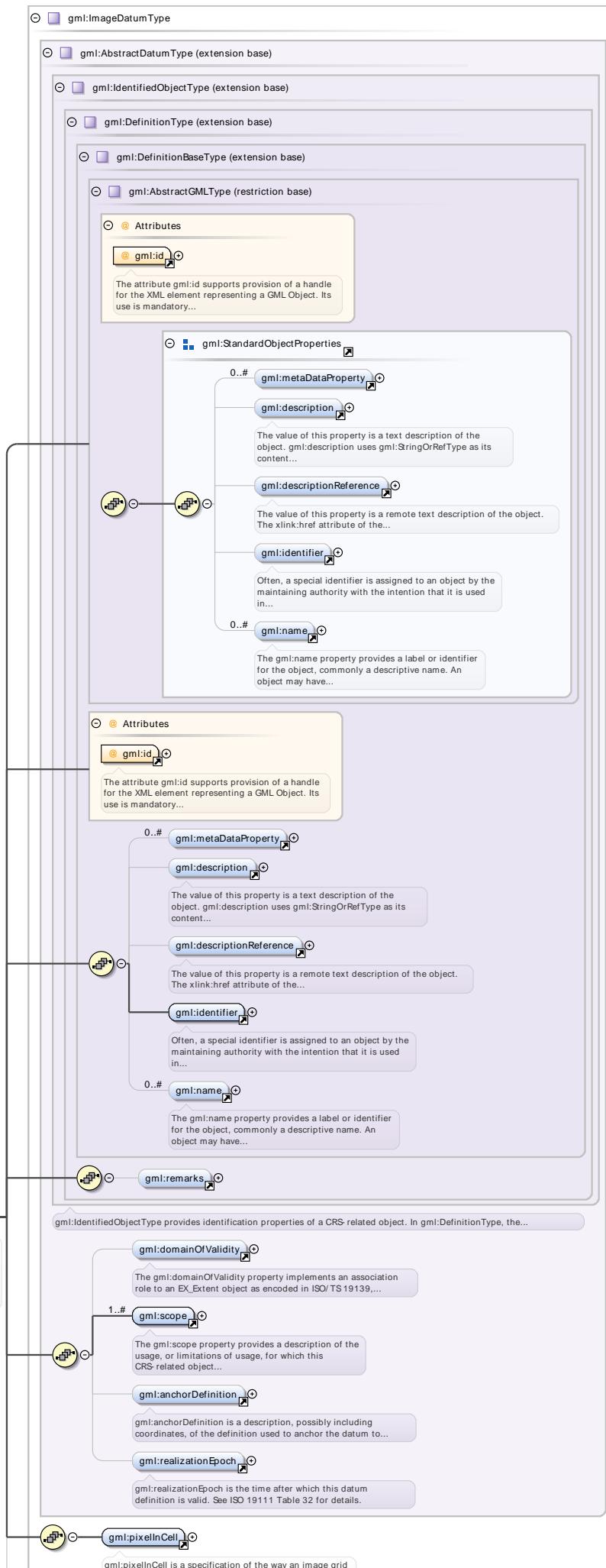
Element gml:imageDatum

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:imageDatum is an association role to the image datum used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:ImageDatumPropertyType. It is a property type for association roles to an image datum, either referencing or containing. The diagram shows the following components:</p> <ul style="list-style-type: none"> gml:ImageDatumPropertyType: The main property type. Attributes: A group containing the gml:AssociationAttributeGroup. gml:ImageDatum: The association role to the image datum. Substitutions: A group containing the usesImageDatum substitution. Annotations: <ul style="list-style-type: none"> gml:imageDatum: An association role to the image datum used by this CRS. XLink components: Standard method to support hypertext referencing in XML. An XML Schema attribute group... gml:ImageDatum: Defines the origin of an image coordinate reference system, and is used in a local context only. For an... gml:ImageDatumPropertyType: A property type for association roles to an image datum, either referencing or containing... 			
Type	gml:ImageDatumPropertyType			
Properties	content: complex			
Substitution Group	• gml:usesImageDatum			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:ImageDatum

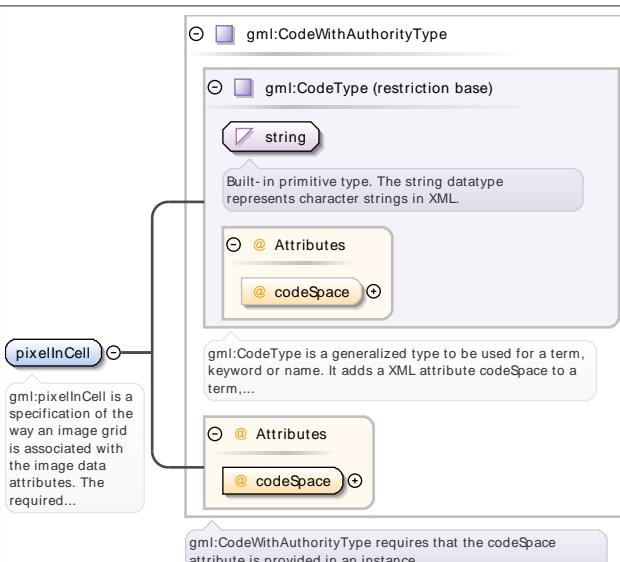
Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:ImageDatum defines the origin of an image coordinate reference system, and is used in a local context only. For an image datum, the anchor definition is usually either the centre of the image or the corner of the image. For more information, see ISO 19111 B.3.5.		

Diagram



Type	gml:ImageDatumType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractDatum		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

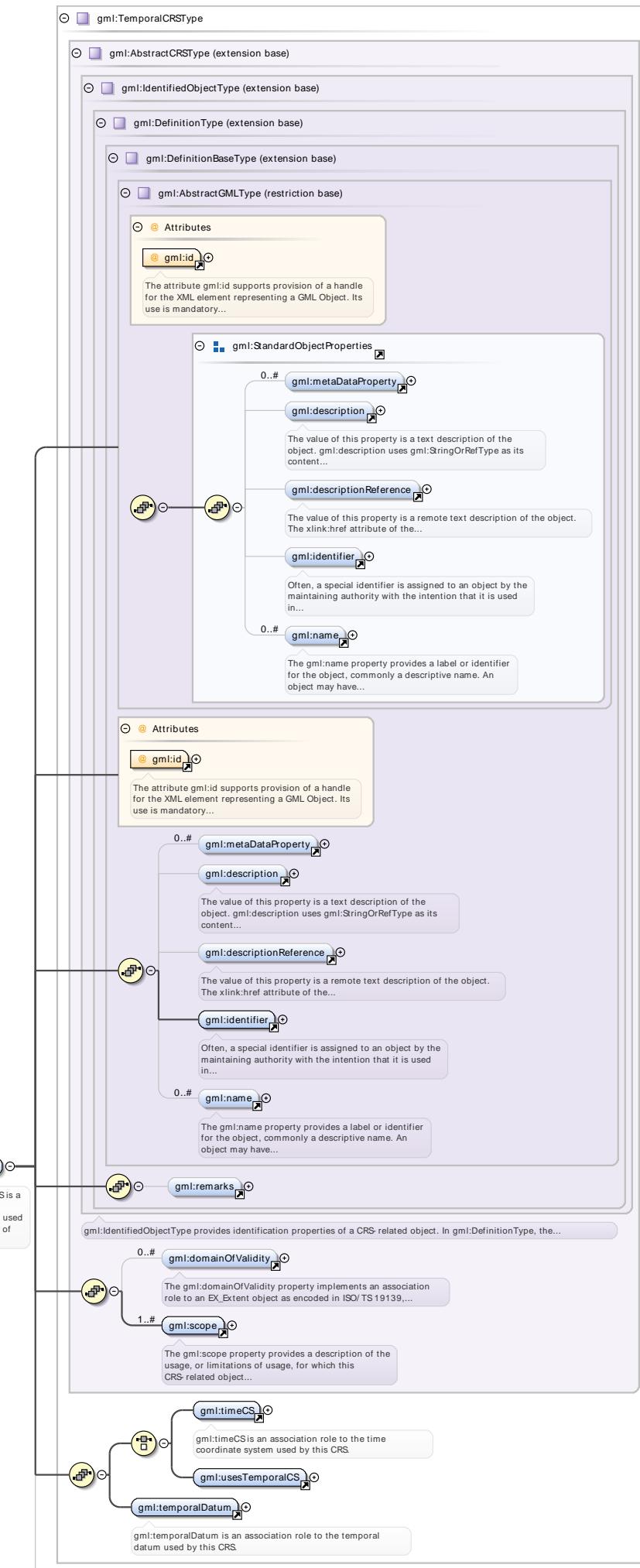
Element **gml:pixelInCell**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:pixelInCell is a specification of the way an image grid is associated with the image data attributes. The required codeSpace attribute shall reference a source of information specifying the values and meanings of all the allowed string values for this property.		
Diagram	 <p>gml:pixelInCell is a specification of the way an image grid is associated with the image data attributes. The required...</p> <p>gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term,...</p> <p>gml:CodeWithAuthorityType requires that the codeSpace attribute is provided in an instance.</p>		
Type	gml:CodeWithAuthorityType		
Properties	content: complex		
Attributes	QName	Type	Use
	codeSpace	anyURI	required

Element **gml:TemporalCRS**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:TemporalCRS is a 1D coordinate reference system used for the recording of time.		

Diagram



Type	gml:TemporalCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractSingleCRS		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

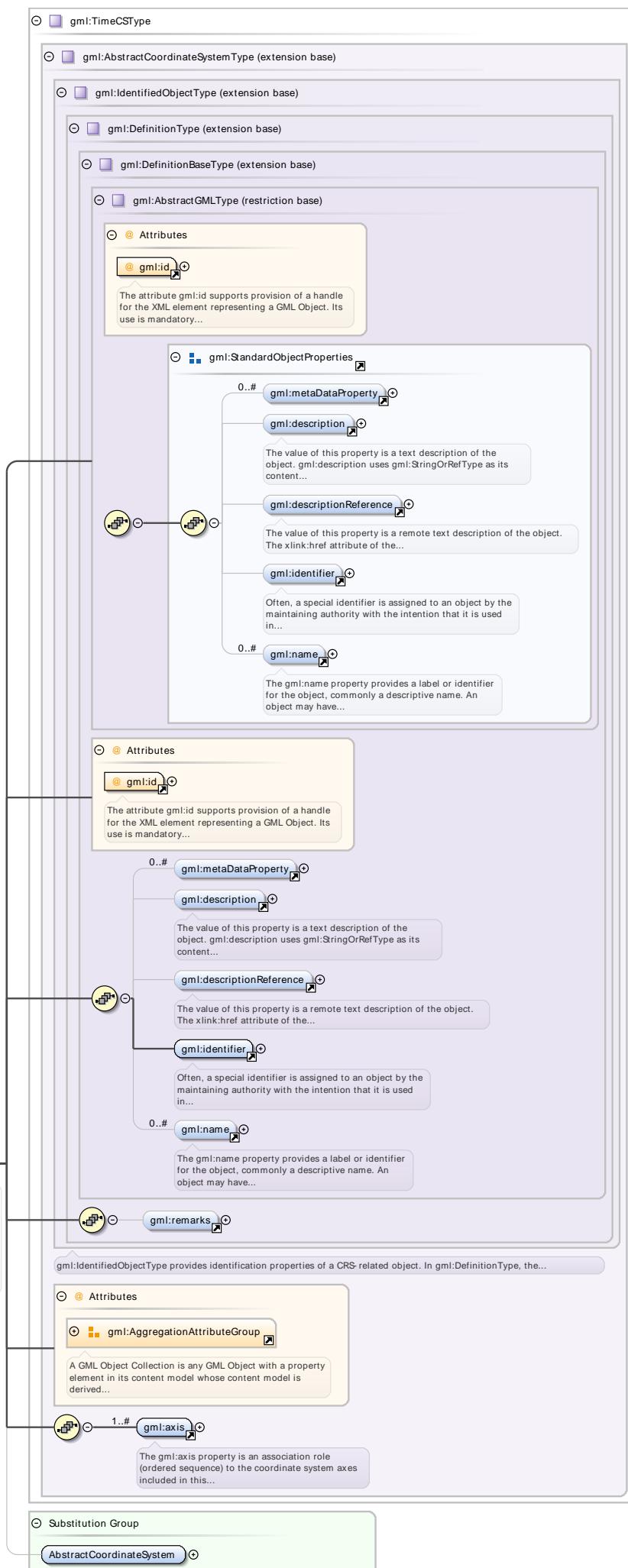
Element **gml:timeCS**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:timeCS is an association role to the time coordinate system used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:TimeCSPropertyType. It shows a central box for 'gml:TimeCSPropertyType' with an 'Attributes' group containing an 'AssociationAttributeGroup'. A callout box explains that XLink components support hypertext referencing. Below is a 'gml:TimeCS' element with a description: 'gml:TimeCS is a one-dimensional coordinate system containing a time axis, used to describe the temporal position of a...'. A 'Substitutions' group contains 'usesTimeCS'. A callout box for 'usesTimeCS' states: 'gml:TimeCSPropertyType is a property type for association roles to a time coordinate system, either referencing or...'. A 'timeCS' association role is also shown, with a callout box stating: 'gml:timeCS is an association role to the time coordinate system used by this CRS.'</p>			
Type	gml:TimeCSPropertyType			
Properties	content: complex			
Substitution Group	• gml:usesTimeCS			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element **gml:TimeCS**

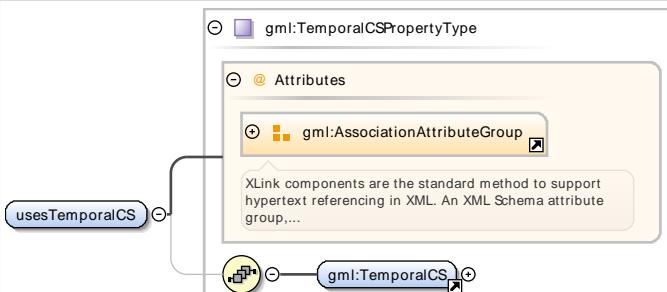
Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:TimeCS is a one-dimensional coordinate system containing a time axis, used to describe the temporal position of a point in the specified time units from a specified time origin. A TimeCS shall have one gml:axis property element.		

Diagram



Type	gml:TimeCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

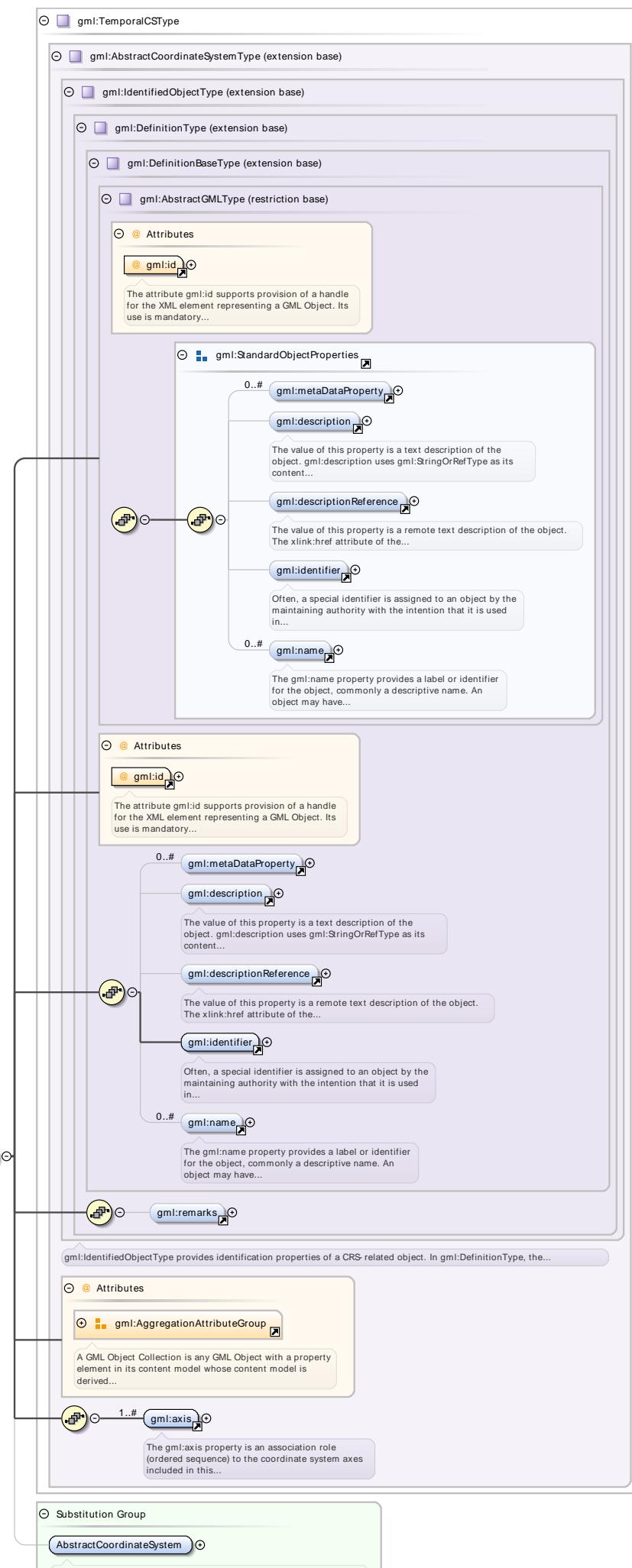
Element gml:usesTemporalCS

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram																																									
Type	gml:TemporalCSPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Fixed</td> <td>Use</td> </tr> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
xlink:arcrole	xlink:arcroleType		optional																																						
xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:TemporalCS

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	gml:TemporalCSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateSystem		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

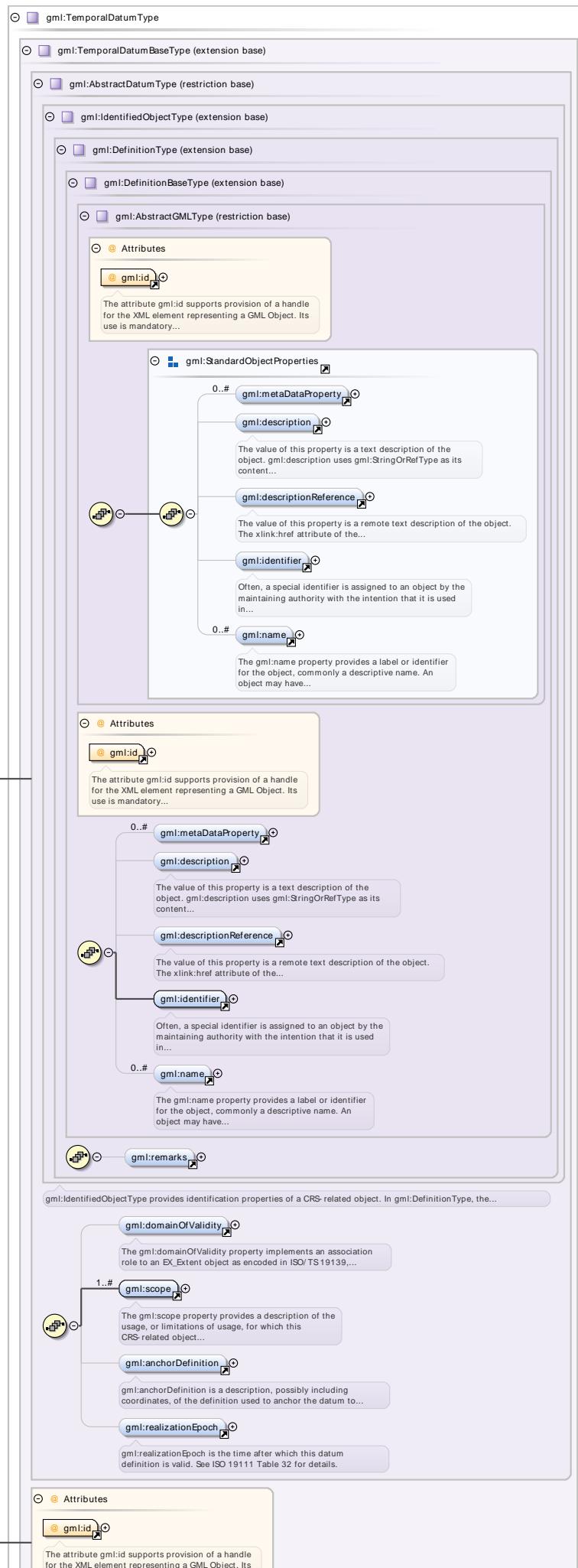
Element gml:temporalDatum

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:temporalDatum is an association role to the temporal datum used by this CRS.			
Diagram	<p>The diagram illustrates the structure of the gml:TemporalDatumPropertyType. It starts with a main box labeled 'gml:TemporalDatumPropertyType' containing an 'Attributes' section with a 'gml:AssociationAttributeGroup'. Below this is a 'gml:TemporalDatum' element. A callout box provides a detailed description of 'gml:TemporalDatum' as defining the origin of a Temporal Reference System. Another callout box describes 'gml:TemporalDatumPropertyType' as a property type for association roles. A separate box labeled 'temporalDatum' is shown with an association role to 'gml:TemporalDatum'. A callout box for 'temporalDatum' states that it is an association role to the temporal datum used by this CRS.</p>			
Type	gml:TemporalDatumPropertyType			
Properties	content: complex			
Substitution Group	• gml:usesTemporalDatum			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:TemporalDatum

Namespace	http://www.opengis.net/gml/3.2		
Annotations	A gml:TemporalDatum defines the origin of a Temporal Reference System. This type omits the "anchorDefinition" and "realizationEpoch" elements and adds the "origin" element with the dateTime type.		

Diagram



Type	gml:TemporalDatumType										
Properties	content: complex										
Substitution Group Affiliation	• gml:AbstractDatum										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use									
gml:id	ID	required									

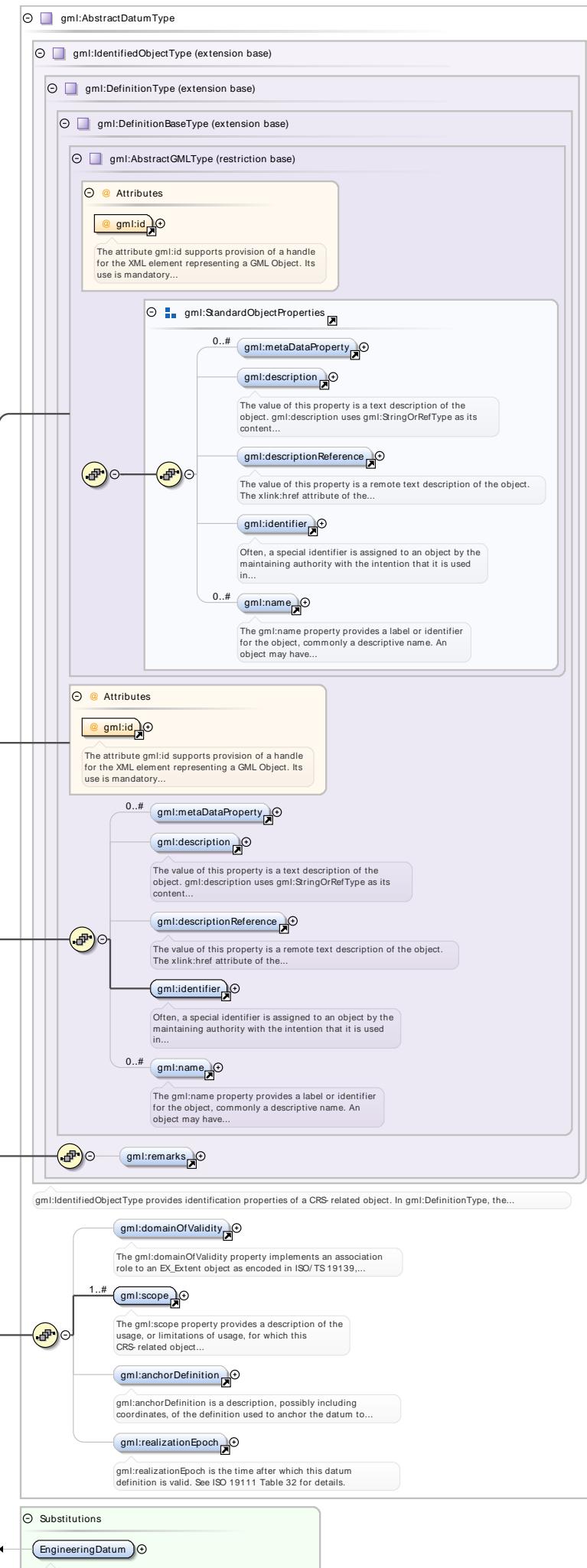
Element **gml:origin**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:origin is the date and time origin of this temporal datum.		
Diagram			
Type	dateTime		
Properties	content: simple		

Element **gml:AbstractDatum**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	A gml:AbstractDatum specifies the relationship of a coordinate system to the earth, thus creating a coordinate reference system. A datum uses a parameter or set of parameters that determine the location of the origin of the coordinate reference system. Each datum subtype may be associated with only specific types of coordinate systems. This abstract complex type shall not be used, extended, or restricted, in a GML Application Schema, to define a concrete subtype with a meaning equivalent to a concrete subtype specified in this document.		

Diagram

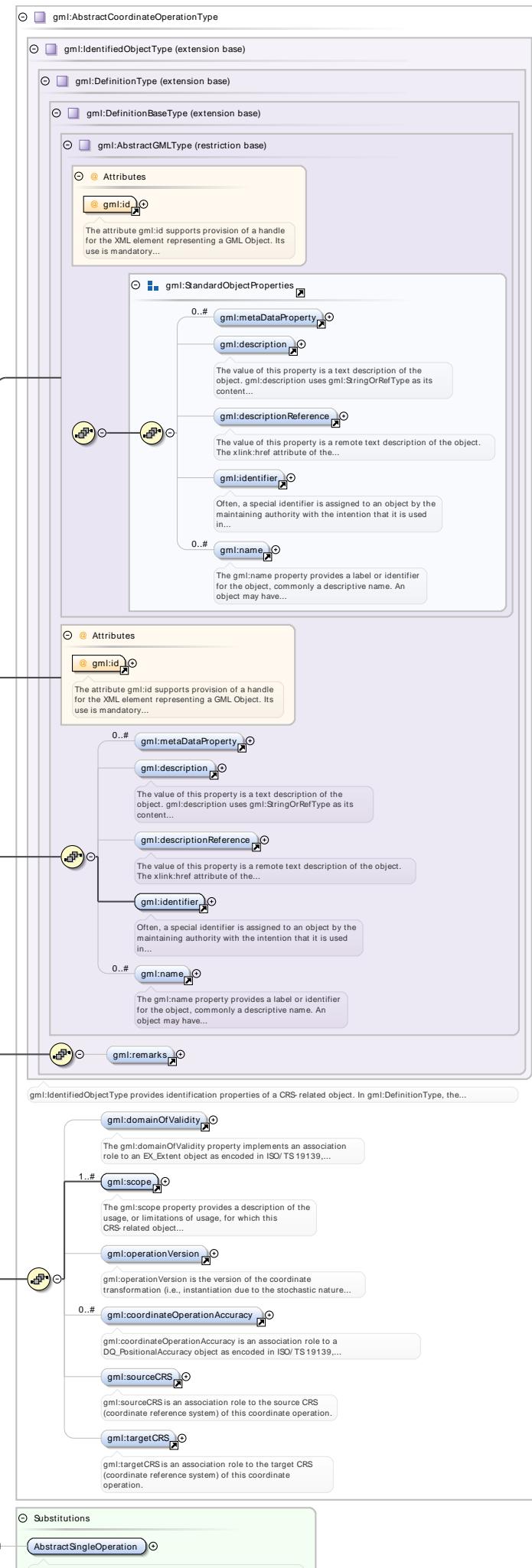


Type	gml:AbstractDatumType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> gml:GeodeticDatum gml:EngineeringDatum gml:ImageDatum gml:VerticalDatum gml:TemporalDatum 		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:Definition 		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element **gml:AbstractCoordinateOperation**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:AbstractCoordinateOperation is a mathematical operation on coordinates that transforms or converts coordinates to another coordinate reference system. Many but not all coordinate operations (from CRS A to CRS B) also uniquely define the inverse operation (from CRS B to CRS A). In some cases, the operation method algorithm for the inverse operation is the same as for the forward algorithm, but the signs of some operation parameter values shall be reversed. In other cases, different algorithms are required for the forward and inverse operations, but the same operation parameter values are used. If (some) entirely different parameter values are needed, a different coordinate operation shall be defined. The optional coordinateOperationAccuracy property elements provide estimates of the impact of this coordinate operation on point position accuracy.</p>

Diagram

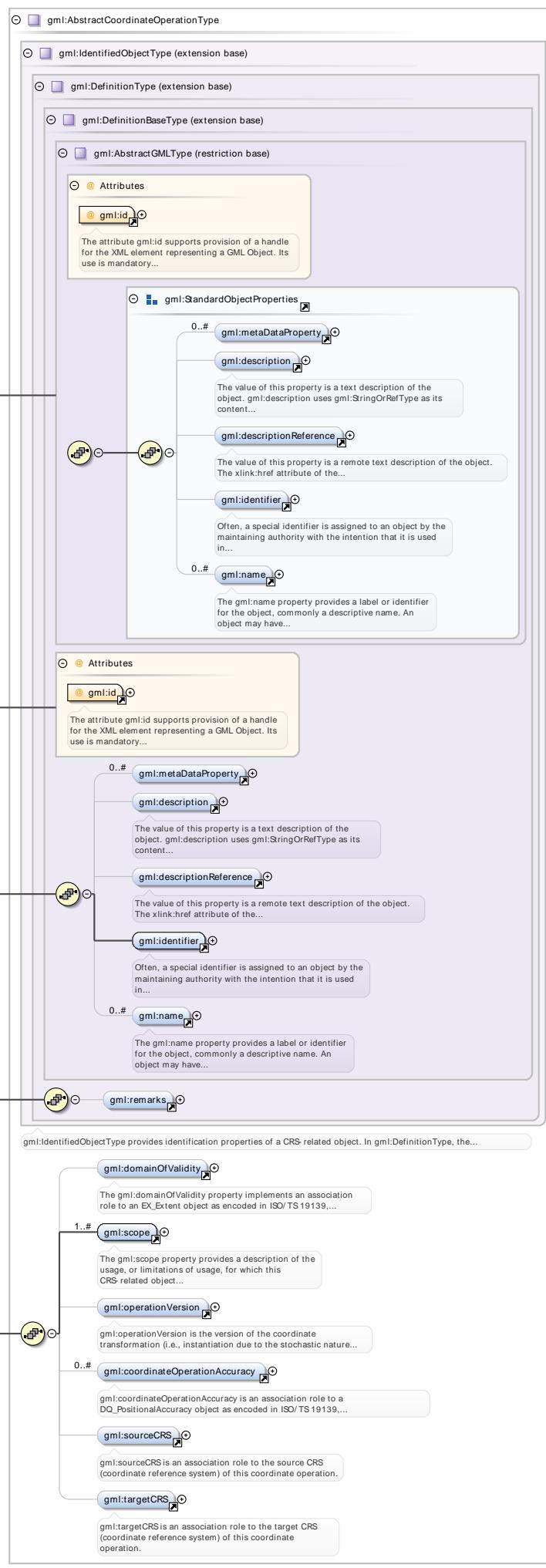


Type	gml:AbstractCoordinateOperationType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> gml:AbstractSingleOperation gml:ConcatenatedOperation gml:PassThroughOperation gml:AbstractOperation gml:AbstractGeneralConversion gml:Conversion gml:AbstractGeneralTransformation gml:Transformation 		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:Definition 		
Attributes	QName gml:id	Type ID	Use required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element **gml:AbstractSingleOperation**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:AbstractSingleOperation is a single (not concatenated) coordinate operation.

Diagram

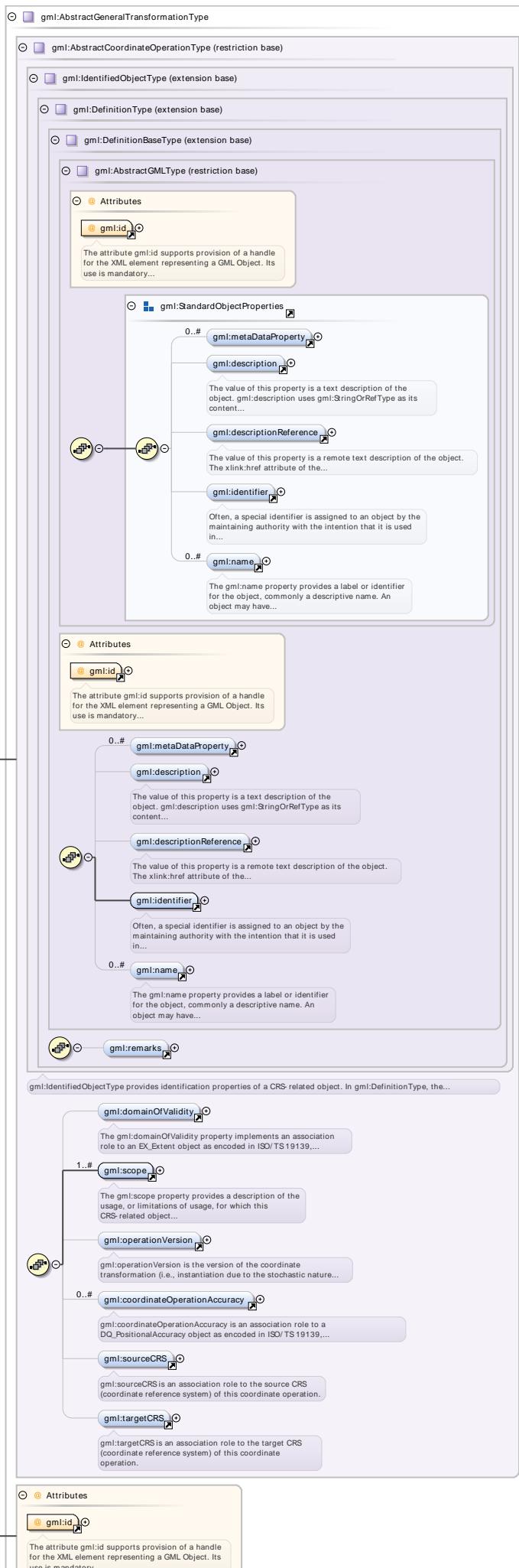


Type	gml:AbstractCoordinateOperationType		
Properties	content: complex abstract: true		
Substitution Group	<ul style="list-style-type: none"> gml:PassThroughOperation gml:AbstractOperation gml:AbstractGeneralConversion gml:Conversion gml:AbstractGeneralTransformation gml:Transformation 		
Substitution Group Affiliation	gml:AbstractCoordinateOperation		
Attributes	QName gml:id	Type ID	Use required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element **gml:AbstractGeneralTransformation**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:AbstractGeneralTransformation is an abstract operation on coordinates that usually includes a change of Datum. The parameters of a coordinate transformation are empirically derived from data containing the coordinates of a series of points in both coordinate reference systems. This computational process is usually "over-determined", allowing derivation of error (or accuracy) estimates for the transformation. Also, the stochastic nature of the parameters may result in multiple (different) versions of the same coordinate transformation. The operationVersion, sourceCRS, and targetCRS property elements are mandatory in a coordinate transformation. This abstract complex type is expected to be extended for well-known operation methods with many Transformation instances, in Application Schemas that define operation-method-specialized value element names and contents. This transformation uses an operation method with associated parameter values. However, operation methods and parameter values are directly associated with concrete subtypes, not with this abstract type. All concrete types derived from this type shall extend this type to include a "usesMethod" element that references one "OperationMethod" element. Similarly, all concrete types derived from this type shall extend this type to include one or more elements each named "uses...Value" that each use the type of an element substitutable for the "AbstractGeneralParameterValue" element.</p>

Diagram

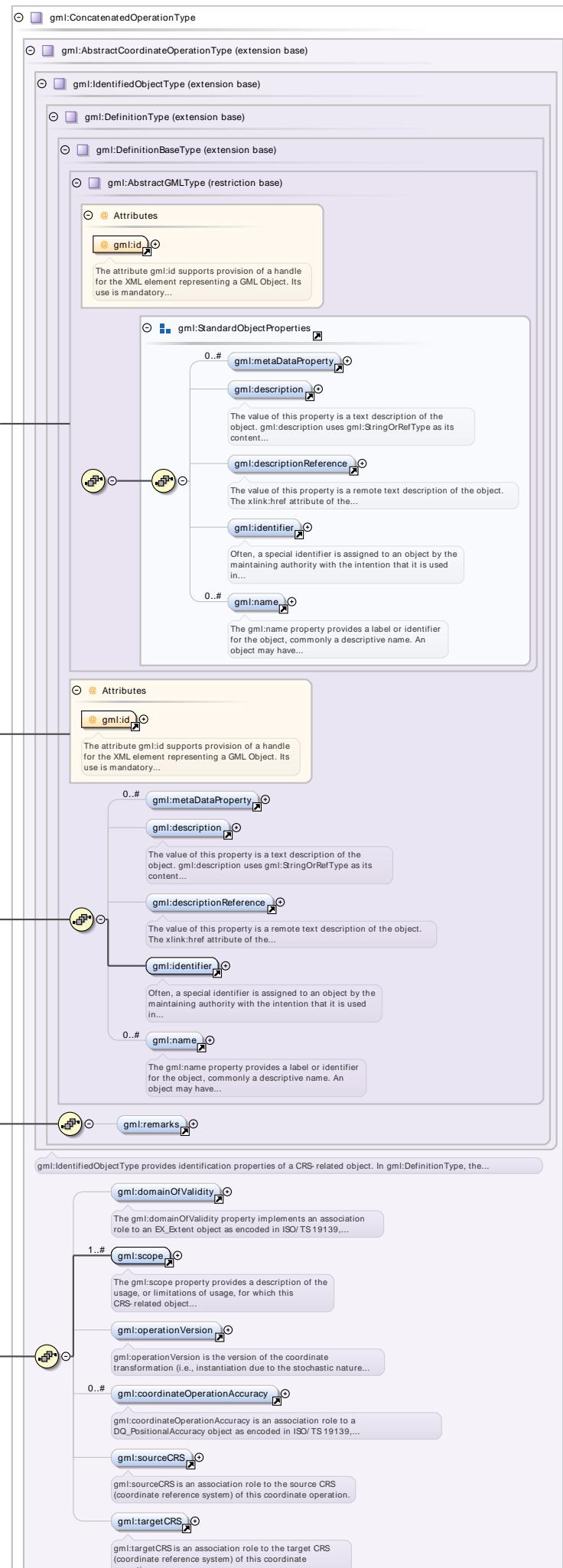


Type	gml:AbstractGeneralTransformationType		
Properties	content: complex abstract: true		
Substitution Group	• gml:Transformation		
Substitution Group Affiliation	• gml:AbstractOperation		
Attributes	QName gml:id	Type ID	Use required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:ConcatenatedOperation

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	gml:ConcatenatedOperationType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractCoordinateOperation		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element gml:coordOperation

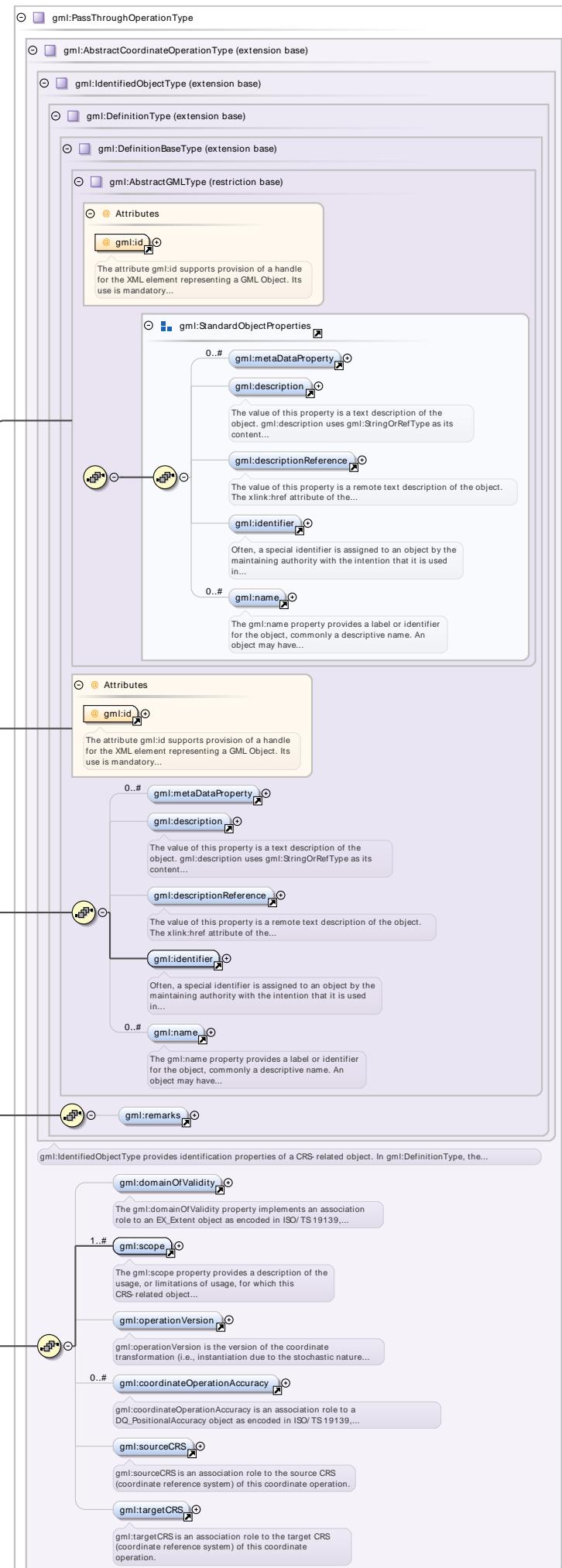
Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:coordOperation is an association role to a coordinate operation.			
Diagram	<p>The diagram illustrates the structure of the gml:coordOperation element. It is a property type for association roles to a coordinate operation. It includes attributes for aggregation type and ID, and associations to gml:AbstractCoordinateOperation and gml:CoordinateOperationPropertyType. The diagram also shows the use of XLink components for hypertext referencing.</p>			
Type	gml:CoordinateOperationPropertyType			
Properties	content: complex			
Substitution Group	• gml:usesSingleOperation • gml:usesOperation			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:PassThroughOperation

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:PassThroughOperation is a pass-through operation specifies that a subset of a coordinate tuple is subject to a specific coordinate operation. The modifiedCoordinate property elements are an ordered sequence of positive integers defining the positions		

in a coordinate tuple of the coordinates affected by this pass-through operation. The AggregationAttributeGroup should be used to specify that the modifiedCoordinate elements are ordered.

Diagram



Type	gml:PassThroughOperationType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractSingleOperation		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

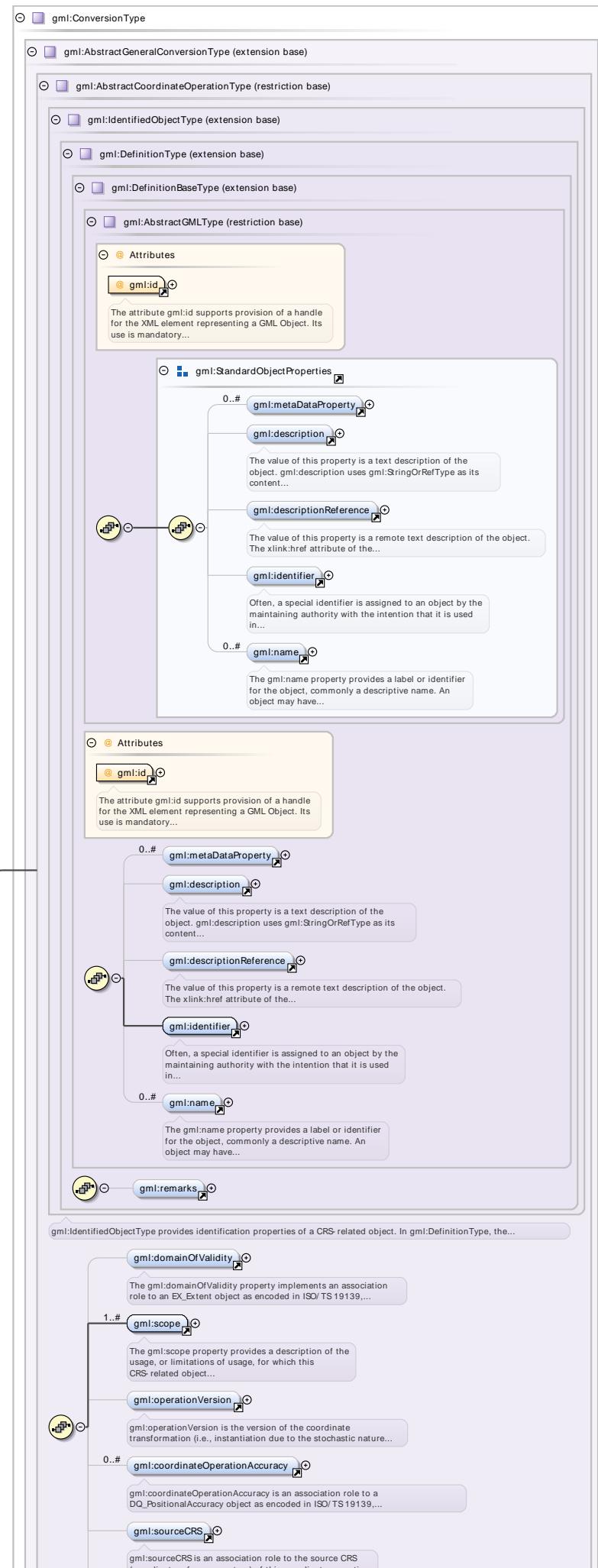
Element **gml:modifiedCoordinate**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:modifiedCoordinate is a positive integer defining a position in a coordinate tuple.
Diagram	
Type	positiveInteger
Properties	content: simple

Element **gml:Conversion**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:Conversion is a concrete operation on coordinates that does not include any change of Datum. The best-known example of a coordinate conversion is a map projection. The parameters describing coordinate conversions are defined rather than empirically derived. Note that some conversions have no parameters. This concrete complex type can be used without using a GML Application Schema that defines operation-method-specialized element names and contents, especially for methods with only one Conversion instance. The usesValue property elements are an unordered list of composition associations to the set of parameter values used by this conversion operation.

Diagram



Type	gml:ConversionType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractGeneralConversion		
Attributes	QName gml:id	Type ID	Use required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

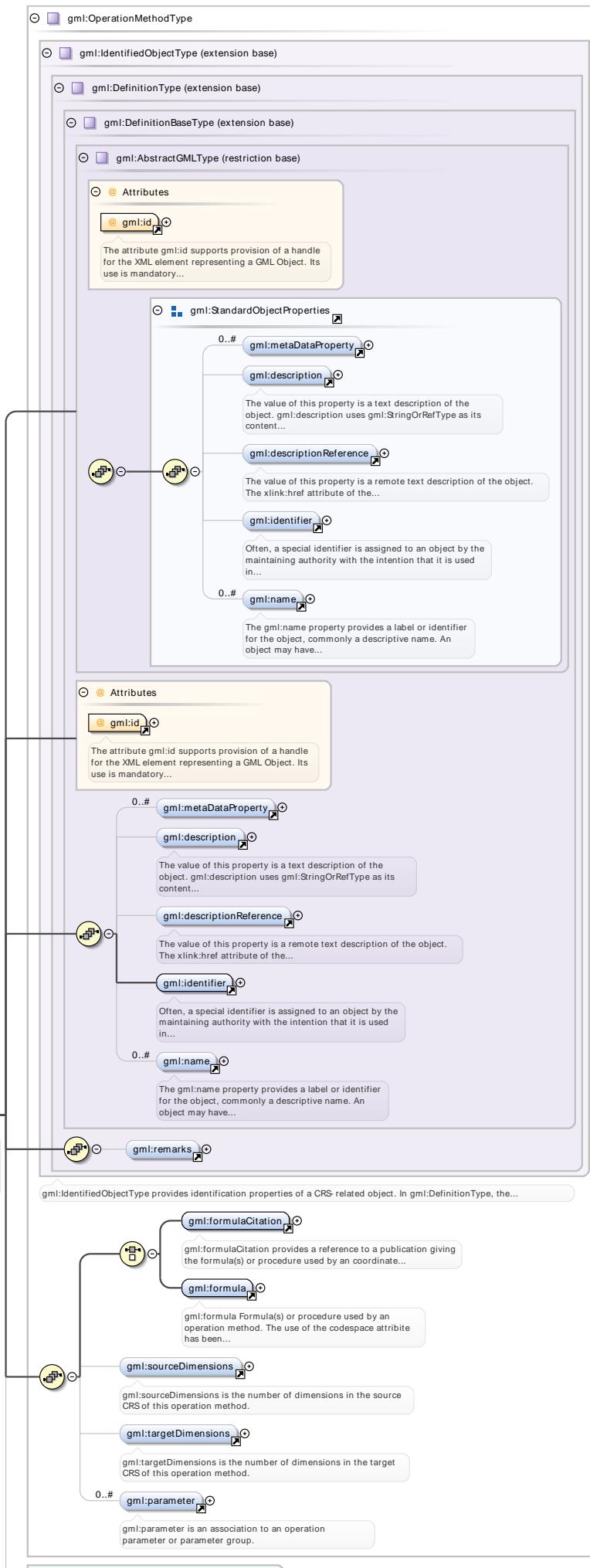
Element gml:method

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:method is an association role to the operation method used by a coordinate operation.		
Diagram	<p>The diagram illustrates the structure of the gml:OperationMethodPropertyType. It shows a central box for 'gml:OperationMethodPropertyType' with an 'Attributes' section containing 'gml:AssociationAttributeGroup'. Below this is a 'gml:OperationMethod' element. A 'method' element is shown with a note: 'gml:method is an association role to the operation method used by a coordinate operation.' A 'usesMethod' substitution is also shown.</p>		
Type	gml:OperationMethodPropertyType		
Properties	content: complex		
Substitution Group	• gml:usesMethod		
Attributes	QName gml:remoteSchema nilReason xlink:actuate xlink:arcrole xlink:href xlink:role xlink:show xlink:title xlink:type	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed Use optional optional optional optional optional optional optional optional optional

Element gml:OperationMethod

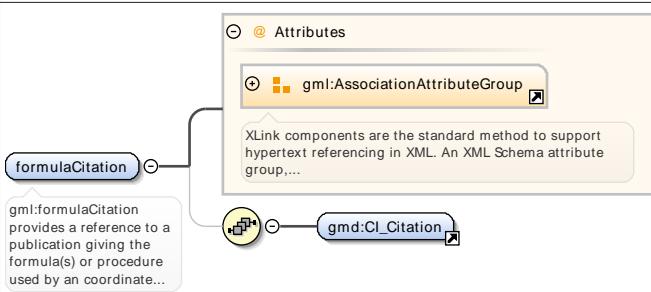
Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:OperationMethod is a method (algorithm or procedure) used to perform a coordinate operation. Most operation methods use a number of operation parameters, although some coordinate conversions use none. Each coordinate operation using the method assigns values to these parameters. The parameter elements are an unordered list of associations to the set of operation parameters and parameter groups used by this operation method.		

Diagram



Type	gml:OperationMethodType		
Properties	content: complex		
Substitution Group Affiliation	• gml:Definition		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:formulaCitation

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:formulaCitation provides a reference to a publication giving the formula(s) or procedure used by an coordinate operation method.		
Diagram			
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	optional
	nilReason	gml:NilReasonType	optional
	xlink:actuate	xlink:actuateType	optional
	xlink:arcrole	xlink:arcroleType	optional
	xlink:href	xlink:hrefType	optional
	xlink:role	xlink:roleType	optional
	xlink:show	xlink:showType	optional
	xlink:title	xlink:titleAttrType	optional
	xlink:type	xlink:typeType	simple

Element gml:formula

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:formula Formula(s) or procedure used by an operation method. The use of the codespace attribute has been deprecated. The property value shall be a character string.		

Diagram							
Type	gml:CodeType						
Properties	content: complex						
Substitution Group	<ul style="list-style-type: none"> • gml:methodFormula 						
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">QName</th><th style="text-align: left; padding: 2px;">Type</th><th style="text-align: left; padding: 2px;">Use</th></tr> </thead> <tbody> <tr> <td style="padding: 2px;">codeSpace</td><td style="padding: 2px;">anyURI</td><td style="padding: 2px;">optional</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional
QName	Type	Use					
codeSpace	anyURI	optional					

Element **gml:sourceDimensions**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:sourceDimensions is the number of dimensions in the source CRS of this operation method.
Diagram	
Type	positiveInteger
Properties	content: simple

Element **gml:targetDimensions**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:targetDimensions is the number of dimensions in the target CRS of this operation method.
Diagram	
Type	positiveInteger
Properties	content: simple

Element **gml:parameter**

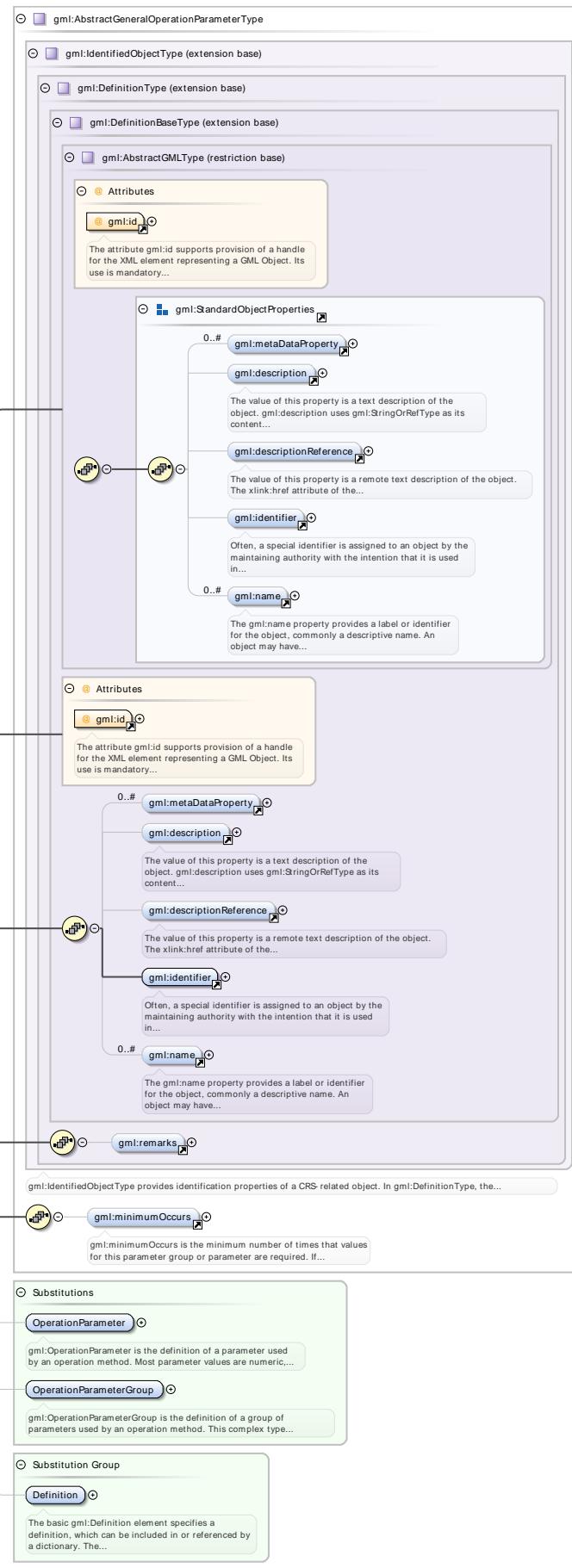
Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:parameter is an association to an operation parameter or parameter group.

Diagram	<p>gml:AbstractGeneralOperationParameterPropertyType</p> <p>Attributes</p> <ul style="list-style-type: none"> gml:AssociationAttributeGroup gml:GeneralOperationParameter <p>Substitutions</p> <ul style="list-style-type: none"> generalOperationParameter includesParameter 																																								
Type	gml:AbstractGeneralOperationParameterPropertyType																																								
Properties	content: complex																																								
Substitution Group	<ul style="list-style-type: none"> gml:includesParameter gml:usesParameter gml:generalOperationParameter 																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
xlink:arcrole	xlink:arcroleType		optional																																						
xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:AbstractGeneralOperationParameter**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:GeneralOperationParameter is the abstract definition of a parameter or group of parameters used by an operation method.

Diagram



Type	gml:AbstractGeneralOperationParameterType		
Properties	content: complex abstract: true		
Substitution Group	• gml:OperationParameter • gml:OperationParameterGroup		
Substitution Group Affiliation	• gml:Definition		
Attributes	QName gml:id	Type ID	Use required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

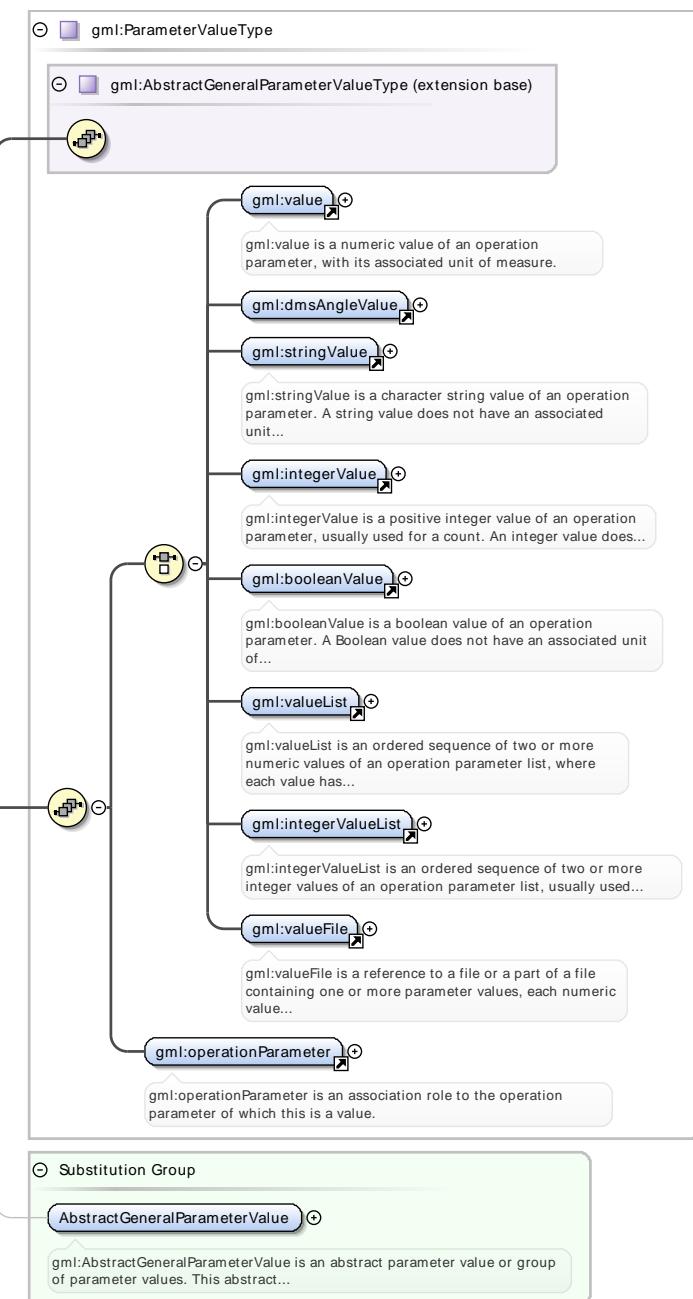
Element **gml:minimumOccurs**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:minimumOccurs is the minimum number of times that values for this parameter group or parameter are required. If this attribute is omitted, the minimum number shall be one.
Diagram	<p>The diagram illustrates the derivation of the gml:minimumOccurs type. It shows a box labeled "minimumOccurs" connected by a line with a circle to a box labeled "nonNegativeInteger". A callout box points to the "nonNegativeInteger" box with the text: "Built-in derived type. The nonNegativeInteger datatype is derived from integer by setting the value of minInclusive to..."</p>
Type	nonNegativeInteger
Properties	content: simple

Element **gml:parameterValue**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:parameterValue is a composition association to a parameter value or group of parameter values used by a coordinate operation.

Diagram



Type	<code>gml:AbstractGeneralParameterValuePropertyType</code>
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> • <code>gml:usesValue</code> • <code>gml:includesValue</code>

Element `gml:AbstractGeneralParameterValue`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p><code>gml:AbstractGeneralParameterValue</code> is an abstract parameter value or group of parameter values. This abstract complexType is expected to be extended and restricted for well-known operation methods with many instances, in Application Schemas that define operation-method-specialized element names and contents. Specific parameter value elements are directly contained in concrete subtypes, not in this abstract type. All concrete types derived from this type shall extend this type to include one "...Value" element with an appropriate type, which should be one of the element types allowed in the <code>ParameterValueType</code>. In addition, all derived concrete types shall extend this type to include a "operationParameter" property element that references one element substitutable for the "OperationParameter" object element.</p>

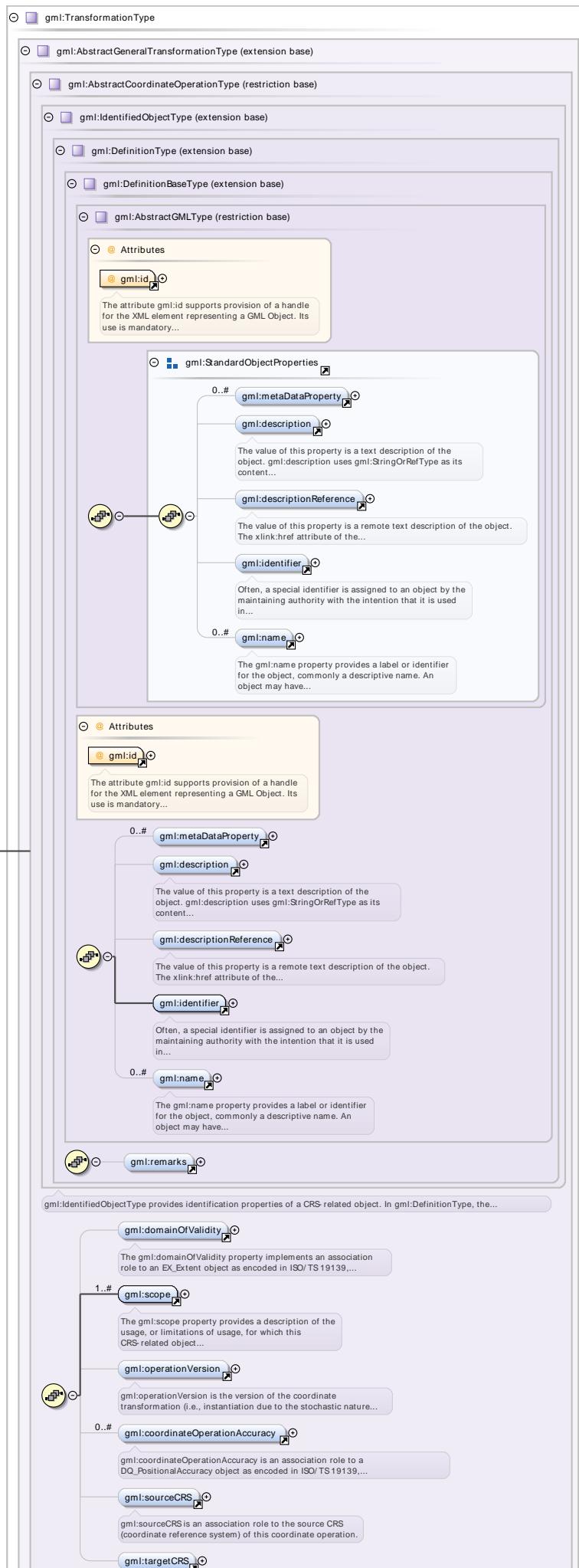
Diagram					
Type	gml:AbstractGeneralParameterValueType				
Properties	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">content:</td><td style="padding: 2px;">complex</td></tr> <tr> <td style="padding: 2px;">abstract:</td><td style="padding: 2px;">true</td></tr> </table>	content:	complex	abstract:	true
content:	complex				
abstract:	true				
Substitution Group	<ul style="list-style-type: none"> • gml:ParameterValue • gml:ParameterValueGroup 				
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:AbstractObject 				

Element gml:Transformation

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:Transformation is a concrete object element derived from gml:GeneralTransformation (13.6.2.13). This concrete object can be used for all operation methods, without using a GML Application Schema that defines operation-method-specialized element names and contents, especially for methods with only one Transformation instance. The parameterValue elements are an unordered list of composition associations to the set of parameter values used by this conversion operation.</p>

Schema documentation for
MisPlanSummedUpTrip.xsd

Diagram



Type	gml:TransformationType		
Properties	content: complex		
Substitution Group	Affiliation		
Attributes	QName	Type	Use
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element gml:ParameterValue

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:ParameterValue is a parameter value, an ordered sequence of values, or a reference to a file of parameter values. This concrete complex type may be used for operation methods without using an Application Schema that defines operation-method-specialized element names and contents, especially for methods with only one instance. This complex type may be used, extended, or restricted for well-known operation methods, especially for methods with many instances.</p>
Diagram	<p>The diagram illustrates the UML class structure for the gml:ParameterValue element. It starts with the gml:ParameterValueType class, which is the extension base. This class is part of a substitution group (gml:AbstractGeneralParameterValueType). The diagram then branches into several subclasses, each with a detailed description of its purpose:</p> <ul style="list-style-type: none"> gml:value: gml:value is a numeric value of an operation parameter, with its associated unit of measure. gml:dmsAngleValue gml:stringValue: gml:stringValue is a character string value of an operation parameter. A string value does not have an associated unit... gml:integerValue: gml:integerValue is a positive integer value of an operation parameter, usually used for a count. An integer value does... gml:booleanValue: gml:booleanValue is a boolean value of an operation parameter. A Boolean value does not have an associated unit of... gml:valueList: gml:valueList is an ordered sequence of two or more numeric values of an operation parameter list, where each value has... gml:integerValueList: gml:integerValueList is an ordered sequence of two or more integer values of an operation parameter list, usually used... gml:valueFile: gml:valueFile is a reference to a file or a part of a file containing one or more parameter values, each numeric value... gml:operationParameter: gml:operationParameter is an association role to the operation parameter of which this is a value.

Type	gml:ParameterValueType
Properties	content: complex
Substitution Group Affiliation	• gml:AbstractGeneralParameterValue

Element gml:value

Namespace	http://www.opengis.net/gml/3.2								
Annotations	gml:value is a numeric value of an operation parameter, with its associated unit of measure.								
Diagram	<p>The diagram illustrates the structure of the gml:value element. It is a complex type (gml:MeasureType) containing a double primitive type. The double type is described as a built-in primitive type corresponding to IEEE double-precision 64-bit floating point type. The gml:value element also has attributes, specifically @ uom, which is of type gml:UomIdentifier. A note states that gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure.</p>								
Type	gml:MeasureType								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </tbody> </table>			QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use							
uom	gml:UomIdentifier	required							

Element gml:dmsAngleValue

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram shows the structure of gml:dmsAngleValue. It is a sequence type (gml:DMSAngleType) consisting of three components: gml:degrees, gml:decimalMinutes, and gml:seconds. Each component is represented by a box with a plus sign, indicating they are optional.</p>		
Type	gml:DMSAngleType		
Properties	content: complex		

Element gml:degrees

Namespace	http://www.opengis.net/gml/3.2								
Diagram	<p>The diagram illustrates the structure of the gml:degrees element. It is a complex type (gml:DegreesType) containing a gml:DegreeValueType primitive type. The gml:DegreeValueType is described as a built-in primitive type. The gml:degrees element also has attributes, specifically @ direction, which is of type restriction of string. A note states that gml:DegreesType supports recording an amount encoded as a value of XML Schema double, together with a units of measure.</p>								
Type	gml:DegreesType								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>direction</td> <td>restriction of string</td> <td>optional</td> </tr> </tbody> </table>			QName	Type	Use	direction	restriction of string	optional
QName	Type	Use							
direction	restriction of string	optional							

Element **gml:decimalMinutes**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:DecimalMinutesType
Properties	content: simple

Element **gml:minutes**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:ArcMinutesType
Properties	content: simple

Element **gml:seconds**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:ArcSecondsType
Properties	content: simple

Element **gml:stringValue**

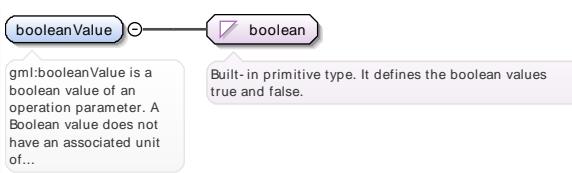
Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:stringValue is a character string value of an operation parameter. A string value does not have an associated unit of measure.
Diagram	 Built-in primitive type. The string datatype represents character strings in XML.
Type	string
Properties	content: simple

Element **gml:integerValue**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:integerValue is a positive integer value of an operation parameter, usually used for a count. An integer value does not have an associated unit of measure.
Diagram	 Built-in derived type. The positiveInteger datatype is derived from nonNegativeInteger by setting the value of...
Type	positiveInteger
Properties	content: simple

Element **gml:booleanValue**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:booleanValue is a boolean value of an operation parameter. A Boolean value does not have an associated unit of measure.

Diagram	 <p>gml:booleanValue is a boolean value of an operation parameter. A Boolean value does not have an associated unit of...</p> <p>Built-in primitive type. It defines the boolean values true and false.</p>
Type	boolean
Properties	content: simple

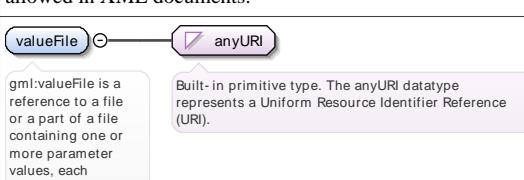
Element **gml:valueList**

Namespace	http://www.opengis.net/gml/3.2								
Annotations	gml:valueList is an ordered sequence of two or more numeric values of an operation parameter list, where each value has the same associated unit of measure. An element of this type contains a space-separated sequence of double values.								
Diagram	 <p>gml:valueList is an ordered sequence of two or more numeric values of an operation parameter list, where each value has...</p> <p>gml:MeasureListType provides for a list of quantities.</p>								
Type	gml:MeasureListType								
Properties	content: complex								
Attributes	<table border="1"> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </table>			QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use							
uom	gml:UomIdentifier	required							

Element **gml:integerValueList**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:integerValueList is an ordered sequence of two or more integer values of an operation parameter list, usually used for counts. These integer values do not have an associated unit of measure. An element of this type contains a space-separated sequence of integer values.		
Diagram	 <p>gml:integerValueList is an ordered sequence of two or more integer values of an operation parameter list, usually used...</p> <p>A type for a list of values of the respective simple type.</p>		
Type	gml:integerList		
Properties	content: simple		

Element **gml:valueFile**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:valueFile is a reference to a file or a part of a file containing one or more parameter values, each numeric value with its associated unit of measure. When referencing a part of a file, that file shall contain multiple identified parts, such as an XML encoded document. Furthermore, the referenced file or part of a file may reference another part of the same or different files, as allowed in XML documents.		
Diagram	 <p>gml:valueFile is a reference to a file or a part of a file containing one or more parameter values, each numeric value...</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>		
Type	anyURI		

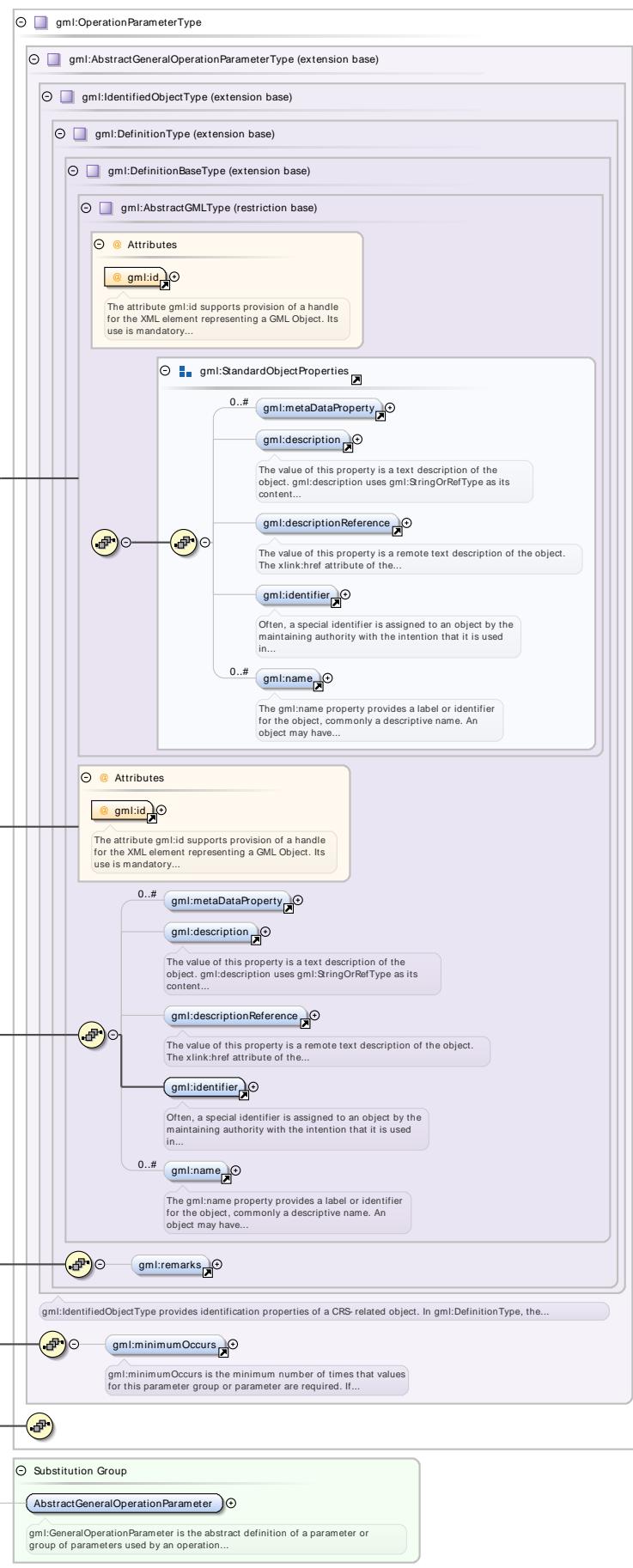
Properties	content: simple
Element <code>gml:operationParameter</code>	
Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:operationParameter is an association role to the operation parameter of which this is a value.
Diagram	<p>The diagram illustrates the UML class <code>gml:OperationParameterType</code>. It is an extension of <code>gml:AbstractGeneralOperationParameterType</code> (restriction base) and <code>gml:IdentifiedObjectType</code> (extension base). It also extends <code>gml:DefinitionType</code> (extension base). The class contains the following attributes:</p> <ul style="list-style-type: none"> <code>gml:id</code>: A handle for the XML element representing a GML Object. Its use is mandatory. <code>gml:metaDataProperty</code>: A text description of the object. <code>gml:description</code>: A text description of the object. <code>gml:descriptionReference</code>: A remote text description of the object. <code>gml:identifier</code>: A special identifier assigned by the maintaining authority. <code>gml:name</code>: A label or identifier for the object. <code>gml:remarks</code>: Additional notes or remarks. <code>gml:minimumOccurs</code>: The minimum number of times values for this parameter group or parameter are required. <p>A note at the bottom states: "gml:IdentifiedObjectType provides identification properties of a CRS-related object. In gml:DefinitionType, the..."</p>

Type	gml:OperationParameterPropertyType			
Properties	content: complex			
Substitution Group	• gml:valueOfParameter			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element **gml:OperationParameter**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:OperationParameter is the definition of a parameter used by an operation method. Most parameter values are numeric, but other types of parameter values are possible. This complex type is expected to be used or extended for all operation methods, without defining operation-method-specialized element names.

Diagram



Type	gml:OperationParameterType		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractGeneralOperationParameter 		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:ParameterValueGroup

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:ParameterValueGroup is a group of related parameter values. The same group can be repeated more than once in a Conversion, Transformation, or higher level ParameterValueGroup, if those instances contain different values of one or more parameterValues which suitably distinguish among those groups. This concrete complex type can be used for operation methods without using an Application Schema that defines operation-method-specialized element names and contents. This complex type may be used, extended, or restricted for well-known operation methods, especially for methods with only one instance. The parameterValue elements are an unordered set of composition association roles to the parameter values and groups of values included in this group.</p>
Diagram	<pre> classDiagram class gml:ParameterValueGroupType { <<gml:AbstractGeneralParameterValueType (extension base)>> <<Substitution Group>> <<AbstractGeneralParameterValue>> } class gml:parameterValue class gml:group gml:ParameterValueGroupType "2..#" -- "1.." gml:parameterValue : gml:parameterValue gml:ParameterValueGroupType -- "1.." gml:group : gml:group </pre>
Type	gml:ParameterValueGroupType
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractGeneralParameterValue

Element gml:group

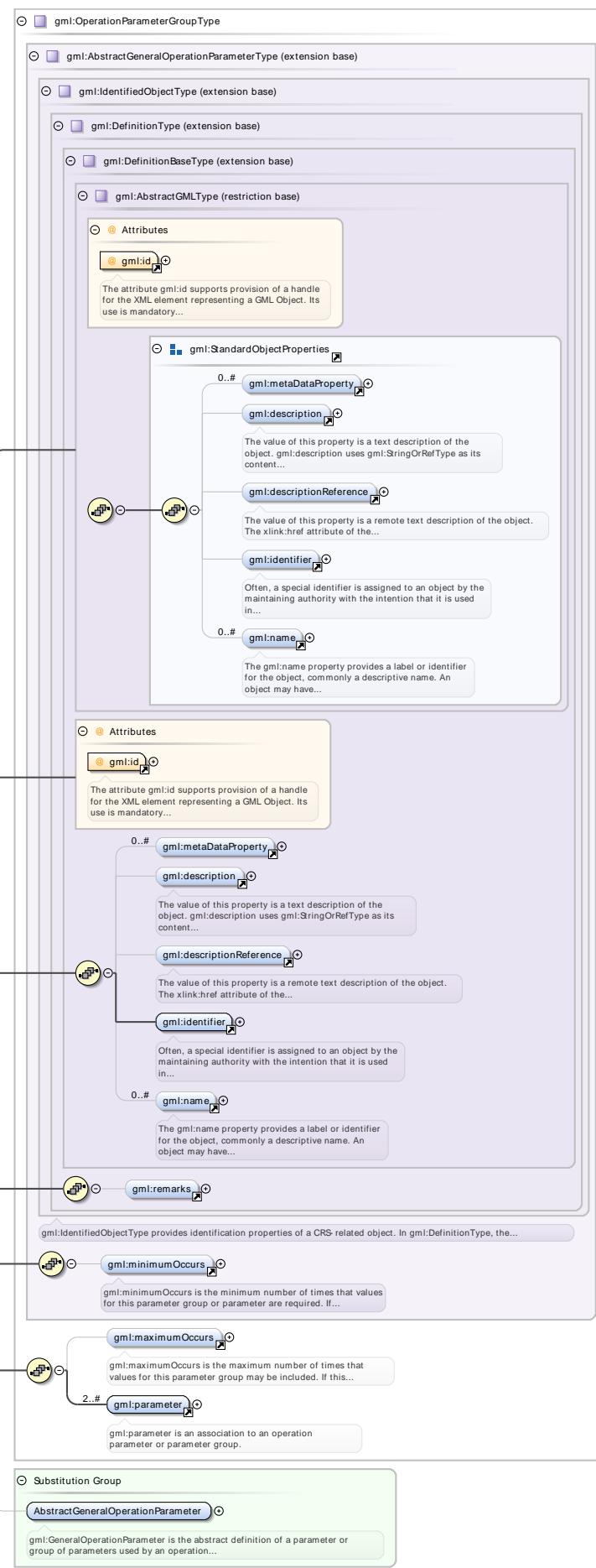
Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:group is an association role to the operation parameter group for which this element provides parameter values.

<p>Diagram</p>	<p>gml:OperationParameterGroupPropertyType</p> <p>Attributes</p> <ul style="list-style-type: none"> gml:AssociationAttributeGroup <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....</p> <p>gml:OperationParameterGroup</p> <p>gml:OperationParameterGroup is the definition of a group of parameters used by an operation method. This complex type...</p> <p>Substitutions</p> <ul style="list-style-type: none"> valuesOfGroup <p>gml:group is an association role to the operation parameter group for which this element provides parameter values.</p>																																								
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Properties	content: complex																																								
Substitution Group	<ul style="list-style-type: none"> gml:valuesOfGroup 																																								
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:OperationParameterGroup**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:OperationParameterGroup is the definition of a group of parameters used by an operation method. This complex type is expected to be used or extended for all applicable operation methods, without defining operation-method-specialized element names. The generalOperationParameter elements are an unordered list of associations to the set of operation parameters that are members of this group.</p>

Diagram



Type	gml:OperationParameterGroupType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractGeneralOperationParameter		
Attributes	QName	Type	Use
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

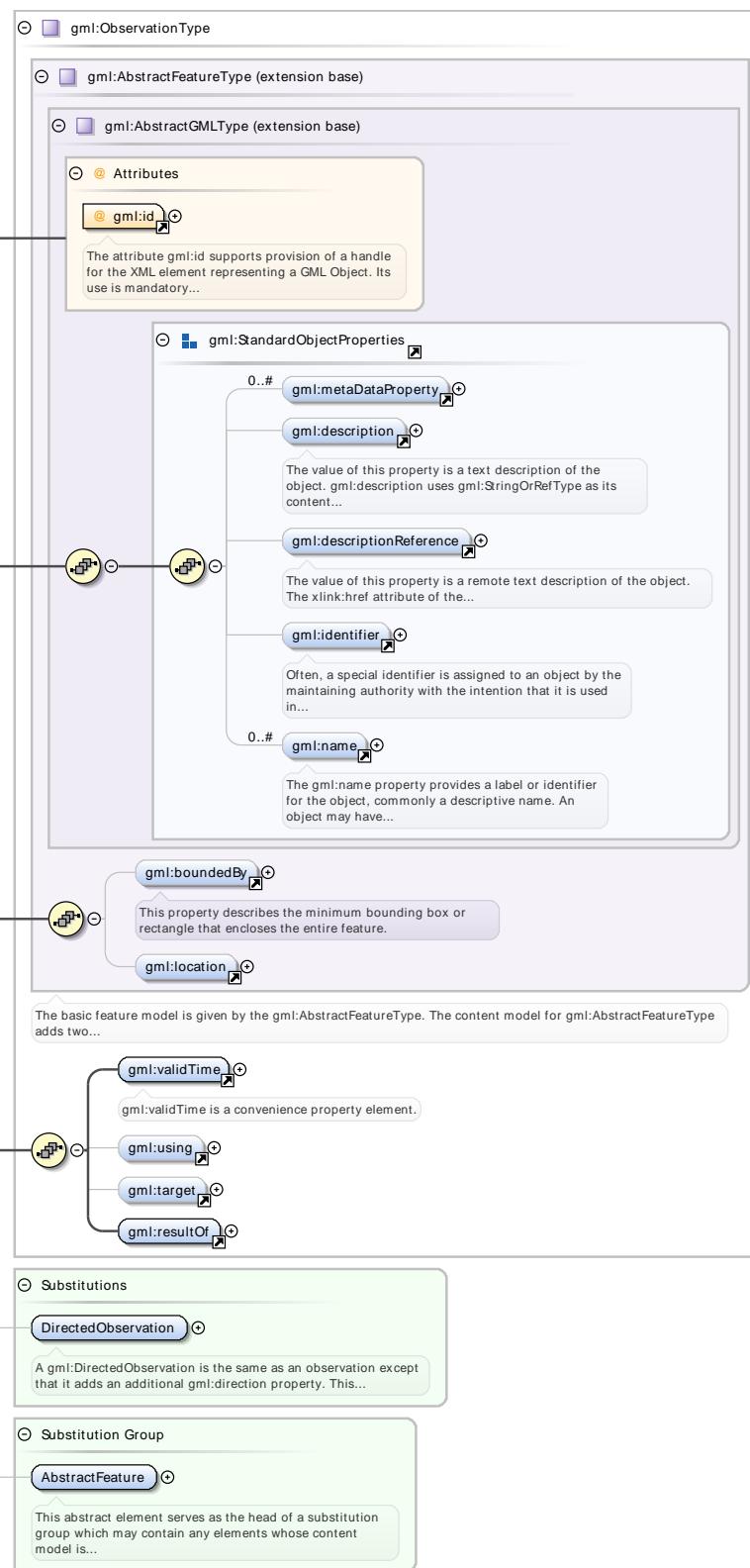
Element **gml:maximumOccurs**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:maximumOccurs is the maximum number of times that values for this parameter group may be included. If this attribute is omitted, the maximum number shall be one.
Diagram	
Type	positiveInteger
Properties	content: simple

Element **gml:Observation**

Namespace	http://www.opengis.net/gml/3.2
Annotations	The content model is a straightforward extension of gml:AbstractFeatureType; it automatically has the gml:identifier, gml:description, gml:descriptionReference, gml:name, and gml:boundedBy properties. The gml:validTime element describes the time of the observation. Note that this may be a time instant or a time period. The gml:using property contains or references a description of a sensor, instrument or procedure used for the observation. The gml:target property contains or references the specimen, region or station which is the object of the observation. This property is particularly useful for remote observations, such as photographs, where a generic location property might apply to the location of the camera or the location of the field of view, and thus may be ambiguous. The gml:subject element is provided as a convenient synonym for gml:target. This is the term commonly used in photography. The gml:resultOf property indicates the result of the observation. The value may be inline, or a reference to a value elsewhere.

Diagram



Type	gml:ObservationType
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> gml:DirectedObservation gml:DirectedObservationAtDistance
Substitution Group Affiliation	gml:AbstractFeature

Attributes	QName	Type	Use	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Element **gml:using**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:ProcedurePropertyType element. It is an abstract feature that serves as the head of a substitution group. It has two attribute groups: gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup. The using attribute is shown as an association with the gml:ProcedurePropertyType class.</p>																																																							
Type	gml:ProcedurePropertyType																																																							
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Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:target**

Namespace	http://www.opengis.net/gml/3.2
-----------	--------------------------------

Diagram

The diagram shows the `gml:TargetPropertyType` class with the following structure:

- Attributes:**
 - `gml:OwnershipAttributeGroup`: Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...
 - `gml:AssociationAttributeGroup`: XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...
- target**: A reference to another element.
- Substitution Group:**
 - `gml:AbstractFeature`: This abstract element serves as the head of a substitution group which may contain any elements whose content model is...
 - `gml:AbstractGeometry`: The AbstractGeometry element is the abstract head of the substitution group for all geometry elements of GML. This...
- Substitutions:**
 - `subject`: A reference to a subject element.

Type: `gml:TargetPropertyType`

Properties: content: complex

Substitution Group:

- `gml:subject`

Attributes	QName	Type	Fixed	Default	Use
	<code>gml:remoteSchema</code>	anyURI			optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional
	<code>owns</code>	boolean		false	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
	<code>xlink:role</code>	<code>xlink:roleType</code>			optional
	<code>xlink:show</code>	<code>xlink:showType</code>			optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

Element gml:resultof

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram shows the <code>gml:ResultType</code> class with the following structure:</p> <ul style="list-style-type: none"> Attributes: <ul style="list-style-type: none"> <code>gml:OwnershipAttributeGroup</code> (highlighted in orange) <code>gml:AssociationAttributeGroup</code> (highlighted in orange) Operations: <ul style="list-style-type: none"> <code>resultOf</code> (highlighted in blue) <code>##any</code> (highlighted in blue) <p>Annotations for the highlighted attributes and operations provide additional context:</p> <ul style="list-style-type: none"> <code>gml:OwnershipAttributeGroup</code>: "Encoding a GML property inline vs. by-reference shall not imply anything about the 'ownership' of the contained or..." <code>gml:AssociationAttributeGroup</code>: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,..." <code>##any</code>: "V ##any"
Type	<code>gml:ResultType</code>

Properties	content: complex					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:subject**

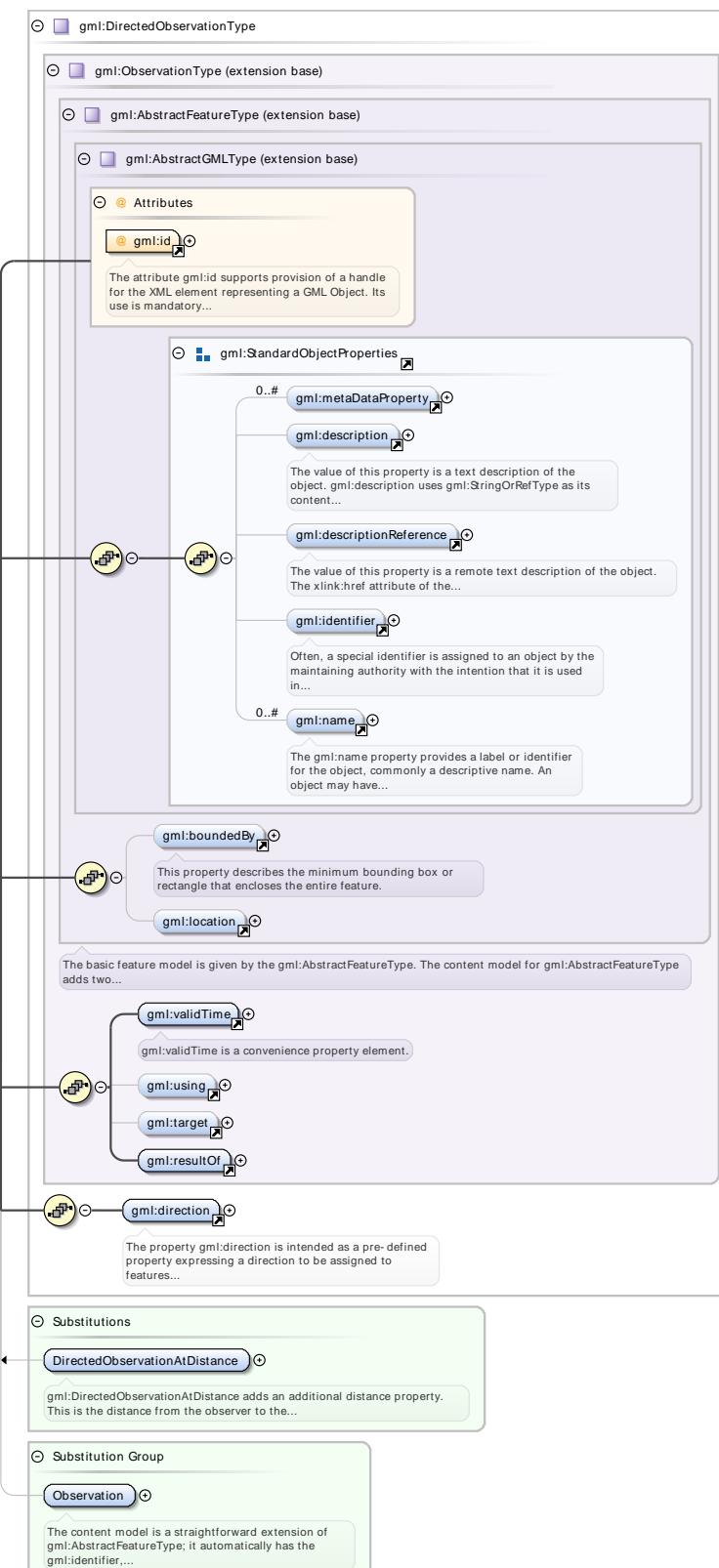
Namespace	http://www.opengis.net/gml/3.2																																																												
Diagram	<pre> classDiagram class gml:TargetPropertyType { <<Attributes>> <<gml:OwnershipAttributeGroup>> <<gml:AssociationAttributeGroup>> <<gml:AbstractFeature>> <<gml:AbstractGeometry>> <<Substitution Group>> <<target>> } subject < -- gml:TargetPropertyType target < -- gml:TargetPropertyType </pre> <p>Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...</p> <p>This abstract element serves as the head of a substitution group which may contain any elements whose content model is...</p> <p>The AbstractGeometry element is the abstract head of the substitution group for all geometry elements of GML. This...</p>																																																												
Type	gml:TargetPropertyType																																																												
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Substitution Group Affiliation	• gml:target																																																												
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QName	Type	Fixed	Default	Use
xlink:type	xlink:typeType	simple		optional

Element **gml:DirectedObservation**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A gml:DirectedObservation is the same as an observation except that it adds an additional gml:direction property. This is the direction in which the observation was acquired. Clearly this applies only to certain types of observations such as visual observations by people, or observations obtained from terrestrial cameras.

Diagram



Type	<code>gml:DirectedObservationType</code>
Properties	content: complex
Substitution Group	<ul style="list-style-type: none"> • <code>gml:DirectedObservationAtDistance</code>

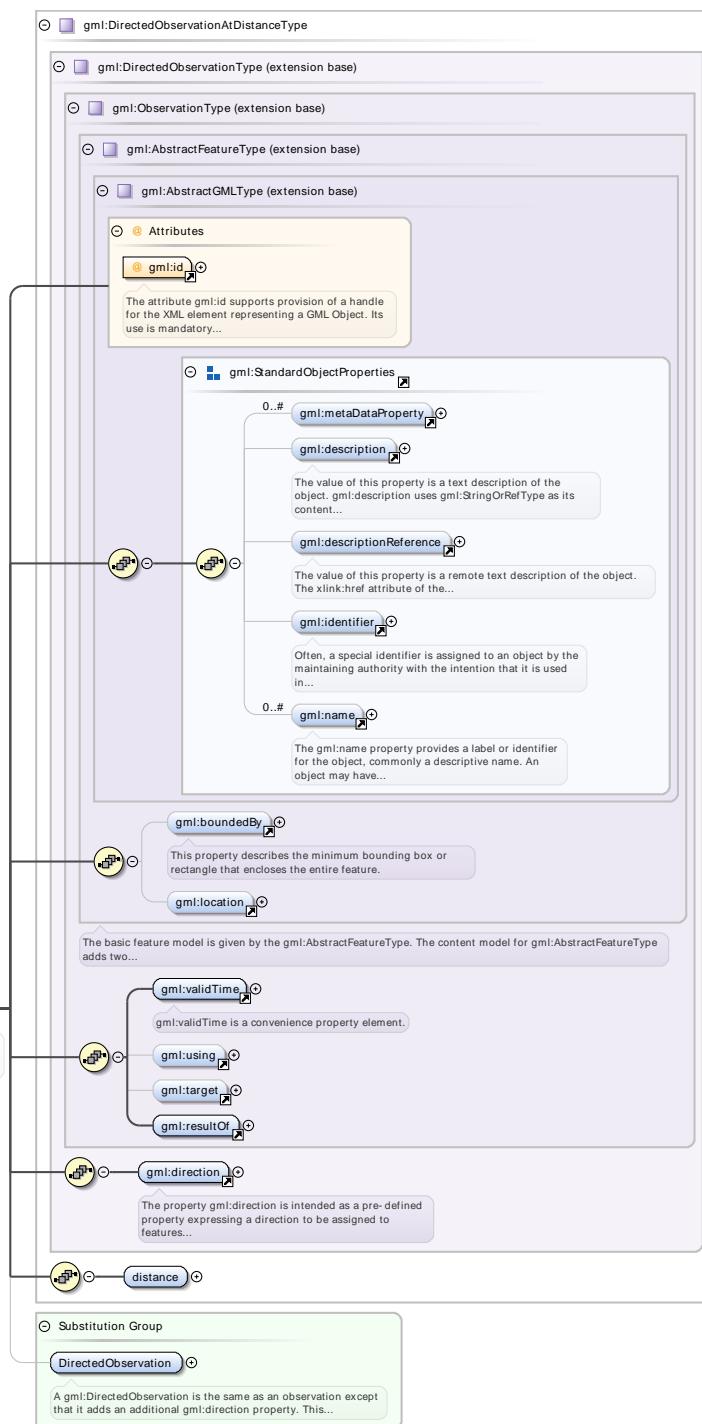
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:Observation</code> 		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

The attribute `gml:id` supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element `gml:DirectedObservationAtDistance`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:DirectedObservationAtDistance</code> adds an additional distance property. This is the distance from the observer to the subject of the observation. Clearly this applies only to certain types of observations such as visual observations by people, or observations obtained from terrestrial cameras.

Diagram



Type	<code>gml:DirectedObservationAtDistanceType</code>		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:DirectedObservation</code> 		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

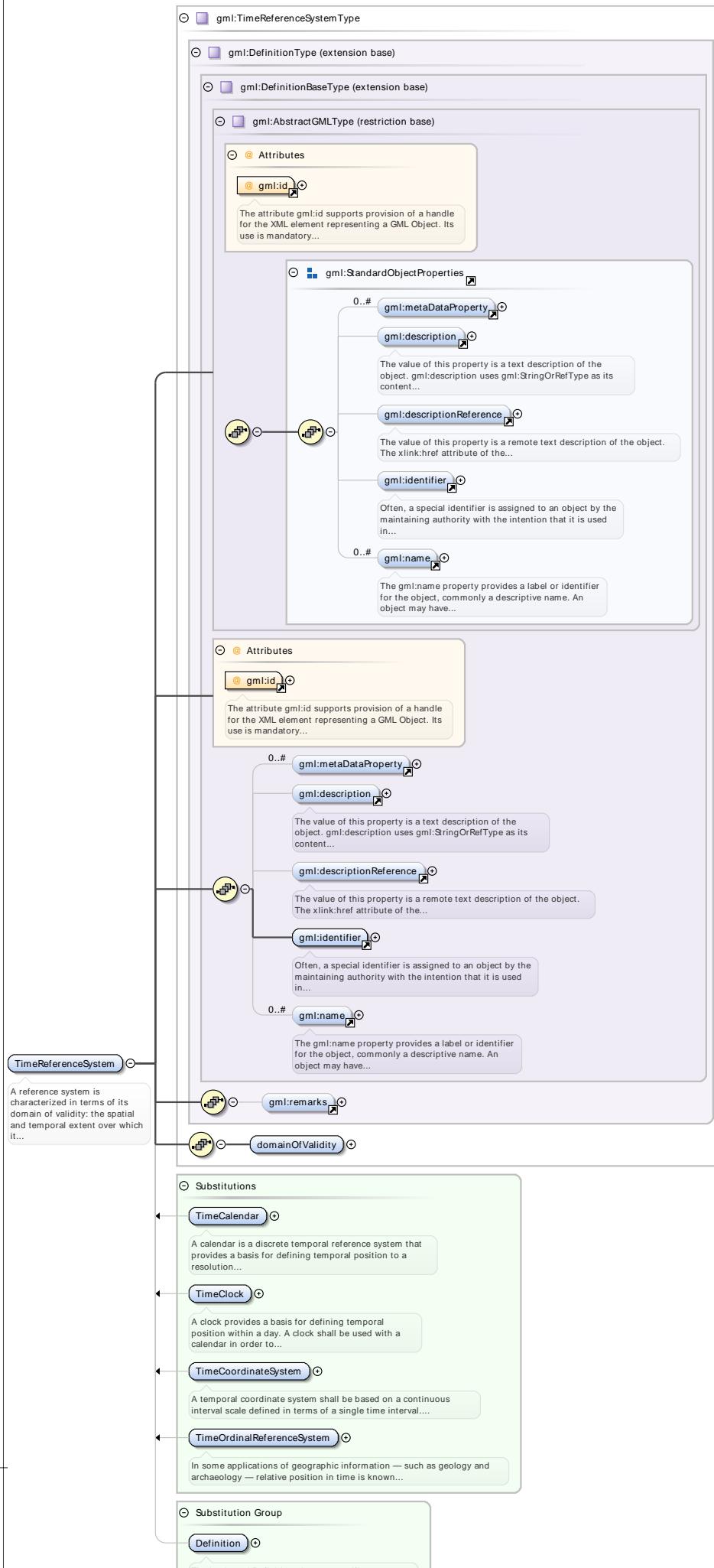
Element **gml:DirectedObservationAtDistanceType** / **gml:distance**

Namespace	http://www.opengis.net/gml/3.2						
Diagram	<p>The diagram illustrates the structure of the gml:MeasureType element. It shows a central box labeled gml:MeasureType containing a double primitive type and an @ uom attribute. A callout box provides a detailed description: "Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]. The attribute uom specifies the units of measure for the value." A note at the bottom states: "gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...".</p>						
Type	gml:MeasureType						
Properties	content: complex						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element **gml:TimeReferenceSystem**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A reference system is characterized in terms of its domain of validity: the spatial and temporal extent over which it is applicable. The basic GML element for temporal reference systems is gml:TimeReferenceSystem . Its content model extends gml:DefinitionType with one additional property, gml:domainOfValidity .

Diagram



Type	gml:TimeReferenceSystemType								
Properties	content: complex								
Substitution Group	<ul style="list-style-type: none"> • gml:TimeCoordinateSystem • gml:TimeCalendar • gml:TimeClock • gml:TimeOrdinalReferenceSystem 								
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:Definition 								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
QName	Type	Use							
gml:id	ID	required							

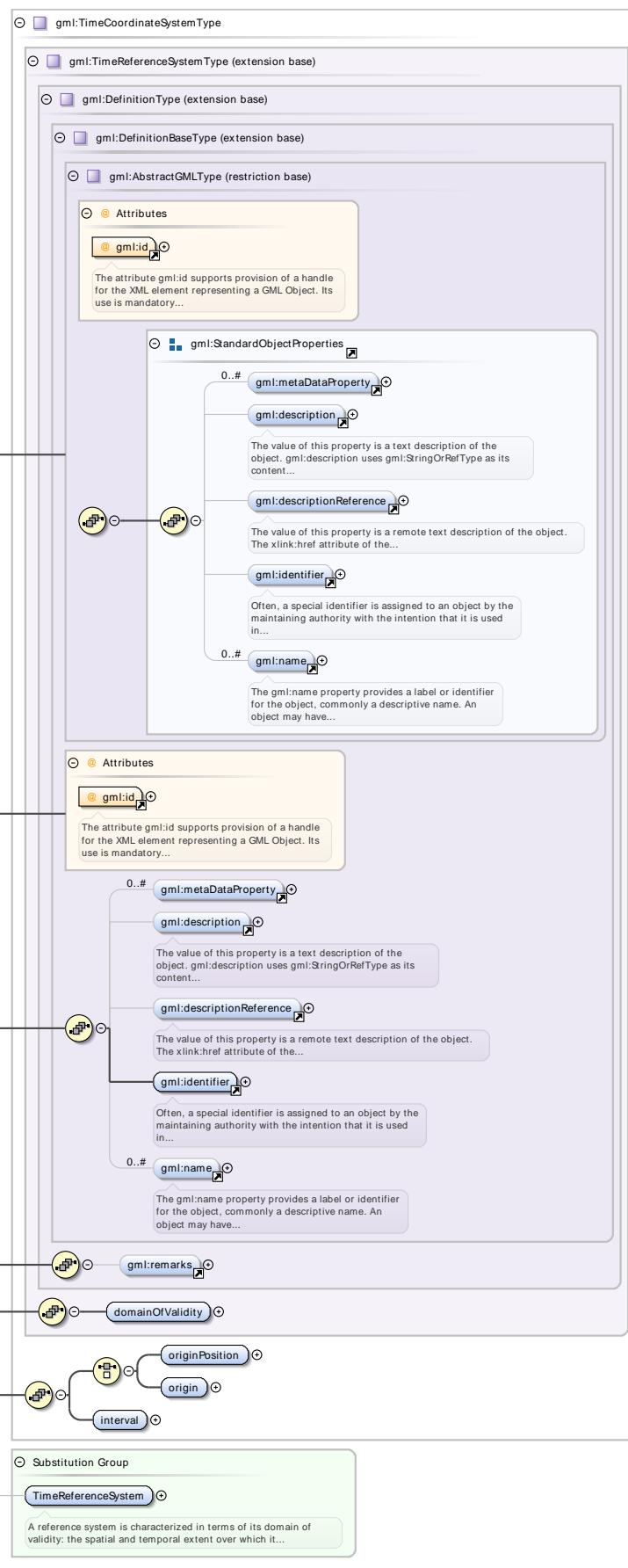
Element **gml:TimeReferenceSystemType** / **gml:domainOfValidity**

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	string		
Properties	content: simple		

Element **gml:TimeCoordinateSystem**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<p>A temporal coordinate system shall be based on a continuous interval scale defined in terms of a single time interval. The differences to ISO 19108 TM_CoordinateSystem are: - the origin is specified either using the property gml:originPosition whose value is a direct time position, or using the property gml:origin whose model is gml:TimeInstantPropertyType; this permits more flexibility in representation and also supports referring to a value fixed elsewhere; - the interval uses gml:TimeIntervalLengthType.</p>		

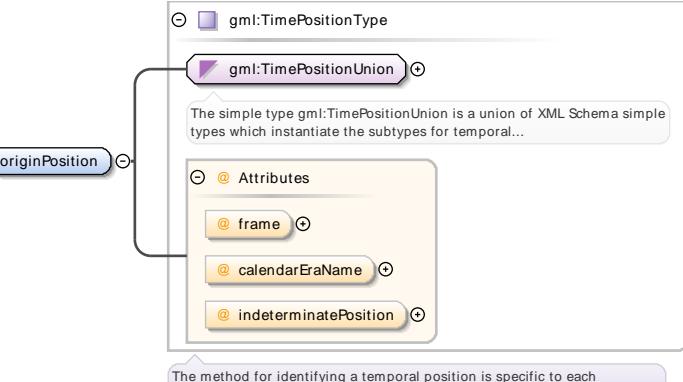
Diagram



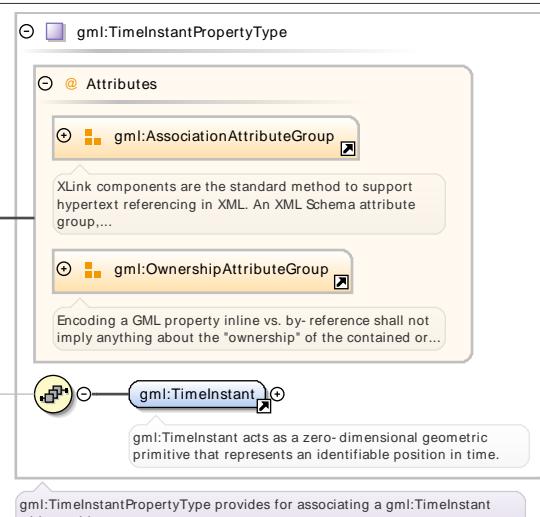
Type	<code>gml:TimeCoordinateSystemType</code>
------	---

Properties	content: complex		
Substitution Group Affiliation	• gml:TimeReferenceSystem		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element **gml:TimeCoordinateSystemType / gml:originPosition**

Namespace	http://www.opengis.net/gml/3.2			
Diagram	 <p>The simple type gml:TimePositionUnion is a union of XML Schema simple types which instantiate the subtypes for temporal...</p> <p>The method for identifying a temporal position is specific to each temporal reference system. gml:TimePositionType...</p>			
Type	gml:TimePositionType			
Properties	content: complex			
Attributes	QName	Type	Default	Use
	calendarEraName	string		optional
	frame	anyURI	#ISO-8601	optional
	indeterminatePosition	gml:TimeIndeterminateValueType		optional

Element **gml:TimeCoordinateSystemType / gml:origin**

Namespace	http://www.opengis.net/gml/3.2			
Diagram	 <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....</p> <p>Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...</p> <p>gml:TimeInstant acts as a zero- dimensional geometric primitive that represents an identifiable position in time.</p> <p>gml:TimeInstantPropertyType provides for associating a gml:TimeInstant with an object.</p>			
Type	gml:TimeInstantPropertyType			
Properties	content: complex			
Attributes	QName	Type	Default	Use
	calendarEraName	string		optional
	frame	anyURI	#ISO-8601	optional
	indeterminatePosition	gml:TimeIndeterminateValueType		optional

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

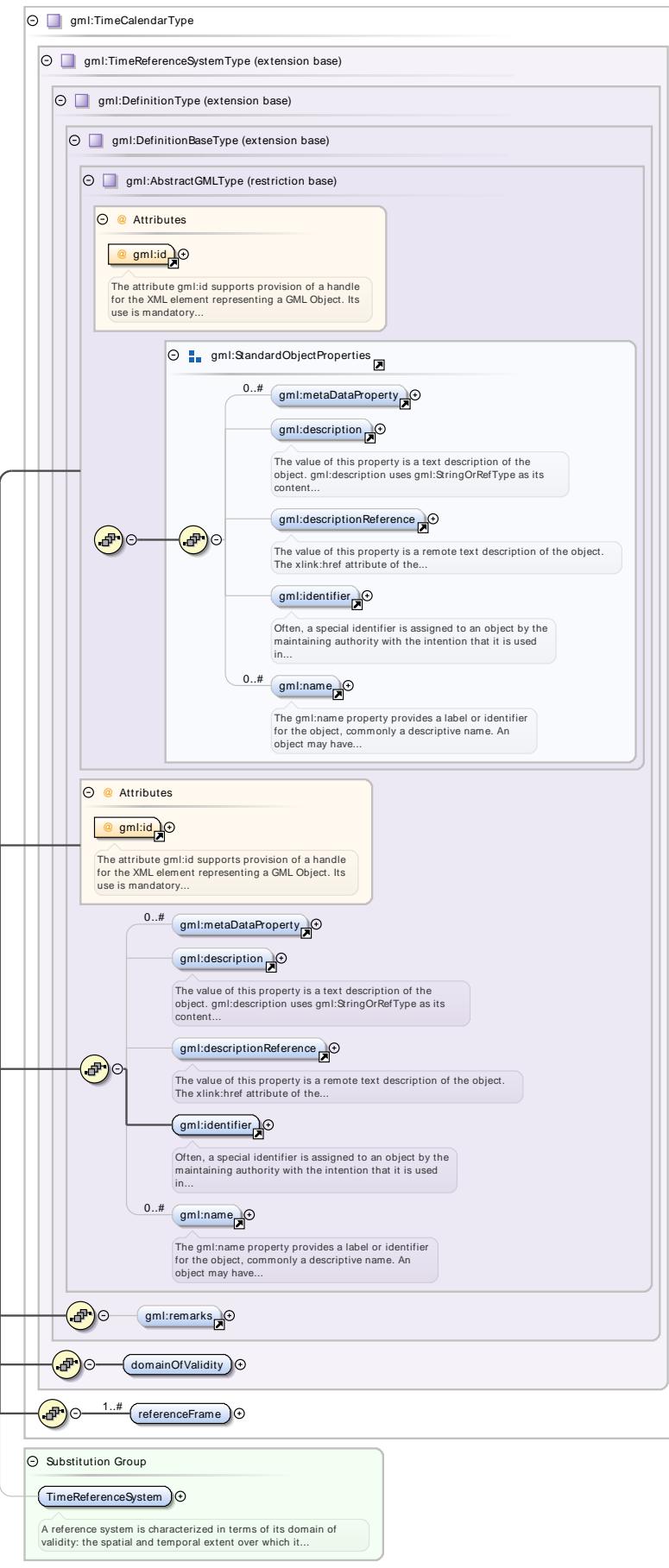
Element **gml:TimeCoordinateSystemType** / **gml:interval**

Namespace	http://www.opengis.net/gml/3.2												
Diagram	<p>The diagram illustrates the structure of the gml:TimeIntervalLengthType. It is a complex type with a single attribute, decimal, which is a built-in primitive type for representing arbitrary precision decimal numbers. The decimal attribute has three sub-attributes: unit, radix, and factor.</p>												
Type	gml:TimeIntervalLengthType												
Properties	content: complex												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>factor</td> <td>integer</td> <td>optional</td> </tr> <tr> <td>radix</td> <td>positiveInteger</td> <td>optional</td> </tr> <tr> <td>unit</td> <td>gml:TimeUnitType</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	factor	integer	optional	radix	positiveInteger	optional	unit	gml:TimeUnitType	required
QName	Type	Use											
factor	integer	optional											
radix	positiveInteger	optional											
unit	gml:TimeUnitType	required											

Element **gml:TimeCalendar**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A calendar is a discrete temporal reference system that provides a basis for defining temporal position to a resolution of one day. gml:TimeCalendar adds one property to those inherited from gml:TimeReferenceSystem. A gml:referenceFrame provides a link to a gml:TimeCalendarEra that it uses. A gml:TimeCalendar may reference more than one calendar era. The referenceFrame element follows the standard GML property model, allowing the association to be instantiated either using an inline description using the gml:TimeCalendarEra element, or a link to a gml:TimeCalendarEra which is explicit elsewhere.</p>

Diagram



Type	gml:TimeCalendarType		
Properties	content: complex		
Substitution Group Affiliation	• gml:TimeReferenceSystem		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:TimeCalendarType / gml:referenceFrame

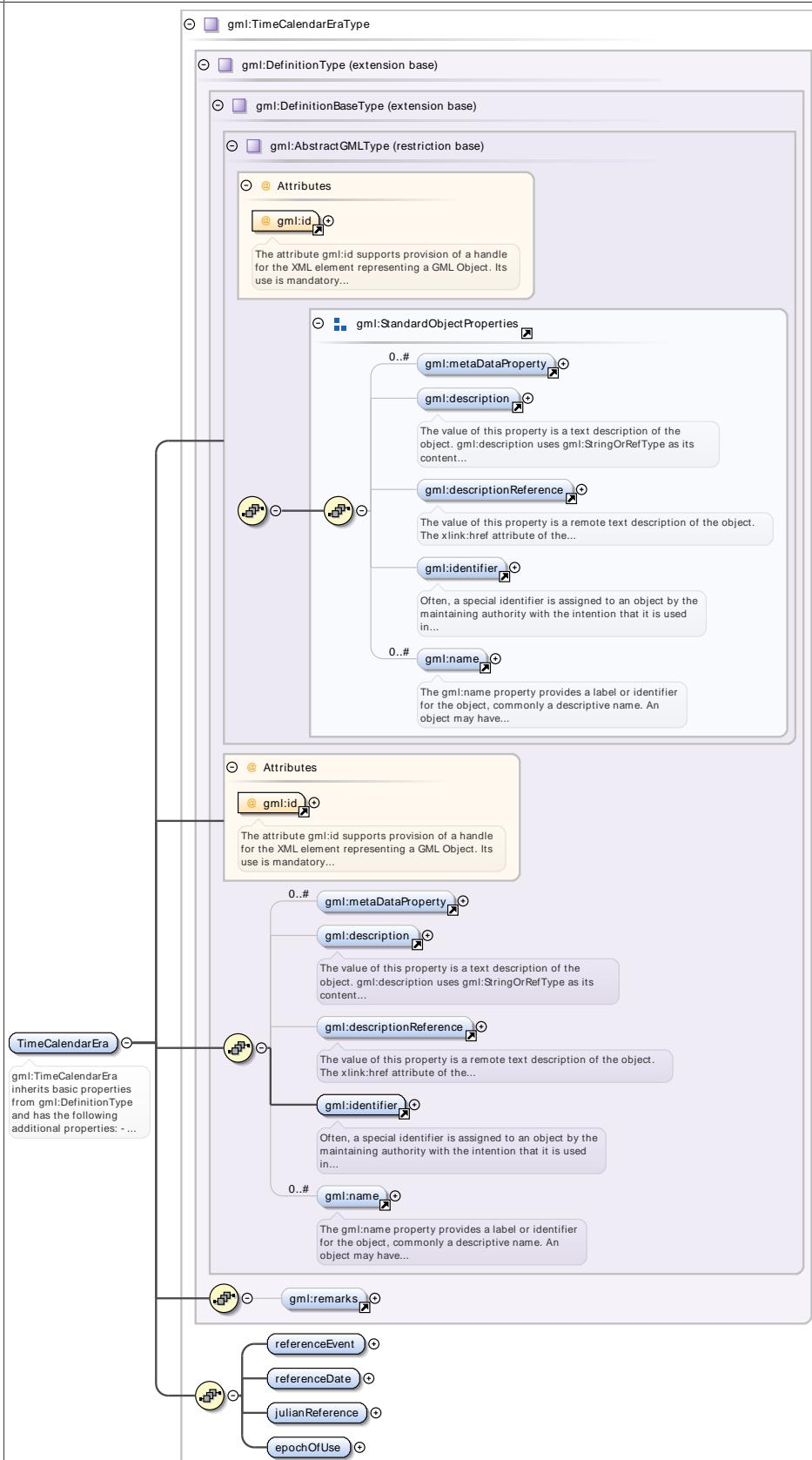
Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of the gml:TimeCalendarEraPropertyType. It shows inheritance from gml:DefinitionType, which provides basic properties. It also shows associations with gml:TimeCalendarEra (a many-to-one relationship) and gml:referenceFrame (a one-to-one relationship). The gml:TimeCalendarEraPropertyType also provides for associating a gml:TimeCalendarEra with an object.</p>				
Type	gml:TimeCalendarEraPropertyType				
Properties	<p>content: complex</p> <p>maxOccurs: unbounded</p>				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element gml:TimeCalendarEra

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<p>gml:TimeCalendarEra inherits basic properties from gml:DefinitionType and has the following additional properties:</p> <ul style="list-style-type: none"> - gml:referenceEvent is the name or description of a mythical or historic event which fixes the position of the base scale of the calendar era. This is given as text or using a link to description held elsewhere. - gml:referenceDate specifies the date of the referenceEvent expressed as a date in the given calendar. In most calendars, this date is the origin (i.e., the first day) of the scale, but this is not always true. - gml:julianReference specifies the Julian date that corresponds to the reference date. The Julian day number is an integer value; the Julian date is a decimal value that allows greater resolution. Transforming calendar dates to and from Julian 				

dates provides a relatively simple basis for transforming dates from one calendar to another. - `gml:epochOfUse` is the period for which the calendar era was used as a basis for dating.

Diagram

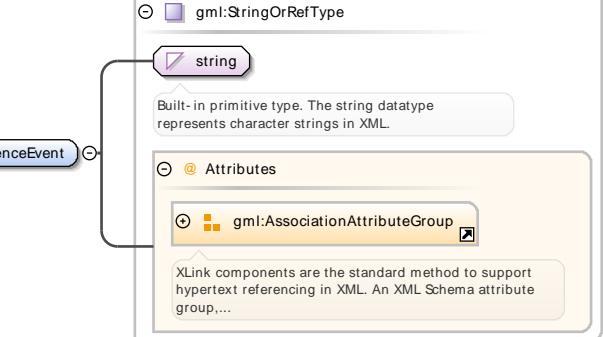


Type `gml:TimeCalendarEraType`

Properties content: complex

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

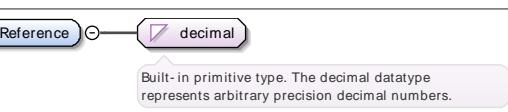
Element **gml:TimeCalendarEraType / gml:referenceEvent**

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	gml:StringOrRefType		
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
	xlink:type	xlink:typeType	simple
			optional

Element **gml:TimeCalendarEraType / gml:referenceDate**

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	gml:CalDate		
Properties	content: simple		

Element **gml:TimeCalendarEraType / gml:julianReference**

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	decimal		
Properties	content: simple		

Element **gml:TimeCalendarEraType / gml:epochOfUse**

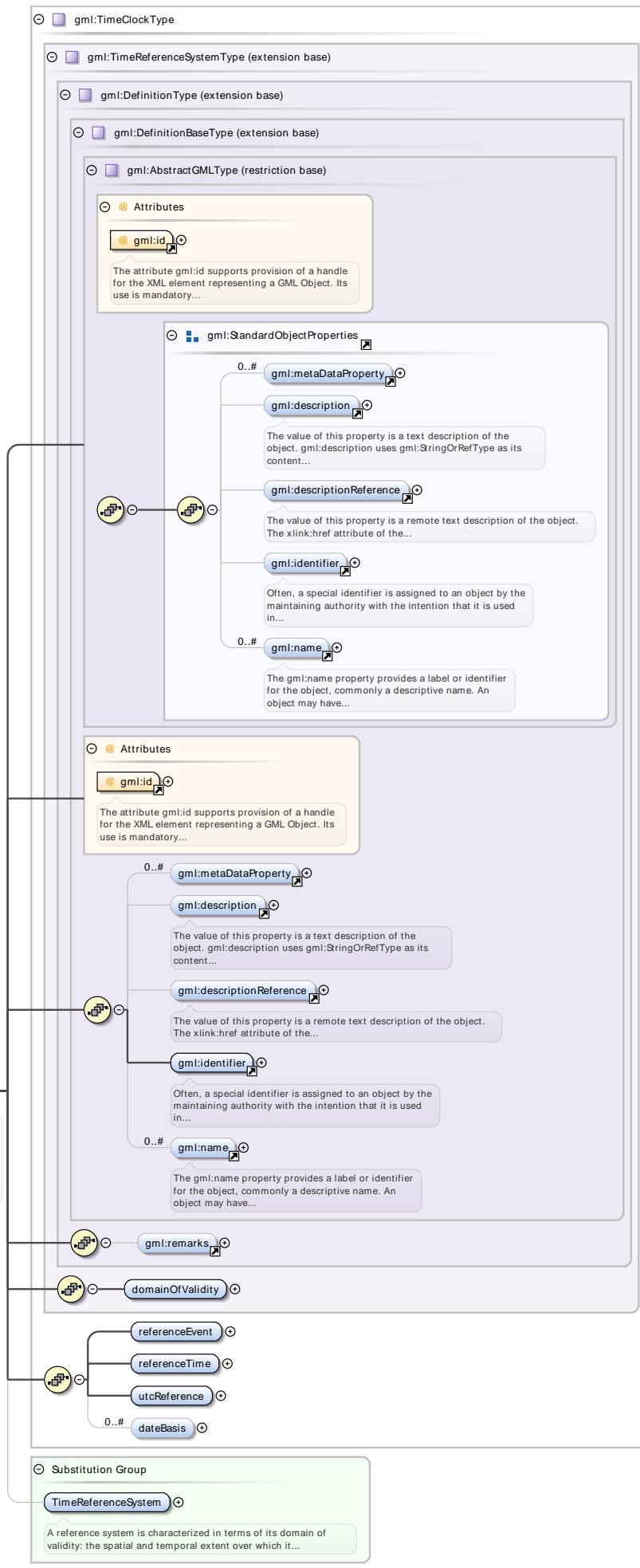
Namespace	http://www.opengis.net/gml/3.2		
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Diagram																																																								
Type	gml:TimePeriodPropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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Element gml:TimeClock

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>A clock provides a basis for defining temporal position within a day. A clock shall be used with a calendar in order to provide a complete description of a temporal position within a specific day. gml:TimeClock adds the following properties to those inherited from gml:TimeReferenceSystemType: - gml:referenceEvent is the name or description of an event, such as solar noon or sunrise, which fixes the position of the base scale of the clock. - gml:referenceTime specifies the time of day associated with the reference event expressed as a time of day in the given clock. The reference time is usually the origin of the clock scale. - gml:utcReference specifies the 24 hour local or UTC time that corresponds to the reference time. - gml:dateBasis contains or references the calendars that use this clock.</p>

Diagram



Type	gml:TimeClockType		
Properties	content: complex		
Substitution Group Affiliation	• gml:TimeReferenceSystem		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:TimeClockType / gml:referenceEvent

Namespace	http://www.opengis.net/gml/3.2			
Diagram	<p>The diagram shows the structure of the gml:referenceEvent type. It is a complex type with a stringOrRefType element. The stringOrRefType element has a string attribute, which is described as a built-in primitive type representing character strings in XML. It also has an association attribute group, which is described as XLink components supporting hypertext referencing.</p>			
Type	gml:StringOrRefType			
Properties	content: complex			
Attributes	QName	Type	Fixed	
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:TimeClockType / gml:referenceTime

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram shows the structure of the gml:referenceTime type. It is a complex type with a time element. The time element is described as a built-in primitive type representing an instant of time that recurs every day.</p>		
Type	time		
Properties	content: simple		

Element gml:TimeClockType / gml:utcReference

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram shows the structure of the gml:utcReference type. It is a complex type with a time element. The time element is described as a built-in primitive type representing an instant of time that recurs every day.</p>		

Type	time
Properties	content: simple

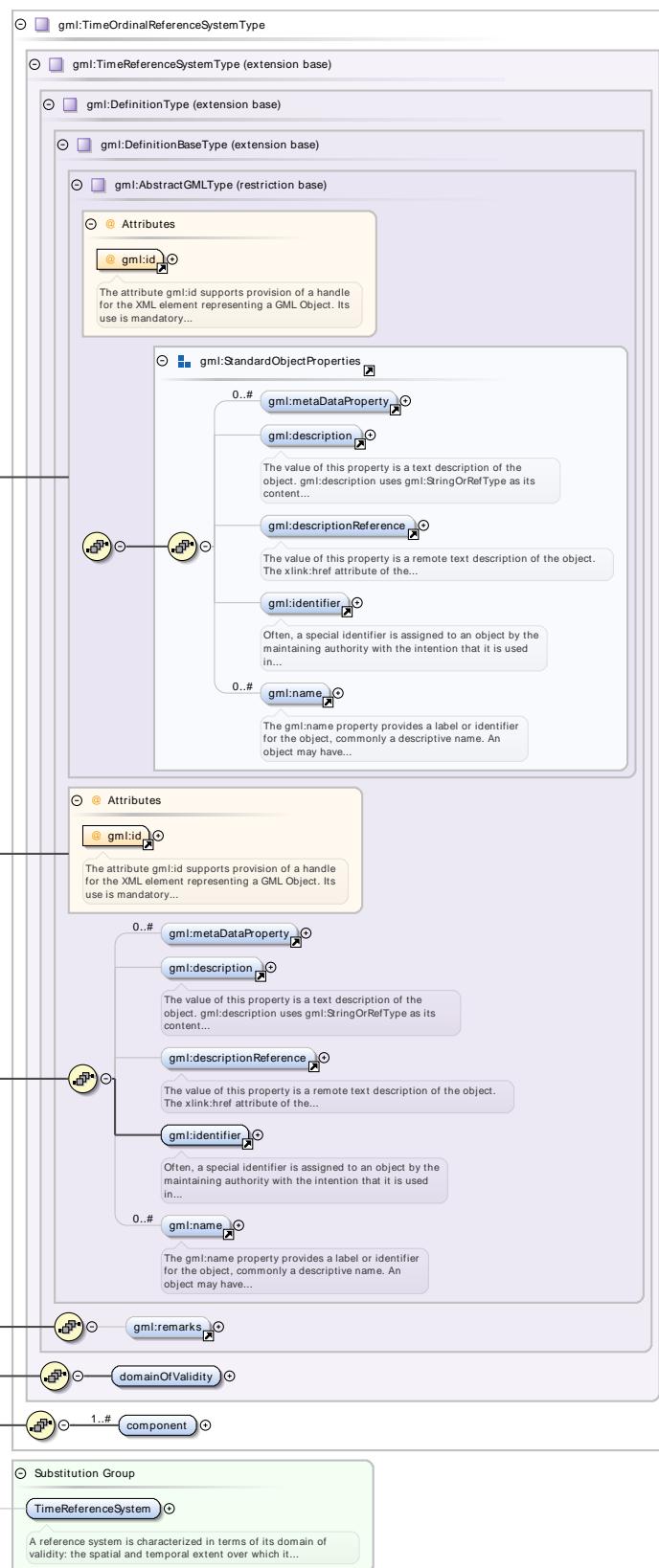
Element **gml:TimeClockType** / **gml:dateBasis**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of gml:TimeCalendarPropertyType. It shows the following components:</p> <ul style="list-style-type: none"> gml:TimeCalendarPropertyType (represented by a purple square icon) Attributes (represented by a yellow square icon): <ul style="list-style-type: none"> gml:OwnershipAttributeGroup (represented by an orange square icon) gml:AssociationAttributeGroup (represented by an orange square icon) dateBasis (represented by a blue rounded rectangle icon) gml:TimeCalendar (represented by a green square icon) Associations (represented by a purple rounded rectangle icon): <ul style="list-style-type: none"> gml:TimeCalendarPropertyType provides for associating a gml:TimeCalendar with an object. 																																																							
Type	gml:TimeCalendarPropertyType																																																							
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Element **gml:TimeOrdinalReferenceSystem**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>In some applications of geographic information — such as geology and archaeology — relative position in time is known more precisely than absolute time or duration. The order of events in time can be well established, but the magnitude of the intervals between them cannot be accurately determined; in such cases, the use of an ordinal temporal reference system is appropriate. An ordinal temporal reference system is composed of a sequence of named coterminous eras, which may in turn be composed of sequences of member eras at a finer scale, giving the whole a hierarchical structure of eras of varying resolution. An ordinal temporal reference system whose component eras are not further subdivided is effectively a temporal topological complex constrained to be a linear graph. An ordinal temporal reference system some or all of whose component eras are subdivided is effectively a temporal topological complex with the constraint that parallel branches may only be constructed in pairs where one is a single temporal ordinal era and the other is a sequence of temporal ordinal eras that are called "members" of the "group". This constraint means that within a single temporal ordinal reference system, the relative position of all temporal ordinal eras is unambiguous. The positions of the beginning and end of a given era may calibrate the relative time scale.</p> <p>gml:TimeOrdinalReferenceSystem adds one or more gml:component properties to the generic temporal reference system model.</p>

Diagram



Type	<code>gml:TimeOrdinalReferenceSystemType</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:TimeReferenceSystem</code>

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

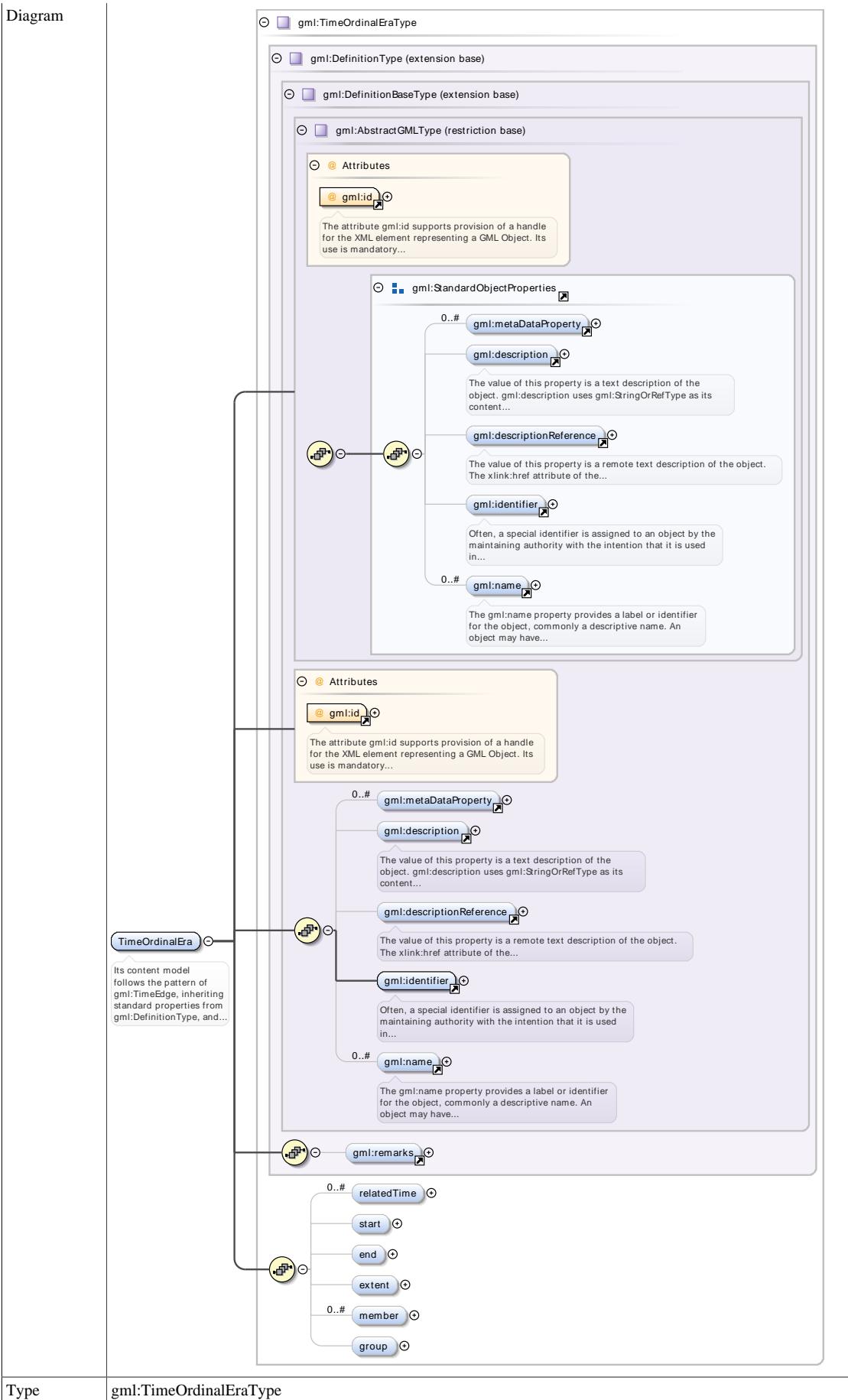
Element **gml:TimeOrdinalReferenceSystemType** / **gml:component**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:TimeOrdinalEraPropertyType. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes (represented by a yellow box): <ul style="list-style-type: none"> gml:OwnershipAttributeGroup (represented by a yellow box): A note states: "Encoding a GML property inline vs. by- reference shall not imply anything about the 'ownership' of the contained or..." gml:AssociationAttributeGroup (represented by a yellow box): A note states: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group..." gml:TimeOrdinalEra (represented by a yellow box): <ul style="list-style-type: none"> A note states: "Its content model follows the pattern of gml:TimeEdge, inheriting standard properties from gml:DefinitionType, and..." gml:TimeOrdinalEraPropertyType (represented by a purple box): <ul style="list-style-type: none"> A note states: "gml:TimeOrdinalEraPropertyType provides for associating a gml:TimeOrdinalEra with an object." 																																																							
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Element **gml:TimeOrdinalEra**

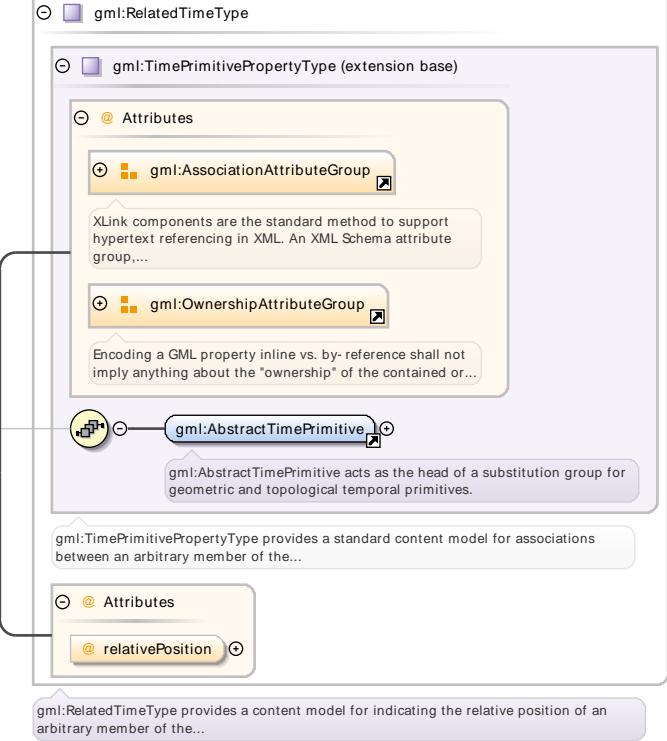
Namespace	http://www.opengis.net/gml/3.2
Annotations	Its content model follows the pattern of gml:TimeEdge, inheriting standard properties from gml:DefinitionType, and adding gml:start, gml:end and gml:extent properties, a set of gml:member properties which indicate ordered gml:TimeOrdinalEra elements, and a gml:group property which points to the parent era. The recursive inclusion of gml:TimeOrdinalEra elements allow the construction of an arbitrary depth hierarchical ordinal reference schema, such that an ordinal era at a given level of the hierarchy includes a sequence of shorter, coterminous ordinal eras.

Diagram



Properties	content: complex			
Attributes	QName	Type	Use	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Element **gml:TimeOrdinalEraType** / **gml:relatedTime**

Namespace	http://www.opengis.net/gml/3.2																																																																
Diagram																																																																	
Type	gml:RelatedTimeType																																																																
Properties	<p>content: complex</p> <p>minOccurs: 0</p> <p>maxOccurs: unbounded</p>																																																																
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>relativePosition</td> <td>restriction of string</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>					QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	relativePosition	restriction of string			optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:type	xlink:typeType	simple		optional																																																													

Element **gml:TimeOrdinalEraType** / **gml:start**

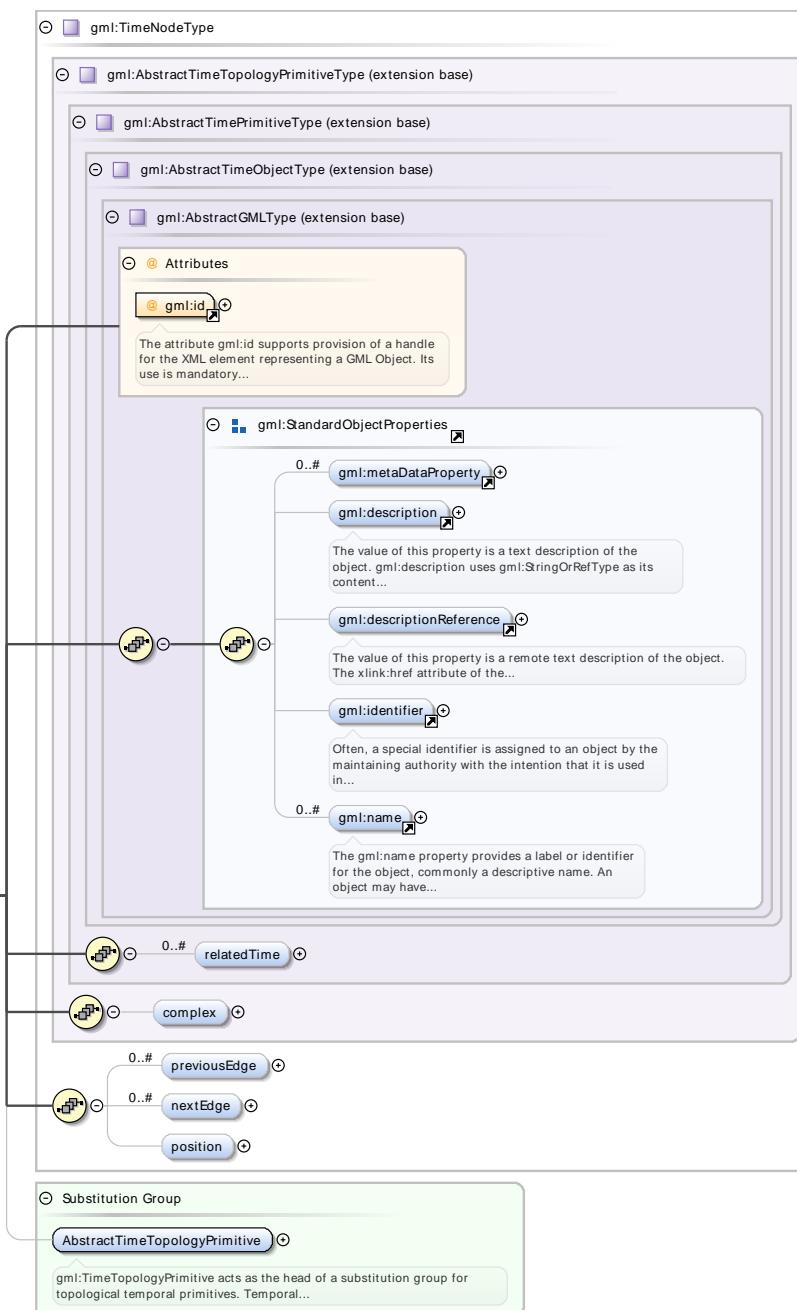
Namespace	http://www.opengis.net/gml/3.2				
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Diagram																																																								
Type	gml:TimeNodePropertyType																																																							
Properties	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	complex	minOccurs:	0																																																			
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Element gml:TimeNode

Namespace	http://www.opengis.net/gml/3.2
Annotations	A time node is a zero-dimensional topological primitive that represents an identifiable node in time (it is equivalent to a point in space). A node may act as the termination or initiation of any number of time edges. A time node may be realised as a geometry, its position, whose value is a time instant.

Diagram



Type	<code>gml:TimeNodeType</code>									
Properties	content: <code>complex</code>									
Substitution Group	<ul style="list-style-type: none"> <code>gml:AbstractTimeTopologyPrimitive</code> 									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
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Element `gml:AbstractTimeTopologyPrimitiveType` / `gml:complex`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram shows the structure of the <code>gml:ReferenceType</code> element. It is a complex type with two attribute groups: <code>gml:OwnershipAttributeGroup</code> and <code>gml:AssociationAttributeGroup</code>. The <code>gml:AssociationAttributeGroup</code> is described as using XLink components for hypertext referencing. A note states that encoding a GML property inline vs. by-reference does not imply ownership. The <code>gml:ReferenceType</code> is intended for use in application schemas directly if a property element uses it.</p>																																																							
Type	<code>gml:ReferenceType</code>																																																							
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0																																																			
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Element `gml:TimeNodeType` / `gml:previousEdge`

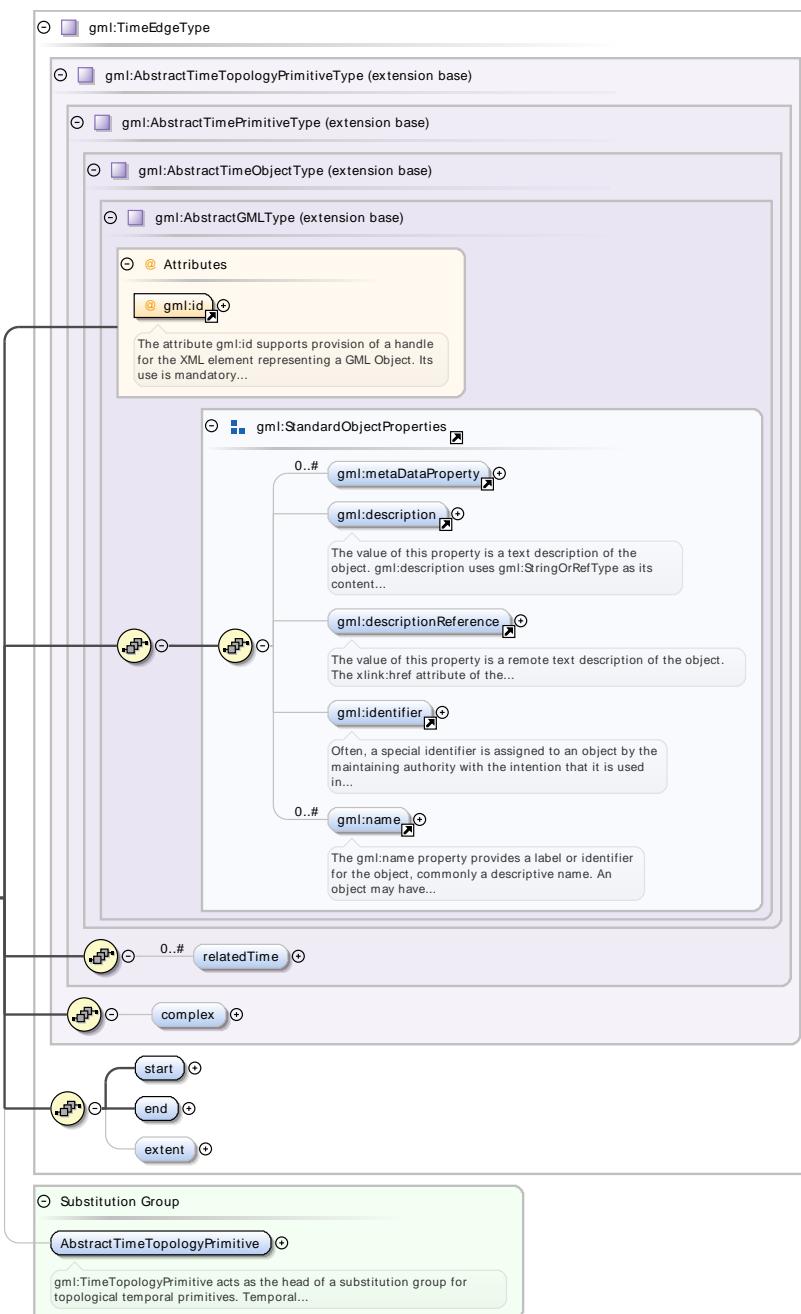
Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram shows the structure of the <code>gml:TimeEdgePropertyType</code> element. It is a complex type with two attribute groups: <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code>. The <code>gml:AssociationAttributeGroup</code> is described as using XLink components for hypertext referencing. A note states that encoding a GML property inline vs. by-reference does not imply ownership. The <code>gml:TimeEdge</code> element is described as a one-dimensional topological primitive starting and ending at a node.</p>				
Type	<code>gml:TimeEdgePropertyType</code>				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

	maxOccurs:	unbounded				
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:TimeEdge**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A time edge is a one-dimensional topological primitive. It is an open interval that starts and ends at a node. The edge may be realised as a geometry whose value is a time period.

Diagram



Type	<code>gml:TimeEdgeType</code>								
Properties	content: <code>complex</code>								
Substitution Group Affiliation	<ul style="list-style-type: none"> <code>gml:AbstractTimeTopologyPrimitive</code> 								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required	<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	
QName	Type	Use							
<code>gml:id</code>	ID	required							

Element `gml:TimeEdgeType` / `gml:start`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram illustrates the structure of the <code>gml:TimeNodePropertyType</code> element. It features a central box for the element itself, which contains sections for attributes and associations. The <code>start</code> attribute is shown with a connection to the <code>gml:TimeNode</code> association. The <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code> are also detailed. A note explains the use of XLink components for hypertext referencing. The <code>gml:TimeNode</code> association is described as a zero-dimensional topological primitive representing an identifiable node in time. A general note at the bottom states that this type provides for associating a <code>gml:TimeNode</code> with an object.</p>																																																							
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Element `gml:TimeEdgeType` / `gml:end`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the structure of the <code>gml:TimeNodePropertyType</code> element, which is shared with the <code>gml:TimeEdgeType</code> element. It features a central box for the element itself, which contains sections for attributes and associations. The <code>end</code> attribute is shown with a connection to the <code>gml:TimeNode</code> association. The <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code> are also detailed. A note explains the use of XLink components for hypertext referencing. The <code>gml:TimeNode</code> association is described as a zero-dimensional topological primitive representing an identifiable node in time. A general note at the bottom states that this type provides for associating a <code>gml:TimeNode</code> with an object.</p>
Type	<code>gml:TimeNodePropertyType</code>
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:TimeEdgeType** / **gml:extent**

Namespace	http://www.opengis.net/gml/3.2																																																																		
Diagram	<p>The diagram illustrates the structure of the gml:TimePeriodPropertyType. It shows a central box for attributes containing the gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. Below this is the gml:TimePeriod primitive, which is described as a one-dimensional geometric primitive representing an identifiable extent in time. A note states that gml:TimePeriodPropertyType provides for associating a gml:TimePeriod with an object. A callout points to the extent attribute, which is associated with the gml:TimePeriod.</p>																																																																		
Type	gml:TimePeriodPropertyType																																																																		
Properties	<p>content: complex</p> <p>minOccurs: 0</p>																																																																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td><td></td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use		gml:remoteSchema	anyURI			optional		nilReason	gml:NilReasonType			optional		owns	boolean		false	optional		xlink:actuate	xlink:actuateType			optional		xlink:arcrole	xlink:arcroleType			optional		xlink:href	xlink:hrefType			optional		xlink:role	xlink:roleType			optional		xlink:show	xlink:showType			optional		xlink:title	xlink:titleAttrType			optional		xlink:type	xlink:typeType	simple		optional	
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xlink:title	xlink:titleAttrType			optional																																																															
xlink:type	xlink:typeType	simple		optional																																																															

Element **gml:TimeNodeType** / **gml:nextEdge**

Namespace	http://www.opengis.net/gml/3.2
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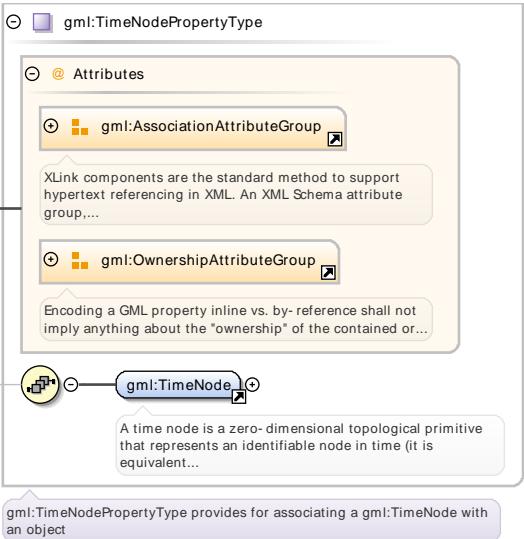
Diagram	<p>Diagram illustrating the structure of gml:TimeEdgePropertyType. It shows the type definition with attributes (AssociationAttributeGroup and OwnershipAttributeGroup) and a reference to gml:TimeEdge. The gml:TimeEdge node is highlighted with a yellow circle and has a 'nextEdge' association.</p>																																																							
Type	gml:TimeEdgePropertyType																																																							
Properties	<table> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> <tr> <td>maxOccurs:</td><td>unbounded</td></tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded																																																	
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QName	Type	Fixed	Default	Use																																																				
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element gml:TimeNodeType / gml:position

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>Diagram illustrating the structure of gml:TimeInstantPropertyType. It shows the type definition with attributes (AssociationAttributeGroup and OwnershipAttributeGroup) and a reference to gml:TimeInstant. The gml:TimeInstant node is highlighted with a yellow circle and has a 'position' association.</p>
Type	gml:TimeInstantPropertyType

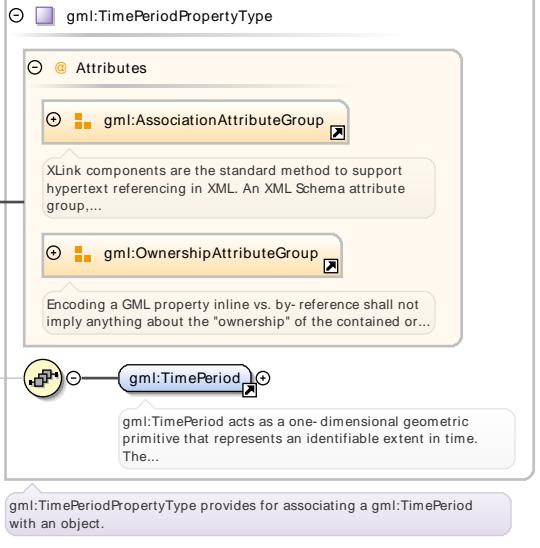
Properties	content:	complex				
	minOccurs:	0				
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:TimeOrdinalEraType** / **gml:end**

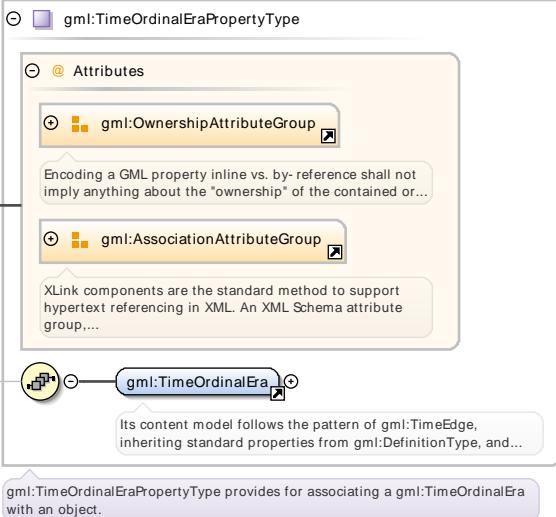
Namespace	http://www.opengis.net/gml/3.2																																																																							
Diagram	 <p>The diagram illustrates the structure of the gml:TimeNodePropertyType. It shows a main box for gml:TimeNodePropertyType containing an Attributes section. Within this section, there are two groups: gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. A callout box provides a detailed description of these groups. Another callout box explains the difference between inline and reference ownership. A separate box describes the gml:TimeNode element. A link from the end attribute in the main box points to the gml:TimeNode box.</p>																																																																							
Type	gml:TimeNodePropertyType																																																																							
Properties	<p>content: complex</p> <p>minOccurs: 0</p>																																																																							
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xlink:type	xlink:typeType	simple		optional																																																																				

Element **gml:TimeOrdinalEraType** / **gml:extent**

Namespace	http://www.opengis.net/gml/3.2					
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Diagram	 <p>Diagram illustrating the structure of gml:TimePeriodPropertyType. It shows the type definition with attributes (AssociationAttributeGroup and OwnershipAttributeGroup) and a reference to gml:TimePeriod.</p>																																																																		
Type	gml:TimePeriodPropertyType																																																																		
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	complex	minOccurs:	0																																																														
content:	complex																																																																		
minOccurs:	0																																																																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td><td></td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use		gml:remoteSchema	anyURI			optional		nilReason	gml:NilReasonType			optional		owns	boolean		false	optional		xlink:actuate	xlink:actuateType			optional		xlink:arcrole	xlink:arcroleType			optional		xlink:href	xlink:hrefType			optional		xlink:role	xlink:roleType			optional		xlink:show	xlink:showType			optional		xlink:title	xlink:titleAttrType			optional		xlink:type	xlink:typeType	simple		optional	
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xlink:type	xlink:typeType	simple		optional																																																															

Element gml:TimeOrdinalEraType / gml:member

Namespace	http://www.opengis.net/gml/3.2		
Diagram	 <p>Diagram illustrating the structure of gml:TimeOrdinalEraPropertyType. It shows the type definition with attributes (AssociationAttributeGroup and OwnershipAttributeGroup) and a reference to gml:TimeOrdinalEra.</p>		
Type	gml:TimeOrdinalEraPropertyType		
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> </table>	content:	complex
content:	complex		

	minOccurs:	0				
	maxOccurs:	unbounded				
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:TimeOrdinalEraType** / **gml:group**

Namespace	http://www.opengis.net/gml/3.2																																																																							
Diagram																																																																								
Type	gml:ReferenceType																																																																							
Properties	<p>content: complex</p> <p>minOccurs: 0</p>																																																																							
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Fixed</td> <td>Default</td> <td>Use</td> <td></td> </tr> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> <td></td> </tr> </table>						QName	Type	Fixed	Default	Use		gml:remoteSchema	anyURI			optional		nilReason	gml:NilReasonType			optional		owns	boolean		false	optional		xlink:actuate	xlink:actuateType			optional		xlink:arcrole	xlink:arcroleType			optional		xlink:href	xlink:hrefType			optional		xlink:role	xlink:roleType			optional		xlink:show	xlink:showType			optional		xlink:title	xlink:titleAttrType			optional		xlink:type	xlink:typeType	simple		optional	
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xlink:type	xlink:typeType	simple		optional																																																																				

Element **gml:AbstractTimeTopologyPrimitive**

Namespace	http://www.opengis.net/gml/3.2					
Annotations	<p>gml:TimeTopologyPrimitive acts as the head of a substitution group for topological temporal primitives. Temporal topology primitives shall imply the ordering information between features or feature properties. The temporal connection of features can be examined if they have temporal topology primitives as values of their properties. Usually, an instantaneous feature associates with a time node, and a static feature associates with a time edge. A feature with both modes associates with the temporal topology</p>					

primitive: a supertype of time nodes and time edges. A topological primitive is always connected to one or more other topological primitives, and is, therefore, always a member of a topological complex. In a GML instance, this will often be indicated by the primitives being described by elements that are descendants of an element describing a complex. However, in order to support the case where a temporal topological primitive is described in another context, the optional complex property is provided, which carries a reference to the parent temporal topological complex.

Diagram									
Type	gml:AbstractTimeTopologyPrimitiveType								
Properties	<p>content: complex</p> <p>abstract: true</p>								
Substitution Group	<ul style="list-style-type: none"> gml:TimeNode gml:TimeEdge 								
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:AbstractTimePrimitive 								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>ID</td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Use		gml:id	ID	required	
QName	Type	Use							
gml:id	ID	required							

QName	Type	Use
		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Element `gml:TimeTopologyComplex`

Namespace	http://www.opengis.net/gml/3.2										
Annotations	<p>A temporal topology complex shall be the connected acyclic directed graph composed of temporal topological primitives, i.e. time nodes and time edges. Because a time edge may not exist without two time nodes on its boundaries, static features have time edges from a temporal topology complex as the values of their temporal properties, regardless of explicit declarations. A temporal topology complex expresses a linear or a non-linear graph. A temporal linear graph, composed of a sequence of time edges, provides a lineage described only by "substitution" of feature instances or feature element values. A time node as the start or the end of the graph connects with at least one time edge. A time node other than the start and the end shall connect to at least two time edges: one of starting from the node, and another ending at the node. A temporal topological complex is a set of connected temporal topological primitives. The member primitives are indicated, either by reference or by value, using the primitive property.</p>										
Diagram	<p>The diagram shows the UML class structure for <code>gml:TimeTopologyComplexType</code>. It is an extension of <code>gml:AbstractTimeComplexType</code>, which is itself an extension of <code>gml:AbstractTimeObjectType</code> and <code>gml:AbstractGMLType</code>. The <code>gml:id</code> attribute is marked as mandatory. The <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, and <code>gml:name</code> attributes are also defined. A substitution group for <code>gml:AbstractTimeComplex</code> is indicated. The <code>primitive</code> property is marked with multiplicity <code>1..#</code>.</p>										
Type	<code>gml:TimeTopologyComplexType</code>										
Properties	content: complex										
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractTimeComplex</code> 										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td></td> <td>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> </tr> </tbody> </table>		QName	Type	Use	<code>gml:id</code>	ID	required			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
QName	Type	Use									
<code>gml:id</code>	ID	required									
		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Element **gml:TimeTopologyComplexType** / **gml:primitive**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:TimeTopologyComplexType and gml:primitive elements. It shows that gml:primitive is associated with gml:TimeTopologyPrimitivePropertyType, which in turn contains gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. gml:TimeTopologyPrimitivePropertyType also provides for associating with gml:AbstractTimeTopologyPrimitive. A note states that gml:TimeTopologyPrimitive acts as the head of a substitution group for topological temporal primitives.</p>																																																							
Type	gml:TimeTopologyPrimitivePropertyType																																																							
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	maxOccurs:	unbounded																																																			
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Element **gml:anchorPoint**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the structure of the gml:anchorPoint element. It shows that gml:anchorPoint is associated with gml:CodeType, which contains a string attribute. gml:CodeType is described as a generalized type for terms, keywords, or names. It adds a codeSpace attribute. A note states that gml:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term. Below this, a Substitution Group is shown, containing anchorDefinition, with a note that gml:anchorDefinition is a description, possibly including coordinates, of the definition used to anchor the datum to...</p>

Type	gml:CodeType		
Properties	content: complex		
Substitution Group Affiliation	• gml:anchorDefinition		
Attributes	QName	Type	Use
	codeSpace	anyURI	optional

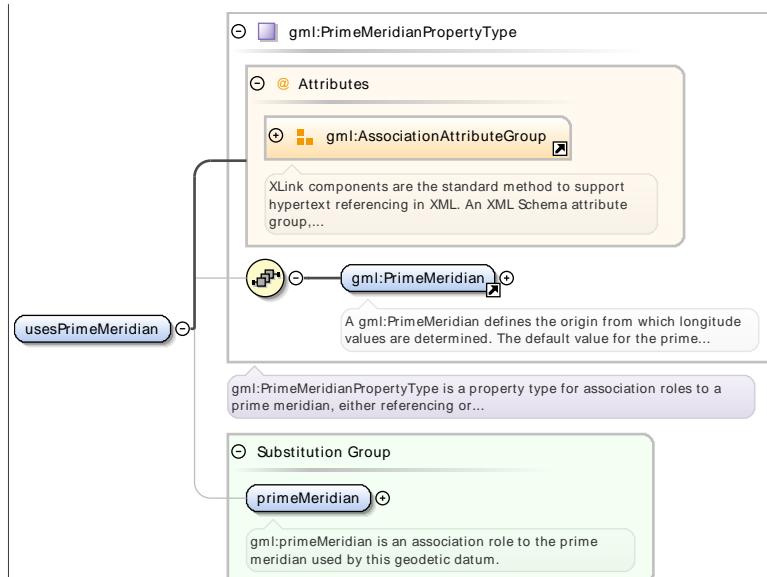
Element gml:datumRef

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	gml:Datum.PropertyType		
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	optional
	nilReason	gml:NilReasonType	optional
	xlink:actuate	xlink:actuateType	optional
	xlink:arcrole	xlink:arcroleType	optional
	xlink:href	xlink:hrefType	optional
	xlink:role	xlink:roleType	optional
	xlink:show	xlink:showType	optional
	xlink:title	xlink:titleAttrType	optional
	xlink:type	xlink:typeType	simple
			optional

Element gml:usesPrimeMeridian

Namespace	http://www.opengis.net/gml/3.2		
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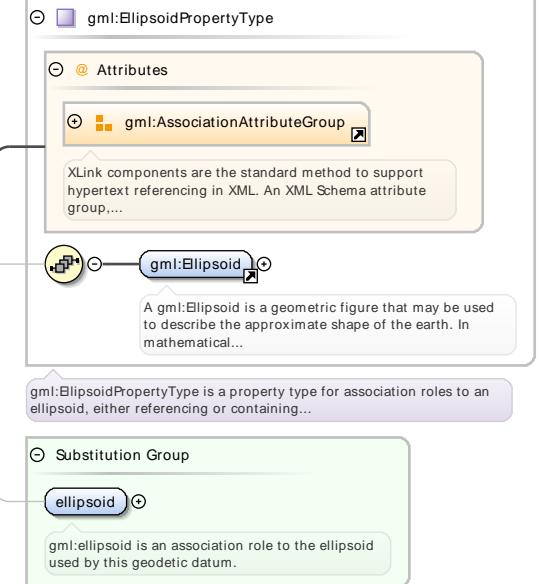
Diagram



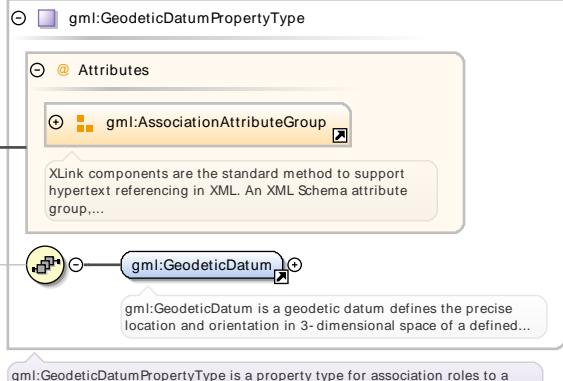
Type	gml:PrimeMeridianPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:primeMeridian 																																								
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xlink:type	xlink:typeType	simple	optional																																						

Element gml:usesEllipsoid

Namespace	http://www.opengis.net/gml/3.2
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Diagram	 <p>The diagram illustrates the structure of the <code>gml:EllipsoidPropertyType</code>. It is a property type for association roles to an ellipsoid. The diagram shows the following components:</p> <ul style="list-style-type: none"> gml:EllipsoidPropertyType: The main type, which is a property type for association roles to an ellipsoid. Attributes: A section showing the attributes of the type. gml:AssociationAttributeGroup: A specific attribute group used for associations. XLink components: A note explaining that XLink components are used for hypertext referencing in XML. gml:Ellipsoid: A specific association role to an ellipsoid. Substitution Group: A section showing the substitution group for this type. ellipsoid: A specific association role to an ellipsoid. gml:ellipsoid: A note explaining that <code>gml:ellipsoid</code> is an association role to the ellipsoid used by this geodetic datum. 																																								
Type	<code>gml:EllipsoidPropertyType</code>																																								
Properties	content: complex																																								
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:ellipsoid</code> 																																								
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Element `gml:geodeticDatumRef`

Namespace	http://www.opengis.net/gml/3.2
Diagram	 <p>The diagram illustrates the structure of the <code>gml:GeodeticDatumPropertyType</code>. It is a property type for association roles to a geodetic datum. The diagram shows the following components:</p> <ul style="list-style-type: none"> gml:GeodeticDatumPropertyType: The main type, which is a property type for association roles to a geodetic datum. Attributes: A section showing the attributes of the type. gml:AssociationAttributeGroup: A specific attribute group used for associations. XLink components: A note explaining that XLink components are used for hypertext referencing in XML. gml:GeodeticDatum: A specific association role to a geodetic datum. gml:GeodeticDatumPropertyType: A note explaining that <code>gml:GeodeticDatumPropertyType</code> is a property type for association roles to a geodetic datum.
Type	<code>gml:GeodeticDatumPropertyType</code>
Properties	content: complex

Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	gml:NilReasonType		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Element **gml:ellipsoidRef**

Namespace	http://www.opengis.net/gml/3.2																																																		
Diagram	<p>The diagram illustrates the structure of the gml:EllipsoidPropertyType. It shows an association to the gml:AssociationAttributeGroup and another to the gml:Ellipsoid. A callout box provides a detailed description of the gml:Ellipsoid association, stating: "A gml:Ellipsoid is a geometric figure that may be used to describe the approximate shape of the earth. In mathematical..."</p>																																																		
Type	gml:EllipsoidPropertyType																																																		
Properties	content: complex																																																		
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Element **gml:primeMeridianRef**

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																									
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Properties	content: complex																																								
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xlink:type	xlink:typeType	simple	optional																																						

Element gml:engineeringDatumRef

Namespace	http://www.opengis.net/gml/3.2																																
Diagram																																	
Type	gml:EngineeringDatumPropertyType																																
Properties	content: complex																																
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QName	Type	Fixed	Use	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element `gml:imageDatumRef`

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram																																									
Type	gml:ImageDatumPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:type	xlink:typeType	simple	optional																																						

Element `gml:verticalDatumRef`

Namespace	http://www.opengis.net/gml/3.2								
Diagram									
Type	gml:VerticalDatumPropertyType								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional
QName	Type	Fixed	Use						
gml:remoteSchema	anyURI		optional						

QName	Type	Fixed	Use	
nilReason	gml:NilReasonType		optional	
xlink:actuate	xlink:actuateType		optional	
xlink:arcrole	xlink:arcroleType		optional	
xlink:href	xlink:hrefType		optional	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element **gml:temporalDatumRef**

Namespace	http://www.opengis.net/gml/3.2																																																		
Diagram																																																			
Type	gml:TemporalDatumPropertyType																																																		
Properties	content: complex																																																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td><td></td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Use		gml:remoteSchema	anyURI		optional		nilReason	gml:NilReasonType		optional		xlink:actuate	xlink:actuateType		optional		xlink:arcrole	xlink:arcroleType		optional		xlink:href	xlink:hrefType		optional		xlink:role	xlink:roleType		optional		xlink:show	xlink:showType		optional		xlink:title	xlink:titleAttrType		optional		xlink:type	xlink:typeType	simple	optional	
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xlink:type	xlink:typeType	simple	optional																																																

Element **gml:coordinateOperationRef**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>gml:CoordinateOperationPropertyType</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....</p> <p>gml:AbstractCoordinateOperation</p> <p>gml:AbstractCoordinateOperation is a mathematical operation on coordinates that transforms or converts coordinates to...</p> <p>gml:CoordinateOperationPropertyType is a property type for association roles to a coordinate operation, either...</p>																																								
Type	gml:CoordinateOperationPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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Element gml:singleOperationRef

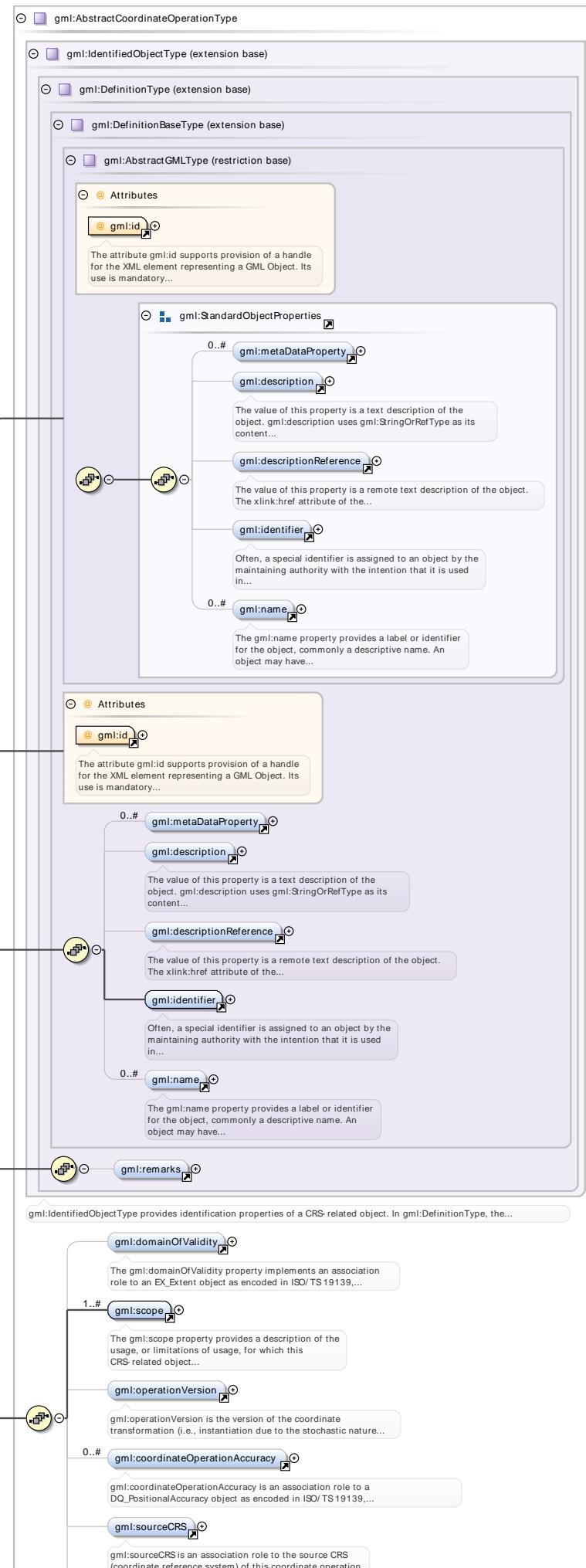
Namespace	http://www.opengis.net/gml/3.2																																
Diagram	<p>gml:SingleOperationPropertyType</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....</p> <p>gml:AbstractSingleOperation</p> <p>gml:AbstractSingleOperation is a single (not concatenated) coordinate operation.</p> <p>gml:SingleOperationPropertyType is a property type for association roles to a single operation, either referencing or...</p>																																
Type	gml:SingleOperationPropertyType																																
Properties	content: complex																																
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional
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xlink:role	xlink:roleType		optional																														
xlink:show	xlink:showType		optional																														

QName	Type	Fixed	Use	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element **gml:AbstractOperation**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	gml:AbstractCoordinateOperationType		
Properties	content: complex abstract: true		
Substitution Group	• gml:AbstractGeneralConversion • gml:Conversion • gml:AbstractGeneralTransformation • gml:Transformation		
Substitution Group Affiliation	• gml:AbstractSingleOperation		
Attributes	QName gml:id	Type ID	Use required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element gml:operationRef

Namespace	http://www.opengis.net/gml/3.2			
Diagram	<p>The diagram illustrates the structure of the gml:operationRef element. It is a reference (indicated by a dashed line with an arrowhead) to the gml:AbstractOperation class. This reference is mediated by the gml:AssociationAttributeGroup class, which is part of the gml:OperationPropertyType class. The gml:AssociationAttributeGroup class contains attributes for XLink components, such as xlink:actuate and xlink:href, which support hypertext referencing in XML.</p>			
Type	gml:OperationPropertyType			
Properties	content: complex			
Attributes	QName gml:remoteSchema nilReason xlink:actuate xlink:arcrole xlink:href xlink:role xlink:show xlink:title xlink:type	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed optional optional optional optional optional optional optional optional optional optional	Use optional optional optional optional optional optional optional optional optional optional

Element gml:generalConversionRef

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>Diagram illustrating the structure of gml:GeneralConversionPropertyType. It shows associations with gml:GeneralConversionPropertyType (self-loop), gml:AssociationAttributeGroup (highlighted in orange), and gml:AbstractGeneralConversion (highlighted in yellow). A callout box for gml:AssociationAttributeGroup states: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....'. A callout box for gml:AbstractGeneralConversion states: 'gml:AbstractGeneralConversion is an abstract operation on coordinates that does not include any change of datum. The...'. A callout box for gml:GeneralConversionPropertyType states: 'gml:GeneralConversionPropertyType is a property type for association roles to a general conversion, either referencing...'. A button labeled generalConversionRef is also present.</p>																																								
Type	gml:GeneralConversionPropertyType																																								
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:generalTransformationRef**

Namespace	http://www.opengis.net/gml/3.2																																
Diagram	<p>Diagram illustrating the structure of gml:GeneralTransformationPropertyType. It shows associations with gml:GeneralTransformationPropertyType (self-loop), gml:AssociationAttributeGroup (highlighted in orange), and gml:AbstractGeneralTransformation (highlighted in yellow). A callout box for gml:AssociationAttributeGroup states: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....'. A callout box for gml:AbstractGeneralTransformation states: 'gml:AbstractGeneralTransformation is an abstract operation on coordinates that usually includes a change of Datum. The...'. A callout box for gml:GeneralTransformationPropertyType states: 'gml:GeneralTransformationPropertyType is a property type for association roles to a general transformation, either referencing...'. A button labeled generalTransformationRef is also present.</p>																																
Type	gml:GeneralTransformationPropertyType																																
Properties	content: complex																																
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional
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QName	Type	Fixed	Use
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element `gml:usesSingleOperation`

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>The diagram illustrates the inheritance structure of the <code>gml:usesSingleOperation</code> element. It starts with the <code>gml:CoordinateOperationPropertyType</code> base type, which contains an <code>gml:AssociationAttributeGroup</code> (highlighted in orange). This group is described as supporting hypertext referencing in XML. Below it is the <code>gml:AbstractCoordinateOperation</code> type, which is described as a mathematical operation on coordinates. A <code>usesSingleOperation</code> attribute is shown pointing to this type. Finally, the <code>gml:CoordinateOperationPropertyType</code> is part of a Substitution Group that includes the <code>coordOperation</code> role, described as an association role to a coordinate operation.</p>																																								
Type	<code>gml:CoordinateOperationPropertyType</code>																																								
Properties	content: complex																																								
Substitution Group Affiliation	• <code>gml:coordOperation</code>																																								
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QName	Type	Fixed	Use																																						
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<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional																																						
<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional																																						

Element `gml:concatenatedOperationRef`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the inheritance structure of the <code>gml:concatenatedOperationRef</code> element. It starts with the <code>gml:ConcatenatedOperationPropertyType</code> base type, which contains an <code>gml:AssociationAttributeGroup</code> (highlighted in orange). This group is described as supporting hypertext referencing in XML. Below it is the <code>gml:ConcatenatedOperation</code> type, which is described as a concatenated operation. A <code>concatenatedOperationRef</code> attribute is shown pointing to this type. Finally, the <code>gml:ConcatenatedOperationPropertyType</code> is described as a property type for association roles to a concatenated operation.</p>

Type	gml:ConcatenatedOperationPropertyType			
Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:usesOperation

Namespace	http://www.opengis.net/gml/3.2																																											
Diagram	<p>The diagram illustrates the structure of the gml:CoordinateOperationPropertyType. It starts with a main box for gml:CoordinateOperationPropertyType, which contains an 'Attributes' section (gml:AssociationAttributeGroup) and a 'Substitution Group' section (coordOperation). The 'Attributes' section is described as an XML Schema attribute group for XLink components. The 'Substitution Group' section is described as an association role to a coordinate operation. A 'usesOperation' association is shown pointing to the gml:AbstractCoordinateOperation element within the main box.</p>																																											
Type	gml:CoordinateOperationPropertyType																																											
Properties	content: complex																																											
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:coordOperation 																																											
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Fixed</td> <td>Use</td> </tr> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </table>				QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:type	xlink:typeType	simple	optional																																									

Element gml:passThroughOperationRef

Namespace	http://www.opengis.net/gml/3.2
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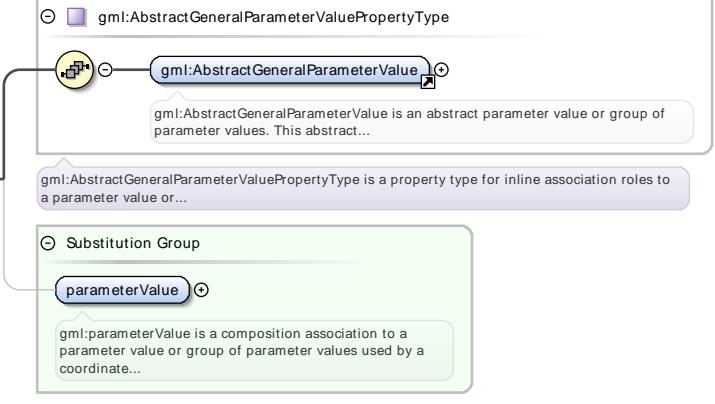
Diagram																																									
Type	gml:PassThroughOperationPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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Element gml:usesMethod

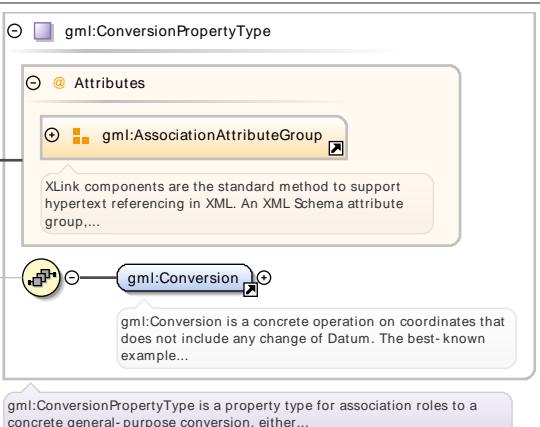
Namespace	http://www.opengis.net/gml/3.2								
Diagram									
Type	gml:OperationMethodPropertyType								
Properties	content: complex								
Substitution Group Affiliation	• gml:method								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional
QName	Type	Fixed	Use						
gml:remoteSchema	anyURI		optional						

QName	Type	Fixed	Use
nilReason	gml:NilReasonType		optional
xlink:actuate	xlink:actuateType		optional
xlink:arcrole	xlink:arcroleType		optional
xlink:href	xlink:hrefType		optional
xlink:role	xlink:roleType		optional
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element **gml:usesValue**

Namespace	http://www.opengis.net/gml/3.2
Diagram	 <p>gml:AbstractGeneralParameterValuePropertyType</p> <p>usesValue</p> <p>gml:AbstractGeneralParameterValue</p> <p><i>gml:AbstractGeneralParameterValue is an abstract parameter value or group of parameter values. This abstract...</i></p> <p>Substitution Group</p> <p>parameterValue</p> <p><i>gml:parameterValue is a composition association to a parameter value or group of parameter values used by a coordinate...</i></p>
Type	gml:AbstractGeneralParameterValuePropertyType
Properties	content: complex
Substitution Group	• gml:parameterValue
Affiliation	

Element **gml:conversionRef**

Namespace	http://www.opengis.net/gml/3.2																
Diagram	 <p>gml:ConversionPropertyType</p> <p>conversionRef</p> <p>gml:Conversion</p> <p><i>gml:Conversion is a concrete operation on coordinates that does not include any change of Datum. The best-known example...</i></p> <p><i>gml:ConversionPropertyType is a property type for association roles to a concrete general-purpose conversion, either...</i></p>																
Type	gml:ConversionPropertyType																
Properties	content: complex																
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional
QName	Type	Fixed	Use														
gml:remoteSchema	anyURI		optional														
nilReason	gml:NilReasonType		optional														
xlink:actuate	xlink:actuateType		optional														

QName	Type	Fixed	Use	
xlink:arcrole	xlink:arcroleType		optional	
xlink:href	xlink:hrefType		optional	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element **gml:transformationRef**

Namespace	http://www.opengis.net/gml/3.2																																																		
Diagram	<p>The diagram illustrates the structure of the gml:transformationRef element. It is a complex type derived from gml:TransformationPropertyType. The gml:transformationRef element is associated with the gml:AssociationAttributeGroup, which contains the xlink:href attribute. This attribute is used for hypertext referencing in XML. The gml:Transformation element is a concrete object element derived from gml:GeneralTransformation. The gml:TransformationPropertyType is a property type for association roles to a transformation, either referencing or...</p>																																																		
Type	gml:TransformationPropertyType																																																		
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xlink:type	xlink:typeType	simple	optional																																																

Element **gml:valueOfParameter**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>gml:OperationParameterPropertyType</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...</p> <p>gml:OperationParameter</p> <p>gml:OperationParameter is the definition of a parameter used by an operation method. Most parameter values are numeric...</p> <p>Substitution Group</p> <p>operationParameter</p> <p>gml:operationParameter is an association role to the operation parameter of which this is a value.</p>																																								
Type	gml:OperationParameterPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:operationParameter 																																								
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xlink:type	xlink:typeType	simple	optional																																						

Element gml:includesValue

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>gml:AbstractGeneralParameterValuePropertyType</p> <p>gml:AbstractGeneralParameterValue</p> <p>gml:AbstractGeneralParameterValue is an abstract parameter value or group of parameter values. This abstract...</p> <p>gml:AbstractGeneralParameterValuePropertyType is a property type for inline association roles to a parameter value or...</p> <p>Substitution Group</p> <p>parameterValue</p> <p>gml:parameterValue is a composition association to a parameter value or group of parameter values used by a coordinate...</p>
Type	gml:AbstractGeneralParameterValuePropertyType
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:parameterValue

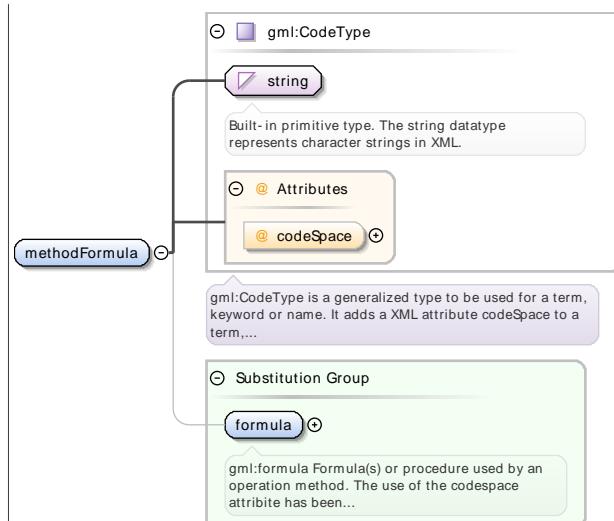
Element `gml:valuesOfGroup`

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>The diagram illustrates the structure of the <code>gml:valuesOfGroup</code> element. It is a complex type derived from <code>gml:OperationParameterGroupPropertyType</code>. The <code>gml:valuesOfGroup</code> element is associated with the <code>gml:group</code> element, which is defined as an association role to the operation parameter group. The diagram also shows the <code>gml:AssociationAttributeGroup</code> and the <code>gml:OperationParameterGroup</code> components, along with their respective descriptions and notes about XLink components and substitution groups.</p>																																								
Type	<code>gml:OperationParameterGroupPropertyType</code>																																								
Properties	content: complex																																								
Substitution Group Affiliation	• <code>gml:group</code>																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:actuate</code></td> <td><code>xlink:actuateType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td><code>xlink:arcroleType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:href</code></td> <td><code>xlink:hrefType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:role</code></td> <td><code>xlink:roleType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:show</code></td> <td><code>xlink:showType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:title</code></td> <td><code>xlink:titleAttrType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:type</code></td> <td><code>xlink:typeType</code></td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	anyURI		optional	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	<code>xlink:show</code>	<code>xlink:showType</code>		optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional
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<code>gml:remoteSchema</code>	anyURI		optional																																						
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<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional																																						

Element `gml:methodFormula`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	<code>gml:CodeType</code>
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Properties	content: complex
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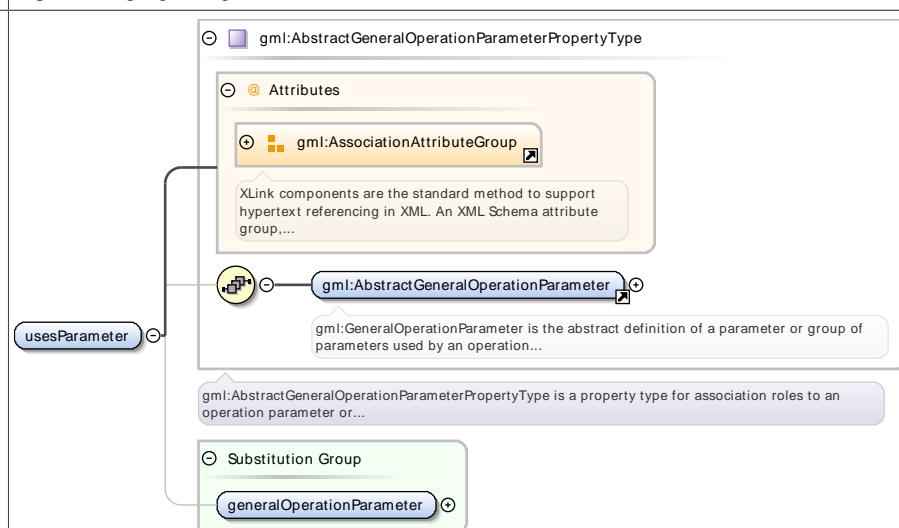
Substitution Group Affiliation	• <code>gml:formula</code>
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Attributes	QName	Type	Use
	<code>codeSpace</code>	anyURI	optional

Element `gml:usesParameter`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	<code>gml:AbstractGeneralOperationParameter.PropertyType</code>
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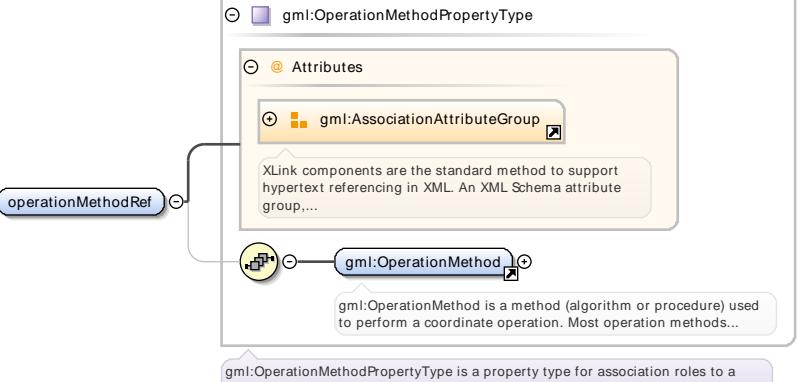
Properties	content: complex
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Substitution Group Affiliation	• <code>gml:generalOperationParameter</code>
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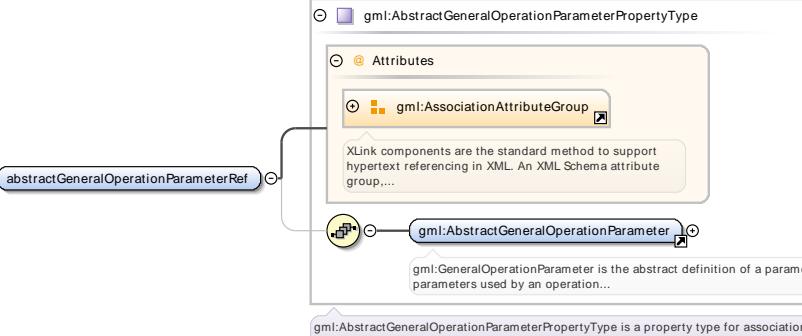
Attributes	QName	Type	Fixed	Use
	<code>gml:remoteSchema</code>	anyURI		optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional

QName	Type	Fixed	Use
xlink:role	xlink:roleType		optional
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element **gml:operationMethodRef**

Namespace	http://www.opengis.net/gml/3.2																																										
Diagram	 <p>The diagram illustrates the structure of the gml:OperationMethodPropertyType. It shows the Attributes section, which includes the gml:AssociationAttributeGroup. The operationMethodRef element is highlighted and connected to the gml:OperationMethod element. A tooltip for gml:OperationMethod states: "gml:OperationMethod is a method (algorithm or procedure) used to perform a coordinate operation. Most operation methods..." A note at the bottom of the diagram states: "gml:OperationMethodPropertyType is a property type for association roles to a concrete general-purpose operation..."</p>																																										
Type	gml:OperationMethodPropertyType																																										
Properties	content: complex																																										
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Element **gml:abstractGeneralOperationParameterRef**

Namespace	http://www.opengis.net/gml/3.2										
Diagram	 <p>The diagram illustrates the structure of the gml:AbstractGeneralOperationParameterPropertyType. It shows the Attributes section, which includes the gml:AssociationAttributeGroup. The abstractGeneralOperationParameterRef element is highlighted and connected to the gml:AbstractGeneralOperationParameter element. A tooltip for gml:AbstractGeneralOperationParameter states: "gml:GeneralOperationParameter is the abstract definition of a parameter or group of parameters used by an operation..." A note at the bottom of the diagram states: "gml:AbstractGeneralOperationParameterPropertyType is a property type for association roles to an operation parameter or..."</p>										
Type	gml:AbstractGeneralOperationParameterPropertyType										
Properties	content: complex										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional		
QName	Type	Fixed	Use								
gml:remoteSchema	anyURI		optional								

QName	Type	Fixed	Use
nilReason	gml:NilReasonType		optional
xlink:actuate	xlink:actuateType		optional
xlink:arcrole	xlink:arcroleType		optional
xlink:href	xlink:hrefType		optional
xlink:role	xlink:roleType		optional
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

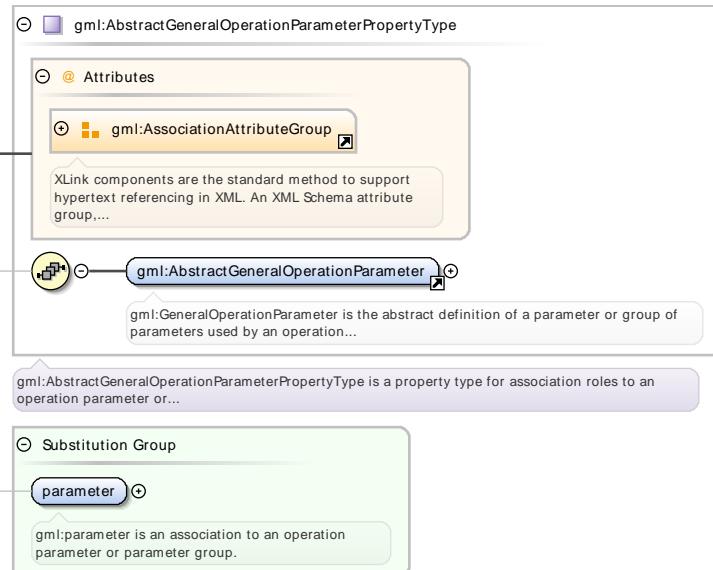
Element **gml:operationParameterRef**

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>The diagram illustrates the structure of gml:OperationParameterPropertyType. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: A group containing gml:AssociationAttributeGroup. gml:OperationParameter: A reference to an operationParameterRef element. <p>Annotations provide the following descriptions:</p> <ul style="list-style-type: none"> gml:OperationParameterPropertyType is a property type for association roles to an operation parameter, either... gml:OperationParameter is the definition of a parameter used by an operation method. Most parameter values are numeric,... XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group.... 																																								
Type	gml:OperationParameterPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:includesParameter**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type gml:AbstractGeneralOperationParameterPropertyType

Properties content: complex

Substitution Group
Affiliation

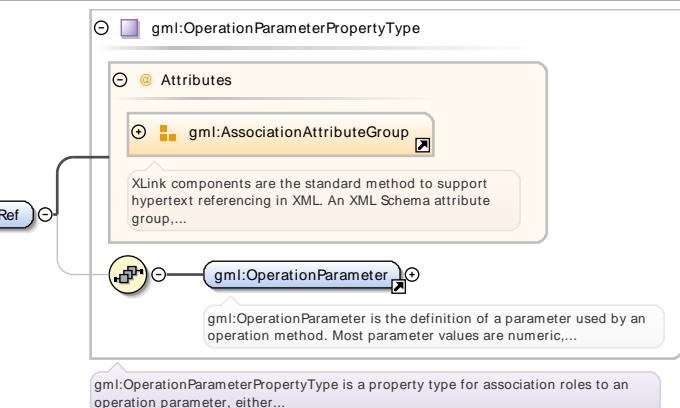
- gml:parameter

Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:operationParameterGroupRef

Namespace <http://www.opengis.net/gml/3.2>

Diagram



Type gml:OperationParameterPropertyType

Properties content: complex

Attributes

QName	Type	Fixed	Use
gml:remoteSchema	anyURI		optional

QName	Type	Fixed	Use
nilReason	gml:NilReasonType		optional
xlink:actuate	xlink:actuateType		optional
xlink:arcrole	xlink:arcroleType		optional
xlink:href	xlink:hrefType		optional
xlink:role	xlink:roleType		optional
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element **gml:referenceSystemRef**

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram																																									
Type	gml:CRSPROPERTYTYPE																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:type	xlink:typeType	simple	optional																																						

Element **gml:crsRef**

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																									
Type	gml:CRSPROPERTYTYPE																																								
Properties	content: complex																																								
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Element gml:coordinateSystemAxisRef

Namespace	http://www.opengis.net/gml/3.2																																				
Diagram																																					
Type	gml:COORDINATESYSTEMAXISPROPERTYTYPE																																				
Properties	content: complex																																				
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QName	Type	Fixed	Use	
xlink:type	xlink:typeType	simple	optional	

Element **gml:usesAxis**

Namespace	http://www.opengis.net/gml/3.2																																																		
Diagram	<p>The diagram illustrates the structure of the gml:CoordinateSystemAxisPropertyType. It shows the following components:</p> <ul style="list-style-type: none"> gml:CoordinateSystemAxisPropertyType: The main property type. Attributes: A group containing the gml:AssociationAttributeGroup. XLink components: A note explaining that XLink components are used for hypertext referencing. gml:CoordinateSystemAxis: A property type for association roles. gml:CoordinateSystemAxis description: A note stating that gml:CoordinateSystemAxis is a definition of a coordinate system axis. usesAxis: A specific association role. Substitution Group: A group containing the axis property. axis: An association role for coordinate system axes. gml:CoordinateSystemAxisPropertyType description: A note stating that gml:CoordinateSystemAxisPropertyType is a property type for association roles to a coordinate system axis. gml:axis: A note explaining that the gml:axis property is an association role (ordered sequence) to the coordinate system axes included in this... 																																																		
Type	gml:CoordinateSystemAxisPropertyType																																																		
Properties	content: complex																																																		
Substitution Group Affiliation	• gml:axis																																																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> <td></td> </tr> </tbody> </table>	QName	Type	Fixed	Use		gml:remoteSchema	anyURI		optional		nilReason	gml:NilReasonType		optional		xlink:actuate	xlink:actuateType		optional		xlink:arcrole	xlink:arcroleType		optional		xlink:href	xlink:hrefType		optional		xlink:role	xlink:roleType		optional		xlink:show	xlink:showType		optional		xlink:title	xlink:titleAttrType		optional		xlink:type	xlink:typeType	simple	optional	
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Element **gml:coordinateSystemRef**

Namespace	http://www.opengis.net/gml/3.2
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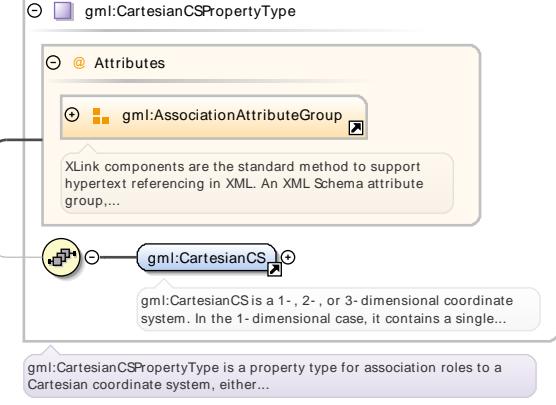
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Element gml:ellipsoidalCSRef

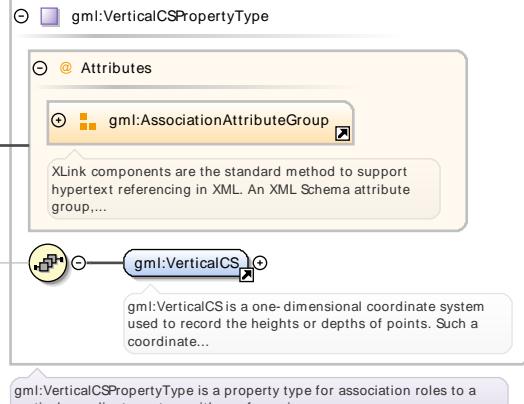
Namespace	http://www.opengis.net/gml/3.2																																
Diagram																																	
Type	gml:EllipsoidalCSPropertyType																																
Properties	content: complex																																
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional
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QName	Type	Fixed	Use
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element `gml:cartesianCSRef`

Namespace	http://www.opengis.net/gml/3.2																																										
Diagram	 <p>The diagram illustrates the structure of the <code>gml:CartesianCSPropertyType</code> element. It shows the element itself with a note: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...". Below it, the <code>gml:CartesianCS</code> element is shown with a note: "gml:CartesianCS is a 1-, 2-, or 3- dimensional coordinate system. In the 1-dimensional case, it contains a single...".</p>																																										
Type	<code>gml:CartesianCSPropertyType</code>																																										
Properties	content: complex																																										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:actuate</code></td><td><code>xlink:actuateType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:arcrole</code></td><td><code>xlink:arcroleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:href</code></td><td><code>xlink:hrefType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:role</code></td><td><code>xlink:roleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:show</code></td><td><code>xlink:showType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:title</code></td><td><code>xlink:titleAttrType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:type</code></td><td><code>xlink:typeType</code></td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	anyURI		optional	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	<code>xlink:show</code>	<code>xlink:showType</code>		optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional		
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<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional																																								
<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional																																								
<code>xlink:href</code>	<code>xlink:hrefType</code>		optional																																								
<code>xlink:role</code>	<code>xlink:roleType</code>		optional																																								
<code>xlink:show</code>	<code>xlink:showType</code>		optional																																								
<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional																																								
<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional																																								

Element `gml:verticalCSRef`

Namespace	http://www.opengis.net/gml/3.2										
Diagram	 <p>The diagram illustrates the structure of the <code>gml:VerticalCSPropertyType</code> element. It shows the element itself with a note: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...". Below it, the <code>gml:VerticalCS</code> element is shown with a note: "gml:VerticalCS is a one- dimensional coordinate system used to record the heights or depths of points. Such a coordinate...".</p>										
Type	<code>gml:VerticalCSPropertyType</code>										
Properties	content: complex										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	anyURI		optional		
QName	Type	Fixed	Use								
<code>gml:remoteSchema</code>	anyURI		optional								

QName	Type	Fixed	Use
nilReason	gml:NilReasonType		optional
xlink:actuate	xlink:actuateType		optional
xlink:arcrole	xlink:arcroleType		optional
xlink:href	xlink:hrefType		optional
xlink:role	xlink:roleType		optional
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element **gml:temporalCSRef**

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram																																									
Type	gml:TemporalCSPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
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xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:linearCSRef**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:LinearCSPropertyType
	<p>gml:LinearCS is a one-dimensional coordinate system that consists of the points that lie on the single axis described....</p> <p>gml:LinearCSPropertyType is a property type for association roles to a linear coordinate system, either referencing or...</p>

Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:userDefinedCSRef

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram																																									
Type	gml:UserDefinedCSPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <tr> <td>QName</td><td>Type</td><td>Fixed</td><td>Use</td></tr> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
xlink:arcrole	xlink:arcroleType		optional																																						
xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:sphericalCSRef

Namespace	http://www.opengis.net/gml/3.2
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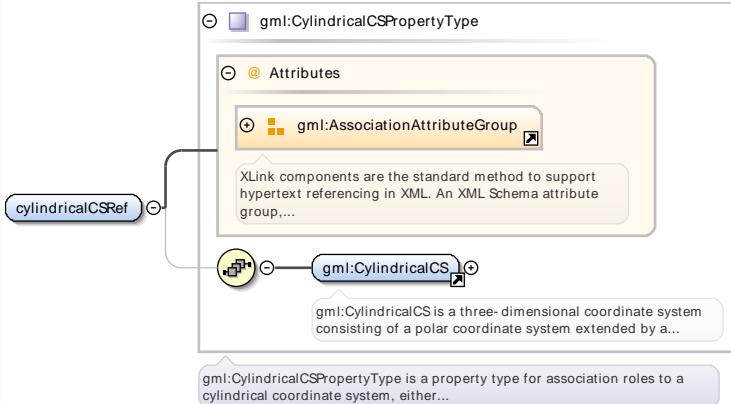
Diagram	<p>The diagram illustrates the structure of the gml:SphericalCSPropertyType. It is a complex type with an attribute group gml:AssociationAttributeGroup containing the xlink:href attribute. The type is associated with the gml:SphericalCS element. A callout box provides a detailed description of the XLink components used for hypertext referencing.</p>																																								
Type	gml:SphericalCSPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
xlink:arcrole	xlink:arcroleType		optional																																						
xlink:href	xlink:hrefType		optional																																						
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:polarCSRef**

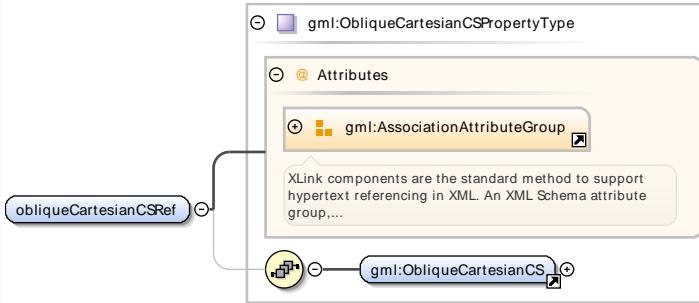
Namespace	http://www.opengis.net/gml/3.2																												
Diagram	<p>The diagram illustrates the structure of the gml:PolarCSPropertyType. It is a complex type with an attribute group gml:AssociationAttributeGroup containing the xlink:href attribute. The type is associated with the gml:PolarCS element. A callout box provides a detailed description of the XLink components used for hypertext referencing.</p>																												
Type	gml:PolarCSPropertyType																												
Properties	content: complex																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional
QName	Type	Fixed	Use																										
gml:remoteSchema	anyURI		optional																										
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xlink:actuate	xlink:actuateType		optional																										
xlink:arcrole	xlink:arcroleType		optional																										
xlink:href	xlink:hrefType		optional																										
xlink:role	xlink:roleType		optional																										

QName	Type	Fixed	Use
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element **gml:cylindricalCSRef**

Namespace	http://www.opengis.net/gml/3.2																																										
Diagram	 <p>The diagram illustrates the structure of the gml:CylindricalCSPropertyType. It shows a central box for 'gml:CylindricalCSPropertyType' with an 'Attributes' section containing an 'AssociationAttributeGroup'. A callout box provides a detailed description of XLink components for hypertext referencing. Another callout box describes 'gml:CylindricalCS' as a three-dimensional coordinate system. A third callout box states that 'gml:CylindricalCSPropertyType' is a property type for association roles to a cylindrical coordinate system.</p>																																										
Type	gml:CylindricalCSPropertyType																																										
Properties	content: complex																																										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional		
QName	Type	Fixed	Use																																								
gml:remoteSchema	anyURI		optional																																								
nilReason	gml:NilReasonType		optional																																								
xlink:actuate	xlink:actuateType		optional																																								
xlink:arcrole	xlink:arcroleType		optional																																								
xlink:href	xlink:hrefType		optional																																								
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xlink:show	xlink:showType		optional																																								
xlink:title	xlink:titleAttrType		optional																																								
xlink:type	xlink:typeType	simple	optional																																								

Element **gml:obliqueCartesianCSRef**

Namespace	http://www.opengis.net/gml/3.2																		
Diagram	 <p>The diagram illustrates the structure of the gml:ObliqueCartesianCSPropertyType. It shows a central box for 'gml:ObliqueCartesianCSPropertyType' with an 'Attributes' section containing an 'AssociationAttributeGroup'. A callout box provides a detailed description of XLink components for hypertext referencing. Another callout box describes 'gml:ObliqueCartesianCS' as a three-dimensional coordinate system.</p>																		
Type	gml:ObliqueCartesianCSPropertyType																		
Properties	content: complex																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional		
QName	Type	Fixed	Use																
gml:remoteSchema	anyURI		optional																
nilReason	gml:NilReasonType		optional																
xlink:actuate	xlink:actuateType		optional																

QName	Type	Fixed	Use	
xlink:arcrole	xlink:arcroleType		optional	
xlink:href	xlink:hrefType		optional	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Element **gml:singleCRSRef**

Namespace	http://www.opengis.net/gml/3.2																																																		
Diagram	<pre> classDiagram class singleCRSRef class gml::SingleCRSPROPERTYType { attribute gml::AssociationAttributeGroup attribute gml::AbstractSingleCRS } singleCRSRef "1" -- "1" gml::SingleCRSPROPERTYType note over gml::SingleCRSPROPERTYType: XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group, ... note over gml::SingleCRSPROPERTYType: gml:SingleCRSPROPERTYType is a property type for association roles to a single coordinate reference system, either... </pre>																																																		
Type	gml:SingleCRSPROPERTYType																																																		
Properties	content: complex																																																		
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QName	Type	Fixed	Use																																																
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xlink:actuate	xlink:actuateType		optional																																																
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xlink:title	xlink:titleAttrType		optional																																																
xlink:type	xlink:typeType	simple	optional																																																

Element **gml:definedByConversion**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>gml:GeneralConversionPropertyType</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,....</p> <p>gml:AbstractGeneralConversion</p> <p>gml:AbstractGeneralConversion is an abstract operation on coordinates that does not include any change of datum. The...</p> <p>Substitution Group</p> <p>conversion</p> <p>gml:conversion is an association role to the coordinate conversion used to define the derived CRS.</p>																																								
Type	gml:GeneralConversionPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	• gml:conversion																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
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xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:includesSingleCRS

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>gml:SingleCRSPROPERTYType</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,....</p> <p>gml:AbstractSingleCRS</p> <p>gml:AbstractSingleCRS implements a coordinate reference system consisting of one coordinate system and one datum (as...</p> <p>Substitution Group</p> <p>componentReferenceSystem</p> <p>The gml:componentReferenceSystem elements are an ordered sequence of associations to all the component coordinate...</p>

Type	gml:SingleCRSPROPERTYTYPE			
Properties	content: complex			
Substitution Group Affiliation	• gml:componentReferenceSystem			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

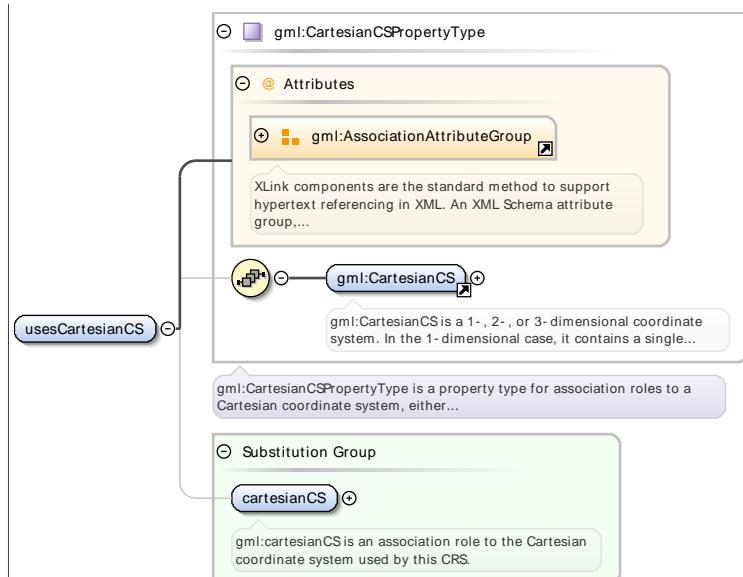
Element gml:compoundCRSRef

Namespace	http://www.opengis.net/gml/3.2			
Diagram	<p>The diagram illustrates the structure of the gml:compoundCRSRef element. It is a complex type (gml:CompoundCRSPROPERTYTYPE) containing an attribute group (gml:AssociationAttributeGroup) which includes XLink components for hypertext referencing. The element is associated with a gml:CompoundCRS type, which is described as a coordinate reference system for points through two or more independent systems.</p>			
Type	gml:CompoundCRSPROPERTYTYPE			
Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:usesCartesianCS

Namespace	http://www.opengis.net/gml/3.2
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Diagram

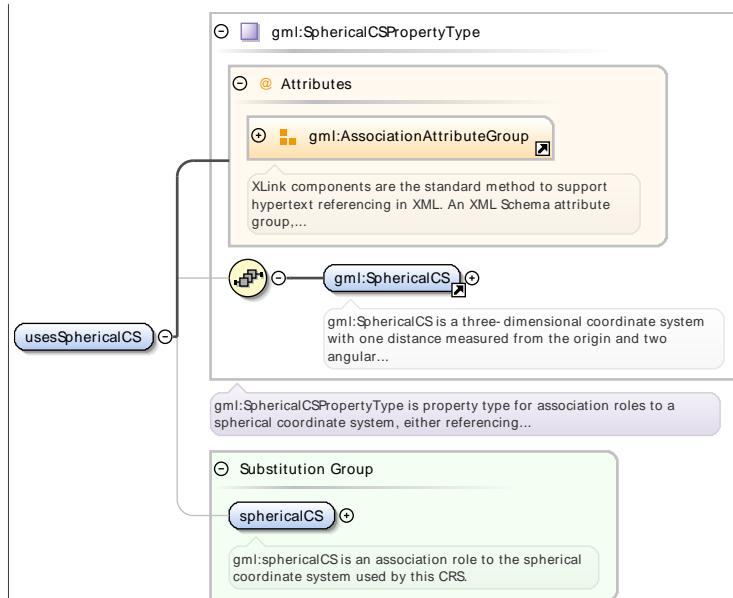


Type	gml:CartesianCSPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:cartesianCS 																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
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xlink:actuate	xlink:actuateType		optional																																						
xlink:arcrole	xlink:arcroleType		optional																																						
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:usesSphericalCS

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	<code>gml:SphericalCSPropertyType</code>				
Properties	content: complex				
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:sphericalCS</code> 				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	anyURI		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Element `gml:usesVerticalCS`

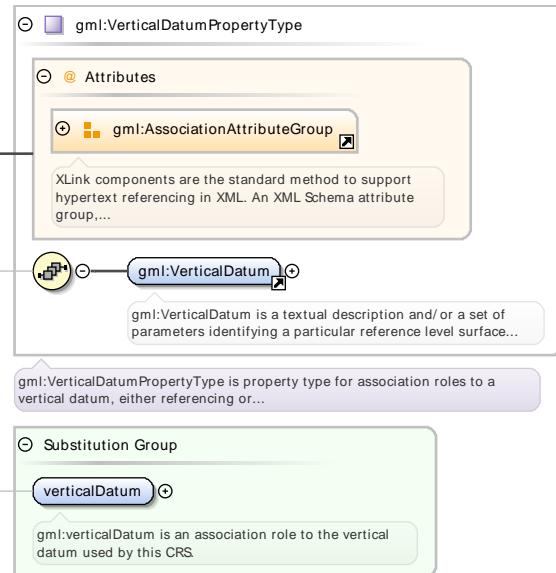
Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>gml:VerticalCSPROPERTYTYPE</p> <p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...</p> <p>Operations</p> <p>gml:VerticalCS</p> <p>gml:VerticalCS is a one-dimensional coordinate system used to record the heights or depths of points. Such a coordinate...</p> <p>Substitution Group</p> <p>verticalCS</p> <p>gml:verticalCS is an association role to the vertical coordinate system used by this CRS.</p>																																								
Type	gml:VerticalCSPROPERTYTYPE																																								
Properties	content: complex																																								
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:verticalCS 																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:usesVerticalDatum**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



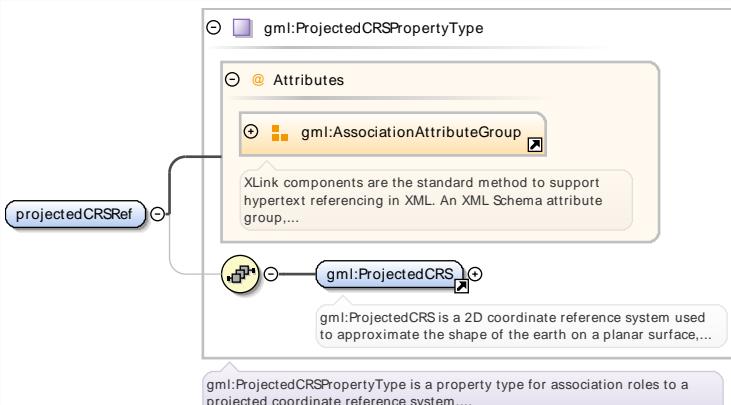
Type	<code>gml:VerticalDatumPropertyType</code>																																								
Properties	content: complex																																								
Substitution Group Affiliation	• <code>gml:verticalDatum</code>																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:actuate</code></td> <td><code>xlink:actuateType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td><code>xlink:arcroleType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:href</code></td> <td><code>xlink:hrefType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:role</code></td> <td><code>xlink:roleType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:show</code></td> <td><code>xlink:showType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:title</code></td> <td><code>xlink:titleAttrType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:type</code></td> <td><code>xlink:typeType</code></td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	anyURI		optional	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	<code>xlink:show</code>	<code>xlink:showType</code>		optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional
QName	Type	Fixed	Use																																						
<code>gml:remoteSchema</code>	anyURI		optional																																						
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<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional																																						
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<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional																																						

Element `gml:verticalCRSRef`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram shows the schema structure for <code>gml:VerticalCRSPROPERTYType</code>. It includes a <code>verticalCRSRef</code> association role, an <code>gml:AssociationAttributeGroup</code> for attributes, and a <code>gml:VerticalCRS</code> element. A callout box explains that XLink components support hypertext referencing. Another callout box describes <code>gml:VerticalCRS</code> as a 1D coordinate reference system for heights or depths. A <code>gml:VerticalCRSPROPERTYType</code> substitution group is also shown, with a <code>verticalCRS</code> element and a callout box explaining its association role to a vertical coordinate reference system.</p>
Type	<code>gml:VerticalCRSPROPERTYType</code>
Properties	content: complex

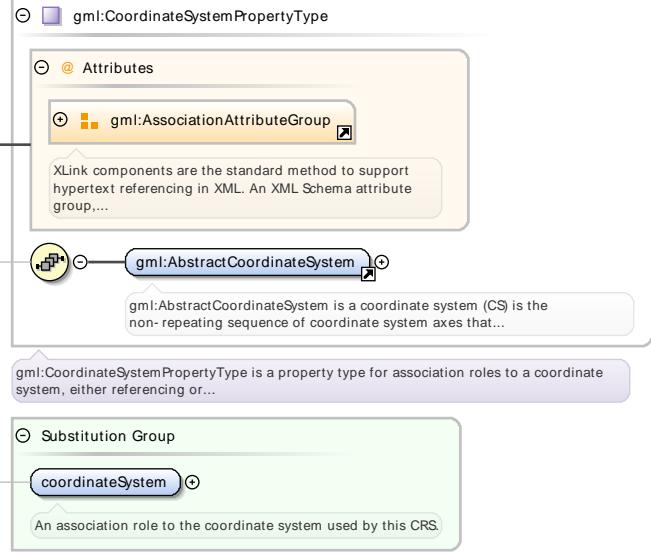
Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	gml:NilReasonType		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Element **gml:projectedCRSRef**

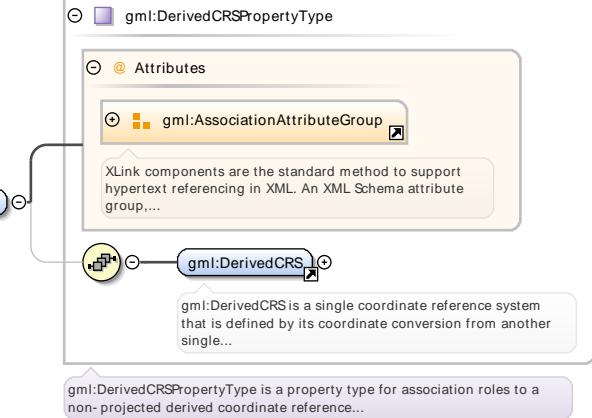
Namespace	http://www.opengis.net/gml/3.2																																																		
Diagram	 <p>The diagram illustrates the structure of the gml:ProjectedCRSPropertyType. It is a property type for association roles to a projected coordinate reference system. The type includes an Attributes group and an gml:AssociationAttributeGroup. The gml:AssociationAttributeGroup is highlighted with a yellow border. A callout box provides a detailed description of XLink components: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...'. Another callout box describes gml:ProjectedCRS: 'gml:ProjectedCRS is a 2D coordinate reference system used to approximate the shape of the earth on a planar surface,...'. A callout box at the bottom states: 'gml:ProjectedCRSPropertyType is a property type for association roles to a projected coordinate reference system,...'.</p>																																																		
Type	gml:ProjectedCRSPropertyType																																																		
Properties	content: complex																																																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td><td></td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Use		gml:remoteSchema	anyURI		optional		nilReason	gml:NilReasonType		optional		xlink:actuate	xlink:actuateType		optional		xlink:arcrole	xlink:arcroleType		optional		xlink:href	xlink:hrefType		optional		xlink:role	xlink:roleType		optional		xlink:show	xlink:showType		optional		xlink:title	xlink:titleAttrType		optional		xlink:type	xlink:typeType	simple	optional	
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xlink:title	xlink:titleAttrType		optional																																																
xlink:type	xlink:typeType	simple	optional																																																

Element **gml:usesCS**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	 <p>The diagram illustrates the structure of the gml:CoordinateSystemPropertyType element. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: An gml:AssociationAttributeGroup is shown, with a note explaining XLink components support hypertext referencing. Elements: <ul style="list-style-type: none"> gml:AbstractCoordinateSystem: A repeating sequence of coordinate system axes. gml:CoordinateSystemPropertyType: A property type for association roles to a coordinate system. Substitution Group: coordinateSystem is listed as a substitution group for the property type. <p>A blue box labeled usesCS is connected to the gml:CoordinateSystemPropertyType element.</p>																																								
Type	gml:CoordinateSystemPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:coordinateSystem 																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:derivedCRSRef**

Namespace	http://www.opengis.net/gml/3.2								
Diagram	 <p>The diagram illustrates the structure of the gml:DerivedCRSPROPERTYTYPE element. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: An gml:AssociationAttributeGroup is shown, with a note explaining XLink components support hypertext referencing. Elements: <ul style="list-style-type: none"> gml:DerivedCRS: A single coordinate reference system defined by coordinate conversion. gml:DerivedCRSPROPERTYTYPE: A property type for association roles to a non-projected derived coordinate reference. <p>A blue box labeled derivedCRSRef is connected to the gml:DerivedCRSPROPERTYTYPE element.</p>								
Type	gml:DerivedCRSPROPERTYTYPE								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional
QName	Type	Fixed	Use						
gml:remoteSchema	anyURI		optional						

QName	Type	Fixed	Use
nilReason	gml:NilReasonType		optional
xlink:actuate	xlink:actuateType		optional
xlink:arcrole	xlink:arcroleType		optional
xlink:href	xlink:hrefType		optional
xlink:role	xlink:roleType		optional
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Element **gml:usesEngineeringDatum**

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>The diagram illustrates the structure of the gml:EngineeringDatumPropertyType. It shows an Attributes section containing an AssociationAttributeGroup (highlighted in orange). This group is described as supporting hypertext referencing in XML. Below it is the gml:EngineeringDatum element (highlighted in yellow), which is described as defining the origin of an engineering coordinate reference system. A usesEngineeringDatum element (highlighted in grey) is shown as a child of the gml:EngineeringDatum. The diagram also shows a Substitution Group for engineeringDatum (highlighted in green), which is described as an association role to the engineering datum used by this CRS.</p>																																								
Type	gml:EngineeringDatumPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	• gml:engineeringDatum																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:engineeringCRSRef**

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																									
Type	gml:EngineeringCRSPROPERTYTYPE																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:usesAffineCS

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:AffineCSPROPERTYTYPE
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • gml:affineCS

Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element **gml:usesImageDatum**

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>The diagram illustrates the structure of the gml:ImageDatumPropertyType. It is a property type for association roles to an image datum, either referencing or containing. The type includes an Attributes section with an gml:AssociationAttributeGroup, which supports hypertext referencing in XML. It also includes a Substitution Group for imageDatum, which is an association role to the image datum used by this CRS.</p>																																								
Type	gml:ImageDatumPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	• gml:imageDatum																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:imageCRSRef**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram shows the schema element <code>gml:ImageCRSPROPERTYTYPE</code>. It includes an <code>imageCRSRef</code> attribute pointing to a <code>gml:ImageCRS</code> element. The <code>gml:ImageCRS</code> element is described as an engineering coordinate reference system applied to locations in images. It also includes an <code>AssociationAttributeGroup</code> for XLink components.</p>																																								
Type	<code>gml:ImageCRSPROPERTYTYPE</code>																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:actuate</code></td><td><code>xlink:actuateType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:arcrole</code></td><td><code>xlink:arcroleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:href</code></td><td><code>xlink:hrefType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:role</code></td><td><code>xlink:roleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:show</code></td><td><code>xlink:showType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:title</code></td><td><code>xlink:titleAttrType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:type</code></td><td><code>xlink:typeType</code></td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	anyURI		optional	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	<code>xlink:show</code>	<code>xlink:showType</code>		optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional
QName	Type	Fixed	Use																																						
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<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional																																						
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<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional																																						

Element `gml:usesTimeCS`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram shows the schema element <code>gml:TIMECSPROPERTYTYPE</code>. It includes an <code>usesTimeCS</code> attribute pointing to a <code>gml:TimeCS</code> element. The <code>gml:TimeCS</code> element is described as a one-dimensional coordinate system containing a time axis, used to describe the temporal position of a... It also includes an <code>AssociationAttributeGroup</code> for XLink components. A <code>Substitution Group</code> is shown for <code>timeCS</code>.</p>
Type	<code>gml:TIMECSPROPERTYTYPE</code>
Properties	content: complex
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:timeCS</code>

Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element **gml:usesTemporalDatum**

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>The diagram illustrates the structure of the gml:TemporalDatumPropertyType. It includes an Attributes section with an gml:AssociationAttributeGroup (highlighted in orange), which is described as using XLink components for hypertext referencing. A callout box provides the definition: "A gml:TemporalDatum defines the origin of a Temporal Reference System. This type omits the 'anchorDefinition' and..." The usesTemporalDatum role is shown as a blue rounded rectangle. The Substitution Group section contains the temporalDatum role, described as an association role to the temporal datum used by this CRS.</p>																																								
Type	gml:TemporalDatumPropertyType																																								
Properties	content: complex																																								
Substitution Group Affiliation	• gml:temporalDatum																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element **gml:temporalCRSRef**

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																									
Type	gml:TemporalCRSPROPERTYTYPE																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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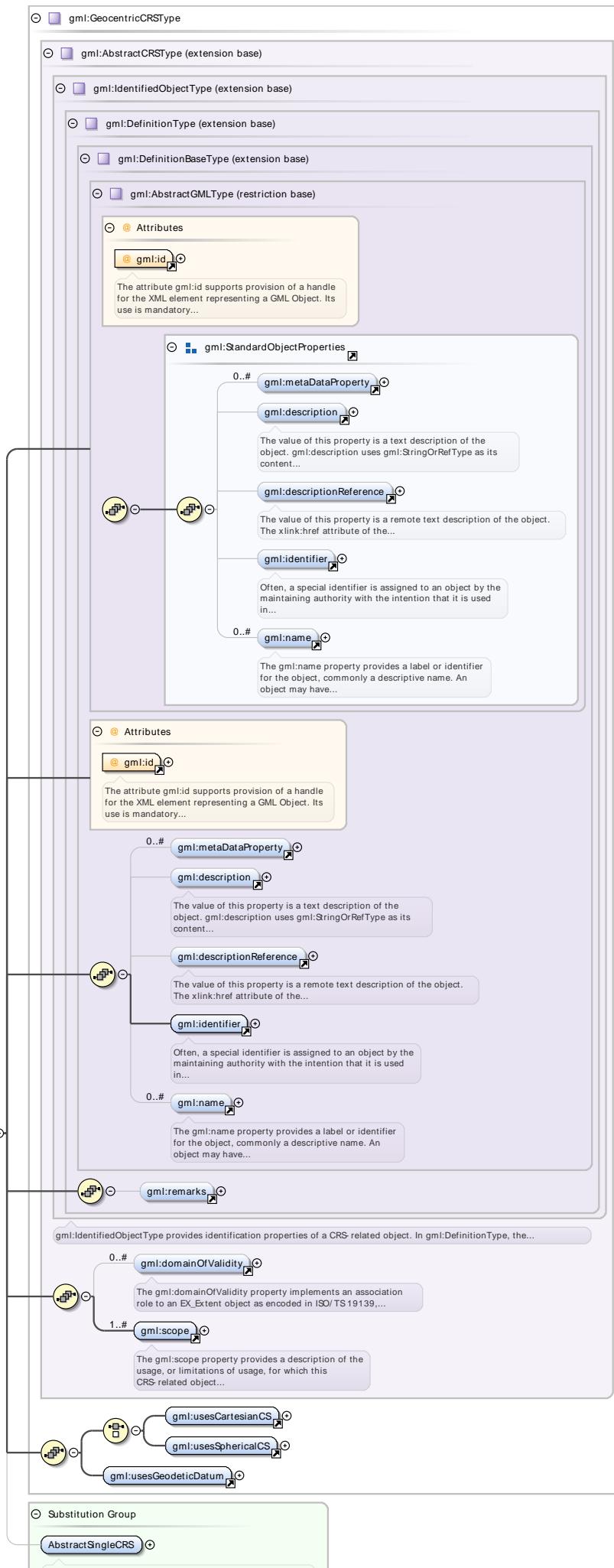
Element gml:geographicCRSRef

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram																																									
Type	gml:GeographicCRSPROPERTYTYPE																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element `gml:GeocentricCRS`

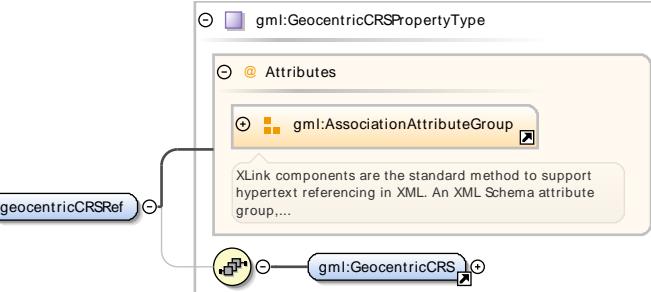
Namespace	http://www.opengis.net/gml/3.2
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Diagram

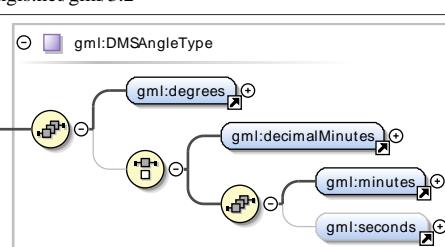


Type	gml:GeocentricCRSType		
Properties	content: complex		
Substitution Group Affiliation	• gml:AbstractSingleCRS		
Attributes	QName	Type	Use
	gml:id	ID	required
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Element gml:geocentricCRSRef

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	gml:GeocentricCRSPROPERTYTYPE		
Properties	content: complex		
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	
	nilReason	gml:NilReasonType	
	xlink:actuate	xlink:actuateType	
	xlink:arcrole	xlink:arcroleType	
	xlink:href	xlink:hrefType	
	xlink:role	xlink:roleType	
	xlink:show	xlink:showType	
	xlink:title	xlink:titleAttrType	
xlink:type	xlink:typeType	simple	optional

Element gml:dmsAngle

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	gml:DMSAngleType		
Properties	content: complex		

Element gml:member

Namespace	http://www.opengis.net/gml/3.2		
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Diagram	<p>The diagram shows the structure of the <code>gml:AssociationRoleType</code> element. It contains two attribute groups: <code>gml:OwnershipAttributeGroup</code> and <code>gml:AssociationAttributeGroup</code>. A <code>member</code> element is shown as a reference to <code>gml:AbstractObject</code> with a multiplicity of <code>0..#</code>. A note explains the difference between inline and by-reference encoding for ownership. A <code>any</code> element is also present.</p>																																																							
Type	<code>gml:AssociationRoleType</code>																																																							
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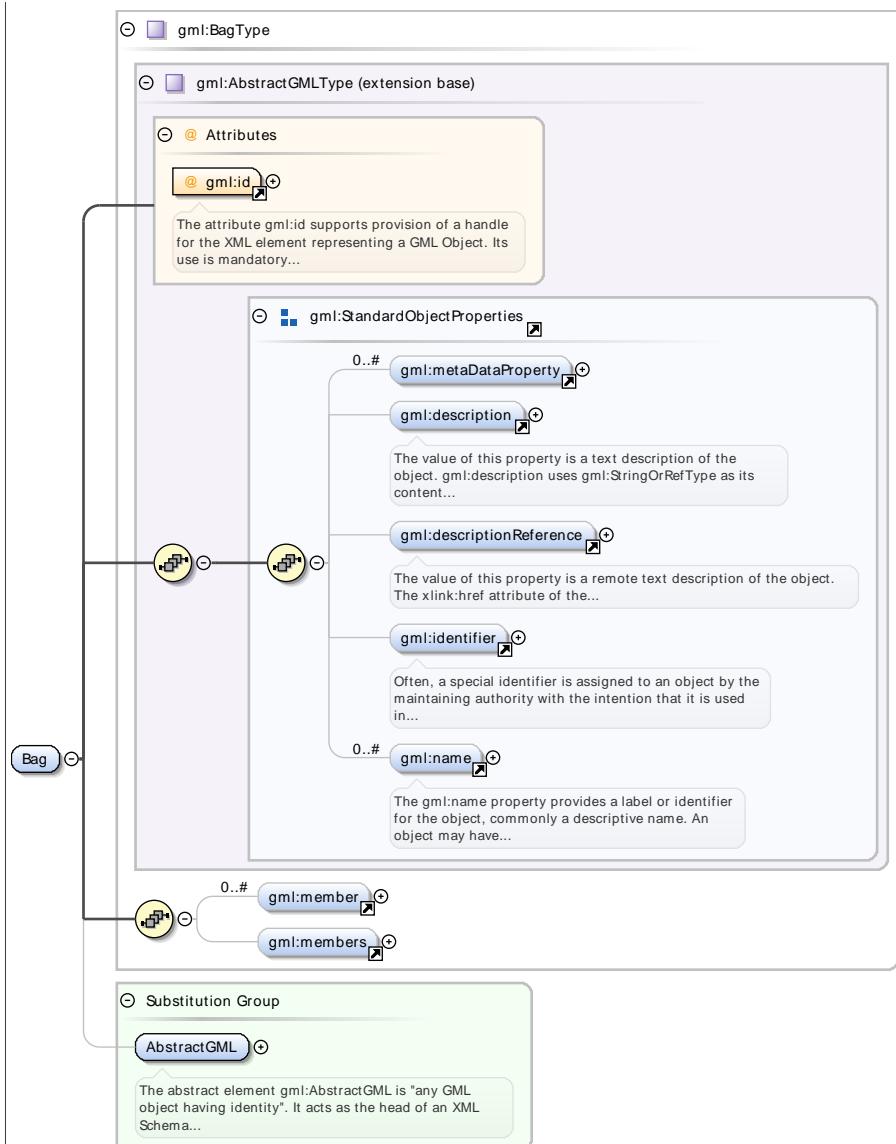
Element `gml:members`

Namespace	<code>http://www.opengis.net/gml/3.2</code>
Diagram	<p>The diagram shows the structure of the <code>gml:ArrayAssociationType</code> element. It contains an attribute group <code>gml:OwnershipAttributeGroup</code>. A <code>members</code> element is shown as a reference to <code>gml:AbstractObject</code> with a multiplicity of <code>0..#</code>. A note states that the element has no type defined and is therefore implicitly an XML Schema type.</p>
Type	<code>gml:ArrayAssociationType</code>
Properties	content: complex

Element `gml:Bag`

Namespace	<code>http://www.opengis.net/gml/3.2</code>
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Diagram

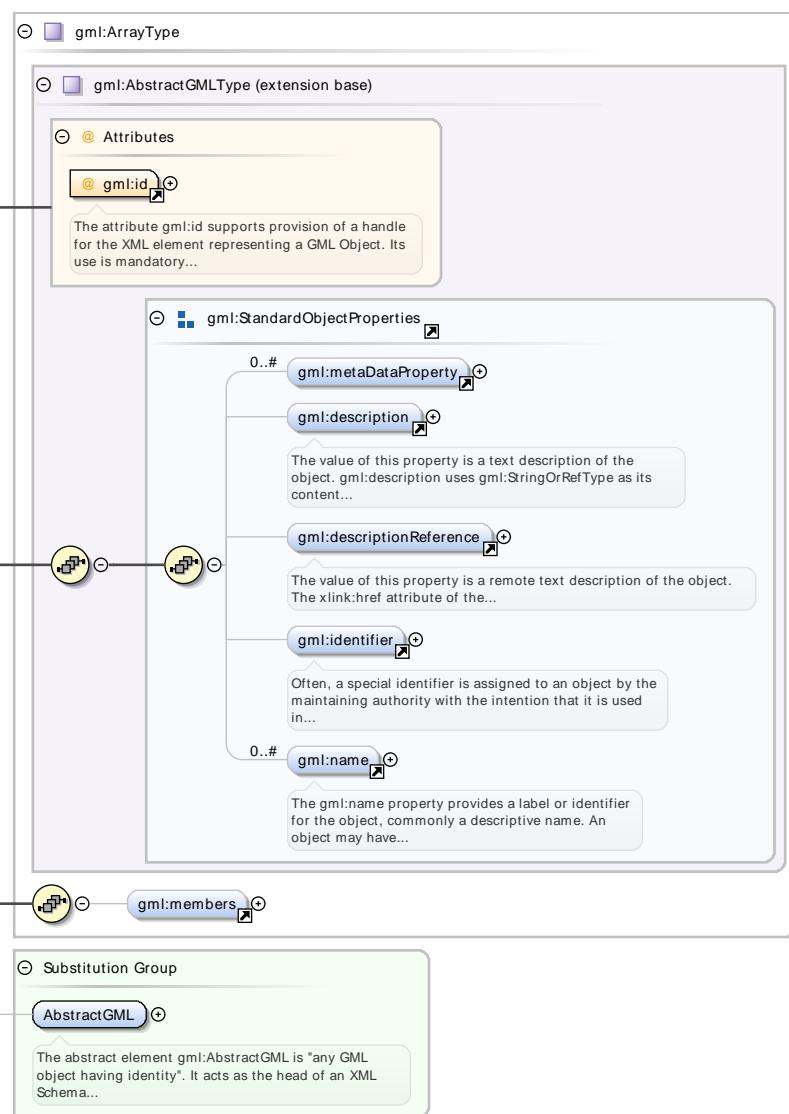


Type	<code>gml:BagType</code>									
Properties	content: complex									
Substitution Group	• <code>gml:AbstractGML</code>									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
<code>gml:id</code>	ID	required								
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Element `gml:Array`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	gml:ArrayType									
Properties	content: complex									
Substitution Group	• gml:AbstractGML									
Affiliation										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
gml:id	ID	required								
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Element gml:GenericMetaData

Namespace	http://www.opengis.net/gml/3.2
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Diagram										
Type	gml:GenericMetaDataType									
Properties	<p>content: complex</p> <p>mixed: true</p>									
Substitution Group Affiliation	• gml:AbstractMetaData									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>optional</td> </tr> <tr> <td></td> <td></td> <td>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> </tr> </tbody> </table>	QName	Type	Use	gml:id	ID	optional			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
QName	Type	Use								
gml:id	ID	optional								
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.								

Element gml:priorityLocation

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:PriorityLocationPropertyType

Properties	content: complex			
Substitution Group Affiliation	• gml:location			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	priority	string		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:featureMember

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<pre> graph TD FPT[gml:FeaturePropertyType] -- "featureMember" --> AF[gml:AbstractFeature] subgraph FPT direction TB FPT -- "gml:FeaturePropertyType" --> AP[gml:Attributes] AP -- "gml:OwnershipAttributeGroup" --> OAAG[gml:OwnershipAttributeGroup] AP -- "gml:AssociationAttributeGroup" --> AAAG[gml:AssociationAttributeGroup] OAAG -- note --> OAAG_NOTE["Encoding a GML property inline vs. by- reference shall not imply anything about the \"ownership\" of the contained or..."] AAAG -- note --> AAAG_NOTE["XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...."] AF[gml:AbstractFeature] -- note --> AF_NOTE["This abstract element serves as the head of a substitution group which may contain any elements whose content model is..."] end </pre>																																																							
Type	gml:FeaturePropertyType																																																							
Properties	content: complex																																																							
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Element gml:featureProperty

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																																								
Type	gml:FeaturePropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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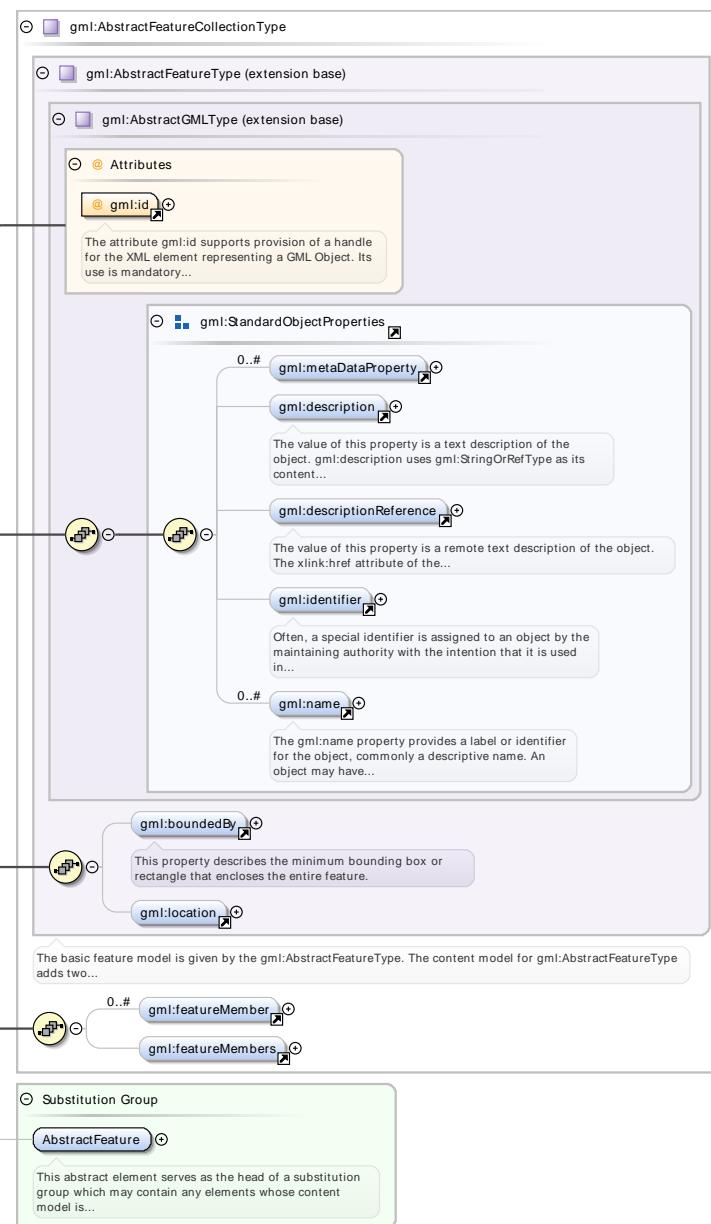
Element gml:featureMembers

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:FeatureArrayPropertyType
Properties	content: complex

Element gml:AbstractFeatureCollection

Namespace	http://www.opengis.net/gml/3.2
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Diagram

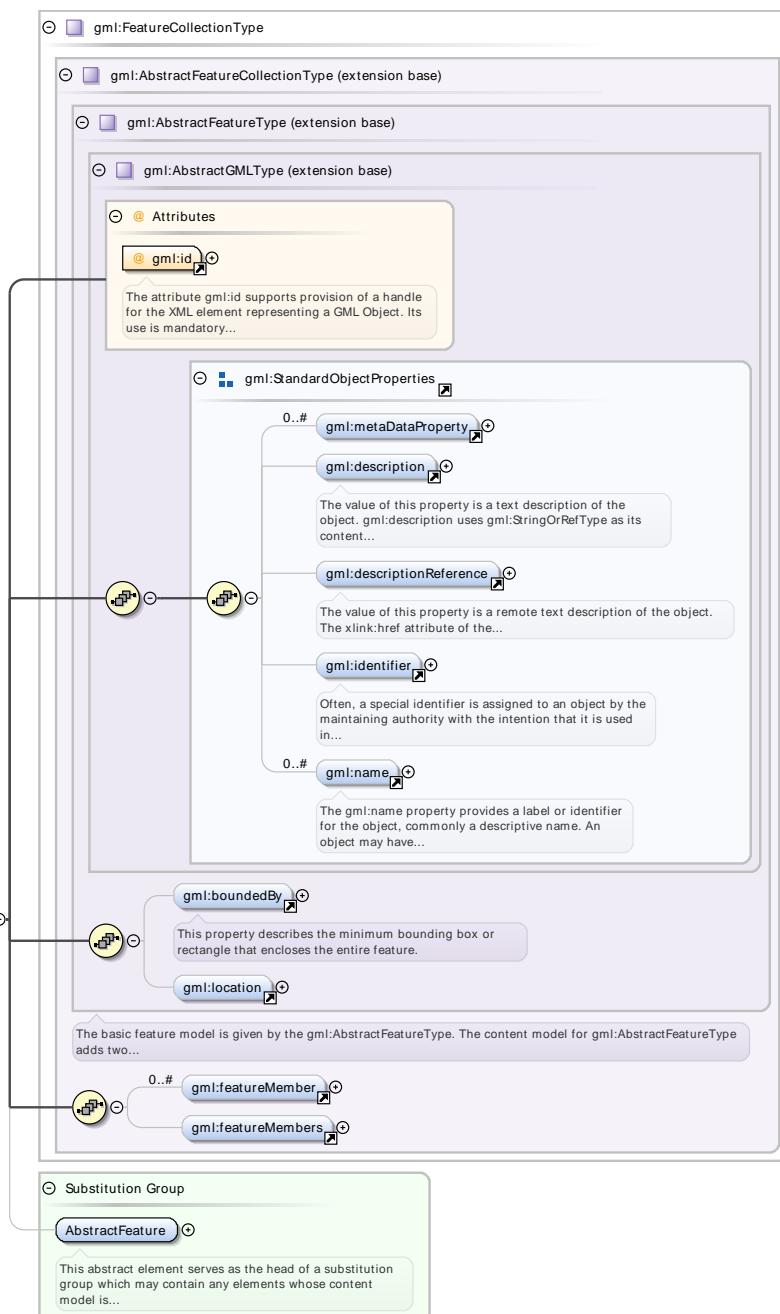


Type	<code>gml:AbstractFeatureCollectionType</code>		
Properties	content:	complex	
	abstract:	true	
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractFeature</code> 		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required
		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Element `gml:FeatureCollection`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	<code>gm:FeatureCollectionType</code>		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gm:AbstractFeature</code> 		
Attributes	QName	Type	Use
	<code>gm:id</code>	ID	required
	The attribute <code>gm:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Element `gm:track`

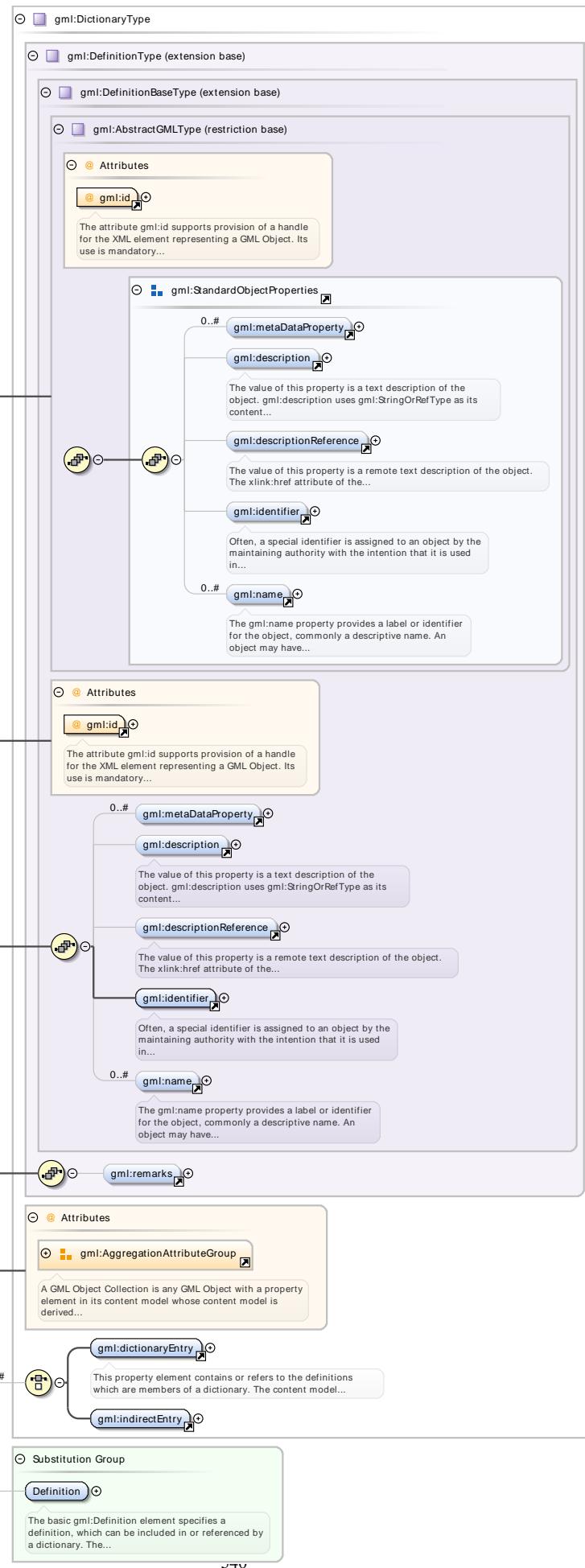
Namespace	http://www.opengis.net/gml/3.2
-----------	---

Diagram	<p>Diagram illustrating the structure of the <code>gml:HistoryPropertyType</code> element. The diagram shows the element's attributes, associations, and substitution groups.</p> <ul style="list-style-type: none"> Attributes: <code>gml:OwnershipAttributeGroup</code> Associations: <code>track</code> (multiplicity 1..#) to <code>gml:AbstractTimeSlice</code>. Substitution Group: <code>history</code> 								
Type	<code>gml:HistoryPropertyType</code>								
Properties	content: complex								
Substitution Group Affiliation	• <code>gml:history</code>								
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">QName</th><th style="text-align: left; padding: 2px;">Type</th><th style="text-align: left; padding: 2px;">Default</th><th style="text-align: left; padding: 2px;">Use</th></tr> </thead> <tbody> <tr> <td style="text-align: left; padding: 2px;"><code>owns</code></td><td style="text-align: left; padding: 2px;">boolean</td><td style="text-align: left; padding: 2px;">false</td><td style="text-align: left; padding: 2px;">optional</td></tr> </tbody> </table>	QName	Type	Default	Use	<code>owns</code>	boolean	false	optional
QName	Type	Default	Use						
<code>owns</code>	boolean	false	optional						

Element `gml:DefinitionCollection`

Namespace	http://www.opengis.net/gml/3.2
-----------	---

Diagram



Type	gml:DictionaryType		
Properties	content: complex		
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:Definition 		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>			

Element gml:definitionMember

Namespace	http://www.opengis.net/gml/3.2			
Diagram	<p>The diagram illustrates the UML class structure for gml:DictionaryEntryType. It inherits from gml:AbstractMemberType. It contains attributes for gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup. The gml:Definition element is shown as a component that can be included or referenced by the dictionary. A 'definitionMember' association is depicted as a line connecting the dictionary entry to the definition element.</p>			
Type	gml:DictionaryEntryType			
Properties	content: complex			
Substitution Group Affiliation	<ul style="list-style-type: none"> gml:dictionaryEntry 			
Attributes	QName	Type	Fixed	
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	owns	boolean	false	optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional

QName	Type	Fixed	Default	Use
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

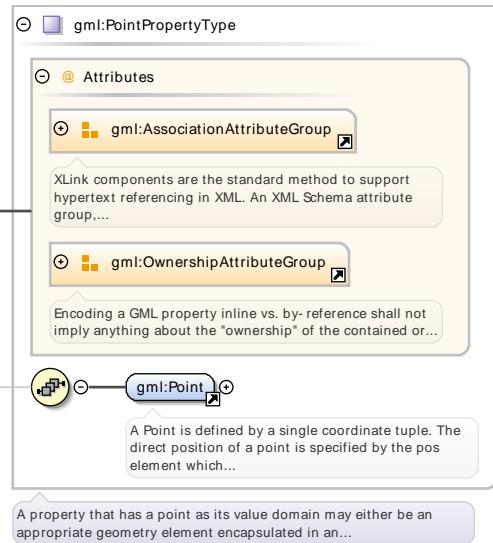
Element **gml:centerOf**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:centerOf element. It is a complex type (gml:PointPropertyType) containing an attribute group (gml:AssociationAttributeGroup) and an ownership attribute group (gml:OwnershipAttributeGroup). The centerOf attribute is shown as a reference to a gml:Point element. A callout box provides a detailed description of the gml:Point element, stating that it is defined by a single coordinate tuple and that the direct position of a point is specified by the pos element.</p>																																																							
Type	gml:PointPropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:position**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type

gml:PointPropertyType

Properties

content: complex

Attributes

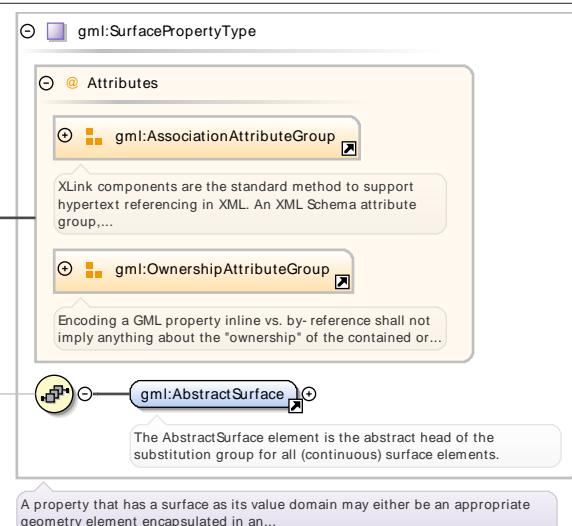
QName	Type	Fixed	Default	Use
gml:remoteSchema	anyURI			optional
nilReason	gml:NilReasonType			optional
owns	boolean		false	optional
xlink:actuate	xlink:actuateType			optional
xlink:arcrole	xlink:arcroleType			optional
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Element gml:extentOf

Namespace

http://www.opengis.net/gml/3.2

Diagram



Type

gml:SurfacePropertyType

Properties

content: complex

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:edgeOf**

Namespace	http://www.opengis.net/gml/3.2																																																																							
Diagram	<p>The diagram illustrates the structure of the gml:CurvePropertyType element. It shows associations with gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. A note states: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...". Another note states: "Encoding a GML property inline vs. by-reference shall not imply anything about the 'ownership' of the contained or...". A third note states: "The AbstractCurve element is the abstract head of the substitution group for all (continuous) curve elements.". A callout points to the edgeOf attribute, which is associated with the gml:AbstractCurve element. A note below the callout states: "A property that has a curve as its value domain may either be an appropriate geometry element encapsulated in an...". </p>																																																																							
Type	gml:CurvePropertyType																																																																							
Properties	content: complex																																																																							
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xlink:title	xlink:titleAttrType			optional																																																																				
xlink:type	xlink:typeType	simple		optional																																																																				

Element **gml:centerLineOf**

Namespace	http://www.opengis.net/gml/3.2					
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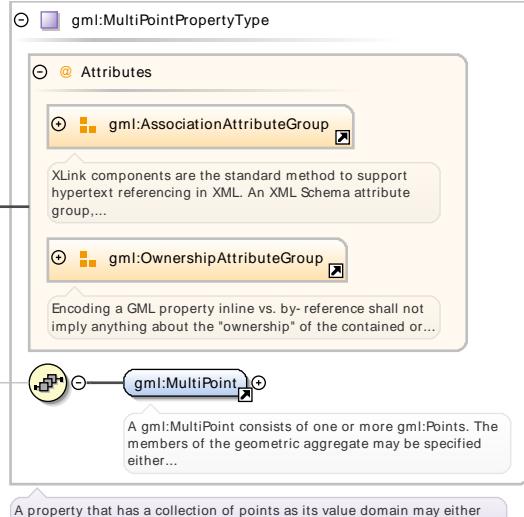
Diagram	<p>gml:CurvePropertyType</p> <p>Attributes</p> <ul style="list-style-type: none"> gml:AssociationAttributeGroup gml:OwnershipAttributeGroup <p>centerLineOf</p> <p>gml:AbstractCurve</p> <p>A property that has a curve as its value domain may either be an appropriate geometry element encapsulated in an...</p>																																																							
Type	gml:CurvePropertyType																																																							
Properties	content: complex																																																							
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xlink:type	xlink:typeType	simple		optional																																																				

Element gml:multiLocation

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>gml:MultiPointPropertyType</p> <p>Attributes</p> <ul style="list-style-type: none"> gml:AssociationAttributeGroup gml:OwnershipAttributeGroup <p>multiLocation</p> <p>gml:MultiPoint</p> <p>A property that has a collection of points as its value domain may either be an appropriate geometry element...</p>
Type	gml:MultiPointPropertyType
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:multiCenterOf**

Namespace	http://www.opengis.net/gml/3.2																																																																		
Diagram	 <p>The diagram illustrates the structure of the gml:MultiPointPropertyType element. It shows a main box for gml:MultiPointPropertyType containing an Attributes section. The Attributes section includes two groups: gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. A specific attribute, multiCenterOf, is highlighted and points to the gml:MultiPoint element, which is represented by a point symbol icon. A callout box provides a detailed description of gml:MultiPoint.</p> <p>A property that has a collection of points as its value domain may either be an appropriate geometry element...</p>																																																																		
Type	gml:MultiPointPropertyType																																																																		
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Element **gml:multiPosition**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>Diagram illustrating the structure of gml:MultiPointPropertyType. It shows associations with gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup, and a reference to gml:MultiPoint.</p>																																																							
Type	gml:MultiPointPropertyType																																																							
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Element gml:multiCenterLineOf

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>Diagram illustrating the structure of gml:MultiCurvePropertyType. It shows associations with gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup, and a reference to gml:MultiCurve.</p>
Type	gml:MultiCurvePropertyType
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
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	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

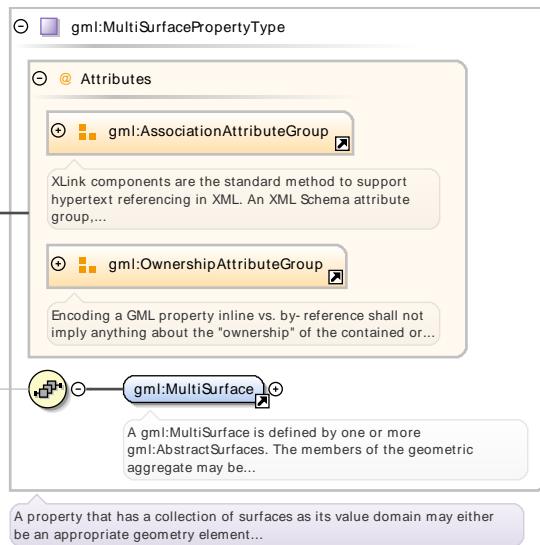
Element **gml:multiEdgeOf**

Namespace	http://www.opengis.net/gml/3.2																																																																		
Diagram	<p>The diagram illustrates the structure of the gml:MultiCurvePropertyType. It shows associations with gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup, both of which have notes explaining their purpose. A note also describes the gml:MultiCurve element. A callout points to the multiEdgeOf attribute, which is associated with the gml:MultiCurve element.</p>																																																																		
Type	gml:MultiCurvePropertyType																																																																		
Properties	content: complex																																																																		
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Element **gml:multiCoverage**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type

`gml:MultiSurfacePropertyType`

Properties

content: complex

Attributes

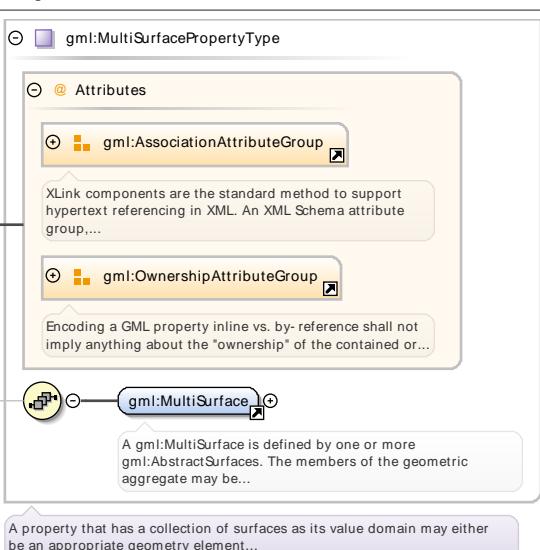
QName	Type	Fixed	Default	Use
<code>gml:remoteSchema</code>	<code>anyURI</code>			optional
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<code>owns</code>	<code>boolean</code>		false	optional
<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
<code>xlink:role</code>	<code>xlink:roleType</code>			optional
<code>xlink:show</code>	<code>xlink:showType</code>			optional
<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

Element `gml:multiExtentOf`

Namespace

`http://www.opengis.net/gml/3.2`

Diagram



Type

`gml:MultiSurfacePropertyType`

Properties

content: complex

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:polygonPatches**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:SurfacePatchArrayPropertyType
Properties	content: complex
Substitution Group Affiliation	• gml:patches

Element **gml:trianglePatches**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:SurfacePatchArrayPropertyType
Properties	content: complex
Substitution Group Affiliation	• gml:patches

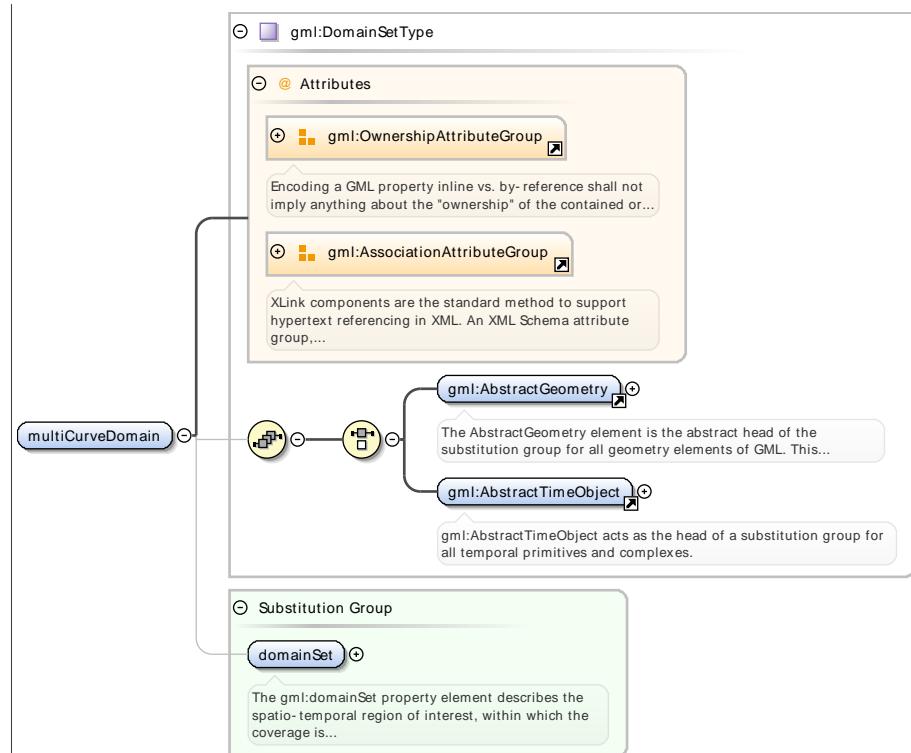
Element `gml:multiPointDomain`

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the <code>gml:DomainSetType</code> element. It includes attributes for ownership and associations, and a substitution group for <code>gml:AbstractGeometry</code>. The <code>multiPointDomain</code> element is shown as a specific instance of <code>gml:DomainSetType</code>, which is part of the substitution group for <code>gml:AbstractGeometry</code>. The <code>domainSet</code> property is also highlighted.</p>																																																							
Type	<code>gml:DomainSetType</code>																																																							
Properties	content: complex																																																							
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Element `gml:multiCurveDomain`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

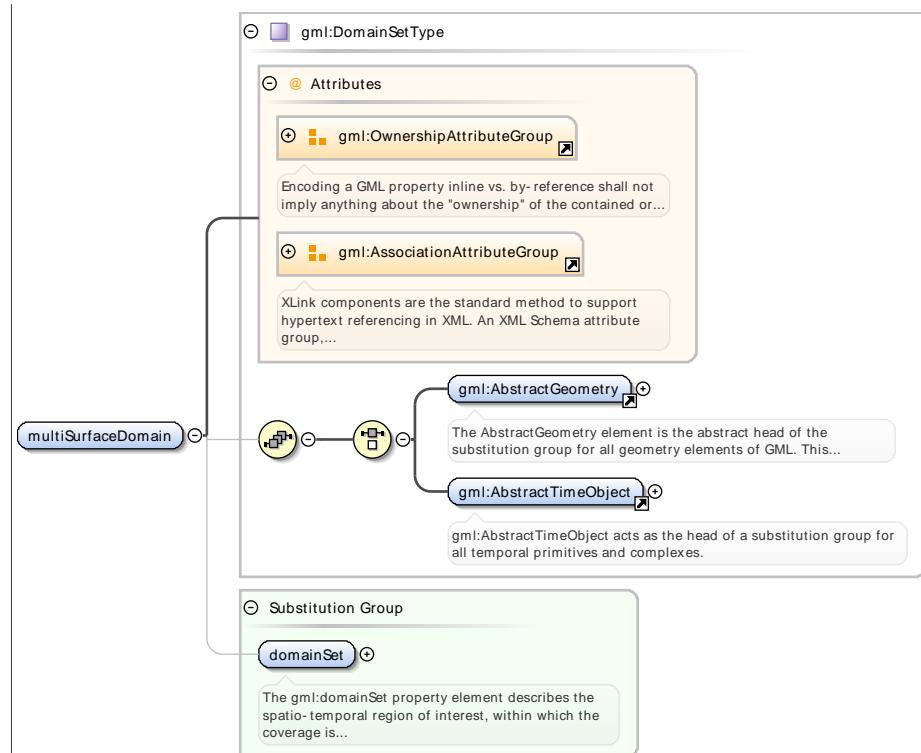


Type	<code>gml:DomainSetType</code>																																																							
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Element `gml:multiSurfaceDomain`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

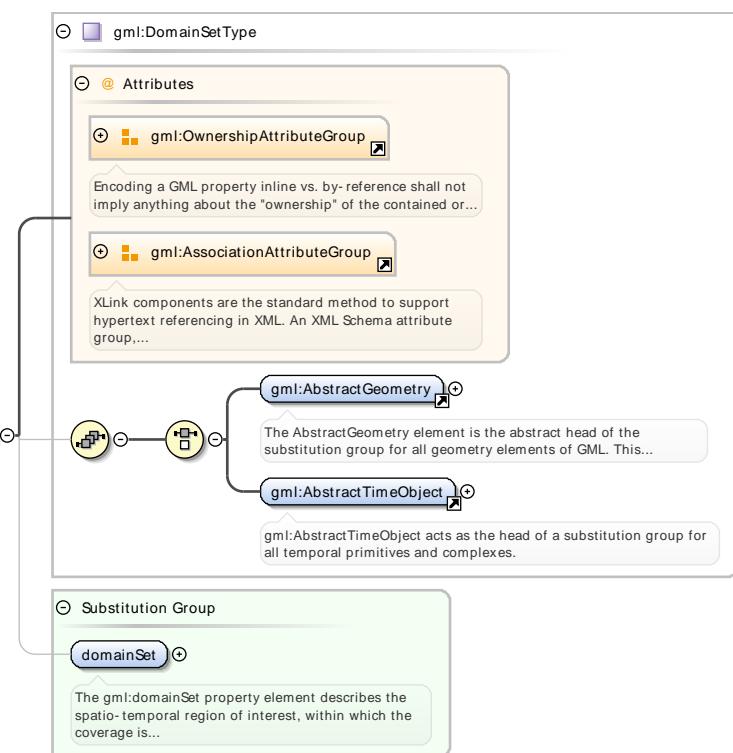


Type	<code>gml:DomainSetType</code>																																																							
Properties	content: complex																																																							
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Element `gml:multiSolidDomain`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

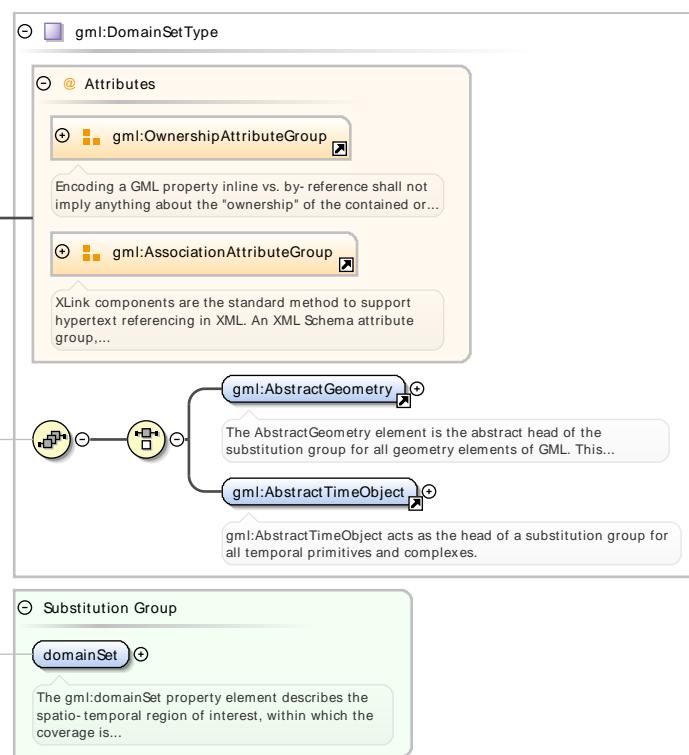


Type	<code>gml:DomainSetType</code>																																																							
Properties	content: complex																																																							
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:domainSet</code> 																																																							
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Element `gml:gridDomain`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

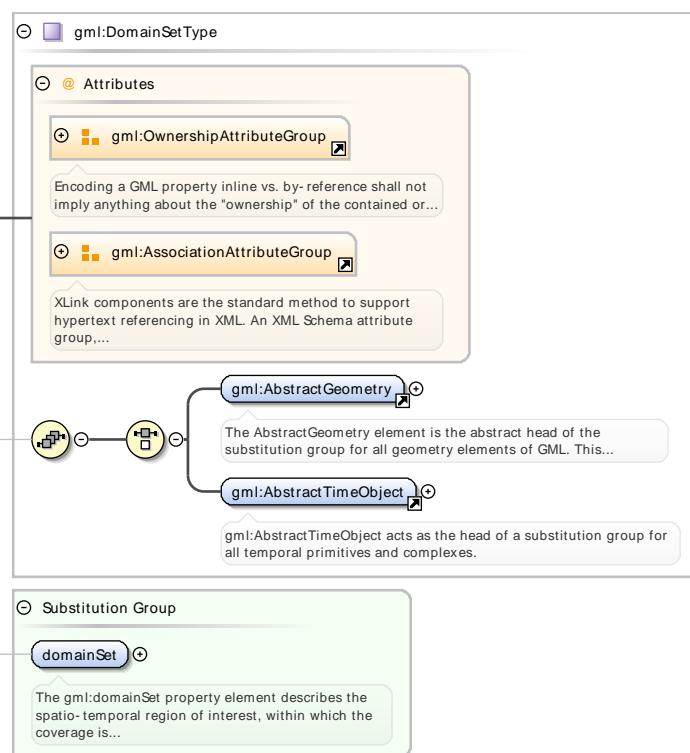


Type	<code>gml:DomainSetType</code>																																																							
Properties	content: complex																																																							
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:domainSet</code> 																																																							
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Element `gml:rectifiedGridDomain`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

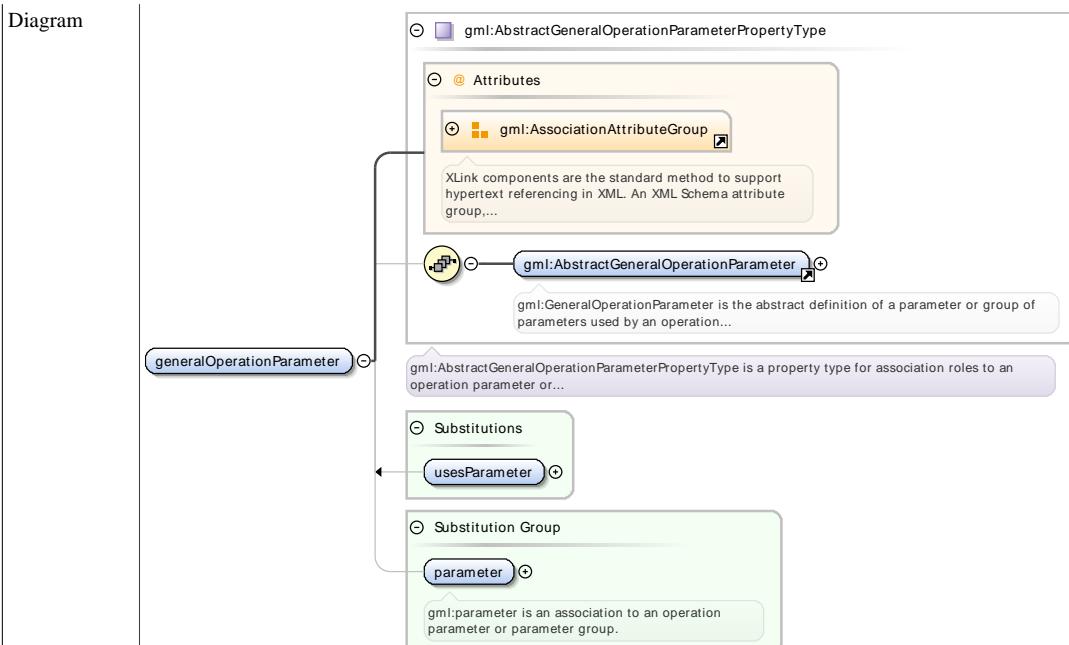


Type	<code>gml:DomainSetType</code>																																																							
Properties	content: complex																																																							
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:domainSet</code> 																																																							
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Element `gml:generalOperationParameter`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

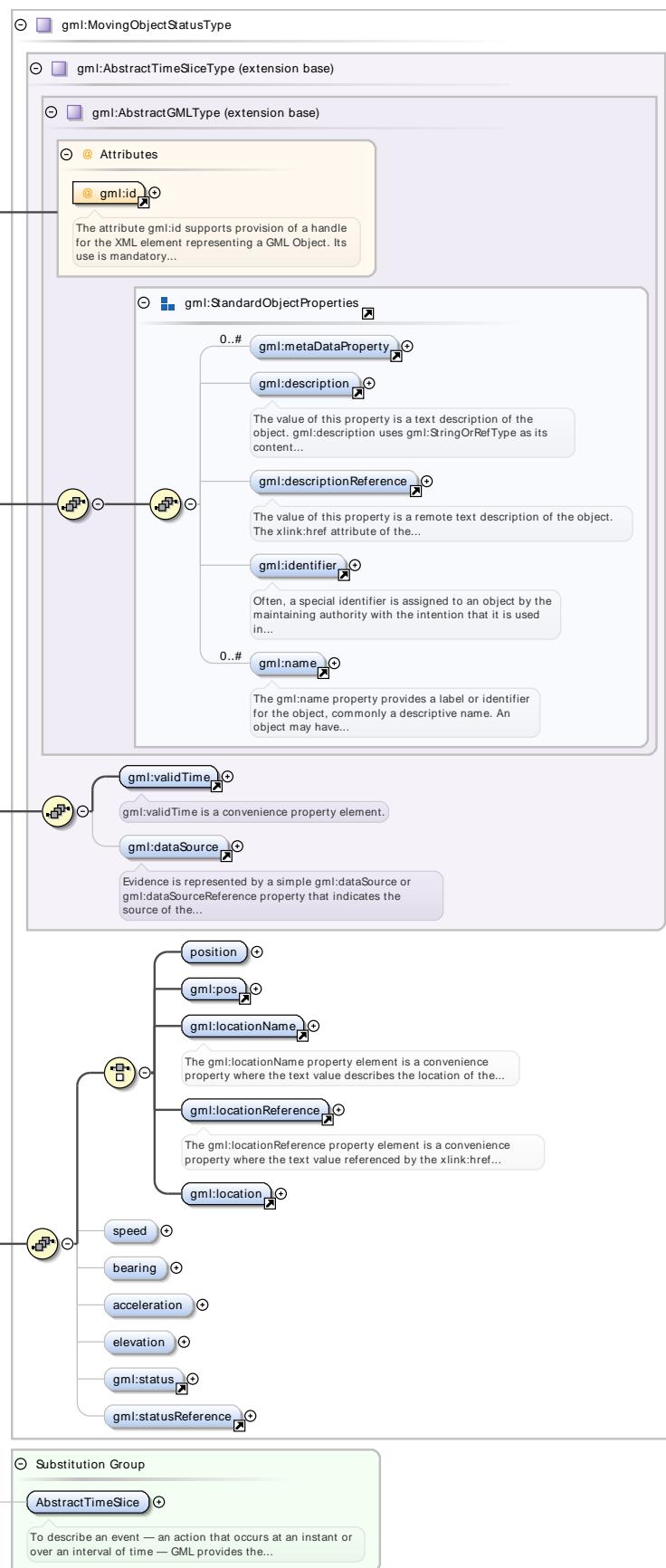


Type	<code>gml:AbstractGeneralOperationParameterPropertyType</code>																																								
Properties	content: complex																																								
Substitution Group	<ul style="list-style-type: none"> • <code>gml:usesParameter</code> 																																								
Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:parameter</code> 																																								
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Element `gml:MovingObjectStatus`

Namespace	<code>http://www.opengis.net/gml/3.2</code>
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Diagram



Type	gml:MovingObjectStatusType
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Properties	content: complex
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Substitution Group Affiliation	<ul style="list-style-type: none"> • <code>gml:AbstractTimeSlice</code> 					
Attributes	QName	Type	Use			
	<code>gml:id</code>	ID	required	<p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>		

Element `gml:MovingObjectStatusType` / `gml:position`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of the <code>gml:GeometryPropertyType</code> element. It is an abstract class (indicated by a hollow square icon) that inherits from <code>gml:AbstractGeometry</code> (indicated by a hollow square icon with a cross). The <code>position</code> element is shown as a reference to <code>gml:AbstractGeometry</code>. The <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code> are shown as groups of attributes. Callouts provide additional context: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...' and 'Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or...'. A note at the bottom states: 'The AbstractGeometry element is the abstract head of the substitution group for all geometry elements of GML. This...' and 'A geometric property may either be any geometry element encapsulated in an element of this type or an XLink reference...'.</p>				
Type	<code>gml:GeometryPropertyType</code>				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	<code>gml:remoteSchema</code>	anyURI			optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional
	<code>owns</code>	boolean		false	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
	<code>xlink:role</code>	<code>xlink:roleType</code>			optional
	<code>xlink:show</code>	<code>xlink:showType</code>			optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

Element `gml:MovingObjectStatusType` / `gml:speed`

Namespace	http://www.opengis.net/gml/3.2				
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Diagram							
Type	gml:MeasureType						
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	complex	minOccurs:	0		
content:	complex						
minOccurs:	0						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Element gml:MovingObjectStatusType / gml:bearing

Namespace	http://www.opengis.net/gml/3.2																																																											
Diagram																																																												
Type	gml:DirectionPropertyType																																																											
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>					content:	complex	minOccurs:	0																																																			
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xlink:title	xlink:titleAttrType			optional																																																								
xlink:type	xlink:typeType	simple		optional																																																								

Element `gml:MovingObjectStatusType` / `gml:acceleration`

Namespace	http://www.opengis.net/gml/3.2								
Diagram	<p>The diagram shows the <code>gml:acceleration</code> element within the <code>gml:MovingObjectStatusType</code> element. The <code>gml:acceleration</code> element is connected to a <code>gml:MeasureType</code> component. The <code>gml:MeasureType</code> component contains a <code>double</code> primitive type, attributes including <code>@ uom</code>, and a note stating that <code>gml:MeasureType</code> supports recording an amount encoded as a value of XML Schema double, together with a units of measure.</p>								
Type	<code>gml:MeasureType</code>								
Properties	<p>content: complex</p> <p>minOccurs: 0</p>								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>uom</code></td> <td><code>gml:UomIdentifier</code></td> <td>required</td> </tr> </tbody> </table>			QName	Type	Use	<code>uom</code>	<code>gml:UomIdentifier</code>	required
QName	Type	Use							
<code>uom</code>	<code>gml:UomIdentifier</code>	required							

Element `gml:MovingObjectStatusType` / `gml:elevation`

Namespace	http://www.opengis.net/gml/3.2								
Diagram	<p>The diagram shows the <code>gml:elevation</code> element within the <code>gml:MovingObjectStatusType</code> element. The <code>gml:elevation</code> element is connected to a <code>gml:MeasureType</code> component. The <code>gml:MeasureType</code> component contains a <code>double</code> primitive type, attributes including <code>@ uom</code>, and a note stating that <code>gml:MeasureType</code> supports recording an amount encoded as a value of XML Schema double, together with a units of measure.</p>								
Type	<code>gml:MeasureType</code>								
Properties	<p>content: complex</p> <p>minOccurs: 0</p>								
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QName	Type	Use							
<code>uom</code>	<code>gml:UomIdentifier</code>	required							

Element `gml:status`

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram shows the <code>gml:status</code> element within the <code>gml:MovingObjectStatusType</code> element. The <code>gml:status</code> element is connected to a <code>gml:StringOrRefType</code> component. The <code>gml:StringOrRefType</code> component contains a <code>string</code> primitive type, attributes including <code>@ uom</code>, and a note stating that <code>gml:StringOrRefType</code> supports character strings in XML. It also includes an <code>gml:AssociationAttributeGroup</code> component with a note about XLink components.</p>		

Type	gml:StringOrRefType			
Properties	content: complex			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Element gml:statusReference

Namespace	http://www.opengis.net/gml/3.2				
Diagram					
Type	gml:ReferenceType				
Properties	content: complex				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Element gml:topoComplexProperty

Namespace	http://www.opengis.net/gml/3.2				
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Diagram																																									
Type	gml:TopoComplexPropertyType																																								
Properties	content: complex																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Element gml:multiPointProperty

Namespace	http://www.opengis.net/gml/3.2																														
Diagram																															
Type	gml:MultiPointPropertyType																														
Properties	content: complex																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional
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QName	Type	Fixed	Default	Use
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Element **gml:multiCurveProperty**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram	<p>The diagram illustrates the structure of the gml:MultiCurvePropertyType. It shows the following components and their relationships:</p> <ul style="list-style-type: none"> gml:MultiCurvePropertyType (represented by a purple square icon) is the main type. gml:AssociationAttributeGroup (represented by an orange square icon) is associated with gml:MultiCurvePropertyType. A callout box notes: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group..." gml:OwnershipAttributeGroup (represented by an orange square icon) is associated with gml:MultiCurvePropertyType. A callout box notes: "Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or..." gml:MultiCurve (represented by a green square icon) is associated with gml:MultiCurvePropertyType. A callout box notes: "A gml:MultiCurve is defined by one or more gml:AbstractCurves. The members of the geometric aggregate may be specified..." multiCurveProperty (represented by a blue rounded rectangle icon) is a specific instance of gml:MultiCurvePropertyType. 																																																							
Type	gml:MultiCurvePropertyType																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Element **gml:multiSurfaceProperty**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram illustrates the structure of the <code>gml:MultiSurfacePropertyType</code>. It shows the element <code>multiSurfaceProperty</code> pointing to the <code>gml:MultiSurface</code> type. The <code>gml:MultiSurface</code> type is defined by one or more <code>gml:AbstractSurfaces</code>. The diagram also highlights the <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code> within the attributes of the property type.</p>																																																							
Type	<code>gml:MultiSurfacePropertyType</code>																																																							
Properties	content: complex																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>owns</code></td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td><code>xlink:actuate</code></td><td><code>xlink:actuateType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:arcrole</code></td><td><code>xlink:arcroleType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:href</code></td><td><code>xlink:hrefType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:role</code></td><td><code>xlink:roleType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:show</code></td><td><code>xlink:showType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:title</code></td><td><code>xlink:titleAttrType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:type</code></td><td><code>xlink:typeType</code></td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	anyURI			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	<code>owns</code>	boolean		false	optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional	<code>xlink:role</code>	<code>xlink:roleType</code>			optional	<code>xlink:show</code>	<code>xlink:showType</code>			optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional
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<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional																																																				

Element `gml:multiSolidProperty`

Namespace	<code>http://www.opengis.net/gml/3.2</code>
Diagram	<p>The diagram illustrates the structure of the <code>gml:MultiSolidPropertyType</code>. It shows the element <code>multiSolidProperty</code> pointing to the <code>gml:MultiSolid</code> type. The <code>gml:MultiSolid</code> type is defined by one or more <code>gml:AbstractSolids</code>. The diagram also highlights the <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code> within the attributes of the property type.</p>
Type	<code>gml:MultiSolidPropertyType</code>
Properties	content: complex

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Element **gml:multiGeometryProperty**

Namespace	http://www.opengis.net/gml/3.2																																																																							
Diagram	<p>The diagram illustrates the structure of the gml:MultiGeometryPropertyType. It shows the following components:</p> <ul style="list-style-type: none"> gml:MultiGeometryPropertyType (parent element) Attributes (group) <ul style="list-style-type: none"> gml:AssociationAttributeGroup (highlighted in orange) gml:OwnershipAttributeGroup (highlighted in orange) gml:AbstractGeometricAggregate (highlighted in yellow) Annotations: <ul style="list-style-type: none"> XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,... Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or... gml:AbstractGeometricAggregate is the abstract head of the substitution group for all geometric aggregates. A property that has a geometric aggregate as its value domain may either be an appropriate geometry element... 																																																																							
Type	gml:MultiGeometryPropertyType																																																																							
Properties	content: complex																																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td><td></td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td><td></td></tr> </tbody> </table>						QName	Type	Fixed	Default	Use		gml:remoteSchema	anyURI			optional		nilReason	gml:NilReasonType			optional		owns	boolean		false	optional		xlink:actuate	xlink:actuateType			optional		xlink:arcrole	xlink:arcroleType			optional		xlink:href	xlink:hrefType			optional		xlink:role	xlink:roleType			optional		xlink:show	xlink:showType			optional		xlink:title	xlink:titleAttrType			optional		xlink:type	xlink:typeType	simple		optional	
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xlink:title	xlink:titleAttrType			optional																																																																				
xlink:type	xlink:typeType	simple		optional																																																																				

Element **gml:pointArrayProperty**

Namespace	http://www.opengis.net/gml/3.2
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Diagram									
Type	gml:PointArrayPropertyType								
Properties	content: complex								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Element gml:curveArrayProperty

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	gml:CurveArrayPropertyType
Properties	content: complex

Element gml:surfaceArrayProperty

Namespace	http://www.opengis.net/gml/3.2
Diagram	

Type	gml:SurfaceArrayPropertyType			
Properties	content: complex			
Attributes	QName	Type	Default	Use
	owns	boolean	false	optional

Element **gml:solidArrayProperty**

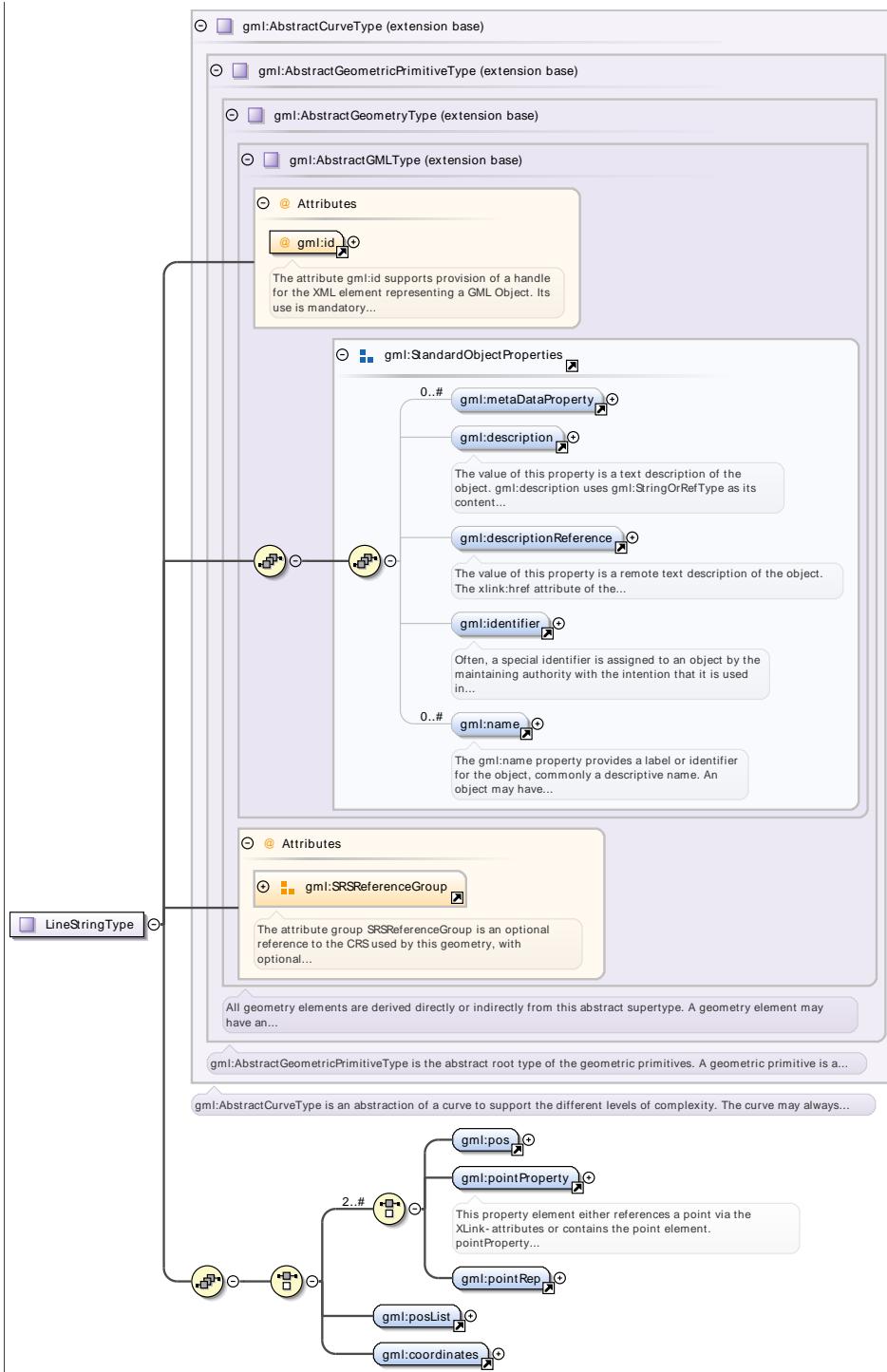
Namespace	http://www.opengis.net/gml/3.2			
Diagram				
Type	gml:SolidArrayPropertyType			
Properties	content: complex			
Attributes	QName	Type	Default	Use
	owns	boolean	false	optional

Complex Type(s)

Complex Type **gml:LineStringType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of gml:AbstractCurveType

Type	QName	Type	Use
Attributes	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

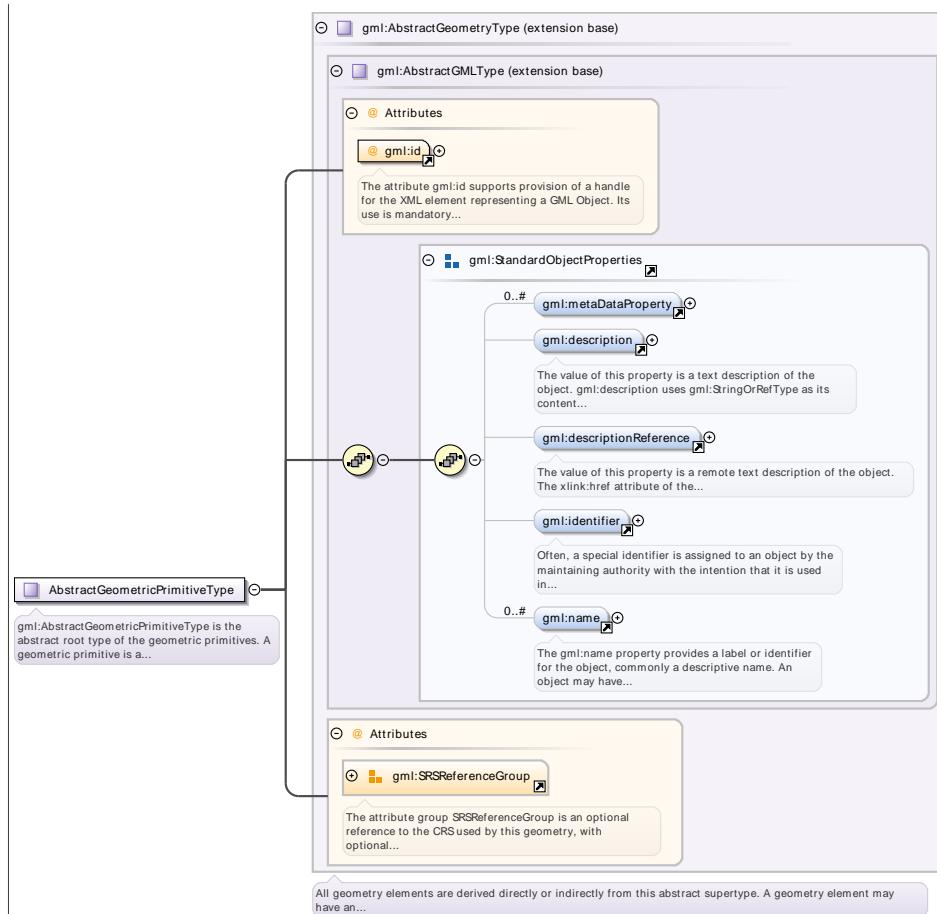
Complex Type `gml:AbstractCurveType`

Namespace	http://www.opengis.net/gml/3.2																												
Annotations	<p><code>gml:AbstractCurveType</code> is an abstraction of a curve to support the different levels of complexity. The curve may always be viewed as a geometric primitive, i.e. is continuous.</p>																												
Diagram	<p>The diagram illustrates the inheritance structure of the <code>gml:AbstractCurveType</code> complex type. It is derived from three abstract base types: <code>gml:AbstractGeometricPrimitiveType</code>, <code>gml:AbstractGeometryType</code>, and <code>gml:AbstractGMLType</code>. The <code>gml:AbstractCurveType</code> class itself is annotated with a description: "gml:AbstractCurveType is an abstraction of a curve to support the different levels of complexity. The curve may always be viewed as a geometric primitive, i.e. is continuous." The <code>gml:AbstractGeometricPrimitiveType</code> base type has an attribute <code>gml:id</code> with a detailed description: "The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory." The <code>gml:AbstractGeometryType</code> base type includes a group of attributes: <code>gml:metaDataProperty</code>, <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, and <code>gml:name</code>. Each of these attributes has its own detailed description. The <code>gml:AbstractGMLType</code> base type has an attribute group <code>gml:SRSReferenceGroup</code> with a description: "The attribute group <code>SRSReferenceGroup</code> is an optional reference to the CRS used by this geometry, with optional..." A general note at the bottom states: "All geometry elements are derived directly or indirectly from this abstract supertype. A geometry element may have an..."</p>																												
Type	extension of <code>gml:AbstractGeometricPrimitiveType</code>																												
Properties	abstract: true																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> <td></td> </tr> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> <td></td> </tr> <tr> <td></td> <td colspan="3">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> <tr> <td><code>srsDimension</code></td> <td>positiveInteger</td> <td>optional</td> <td></td> </tr> <tr> <td><code>srsName</code></td> <td>anyURI</td> <td>optional</td> <td></td> </tr> <tr> <td><code> uomLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		<code>axisLabels</code>	<code>gml:NCNameList</code>	optional		<code>gml:id</code>	ID	required			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			<code>srsDimension</code>	positiveInteger	optional		<code>srsName</code>	anyURI	optional		<code> uomLabels</code>	<code>gml:NCNameList</code>	optional	
QName	Type	Use																											
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional																											
<code>gml:id</code>	ID	required																											
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<code>srsDimension</code>	positiveInteger	optional																											
<code>srsName</code>	anyURI	optional																											
<code> uomLabels</code>	<code>gml:NCNameList</code>	optional																											

Complex Type `gml:AbstractGeometricPrimitiveType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p><code>gml:AbstractGeometricPrimitiveType</code> is the abstract root type of the geometric primitives. A geometric primitive is a geometric object that is not decomposed further into other primitives in the system. All primitives are oriented in the direction implied by the sequence of their coordinate tuples.</p>

Diagram

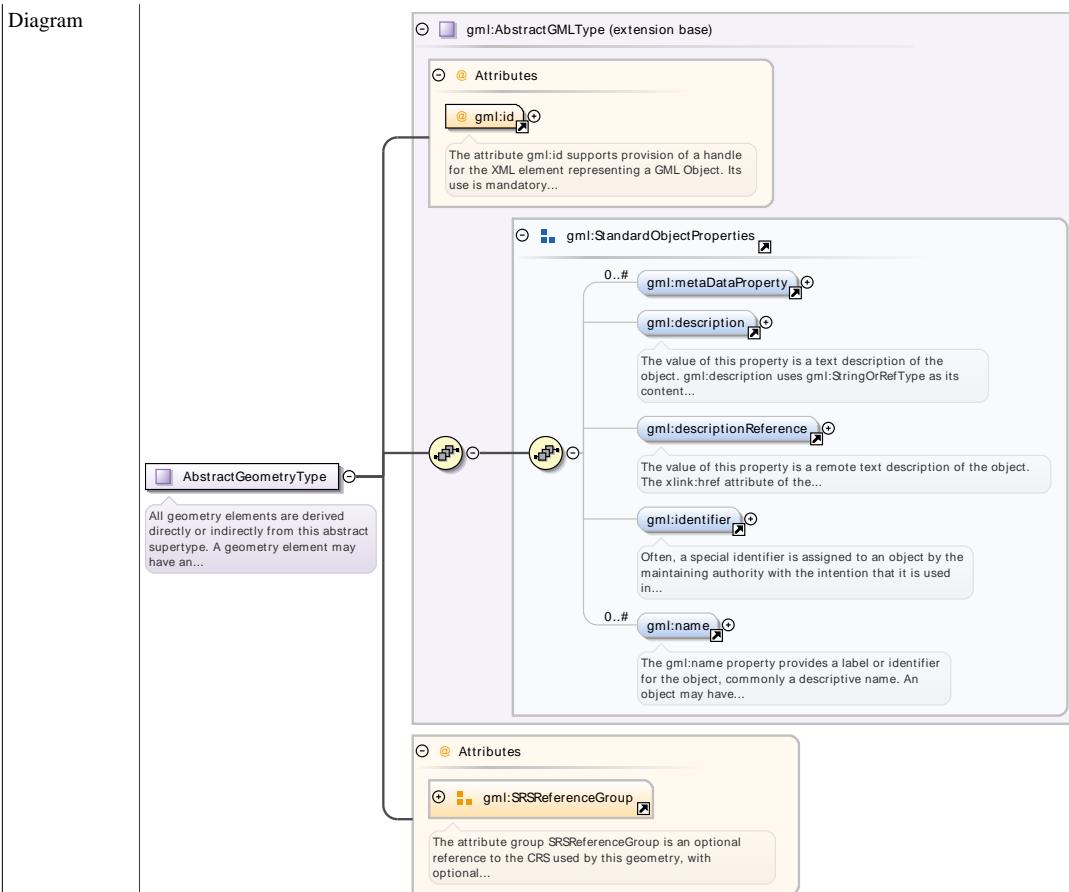


Type	extension of gml:AbstractGeometryType		
Properties	abstract: true		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type gml:AbstractGeometryType

Namespace	http://www.opengis.net/gml/3.2
Annotations	All geometry elements are derived directly or indirectly from this abstract supertype. A geometry element may have an identifying attribute (gml:id), one or more names (elements identifier and name) and a description (elements description and descriptionReference) . It may be associated with a spatial reference system (attribute group gml:SRSReferenceGroup). The following rules shall be adhered to: - Every geometry type shall derive from this abstract type. - Every geometry element (i.e. an element of a geometry type) shall be directly or indirectly in the substitution group of AbstractGeometry.

Diagram



Type	extension of gml:AbstractGMLType		
Properties	abstract: true		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type **gml:AbstractGMLType**

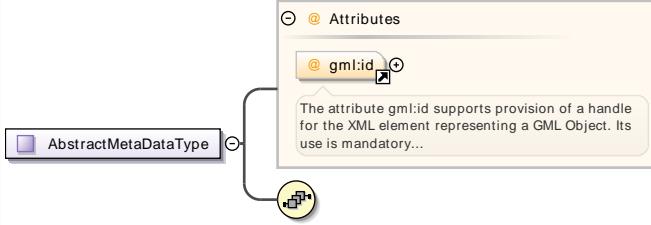
Namespace	http://www.opengis.net/gml/3.2
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Diagram													
Properties	<p>abstract: true</p>												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>ID</td><td>required</td><td></td></tr> <tr> <td colspan="4">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use		gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
QName	Type	Use											
gml:id	ID	required											
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.													

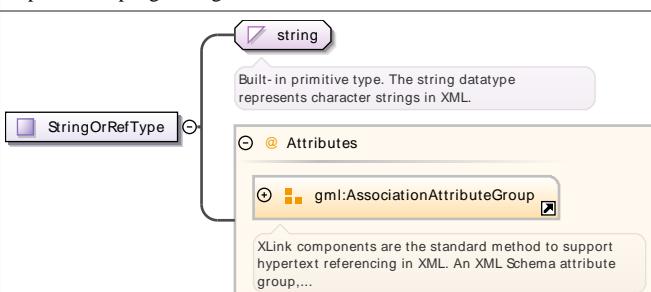
Complex Type **gml:MetaDataPropertyType**

Namespace	http://www.opengis.net/gml/3.2																																															
Diagram																																																
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>about</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td>optional</td></tr> </tbody> </table>				QName	Type	Fixed	Use	about	anyURI		optional	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																													
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xlink:title	xlink:titleAttrType		optional																																													
xlink:type	xlink:typeType	simple	optional																																													

Complex Type **gml:AbstractMetaDataType**

Namespace	http://www.opengis.net/gml/3.2								
Diagram	 <p>The diagram shows the 'AbstractMetaDataType' complex type. A callout box for the attribute '@gml:id' contains the text: 'The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory...'.</p>								
Properties	<p>abstract: true</p> <p>mixed: true</p>								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	gml:id	ID	optional	<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	
QName	Type	Use							
gml:id	ID	optional							

Complex Type **gml:StringOrRefType**

Namespace	http://www.opengis.net/gml/3.2																																										
Diagram	 <p>The diagram shows the 'StringOrRefType' complex type. A callout box for the built-in primitive type 'string' contains the text: 'Built-in primitive type. The string datatype represents character strings in XML.' Another callout box for the attribute 'gml:AssociationAttributeGroup' contains the text: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....'</p>																																										
Type	extension of string																																										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional		
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xlink:href	xlink:hrefType		optional																																								
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xlink:show	xlink:showType		optional																																								
xlink:title	xlink:titleAttrType		optional																																								
xlink:type	xlink:typeType	simple	optional																																								

Complex Type **gml:ReferenceType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:ReferenceType is intended to be used in application schemas directly, if a property element shall use a "by-reference only" encoding.

Diagram																																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gm1:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gm1:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gm1:remoteSchema	anyURI			optional	nilReason	gm1:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gm1:remoteSchema	anyURI			optional																																																				
nilReason	gm1:NilReasonType			optional																																																				
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Complex Type **gm1:CodeWithAuthorityType**

Namespace	http://www.opengis.net/gml/3.2						
Annotations	gm1:CodeWithAuthorityType requires that the codeSpace attribute is provided in an instance.						
Diagram							
Type	restriction of gm1:CodeType						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>codeSpace</td><td>anyURI</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	required
QName	Type	Use					
codeSpace	anyURI	required					

Complex Type **gm1:CodeType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gm1:CodeType is a generalized type to be used for a term, keyword or name. It adds a XML attribute codeSpace to a term, where the value of the codeSpace attribute (if present) shall indicate a dictionary, thesaurus, classification scheme, authority, or pattern for the term.

Diagram	<p>Diagram illustrating the schema structure for <code>gml:CodeType</code>. It shows <code>gml:CodeType</code> inheriting from <code>string</code> and having an attribute <code>@codeSpace</code>.</p>						
Type	extension of <code>string</code>						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>codeSpace</code></td> <td><code>anyURI</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	<code>codeSpace</code>	<code>anyURI</code>	optional
QName	Type	Use					
<code>codeSpace</code>	<code>anyURI</code>	optional					

Complex Type `gml:DirectPositionType`

Namespace	http://www.opengis.net/gml/3.2																	
Annotations	<p>Direct position instances hold the coordinates for a position within some coordinate reference system (CRS). Since direct positions, as data types, will often be included in larger objects (such as geometry elements) that have references to CRS, the <code>srsName</code> attribute will in general be missing, if this particular direct position is included in a larger element with such a reference to a CRS. In this case, the CRS is implicitly assumed to take on the value of the containing object's CRS. If no <code>srsName</code> attribute is given, the CRS shall be specified as part of the larger context this geometry element is part of, typically a geometric object like a point, curve, etc.</p>																	
Diagram	<p>Diagram illustrating the schema structure for <code>gml:DirectPositionType</code>. It shows <code>gml:DirectPositionType</code> inheriting from <code>gml:doubleList</code> and having an attribute group <code>gml:SRSReferenceGroup</code>.</p>																	
Type	extension of <code>gml:doubleList</code>																	
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> <tr> <td><code>srsDimension</code></td> <td><code>positiveInteger</code></td> <td>optional</td> </tr> <tr> <td><code>srsName</code></td> <td><code>anyURI</code></td> <td>optional</td> </tr> <tr> <td><code> uomLabels</code></td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code> uomLabels</code>	<code>gml:NCNameList</code>	optional		
QName	Type	Use																
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional																
<code>srsDimension</code>	<code>positiveInteger</code>	optional																
<code>srsName</code>	<code>anyURI</code>	optional																
<code> uomLabels</code>	<code>gml:NCNameList</code>	optional																

Complex Type `gml:Point.PropertyType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<p>A property that has a point as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.</p>		
Diagram	<p>Diagram illustrating the schema structure for <code>gml:Point.PropertyType</code>. It shows <code>gml:Point.PropertyType</code> containing an attribute group <code>gml:AssociationAttributeGroup</code> and an attribute group <code>gml:OwnershipAttributeGroup</code>, and containing a <code>gml:Point</code> element.</p>		

Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Complex Type **gml:PointType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>Diagram illustrating the inheritance structure of gml:PointType:</p> <ul style="list-style-type: none"> gml:AbstractGeometricPrimitiveType (extension base) gml:AbstractGeometryType (extension base) gml:AbstractGMLType (extension base) Attributes <ul style="list-style-type: none"> gml:id: The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory... gml:StandardObjectProperties <ul style="list-style-type: none"> gml:metaDataProperty: 0..# gml:description: The value of this property is a text description of the object. <code>gml:description</code> uses <code>gml:StringOrRefType</code> as its content... gml:descriptionReference: The value of this property is a remote text description of the object. The <code>xlink:href</code> attribute of the... gml:identifier: Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in... gml:name: 0..# The <code>gml:name</code> property provides a label or identifier for the object, commonly a descriptive name. An object may have... gml:SRSReferenceGroup: The attribute group <code>SRSReferenceGroup</code> is an optional reference to the CRS used by this geometry, with optional... <p>All geometry elements are derived directly or indirectly from this abstract supertype. A geometry element may have an...</p> <p>gml:AbstractGeometricPrimitiveType is the abstract root type of the geometric primitives. A geometric primitive is a...</p>
Type	extension of <code>gml:AbstractGeometricPrimitiveType</code>

Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type **gml:CoordinatesType**

Namespace	http://www.opengis.net/gml/3.2																
Annotations	<p>This type is deprecated for tuples with ordinate values that are numbers. CoordinatesType is a text string, intended to be used to record an array of tuples or coordinates. While it is not possible to enforce the internal structure of the string through schema validation, some optional attributes have been provided in previous versions of GML to support a description of the internal structure. These attributes are deprecated. The attributes were intended to be used as follows: Decimal symbol used for a decimal point (default=".") stop or period) cs symbol used to separate components within a tuple or coordinate string (default="," a comma) ts symbol used to separate tuples or coordinate strings (default=" " a space) Since it is based on the XML Schema string type, CoordinatesType may be used in the construction of tables of tuples or arrays of tuples, including ones that contain mixed text and numeric values.</p>																
Diagram	<pre> classDiagram class CoordinatesType { string @ decimal @ cs @ ts } </pre> <p>This diagram shows the CoordinatesType class as a string type. It has three attributes: decimal, cs, and ts. A callout box provides the following information: "This type is deprecated for tuples with ordinate values that are numbers. CoordinatesType is a text string, intended to..." and "Built-in primitive type. The string datatype represents character strings in XML.".</p>																
Type	extension of string																
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>cs</td> <td>string</td> <td>,</td> <td>optional</td> </tr> <tr> <td>decimal</td> <td>string</td> <td>.</td> <td>optional</td> </tr> <tr> <td>ts</td> <td>string</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	cs	string	,	optional	decimal	string	.	optional	ts	string		optional
QName	Type	Default	Use														
cs	string	,	optional														
decimal	string	.	optional														
ts	string		optional														

Complex Type **gml:DirectPositionListType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>posList instances (and other instances with the content model specified by DirectPositionListType) hold the coordinates for a sequence of direct positions within the same coordinate reference system (CRS). If no srsName attribute is given, the CRS shall be specified as part of the larger context this geometry element is part of, typically a geometric object like a point, curve, etc. The optional attribute count specifies the number of direct positions in the list. If the attribute count is present then the attribute srsDimension shall be present, too. The number of entries in the list is equal to the product of the dimensionality of the coordinate reference system (i.e. it is a derived value of the coordinate reference system definition) and the number of direct positions.</p>
Diagram	<pre> classDiagram class DirectPositionListType { gml:doubleList @ gml:SRSReferenceGroup @ count } </pre> <p>This diagram shows the DirectPositionListType class as a gml:doubleList type. It has two attributes: gml:SRSReferenceGroup and count. A callout box provides the following information: "posList instances (and other instances with the content model specified by DirectPositionListType) hold the coordinates..." and "The attribute group SRSReferenceGroup is an optional reference to the CRS used by this geometry, with optional...".</p>
Type	extension of gml:doubleList

Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	count	positiveInteger	optional
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type **gml:TimePrimitivePropertyType**

Namespace	http://www.opengis.net/gml/3.2					
Annotations	gml:TimePrimitivePropertyType provides a standard content model for associations between an arbitrary member of the substitution group whose head is gml:AbstractTimePrimitive and another object.					
Diagram	<p>The diagram illustrates the structure of the gml:TimePrimitivePropertyType. It is a complex type that inherits from gml:AbstractTimePrimitive. The type is annotated with the following information:</p> <ul style="list-style-type: none"> gml:TimePrimitivePropertyType provides a standard content model for associations between an arbitrary member of the substitution group whose head is gml:AbstractTimePrimitive. gml:AbstractTimePrimitive acts as the head of a substitution group for geometric and topological temporal primitives. Attributes (grouped under gml:AssociationAttributeGroup): <ul style="list-style-type: none"> XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group... gml:OwnershipAttributeGroup: Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or... 					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI				optional
	nilReason	gml:NilReasonType				optional
	owns	boolean		false		optional
	xlink:actuate	xlink:actuateType				optional
	xlink:arcrole	xlink:arcroleType				optional
	xlink:href	xlink:hrefType				optional
	xlink:role	xlink:roleType				optional
	xlink:show	xlink:showType				optional
	xlink:title	xlink:titleAttrType				optional
	xlink:type	xlink:typeType	simple			optional

Complex Type **gml:AbstractTimePrimitiveType**

Namespace	http://www.opengis.net/gml/3.2					
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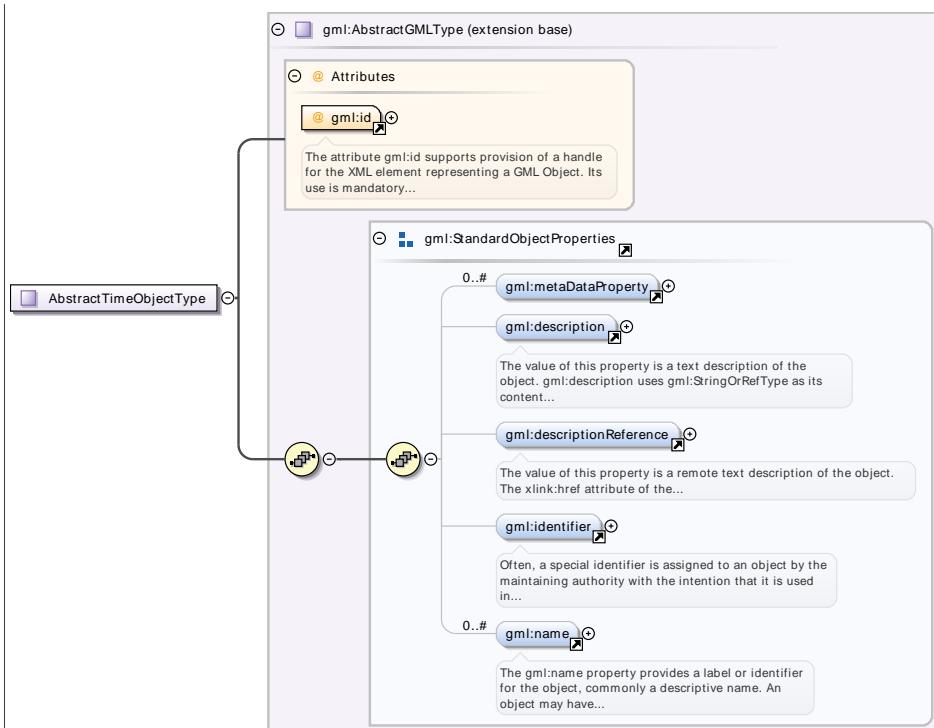
Diagram

	<pre> classDiagram gml:AbstractTimeObjectType < -- gml:AbstractGMLType gml:AbstractTimeObjectType < -- gml:StandardObjectProperties gml:AbstractTimeObjectType "0..1" -- "1" gml:AbstractTimePrimitiveType gml:AbstractTimeObjectType "0..#" -- "0..#" relatedTime classDiagram </pre>									
Type	extension of gml:AbstractTimeObjectType									
Properties	abstract: true									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>ID</td><td>required</td></tr> <tr> <td></td><td colspan="2">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
gml:id	ID	required								
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Complex Type gml:AbstractTimeObjectType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gm1:AbstractGMLType</code>									
Properties	abstract: true									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td><code>gm1:id</code></td> <td>ID</td> <td>required</td> <td></td> </tr> </tbody> </table> <p>The attribute <code>gm1:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	QName	Type	Use		<code>gm1:id</code>	ID	required		
QName	Type	Use								
<code>gm1:id</code>	ID	required								

Complex Type `gm1:RelatedTimeType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<p><code>gm1:RelatedTimeType</code> provides a content model for indicating the relative position of an arbitrary member of the substitution group whose head is <code>gm1:AbstractTimePrimitive</code>. It extends the generic <code>gm1:TimePrimitivePropertyType</code> with an XML attribute <code>relativePosition</code>, whose value is selected from the set of 13 temporal relationships identified by Allen (1983)</p>		
Diagram	<p>Diagram illustrating the inheritance of <code>RelatedTimeType</code> from <code>gm1:TimePrimitivePropertyType</code>. The diagram shows the <code>gm1:AbstractTimePrimitive</code> class and its attribute:</p> <ul style="list-style-type: none"> <code>relativePosition</code>: <code>gm1:TimePrimitivePropertyType</code> provides a standard content model for associations between an arbitrary member of the... 		

Type	extension of <code>gml:TimePrimitivePropertyType</code>				
Attributes	QName	Type	Fixed	Default	Use
	<code>gml:remoteSchema</code>	anyURI			optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional
	<code>owns</code>	boolean		false	optional
	<code>relativePosition</code>	restriction of string			optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
	<code>xlink:role</code>	<code>xlink:roleType</code>			optional
	<code>xlink:show</code>	<code>xlink:showType</code>			optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

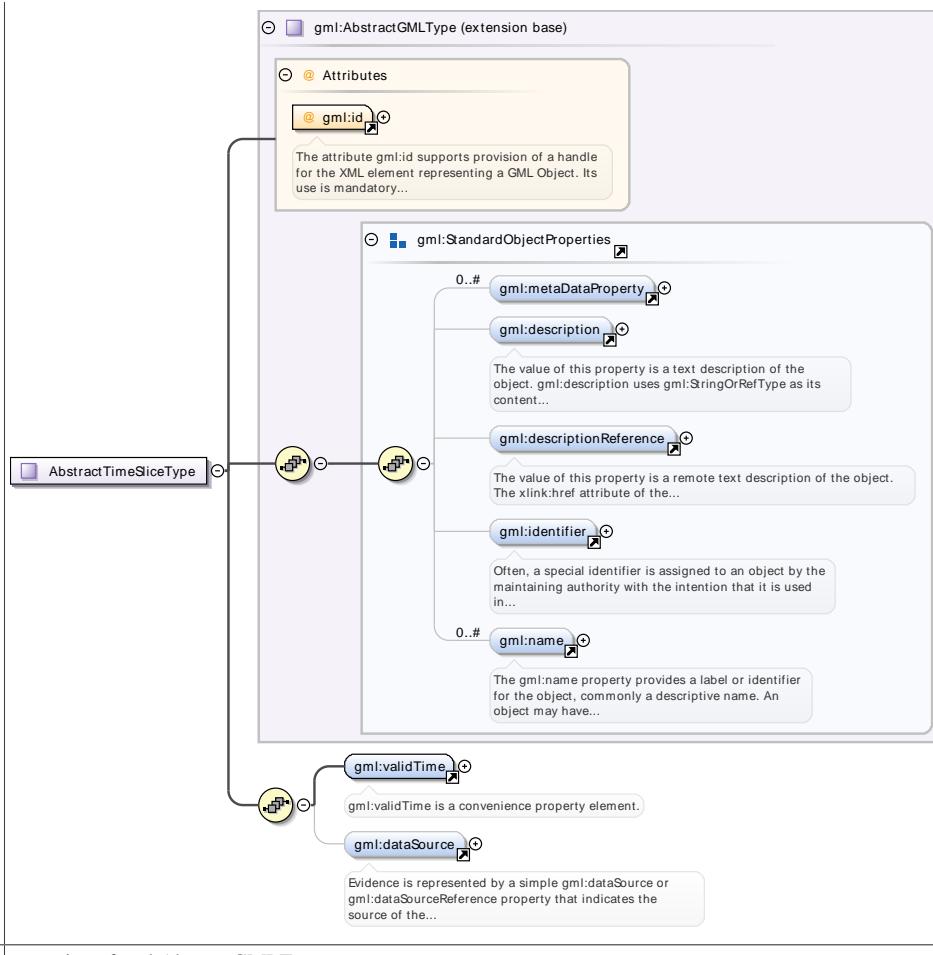
Complex Type `gml:History.PropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>Diagram illustrating the structure of <code>gml:History.PropertyType</code>. The class <code>History.PropertyType</code> has an aggregation relationship to the <code>gml:OwnershipAttributeGroup</code>. This group contains attributes <code>owns</code> (boolean) and <code>relativePosition</code> (restriction of string). There is also a multiplicity relationship to <code>gml:AbstractTimeSlice</code> with multiplicity 1..#.</p>				
Attributes	QName	Type	Default	Use	
	<code>owns</code>	boolean	false	optional	

Complex Type `gml:AbstractTimeSliceType`

Namespace	http://www.opengis.net/gml/3.2				
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Diagram

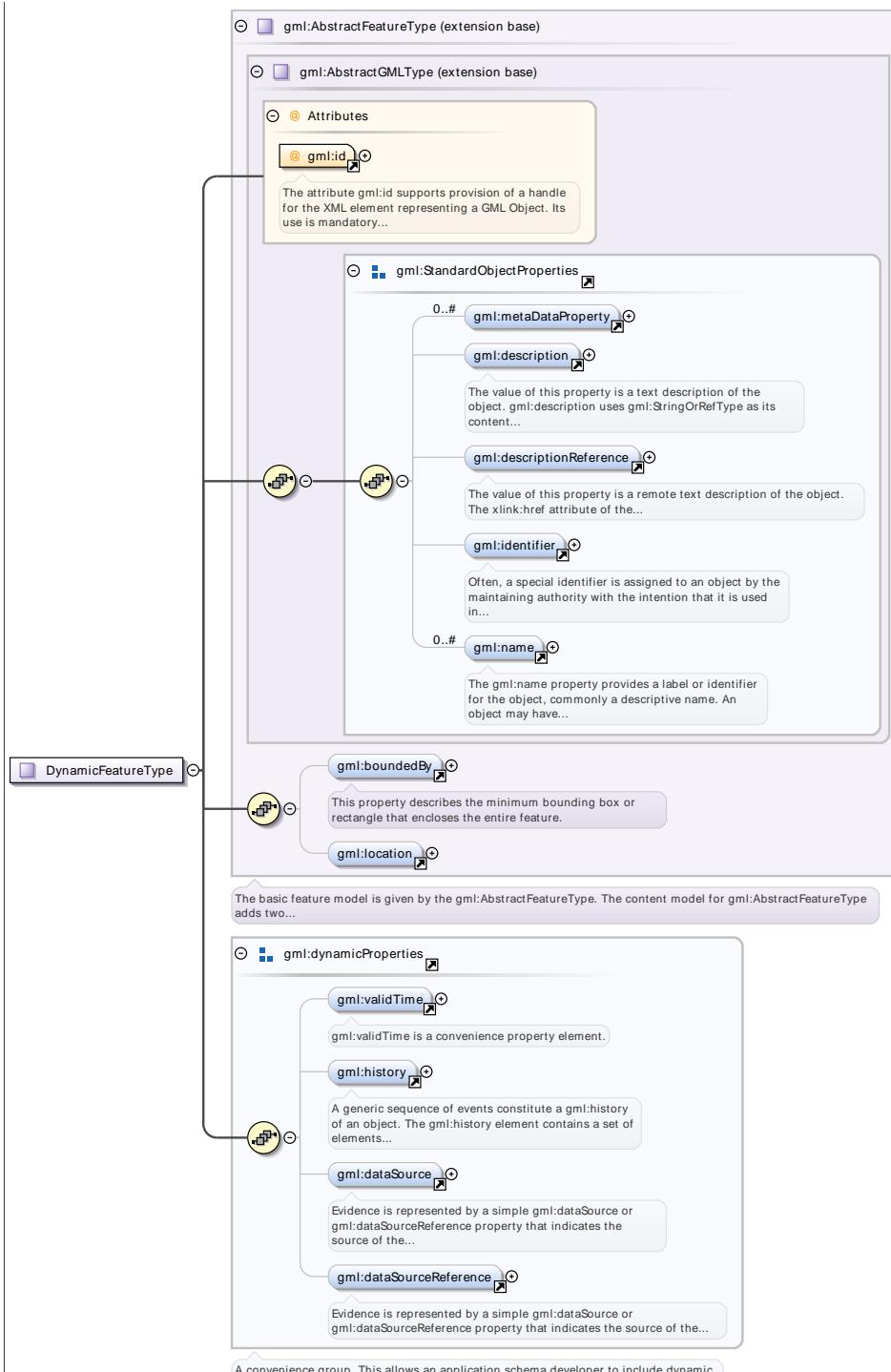


Type	extension of <code>gm:AbstractGMLType</code>											
Properties	abstract: true											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gm:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gm:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>			QName	Type	Use	<code>gm:id</code>	ID	required		The attribute <code>gm:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use										
<code>gm:id</code>	ID	required										
	The attribute <code>gm:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.											

Complex Type `gm:DynamicFeatureType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractFeatureType</code>			
Attributes	QName	Type	Use	
	<code>gml:id</code>	ID	required	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:AbstractFeatureType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The basic feature model is given by the <code>gml:AbstractFeatureType</code> . The content model for <code>gml:AbstractFeatureType</code> adds two specific properties suitable for geographic features to the content model defined in <code>gml:AbstractGMLType</code> . The value of the

gml:boundedBy property describes an envelope that encloses the entire feature instance, and is primarily useful for supporting rapid searching for features that occur in a particular location. The value of the gml:location property describes the extent, position or relative location of the feature.

Diagram	<p>The diagram illustrates the schema structure for <code>gml:AbstractFeatureType</code>. It inherits from <code>gml:AbstractGMLType</code> (extension base). It has an association with <code>gml:StandardObjectProperties</code> (multiplicity 0..#) and an association with <code>gml:Envelope</code> (multiplicity 0..#). The <code>gml:StandardObjectProperties</code> block contains properties: <code>gml:id</code> (mandatory), <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, <code>gml:name</code>, <code>gml:boundedBy</code>, and <code>gml:location</code>. Detailed descriptions are provided for each property.</p>									
Type	extension of <code>gml:AbstractGMLType</code>									
Properties	abstract: true									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:id</code></td><td>ID</td><td>required</td></tr> <tr> <td></td><td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
<code>gml:id</code>	ID	required								
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Complex Type `gml:BoundingShapeType`

Namespace	http://www.opengis.net/gml/3.2						
Diagram	<p>The diagram illustrates the schema structure for <code>BoundingShapeType</code>. It inherits from <code>AbstractFeatureType</code>. It has an association with <code>StandardObjectProperties</code> (multiplicity 0..#) and an association with <code>Envelope</code> (multiplicity 0..#). The <code>StandardObjectProperties</code> block contains properties: <code>gml:id</code> (mandatory), <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, <code>gml:name</code>, <code>gml:boundedBy</code>, and <code>gml:location</code>. The <code>Envelope</code> block contains properties: <code>gml:Envelope</code> and <code>gml:Null</code>. Detailed descriptions are provided for each property.</p>						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	<code>nilReason</code>	<code>gml:NilReasonType</code>	optional
QName	Type	Use					
<code>nilReason</code>	<code>gml:NilReasonType</code>	optional					

Complex Type `gml:EnvelopeType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram shows the <code>EnvelopeType</code> class with an association to the <code>gml:SRSReferenceGroup</code> attribute group. This group is described as an optional reference to the CRS used by this geometry. The diagram also shows associations to <code>lowerCorner</code>, <code>upperCorner</code>, <code>gml:pos</code> (with multiplicity 2), and <code>gml:coordinates</code>.</p>															
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> <tr> <td><code>srsDimension</code></td><td><code>positiveInteger</code></td><td>optional</td></tr> <tr> <td><code>srsName</code></td><td><code>anyURI</code></td><td>optional</td></tr> <tr> <td><code>uomLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional
QName	Type	Use														
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional														
<code>srsDimension</code>	<code>positiveInteger</code>	optional														
<code>srsName</code>	<code>anyURI</code>	optional														
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional														

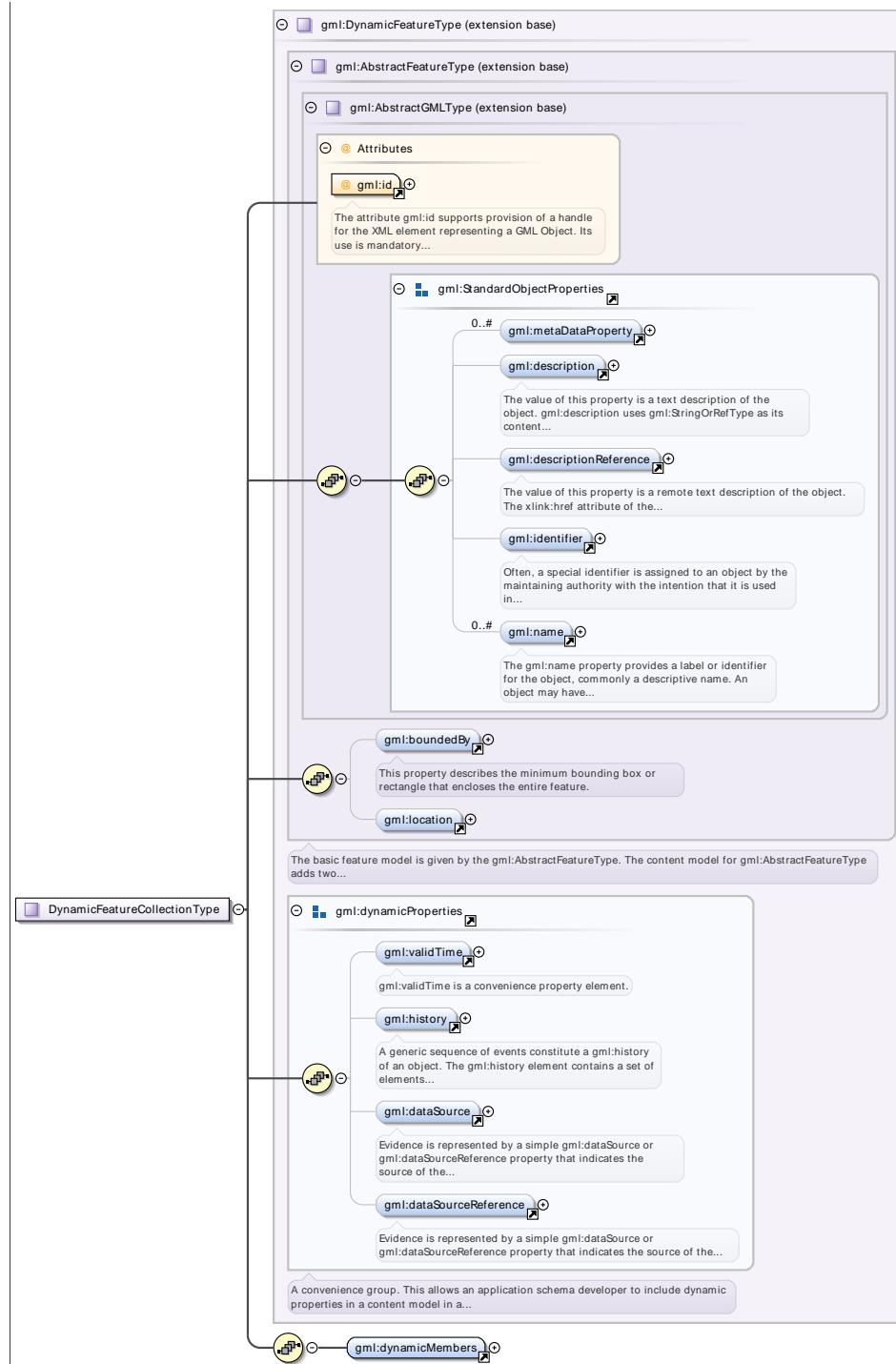
Complex Type `gml:Location.PropertyType`

Namespace	http://www.opengis.net/gml/3.2																																												
Diagram	<p>The diagram shows the <code>Location.PropertyType</code> class with an association to the <code>gml:AssociationAttributeGroup</code> attribute group. This group is described as XLink components supporting hypertext referencing. The diagram also shows associations to <code>gml:AbstractGeometry</code>, <code>gml:LocationKeyWord</code>, <code>gml:LocationString</code>, and <code>gml:Null</code>.</p>																																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td><code>anyURI</code></td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:actuate</code></td><td><code>xlink:actuateType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:arcrole</code></td><td><code>xlink:arcroleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:href</code></td><td><code>xlink:hrefType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:role</code></td><td><code>xlink:roleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:show</code></td><td><code>xlink:showType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:title</code></td><td><code>xlink:titleAttrType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:type</code></td><td><code>xlink:typeType</code></td><td>simple</td><td>optional</td></tr> </tbody> </table>					QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	<code>anyURI</code>		optional	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	<code>xlink:show</code>	<code>xlink:showType</code>		optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional
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Complex Type `gml:DynamicFeatureCollectionType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `gml:DynamicFeatureType`

Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

The attribute `gml:id` supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:DynamicFeatureMemberType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																																								
Type	extension of gm1:AbstractFeatureMemberType																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gm1:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gm1:nilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gm1:remoteSchema	anyURI			optional	nilReason	gm1:nilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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Complex Type gm1:AbstractFeatureMemberType

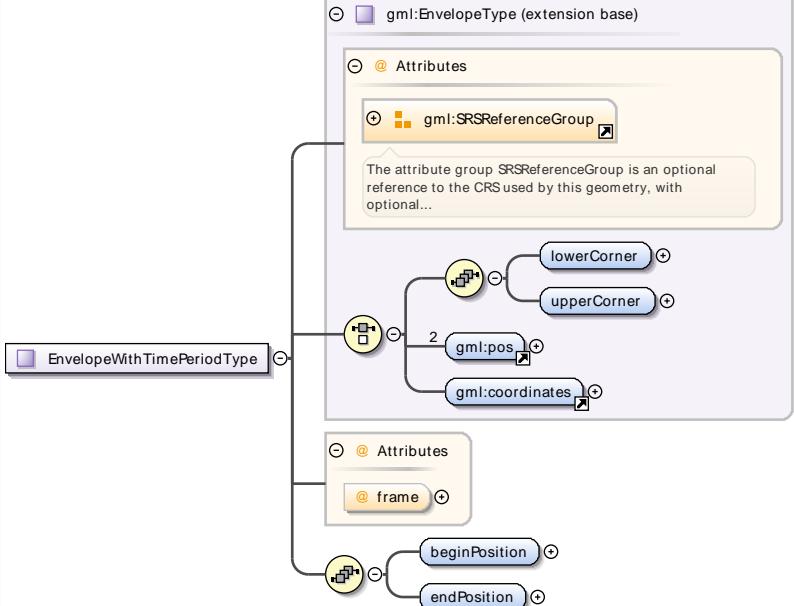
Namespace	http://www.opengis.net/gml/3.2										
Annotations	To create a collection of GML features, a property type shall be derived by extension from gm1:AbstractFeatureMemberType. By default, this abstract property type does not imply any ownership of the features in the collection. The owns attribute of gm1:OwnershipAttributeGroup may be used on a property element instance to assert ownership of a feature in the collection. A collection shall not own a feature already owned by another object.										
Diagram											
Properties	abstract: true										
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Default	Use		owns	boolean	false	optional	
QName	Type	Default	Use								
owns	boolean	false	optional								

Complex Type gm1:Feature.PropertyType

Namespace	http://www.opengis.net/gml/3.2
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Diagram	 <p>Diagram illustrating the inheritance structure and associations for the Feature.PropertyType complex type. It inherits from FeaturePropertyType and gml:AbstractFeature. It has associations with gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup.</p>																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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Complex Type **gml:EnvelopeWithTimePeriodType**

Namespace	http://www.opengis.net/gml/3.2																				
Diagram	 <p>Diagram illustrating the inheritance structure and associations for the EnvelopeWithTimePeriodType complex type. It inherits from gml:EnvelopeType and has associations with gml:SRSReferenceGroup, gml:pos, gml:coordinates, frame, beginPosition, and endPosition.</p>																				
Type	extension of gml:EnvelopeType																				
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>axisLabels</td><td>gml:NCNameList</td><td></td><td>optional</td></tr> <tr> <td>frame</td><td>anyURI</td><td>#ISO-8601</td><td>optional</td></tr> <tr> <td>srsDimension</td><td>positiveInteger</td><td></td><td>optional</td></tr> <tr> <td>srsName</td><td>anyURI</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	axisLabels	gml:NCNameList		optional	frame	anyURI	#ISO-8601	optional	srsDimension	positiveInteger		optional	srsName	anyURI		optional
QName	Type	Default	Use																		
axisLabels	gml:NCNameList		optional																		
frame	anyURI	#ISO-8601	optional																		
srsDimension	positiveInteger		optional																		
srsName	anyURI		optional																		

QName	Type	Default	Use	
uomLabels	gml:NCNameList		optional	

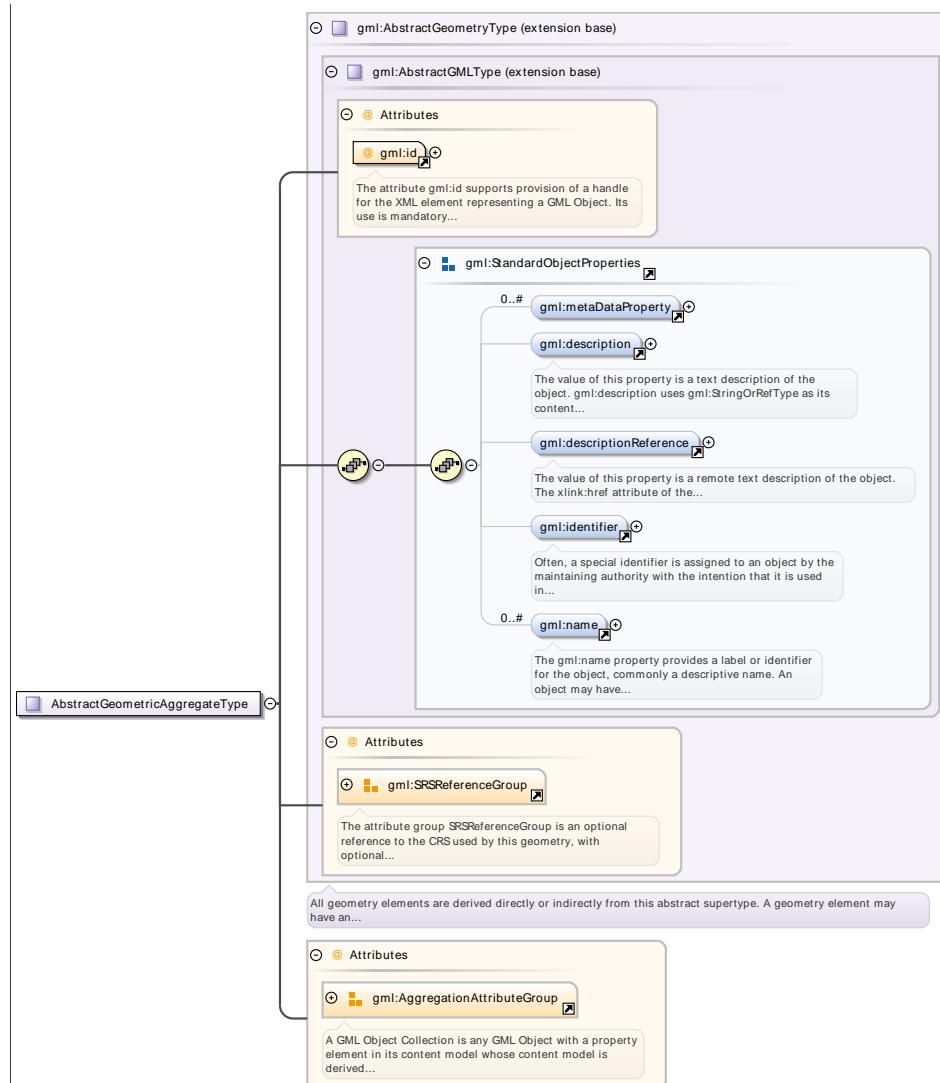
Complex Type **gml:TimePositionType**

Namespace	http://www.opengis.net/gml/3.2																
Annotations	<p>The method for identifying a temporal position is specific to each temporal reference system. gml:TimePositionType supports the description of temporal position according to the subtypes described in ISO 19108. Values based on calendars and clocks use lexical formats that are based on ISO 8601, as described in XML Schema Part 2:2001. A decimal value may be used with coordinate systems such as GPS time or UNIX time. A URI may be used to provide a reference to some era in an ordinal reference system. In common with many of the components modelled as data types in the ISO 19100 series of International Standards, the corresponding GML component has simple content. However, the content model gml:TimePositionType is defined in several steps. Three XML attributes appear on gml:TimePositionType: A time value shall be associated with a temporal reference system through the frame attribute that provides a URI reference that identifies a description of the reference system. Following ISO 19108, the Gregorian calendar with UTC is the default reference system, but others may also be used. Components for describing temporal reference systems are described in 14.4, but it is not required that the reference system be described in this, as the reference may refer to anything that may be identified with a URI. For time values using a calendar containing more than one era, the (optional) calendarEraName attribute provides the name of the calendar era. Inexact temporal positions may be expressed using the optional indeterminatePosition attribute. This takes a value from an enumeration.</p>																
Diagram	<p>The diagram illustrates the UML class TimePositionType as an extension of the simple type gml:TimePositionUnion. The class has three attributes: frame (anyURI, default #ISO-8601), calendarEraName (string, optional), and indeterminatePosition (gml:TimeIndeterminateValueType, optional). A callout box provides a detailed description of gml:TimePositionUnion, stating it is a union of XML Schema simple types that instantiate the subtypes for temporal...</p>																
Type	extension of gml:TimePositionUnion																
Properties	final: extension, restriction																
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>calendarEraName</td> <td>string</td> <td></td> <td>optional</td> </tr> <tr> <td>frame</td> <td>anyURI</td> <td>#ISO-8601</td> <td>optional</td> </tr> <tr> <td>indeterminatePosition</td> <td>gml:TimeIndeterminateValueType</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	calendarEraName	string		optional	frame	anyURI	#ISO-8601	optional	indeterminatePosition	gml:TimeIndeterminateValueType		optional
QName	Type	Default	Use														
calendarEraName	string		optional														
frame	anyURI	#ISO-8601	optional														
indeterminatePosition	gml:TimeIndeterminateValueType		optional														

Complex Type **gml:AbstractGeometricAggregateType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram

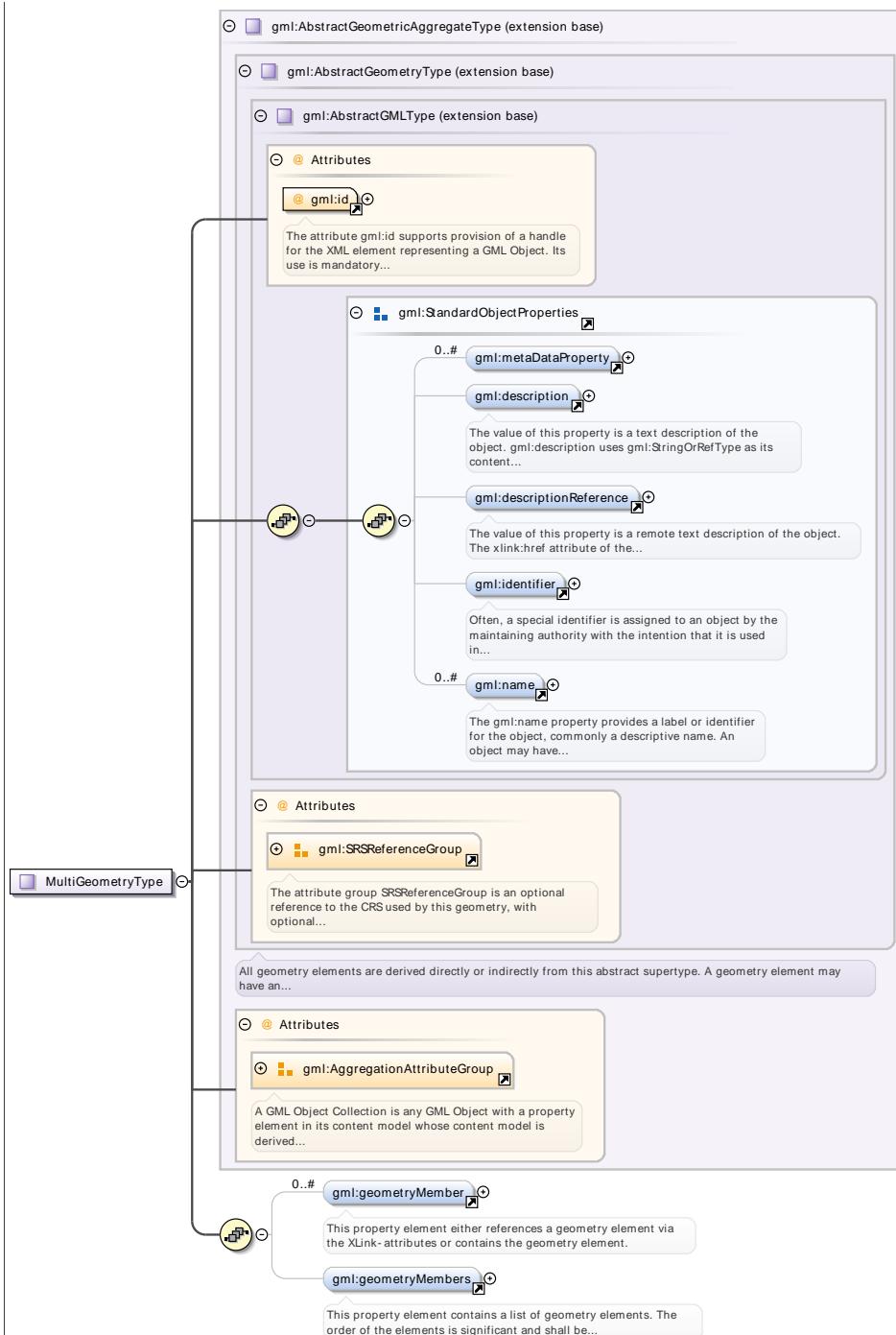


Type	extension of gml:AbstractGeometryType		
Properties	abstract: true		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type `gml:MultiGeometryType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gml:AbstractGeometricAggregateType
------	--

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type `gml:Geometry.PropertyType`

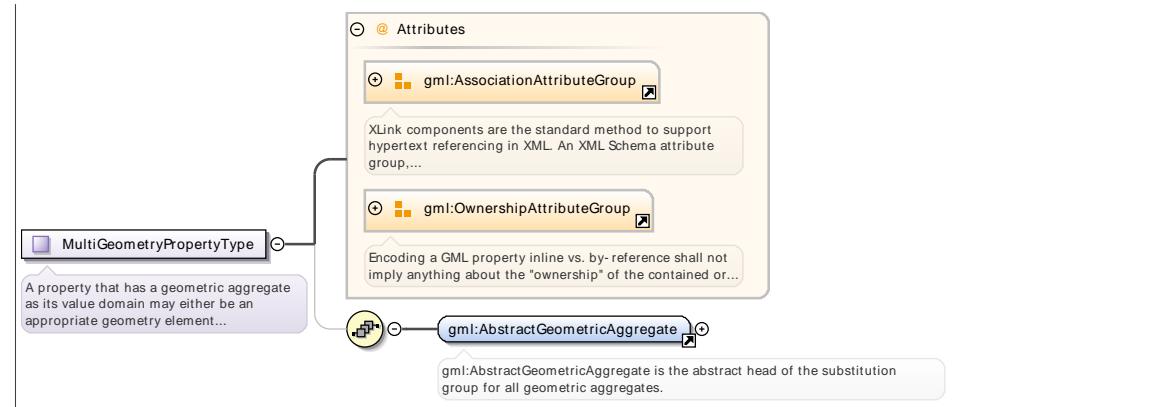
Namespace	http://www.opengis.net/gml/3.2				
Annotations	A geometric property may either be any geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same or another document). Note that either the reference or the contained element shall be given, but not both or none. If a feature has a property that takes a geometry element as its value, this is called a geometry property. A generic type for such a geometry property is <code>Geometry.PropertyType</code> .				
Diagram	<p>Diagram illustrating the structure of <code>gml:Geometry.PropertyType</code>:</p> <ul style="list-style-type: none"> Attributes: <ul style="list-style-type: none"> <code>gml:AssociationAttributeGroup</code> <code>gml:OwnershipAttributeGroup</code> Relationship: A reference to <code>gml:AbstractGeometry</code> with multiplicity <code>0..1</code>. Notes: <ul style="list-style-type: none"> A geometric property may either be any geometry element encapsulated in an element of this type or an XLink reference... XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group... Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or... The AbstractGeometry element is the abstract head of the substitution group for all geometry elements of GML. This... 				
Attributes	QName	Type	Fixed	Default	Use
	<code>gml:remoteSchema</code>	anyURI			optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional
	<code>owns</code>	boolean		false	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
	<code>xlink:role</code>	<code>xlink:roleType</code>			optional
	<code>xlink:show</code>	<code>xlink:showType</code>			optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

Complex Type `gml:Geometry.Array.PropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	If a feature has a property which takes an array of geometry elements as its value, this is called a geometry array property. A generic type for such a geometry property is <code>Geometry.Array.PropertyType</code> . The elements are always contained inline in the array property, referencing geometry elements or arrays of geometry elements via XLinks is not supported.				
Diagram	<p>Diagram illustrating the structure of <code>gml:Geometry.Array.PropertyType</code>:</p> <ul style="list-style-type: none"> Attributes: <code>gml:OwnershipAttributeGroup</code> Relationship: A reference to <code>gml:AbstractGeometry</code> with multiplicity <code>0..1</code>. Notes: <ul style="list-style-type: none"> If a feature has a property which takes an array of geometry elements as its value, this is called a geometry array... Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or... The AbstractGeometry element is the abstract head of the substitution group for all geometry elements of GML. This... 				
Attributes	QName	Type	Default	Use	
	<code>owns</code>	boolean	false	optional	

Complex Type `gml:MultiGeometry.PropertyType`

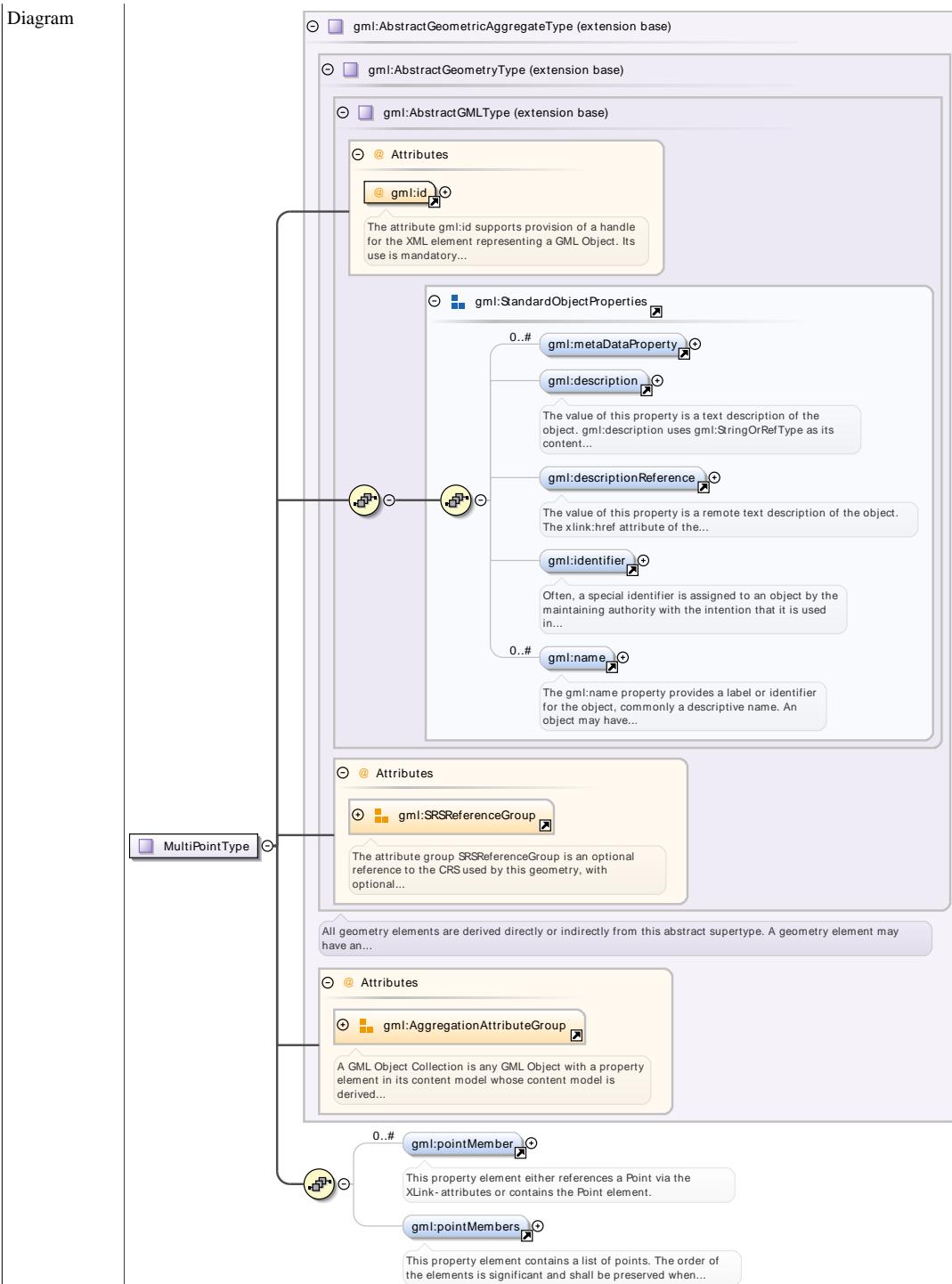
Namespace	http://www.opengis.net/gml/3.2				
Annotations	A property that has a geometric aggregate as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.				

Diagram																																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:role	xlink:roleType			optional																																																				
xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Complex Type **gml:MultiPointType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gm:AbstractGeometricAggregateType</code>
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Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gm:AggregationType</code>	optional
	<code>axisLabels</code>	<code>gm:NCNameList</code>	optional
	<code>gm:id</code>	ID	required
The attribute <code>gm:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
	<code>srsDimension</code>	<code>positiveInteger</code>	optional
	<code>srsName</code>	<code>anyURI</code>	optional
	<code>uomLabels</code>	<code>gm:NCNameList</code>	optional

Complex Type **gml:PointArrayPropertyType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:PointArrayPropertyType is a container for an array of points. The elements are always contained inline in the array property, referencing geometry elements or arrays of geometry elements via XLinks is not supported.			
Diagram				
Attributes	QName	Type	Default	Use
	owns	boolean	false	optional

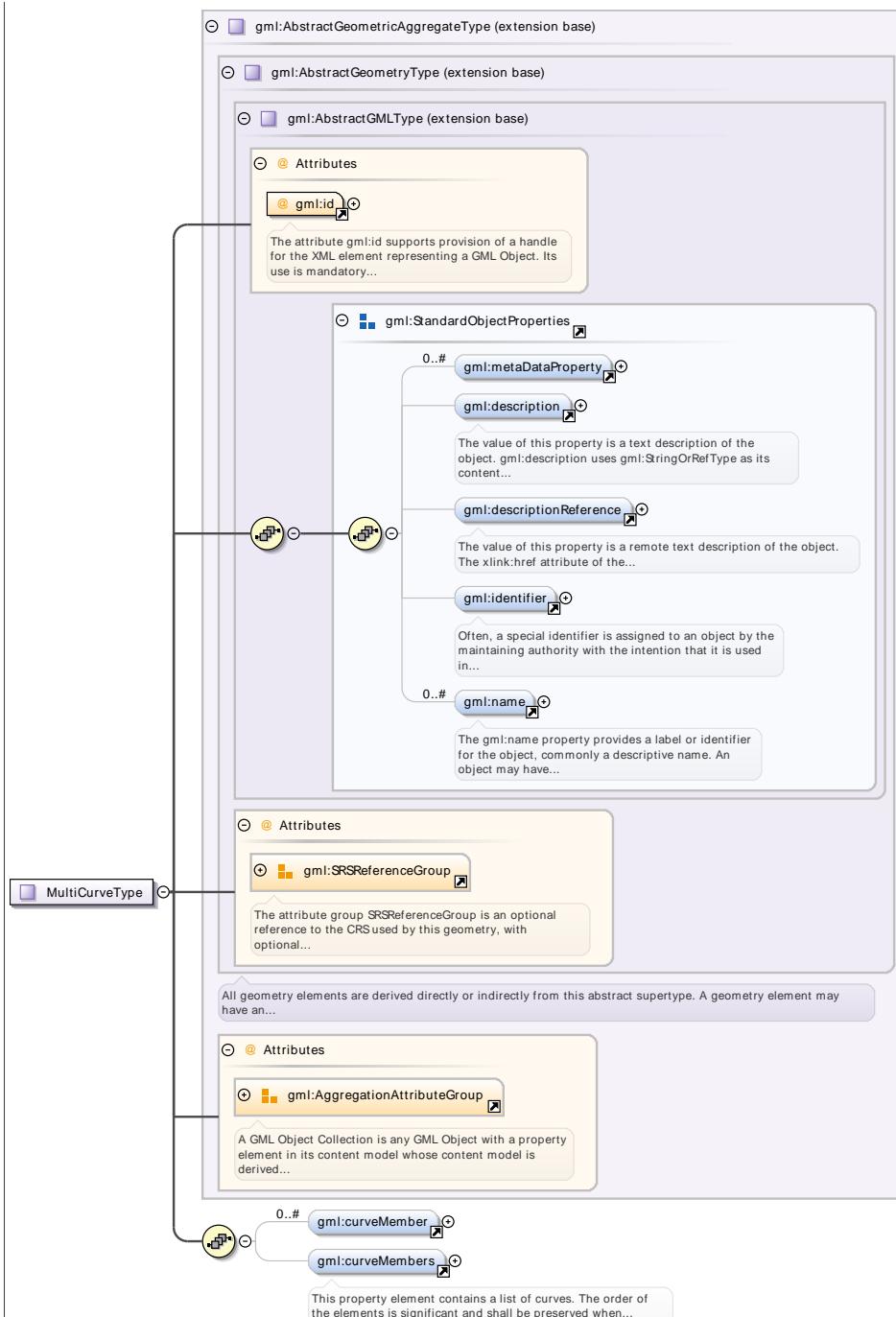
Complex Type **gml:MultiPointPropertyType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	A property that has a collection of points as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.			
Diagram				
Attributes	QName	Type	Fixed	Default
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	owns	boolean	false	optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Complex Type **gml:MultiCurveType**

Namespace	http://www.opengis.net/gml/3.2			
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Diagram



Type	extension of gml:AbstractGeometricAggregateType
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Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type `gml:Curve.PropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	A property that has a curve as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.				
Diagram	<p>A property that has a curve as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.</p>				
Attributes	QName	Type	Fixed	Default	Use
	<code>gml:remoteSchema</code>	anyURI			optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional
	<code>owns</code>	boolean		false	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
	<code>xlink:role</code>	<code>xlink:roleType</code>			optional
	<code>xlink:show</code>	<code>xlink:showType</code>			optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

Complex Type `gml:Curve.Array.PropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	A container for an array of curves. The elements are always contained in the array property, referencing geometry elements or arrays of geometry elements via XLinks is not supported.				
Diagram	<p>A container for an array of curves. The elements are always contained in the array property, referencing geometry elements or arrays of geometry elements via XLinks is not supported.</p>				
Attributes	QName	Type	Default	Use	
	<code>owns</code>	boolean	false	optional	

Complex Type `gml:MultiCurve.PropertyType`

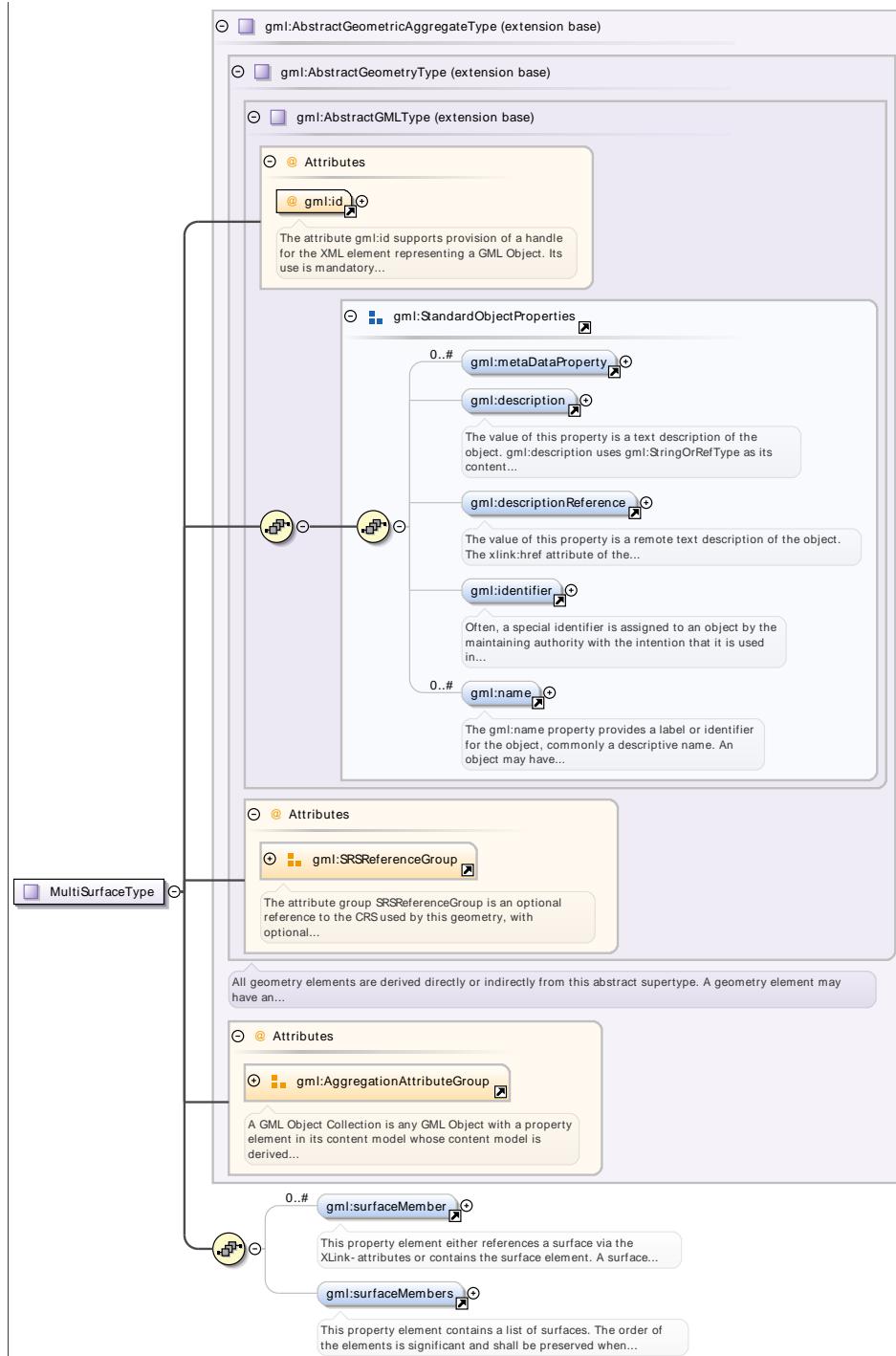
Namespace	http://www.opengis.net/gml/3.2				
Annotations	A property that has a collection of curves as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.				

Diagram																																																																			
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td><td></td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use		gml:remoteSchema	anyURI			optional		nilReason	gml:NilReasonType			optional		owns	boolean		false	optional		xlink:actuate	xlink:actuateType			optional		xlink:arcrole	xlink:arcroleType			optional		xlink:href	xlink:hrefType			optional		xlink:role	xlink:roleType			optional		xlink:show	xlink:showType			optional		xlink:title	xlink:titleAttrType			optional		xlink:type	xlink:typeType	simple		optional	
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xlink:type	xlink:typeType	simple		optional																																																															

Complex Type **gml:MultiSurfaceType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gml:AbstractGeometricAggregateType		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

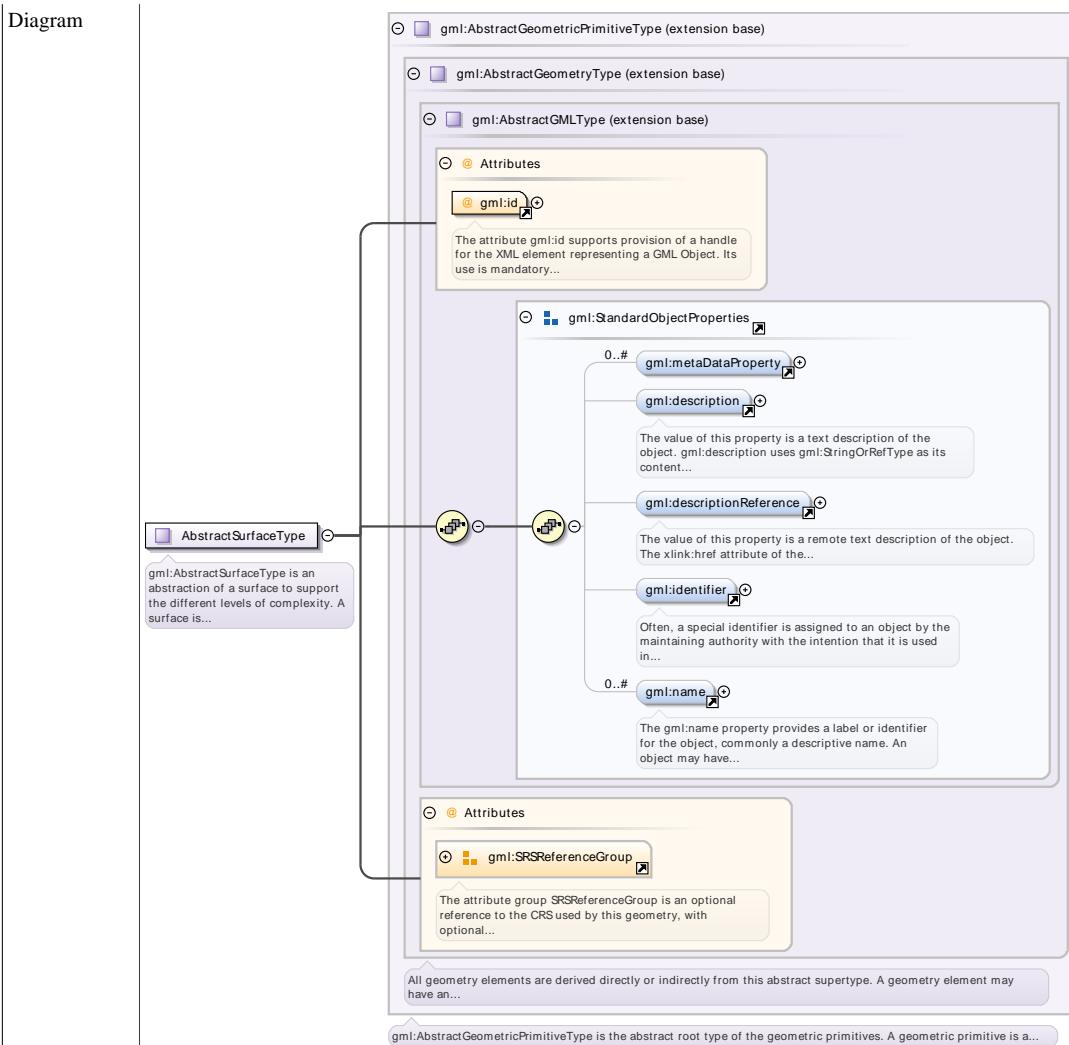
Complex Type **gml:SurfacePropertyType**

Namespace	http://www.opengis.net/gml/3.2																																																																							
Annotations	A property that has a surface as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.																																																																							
Diagram	<p>The diagram illustrates the structure of the gml:SurfacePropertyType complex type. It features a class box for SurfacePropertyType with an association line pointing to another class box for gml:AbstractSurface. A callout box from the association line specifies that gml:AbstractSurface is the abstract head of the substitution group for all (continuous) surface elements. Another callout box from the same association line notes that encoding a GML property inline vs. by-reference does not imply anything about the "ownership" of the contained or... elements. A third callout box from the gml:AbstractSurface class box states that XLink components are the standard method to support hypertext referencing in XML, specifically mentioning an XML Schema attribute group. The SurfacePropertyType class box also contains an annotation: "A property that has a surface as its value domain may either be an appropriate geometry element encapsulated in an...".</p>																																																																							
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Complex Type **gml:AbstractSurfaceType**

Namespace	http://www.opengis.net/gml/3.2					
Annotations	gml:AbstractSurfaceType is an abstraction of a surface to support the different levels of complexity. A surface is always a continuous region of a plane.					

Diagram



Type	extension of gml:AbstractGeometricPrimitiveType		
Properties	abstract: true		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type gml:SurfaceArrayPropertyType

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:SurfaceArrayPropertyType is a container for an array of surfaces. The elements are always contained in the array property, referencing geometry elements or arrays of geometry elements via XLinks is not supported.

<p>Diagram</p>									
<p>Attributes</p>	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
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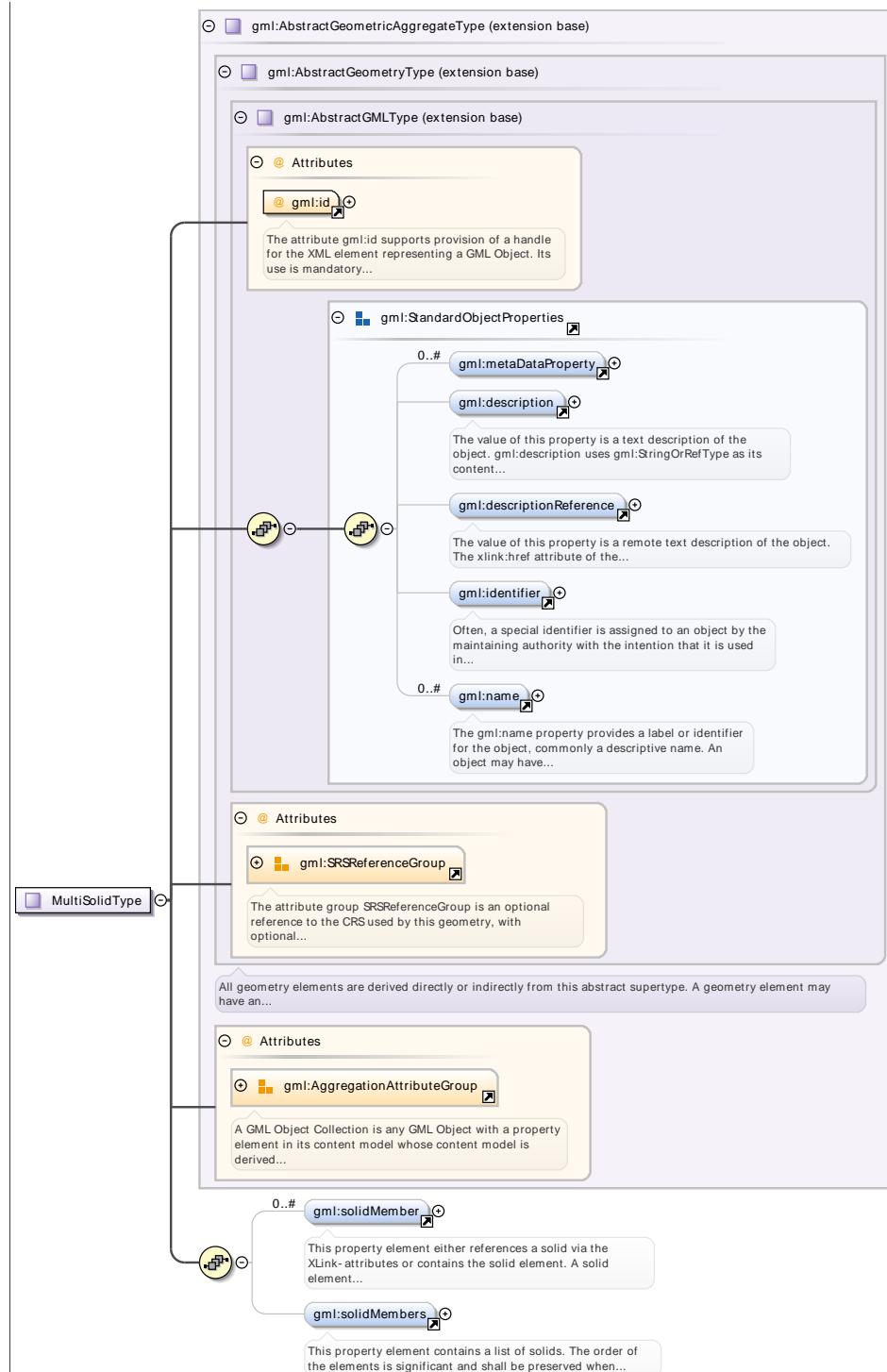
Complex Type **gml:MultiSurfacePropertyType**

<p>Namespace</p>	http://www.opengis.net/gml/3.2																																																							
<p>Annotations</p>	<p>A property that has a collection of surfaces as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.</p>																																																							
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Complex Type **gml:MultiSolidType**

<p>Namespace</p>	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `gml:AbstractGeometricAggregateType`

Type	extension of <code>gml:AbstractGeometricAggregateType</code>																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td><td><code>gml:AggregationType</code></td><td>optional</td><td></td></tr> <tr> <td><code>axisLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td><td></td></tr> <tr> <td><code>gml:id</code></td><td>ID</td><td>required</td><td></td></tr> <tr> <td></td><td colspan="3">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> <tr> <td><code>srsDimension</code></td><td><code>positiveInteger</code></td><td>optional</td><td></td></tr> <tr> <td><code>srsName</code></td><td><code>anyURI</code></td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Use		<code>aggregationType</code>	<code>gml:AggregationType</code>	optional		<code>axisLabels</code>	<code>gml:NCNameList</code>	optional		<code>gml:id</code>	ID	required			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			<code>srsDimension</code>	<code>positiveInteger</code>	optional		<code>srsName</code>	<code>anyURI</code>	optional			
QName	Type	Use																													
<code>aggregationType</code>	<code>gml:AggregationType</code>	optional																													
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<code>srsDimension</code>	<code>positiveInteger</code>	optional																													
<code>srsName</code>	<code>anyURI</code>	optional																													

QName	Type	Use
uomLabels	gml:NCNameList	optional

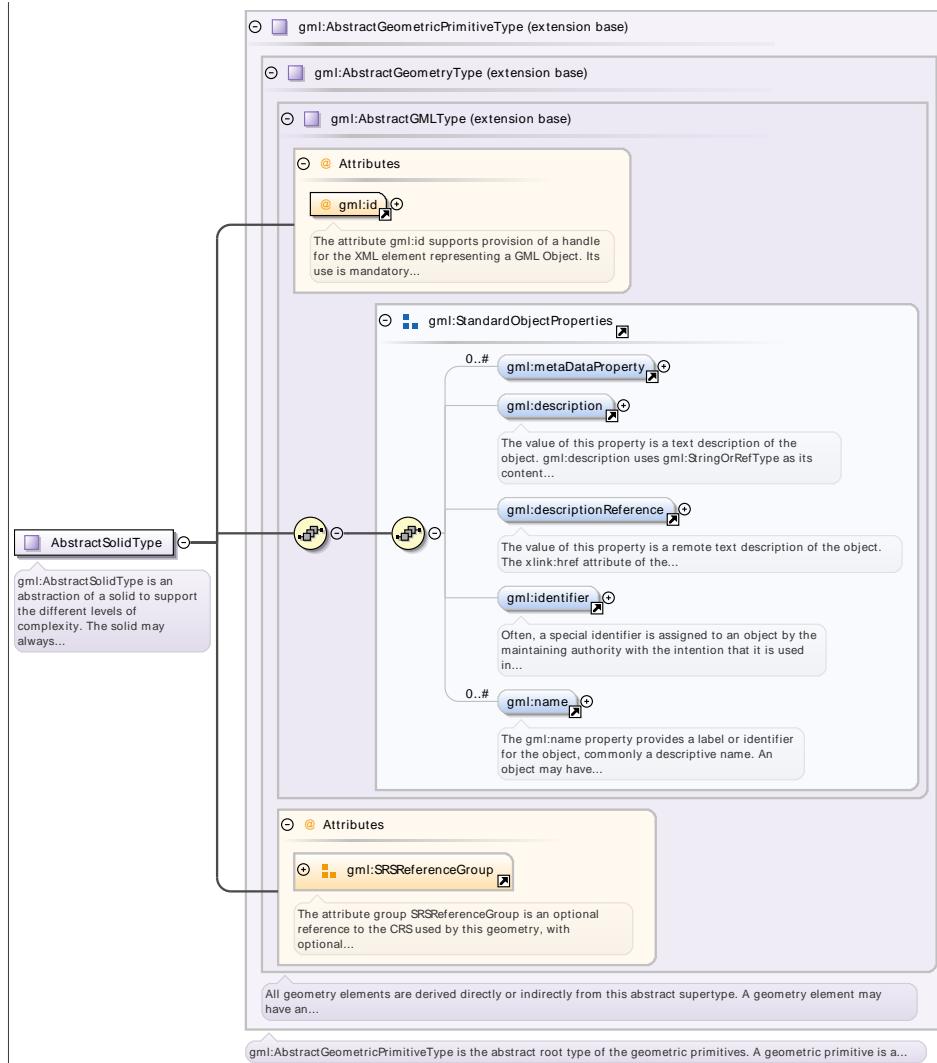
Complex Type **gml:SolidPropertyType**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	A property that has a solid as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.				
Diagram	<p>The diagram illustrates the structure of the gml:SolidPropertyType. It is a complex type that inherits from gml:AbstractSolid. The type is annotated with a note: "A property that has a solid as its value domain may either be an appropriate geometry element encapsulated in an...". It also contains two attribute groups: gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. The gml:AssociationAttributeGroup is described as "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group..." and the gml:OwnershipAttributeGroup is described as "Encoding a GML property inline vs. by-reference shall not imply anything about the 'ownership' of the contained or...".</p>				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Complex Type **gml:AbstractSolidType**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:AbstractSolidType is an abstraction of a solid to support the different levels of complexity. The solid may always be viewed as a geometric primitive, i.e. is contiguous.				

Diagram



Type extension of gml:AbstractGeometricPrimitiveType

Type	extension of gml:AbstractGeometricPrimitiveType																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>axisLabels</td><td>gml:NCNameList</td><td>optional</td><td></td></tr> <tr> <td>gml:id</td><td>ID</td><td>required</td><td></td></tr> <tr> <td></td><td colspan="3">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> <tr> <td>srsDimension</td><td>positiveInteger</td><td>optional</td><td></td></tr> <tr> <td>srsName</td><td>anyURI</td><td>optional</td><td></td></tr> <tr> <td>uomLabels</td><td>gml:NCNameList</td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Use		axisLabels	gml:NCNameList	optional		gml:id	ID	required			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			srsDimension	positiveInteger	optional		srsName	anyURI	optional		uomLabels	gml:NCNameList	optional			
QName	Type	Use																													
axisLabels	gml:NCNameList	optional																													
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srsDimension	positiveInteger	optional																													
srsName	anyURI	optional																													
uomLabels	gml:NCNameList	optional																													

Complex Type gml:SolidArrayType

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:SolidArrayType is a container for an array of solids. The elements are always contained in the array property, referencing geometry elements or arrays of geometry elements is not supported.

<p>Diagram</p>	<p>gml:SolidArrayPropertyType is a container for an array of solids. The elements are always contained in the array...</p> <p>0..#</p> <p>gml:AbstractSolid</p> <p>The AbstractSolid element is the abstract head of the substitution group for all (continuous) solid elements.</p>								
<p>Attributes</p>	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

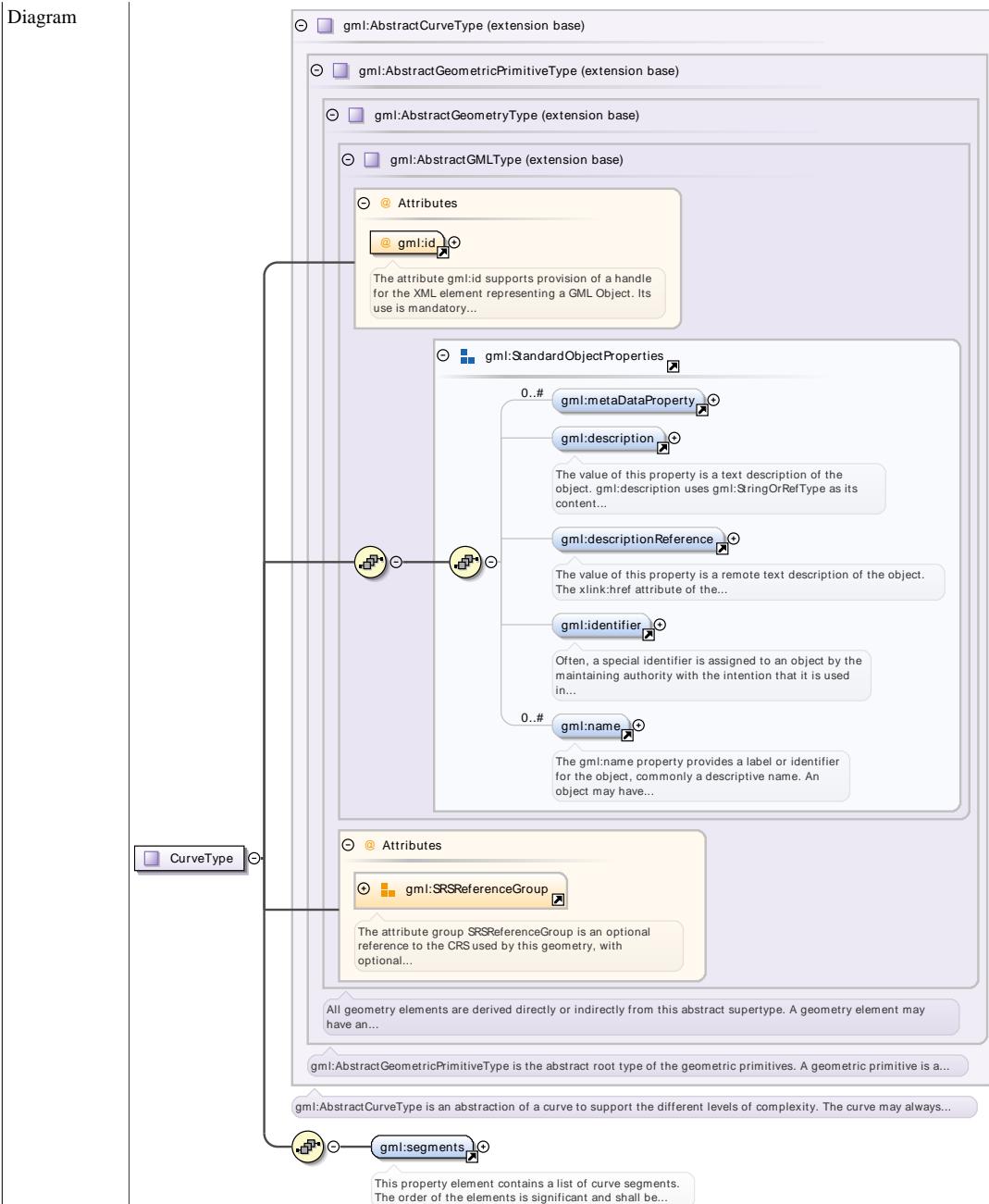
Complex Type gml:MultiSolidPropertyType

<p>Namespace</p>	<p>http://www.opengis.net/gml/3.2</p>																																																							
<p>Annotations</p>	<p>A property that has a collection of solids as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.</p>																																																							
<p>Diagram</p>	<p>A property that has a collection of solids as its value domain may either be an appropriate geometry element...</p> <p>0..#</p> <p>gml:MultiSolid</p> <p>A gml:MultiSolid is defined by one or more gml:AbstractSolids. The members of the geometric aggregate may be specified...</p>																																																							
<p>Attributes</p>	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gml:remoteSchema	anyURI			optional																																																				
nilReason	gml:NilReasonType			optional																																																				
owns	boolean		false	optional																																																				
xlink:actuate	xlink:actuateType			optional																																																				
xlink:arcrole	xlink:arcroleType			optional																																																				
xlink:href	xlink:hrefType			optional																																																				
xlink:role	xlink:roleType			optional																																																				
xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Complex Type gml:CurveType

<p>Namespace</p>	<p>http://www.opengis.net/gml/3.2</p>
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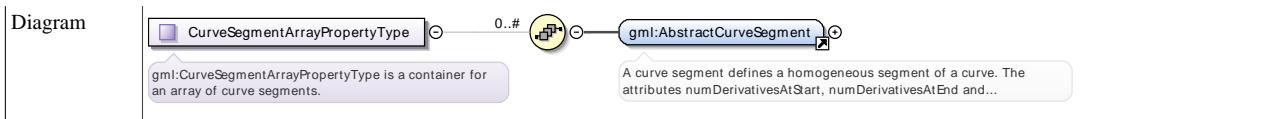
Diagram



Type	extension of gml:AbstractCurveType		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type gml:CurveSegmentArrayType

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:CurveSegmentArrayType is a container for an array of curve segments.



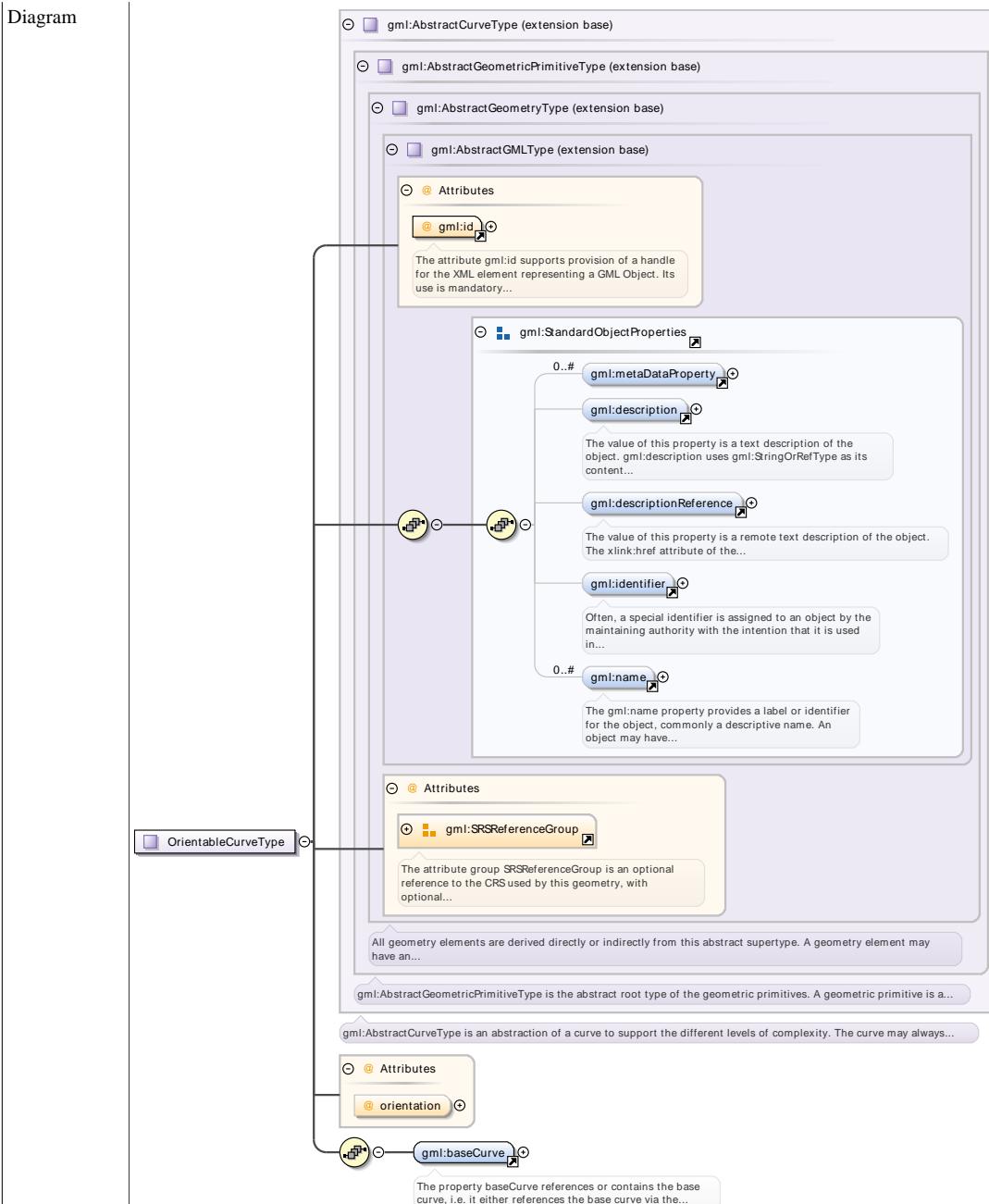
Complex Type **gml:AbstractCurveSegmentType**

Namespace	http://www.opengis.net/gml/3.2																			
Diagram	<p>AbstractCurveSegmentType</p> <p>Attributes:</p> <ul style="list-style-type: none"> @ numDerivativesAtStart @ numDerivativesAtEnd @ numDerivativeInterior 																			
Properties	abstract: true																			
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td>0</td> <td>optional</td> </tr> </tbody> </table>				QName	Type	Default	Use	numDerivativeInterior	integer	0	optional	numDerivativesAtEnd	integer	0	optional	numDerivativesAtStart	integer	0	optional
QName	Type	Default	Use																	
numDerivativeInterior	integer	0	optional																	
numDerivativesAtEnd	integer	0	optional																	
numDerivativesAtStart	integer	0	optional																	

Complex Type **gml:OrientableCurveType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCurveType</code>			
Attributes	QName	Type	Default	Use
	<code>axisLabels</code>	<code>gml:NCNameList</code>		optional
	<code>gml:id</code>	ID		required
		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	<code>orientation</code>	<code>gml:SignType</code>	+	optional
	<code>srsDimension</code>	<code>positiveInteger</code>		optional
	<code>srsName</code>	<code>anyURI</code>		optional
	<code>uomLabels</code>	<code>gml:NCNameList</code>		optional

Complex Type `gml:LineStringSegmentType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram																										
Type	extension of gm1:AbstractCurveSegmentType																									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>interpolation</td><td>gm1:CurveInterpolationType</td><td>linear</td><td></td><td>optional</td></tr> <tr> <td>numDerivativeInterior</td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td>numDerivativesAtEnd</td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td>numDerivativesAtStart</td><td>integer</td><td></td><td>0</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gm1:CurveInterpolationType	linear		optional	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																						
interpolation	gm1:CurveInterpolationType	linear		optional																						
numDerivativeInterior	integer		0	optional																						
numDerivativesAtEnd	integer		0	optional																						
numDerivativesAtStart	integer		0	optional																						

Complex Type gm1:ArcStringType

Namespace	http://www.opengis.net/gml/3.2															
Diagram																
Type	extension of gm1:AbstractCurveSegmentType															
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>interpolation</td><td>gm1:CurveInterpolationType</td><td>circularArc3Points</td><td></td><td>optional</td></tr> <tr> <td>numArc</td><td>integer</td><td></td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gm1:CurveInterpolationType	circularArc3Points		optional	numArc	integer			optional
QName	Type	Fixed	Default	Use												
interpolation	gm1:CurveInterpolationType	circularArc3Points		optional												
numArc	integer			optional												

QName	Type	Fixed	Default	Use
numDerivativeInterior	integer		0	optional
numDerivativesAtEnd	integer		0	optional
numDerivativesAtStart	integer		0	optional

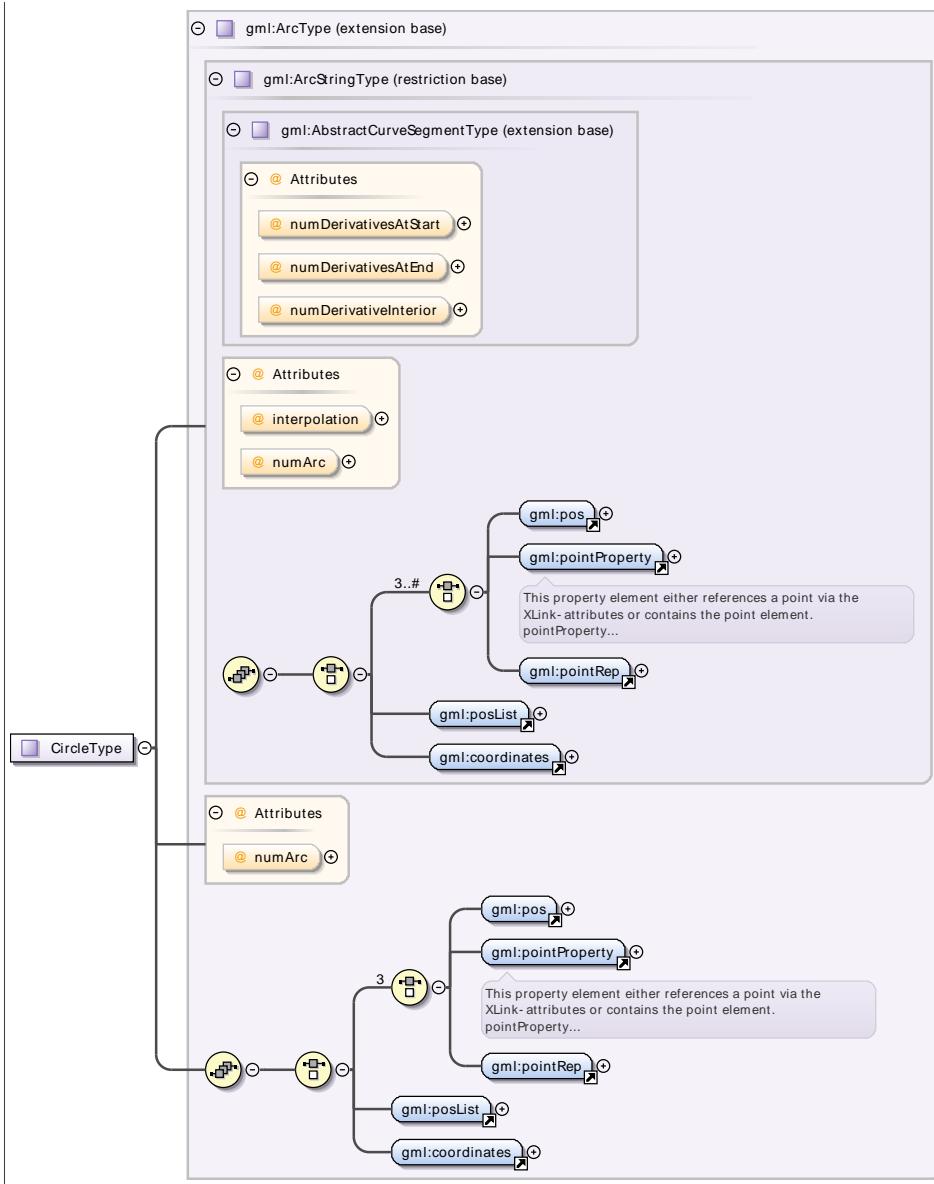
Complex Type **gml:ArcType**

Namespace	http://www.opengis.net/gml/3.2																														
Diagram	<p>The diagram illustrates the structure of the gml:ArcType complex type. It is a restriction of gml:ArcStringType (restriction base). It inherits from gml:AbstractCurveSegmentType (extension base). The type has attributes: numDerivativesAtStart, numDerivativesAtEnd, numDerivativeInterior, interpolation, and numArc. It also has associations with gml:pos, gml:pointProperty, gml:pointRep, gml:posList, and gml:coordinates. The gml:pointProperty and gml:coordinates associations are marked with a note: "This property element either references a point via the XLink-attributes or contains the point element. pointProperty..."</p>																														
Type	restriction of gml:ArcStringType																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:CurveInterpolationType</td> <td>circularArc3Points</td> <td></td> <td>optional</td> </tr> <tr> <td>numArc</td> <td>integer</td> <td>1</td> <td></td> <td>optional</td> </tr> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gml:CurveInterpolationType	circularArc3Points		optional	numArc	integer	1		optional	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																											
interpolation	gml:CurveInterpolationType	circularArc3Points		optional																											
numArc	integer	1		optional																											
numDerivativeInterior	integer		0	optional																											
numDerivativesAtEnd	integer		0	optional																											
numDerivativesAtStart	integer		0	optional																											

Complex Type **gml:CircleType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `gml:ArcType`

Attributes	QName	Type	Fixed	Default	Use
	interpolation	<code>gml:CurveInterpolationType</code>	<code>circularArc3Points</code>		optional
	numArc	integer	1		optional
	numDerivativeInterior	integer		0	optional
	numDerivativesAtEnd	integer		0	optional
	numDerivativesAtStart	integer		0	optional

Complex Type `gml:ArcStringByBulgeType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram illustrates the schema structure for <code>ArcStringByBulgeType</code>. It is an extension of <code>gml:AbstractCurveSegmentType</code>. The type has the following attributes:</p> <ul style="list-style-type: none"> <code>@ interpolation</code> (type: <code>gml:CurveInterpolationType</code>, default: <code>circularArc2PointWithBulge</code>, use: optional) <code>@ numArc</code> (type: <code>integer</code>, use: optional) <code>@ numDerivativeInterior</code> (type: <code>integer</code>, use: optional) <code>@ numDerivativesAtEnd</code> (type: <code>integer</code>, use: optional) <code>@ numDerivativesAtStart</code> (type: <code>integer</code>, use: optional) <p>Associations are shown for:</p> <ul style="list-style-type: none"> <code>gml:pos</code> (multiplicity: <code>2..#</code>) with <code>gml:pointProperty</code> (multiplicity: <code>1..1</code>), with a note: "This property element either references a point via the XLink-attributes or contains the point element <code>pointProperty</code>..." <code>gml:posList</code> (multiplicity: <code>1..#</code>) with <code>gml:coordinates</code> (multiplicity: <code>1..#</code>) <code>bulge</code> (multiplicity: <code>1..#</code>) <code>normal</code> (multiplicity: <code>1..#</code>) 																														
Type	extension of <code>gml:AbstractCurveSegmentType</code>																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>interpolation</code></td><td><code>gml:CurveInterpolationType</code></td><td></td><td><code>circularArc2PointWithBulge</code></td><td>optional</td></tr> <tr> <td><code>numArc</code></td><td><code>integer</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>numDerivativeInterior</code></td><td><code>integer</code></td><td></td><td><code>0</code></td><td>optional</td></tr> <tr> <td><code>numDerivativesAtEnd</code></td><td><code>integer</code></td><td></td><td><code>0</code></td><td>optional</td></tr> <tr> <td><code>numDerivativesAtStart</code></td><td><code>integer</code></td><td></td><td><code>0</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>		<code>circularArc2PointWithBulge</code>	optional	<code>numArc</code>	<code>integer</code>			optional	<code>numDerivativeInterior</code>	<code>integer</code>		<code>0</code>	optional	<code>numDerivativesAtEnd</code>	<code>integer</code>		<code>0</code>	optional	<code>numDerivativesAtStart</code>	<code>integer</code>		<code>0</code>	optional
QName	Type	Fixed	Default	Use																											
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>		<code>circularArc2PointWithBulge</code>	optional																											
<code>numArc</code>	<code>integer</code>			optional																											
<code>numDerivativeInterior</code>	<code>integer</code>		<code>0</code>	optional																											
<code>numDerivativesAtEnd</code>	<code>integer</code>		<code>0</code>	optional																											
<code>numDerivativesAtStart</code>	<code>integer</code>		<code>0</code>	optional																											

Complex Type `gml:VectorType`

Namespace	http://www.opengis.net/gml/3.2															
Annotations	For some applications the components of the position may be adjusted to yield a unit vector.															
Diagram	<p>The diagram illustrates the schema structure for <code>VectorType</code>. It is a restriction of <code>gml:DirectPositionType</code>. The type has the following attributes:</p> <ul style="list-style-type: none"> <code>gml:SRSReferenceGroup</code> (type: <code>gml:SRSReferenceGroup</code>, use: optional) <p>Annotations are shown for:</p> <ul style="list-style-type: none"> "For some applications the components of the position may be adjusted to yield a unit vector." "A type for a list of values of the respective simple type." "The attribute group <code>SRSReferenceGroup</code> is an optional reference to the CRS used by this geometry, with optional..." "Direct position instances hold the coordinates for a position within some coordinate reference system (CRS). Since..." 															
Type	restriction of <code>gml:DirectPositionType</code>															
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>axisLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> <tr> <td><code>srsDimension</code></td><td><code>positiveInteger</code></td><td>optional</td></tr> <tr> <td><code>srsName</code></td><td><code>anyURI</code></td><td>optional</td></tr> <tr> <td><code>uomLabels</code></td><td><code>gml:NCNameList</code></td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	<code>srsDimension</code>	<code>positiveInteger</code>	optional	<code>srsName</code>	<code>anyURI</code>	optional	<code>uomLabels</code>	<code>gml:NCNameList</code>	optional
QName	Type	Use														
<code>axisLabels</code>	<code>gml:NCNameList</code>	optional														
<code>srsDimension</code>	<code>positiveInteger</code>	optional														
<code>srsName</code>	<code>anyURI</code>	optional														
<code>uomLabels</code>	<code>gml:NCNameList</code>	optional														

Complex Type `gml:ArcByBulgeType`

Namespace	http://www.opengis.net/gml/3.2																														
Diagram	<p>The diagram illustrates the structure of the <code>gml:ArcByBulgeType</code> complex type. It is a restriction of <code>gml:ArcStringByBulgeType</code>. The type <code>gml:AbstractCurveSegmentType</code> is the extension base, and it has attributes <code>@numDerivativesAtStart</code>, <code>@numDerivativesAtEnd</code>, and <code>@numDerivativeInterior</code>. The type <code>gml:ArcByBulgeType</code> adds attributes <code>@interpolation</code> and <code>@numArc</code>. It has associations to <code>gml:pos</code>, <code>gml:pointProperty</code>, <code>gml:pointRep</code>, <code>gml:posList</code>, and <code>gml:coordinates</code>. It also has associations to <code>bulge</code> and <code>normal</code> with multiplicity 1..#.</p>																														
Type	restriction of <code>gml:ArcStringByBulgeType</code>																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>interpolation</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>circularArc2PointWithBulge</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>numArc</code></td> <td>integer</td> <td>1</td> <td></td> <td>optional</td> </tr> <tr> <td><code>numDerivativeInterior</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtEnd</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtStart</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc2PointWithBulge</code>		optional	<code>numArc</code>	integer	1		optional	<code>numDerivativeInterior</code>	integer		0	optional	<code>numDerivativesAtEnd</code>	integer		0	optional	<code>numDerivativesAtStart</code>	integer		0	optional
QName	Type	Fixed	Default	Use																											
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>circularArc2PointWithBulge</code>		optional																											
<code>numArc</code>	integer	1		optional																											
<code>numDerivativeInterior</code>	integer		0	optional																											
<code>numDerivativesAtEnd</code>	integer		0	optional																											
<code>numDerivativesAtStart</code>	integer		0	optional																											

Complex Type `gml:ArcByCenterPointType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram illustrates the structure of the <code>ArcByCenterPointType</code> complex type. It is an extension of <code>gml:AbstractCurveSegmentType</code>. The type has the following attributes:</p> <ul style="list-style-type: none"> <code>@ numDerivativesAtStart</code> <code>@ numDerivativesAtEnd</code> <code>@ numDerivativeInterior</code> <code>@ interpolation</code> <code>@ numArc</code> <p>It also has associations with <code>gml:pos</code>, <code>gml:pointProperty</code>, <code>gml:pointRep</code>, <code>gml:posList</code>, <code>gml:coordinates</code>, <code>radius</code>, <code>startAngle</code>, and <code>endAngle</code>. A callout box notes that <code>gml:pointProperty</code> either references a point via XLink attributes or contains a <code>point</code> element.</p>																														
Type	extension of <code>gml:AbstractCurveSegmentType</code>																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>interpolation</code></td><td><code>gml:CurveInterpolationType</code></td><td></td><td><code>circularArcCenterPointWithRadius</code></td><td>optional</td></tr> <tr> <td><code>numArc</code></td><td>integer</td><td>1</td><td></td><td>required</td></tr> <tr> <td><code>numDerivativeInterior</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtEnd</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> <tr> <td><code>numDerivativesAtStart</code></td><td>integer</td><td></td><td>0</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>		<code>circularArcCenterPointWithRadius</code>	optional	<code>numArc</code>	integer	1		required	<code>numDerivativeInterior</code>	integer		0	optional	<code>numDerivativesAtEnd</code>	integer		0	optional	<code>numDerivativesAtStart</code>	integer		0	optional
QName	Type	Fixed	Default	Use																											
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>		<code>circularArcCenterPointWithRadius</code>	optional																											
<code>numArc</code>	integer	1		required																											
<code>numDerivativeInterior</code>	integer		0	optional																											
<code>numDerivativesAtEnd</code>	integer		0	optional																											
<code>numDerivativesAtStart</code>	integer		0	optional																											

Complex Type `gml:LengthType`

Namespace	http://www.opengis.net/gml/3.2						
Annotations	<p>This is a prototypical definition for a specific measure type defined as a vacuous extension (i.e. aliases) of <code>gml:MeasureType</code>. In this case, the content model supports the description of a length (or distance) quantity, with its units. The unit of measure referenced by <code>uom</code> shall be suitable for a length, such as metres or feet.</p>						
Diagram	<p>The diagram illustrates the structure of the <code>LengthType</code> complex type. It is an extension of <code>gml:MeasureType</code>. The type has the following attributes:</p> <ul style="list-style-type: none"> <code>@ uom</code> <p>A callout box notes that <code>gml:MeasureType</code> supports recording an amount encoded as a value of XML Schema double, together with a units of measure. Another callout box notes that the <code>double</code> type is a built-in primitive type corresponding to IEEE double-precision 64-bit floating point type.</p>						
Type	extension of <code>gml:MeasureType</code>						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>uom</code></td><td><code>gml:UomIdentifier</code></td><td>required</td></tr> </tbody> </table>	QName	Type	Use	<code>uom</code>	<code>gml:UomIdentifier</code>	required
QName	Type	Use					
<code>uom</code>	<code>gml:UomIdentifier</code>	required					

Complex Type `gml:MeasureType`

Namespace	http://www.opengis.net/gml/3.2								
Annotations	gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure indicated by an attribute uom, short for "units Of measure". The value of the uom attribute identifies a reference system for the amount, usually a ratio or interval scale.								
Diagram	<p>The diagram illustrates the structure of the gml:MeasureType complex type. It shows a box for 'MeasureType' with a line pointing to a box for 'double'. A callout box for 'double' states: 'Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type (IEEE...'. Another line from 'MeasureType' points to a box for '@ uom'. A callout box for '@ uom' states: 'gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...'. A legend indicates that a purple square with a line means 'extension of' and a purple square with a circle means 'base of'.</p>								
Type	extension of double								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>uom</code></td> <td><code>gml:UomIdentifier</code></td> <td>required</td> </tr> </tbody> </table>			QName	Type	Use	<code>uom</code>	<code>gml:UomIdentifier</code>	required
QName	Type	Use							
<code>uom</code>	<code>gml:UomIdentifier</code>	required							

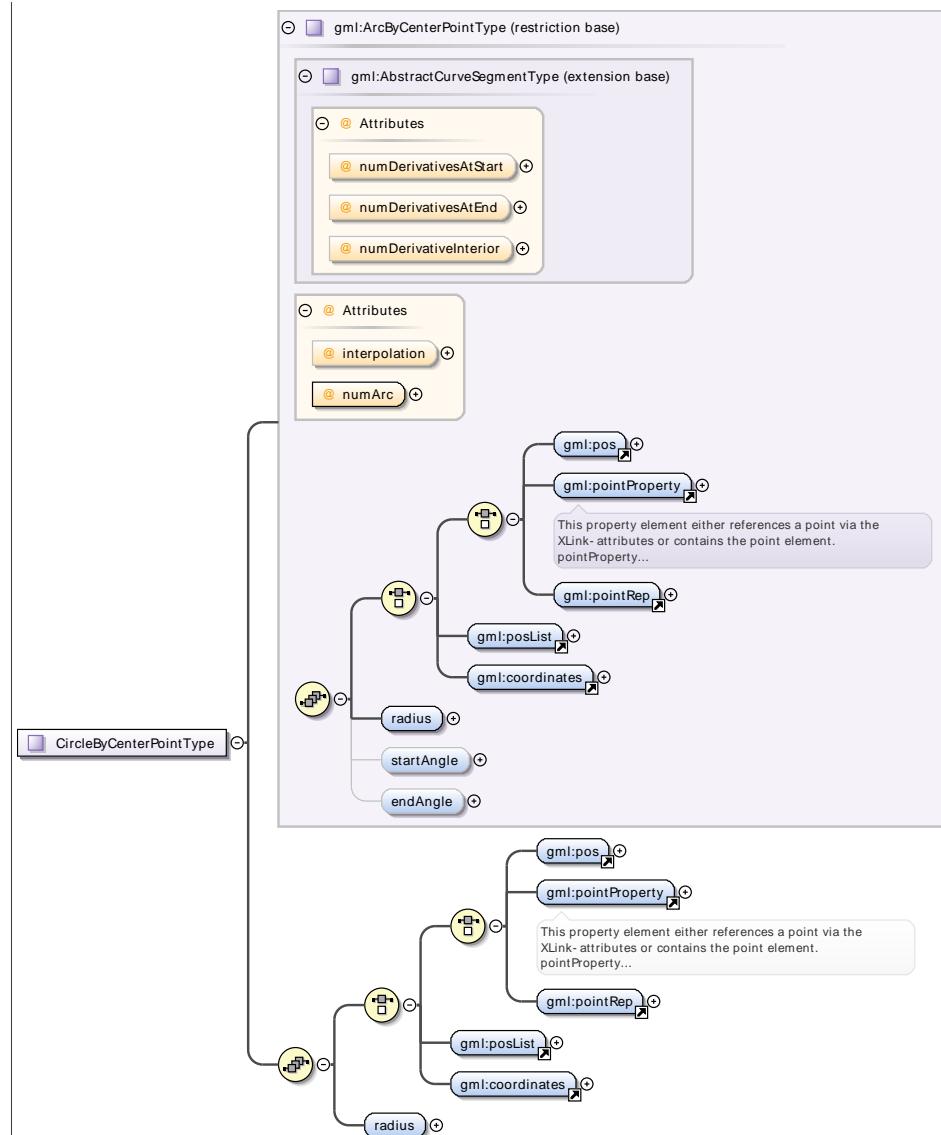
Complex Type `gml:AngleType`

Namespace	http://www.opengis.net/gml/3.2								
Diagram	<p>The diagram illustrates the structure of the gml:AngleType complex type. It shows a box for 'AngleType' with a line pointing to a box for 'gml:MeasureType (extension base)'. A callout box for 'gml:MeasureType' states: 'Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type (IEEE...'. Another line from 'AngleType' points to a box for '@ uom'. A callout box for '@ uom' states: 'gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...'. A legend indicates that a purple square with a line means 'extension of' and a purple square with a circle means 'base of'.</p>								
Type	extension of gml:MeasureType								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>uom</code></td> <td><code>gml:UomIdentifier</code></td> <td>required</td> </tr> </tbody> </table>			QName	Type	Use	<code>uom</code>	<code>gml:UomIdentifier</code>	required
QName	Type	Use							
<code>uom</code>	<code>gml:UomIdentifier</code>	required							

Complex Type `gml:CircleByCenterPointType`

Namespace	http://www.opengis.net/gml/3.2		
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Diagram



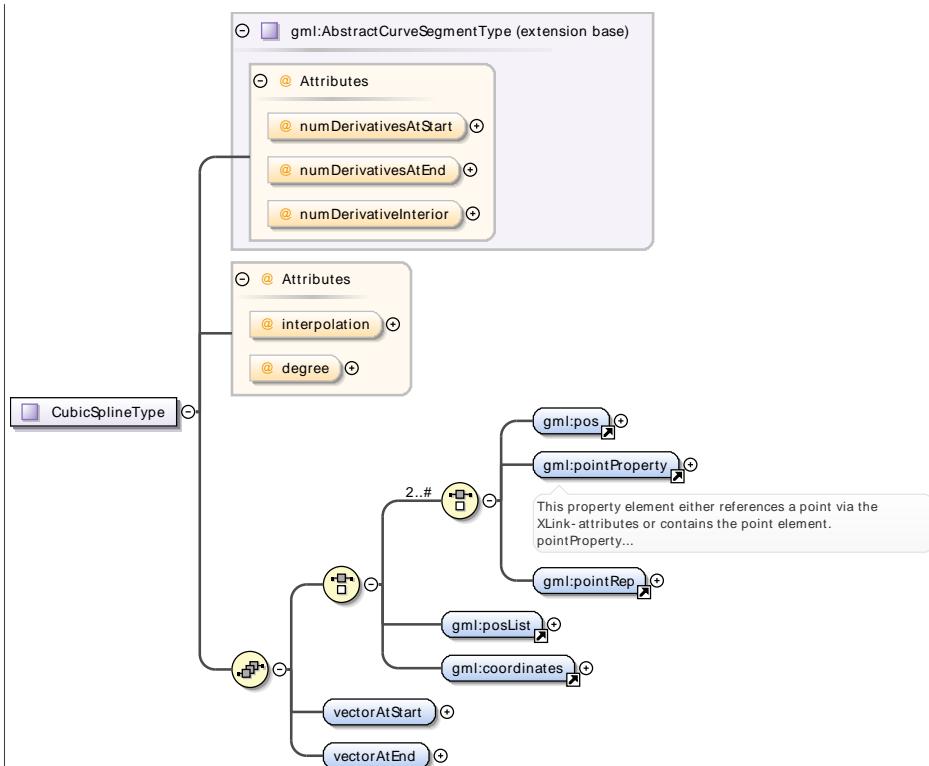
Type restriction of `gml:ArcByCenterPointType`

Attributes	QName	Type	Fixed	Default	Use
	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>		<code>circularArcCenterPointWithRadius</code>	optional
	<code>numArc</code>	integer	1		required
	<code>numDerivativeInterior</code>	integer		0	optional
	<code>numDerivativesAtEnd</code>	integer		0	optional
	<code>numDerivativesAtStart</code>	integer		0	optional

Complex Type `gml:CubicSplineType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



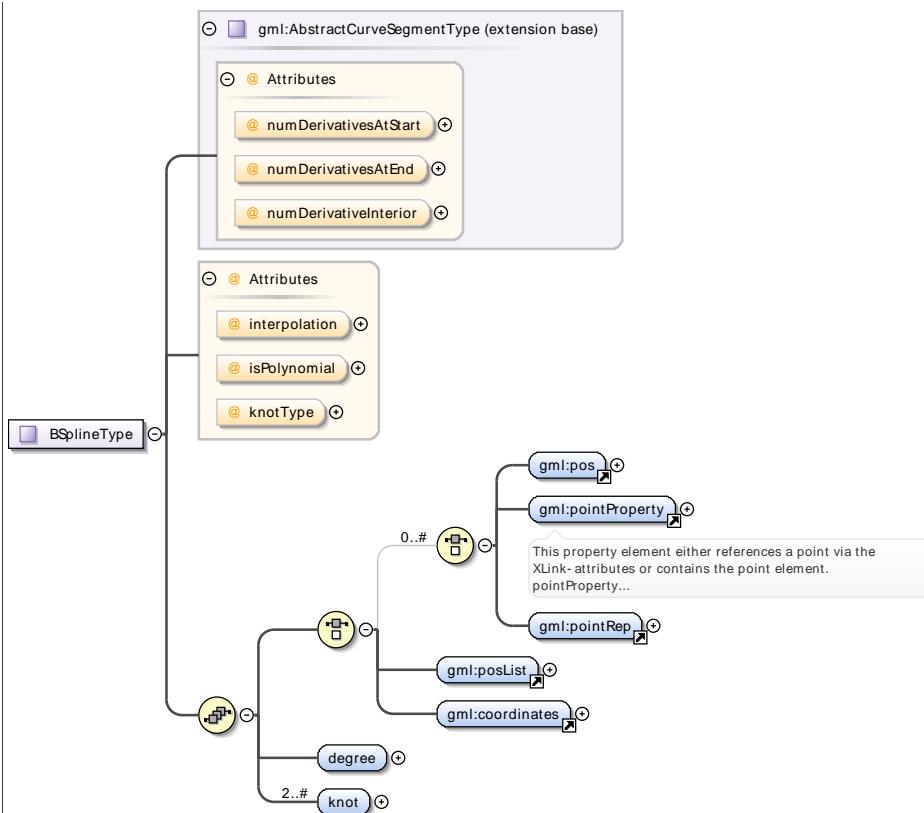
Type extension of gm:AbstractCurveSegmentType

Type	extension of gm:AbstractCurveSegmentType																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>degree</td> <td>integer</td> <td>3</td> <td></td> <td>optional</td> </tr> <tr> <td>interpolation</td> <td>gm:CurveInterpolationType</td> <td>cubicSpline</td> <td></td> <td>optional</td> </tr> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	degree	integer	3		optional	interpolation	gm:CurveInterpolationType	cubicSpline		optional	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																											
degree	integer	3		optional																											
interpolation	gm:CurveInterpolationType	cubicSpline		optional																											
numDerivativeInterior	integer		0	optional																											
numDerivativesAtEnd	integer		0	optional																											
numDerivativesAtStart	integer		0	optional																											

Complex Type gm:BSplineType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `AbstractCurveSegmentType`

Type	extension of <code>AbstractCurveSegmentType</code>																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>interpolation</code></td> <td><code>gml:CurveInterpolationType</code></td> <td><code>polynomialSpline</code></td> <td>optional</td> </tr> <tr> <td><code>isPolynomial</code></td> <td>boolean</td> <td></td> <td>optional</td> </tr> <tr> <td><code>knotType</code></td> <td><code>gml:KnotTypesType</code></td> <td></td> <td>optional</td> </tr> <tr> <td><code>numDerivativeInterior</code></td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtEnd</code></td> <td>integer</td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtStart</code></td> <td>integer</td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>polynomialSpline</code>	optional	<code>isPolynomial</code>	boolean		optional	<code>knotType</code>	<code>gml:KnotTypesType</code>		optional	<code>numDerivativeInterior</code>	integer	0	optional	<code>numDerivativesAtEnd</code>	integer	0	optional	<code>numDerivativesAtStart</code>	integer	0	optional
QName	Type	Default	Use																										
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	<code>polynomialSpline</code>	optional																										
<code>isPolynomial</code>	boolean		optional																										
<code>knotType</code>	<code>gml:KnotTypesType</code>		optional																										
<code>numDerivativeInterior</code>	integer	0	optional																										
<code>numDerivativesAtEnd</code>	integer	0	optional																										
<code>numDerivativesAtStart</code>	integer	0	optional																										

Complex Type `gml:KnotPropertyType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:KnotPropertyType</code> encapsulates a knot to use it in a geometric type.
Diagram	<p>The diagram shows the <code>KnotPropertyType</code> class with a relationship to the <code>Knot</code> class. A note states that <code>gml:KnotPropertyType</code> encapsulates a knot to use it in a geometric type.</p>

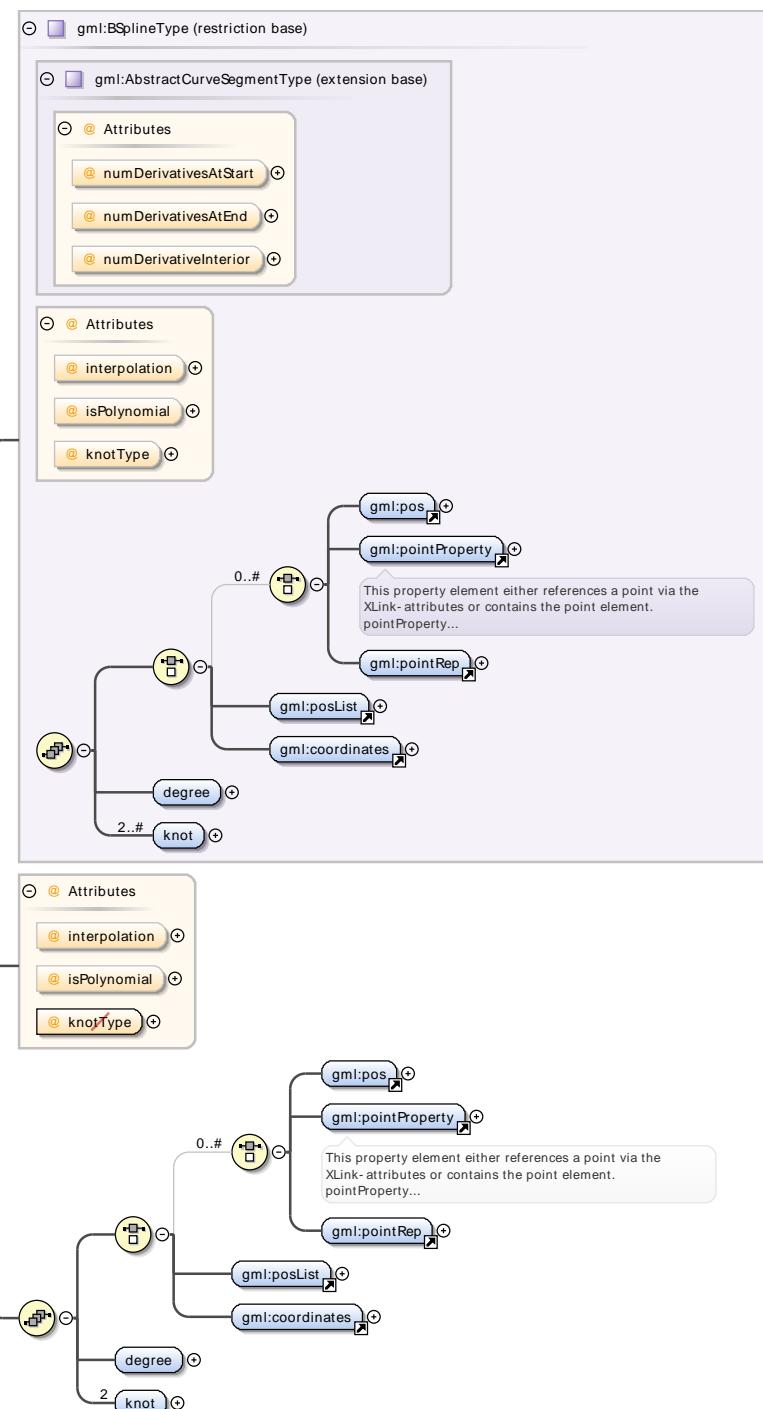
Complex Type `gml:KnotType`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram shows the <code>KnotType</code> class with a relationship to the <code>Knot</code> class. A note states that <code>gml:KnotType</code> represents a knot with value, multiplicity, and weight.</p>

Complex Type `gml:BezierType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type restriction of `gml:BSplineType`

Attributes	QName	Type	Fixed	Default	Use
	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	polynomialSpline		optional
	<code>isPolynomial</code>	boolean	true		optional
	<code>numDerivativeInterior</code>	integer		0	optional
	<code>numDerivativesAtEnd</code>	integer		0	optional
	<code>numDerivativesAtStart</code>	integer		0	optional

Complex Type `gml:OffsetCurveType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

```

classDiagram
    class OffsetCurveType {
        @ numDerivativesAtStart
        @ numDerivativesAtEnd
        @ numDerivativeInterior
        offsetBase
        distance
        refDirection
    }
    class AbstractCurveSegmentType {
        @ Attributes
        numDerivativesAtStart
        numDerivativesAtEnd
        numDerivativeInterior
    }
    OffsetCurveType <|-- AbstractCurveSegmentType
  
```

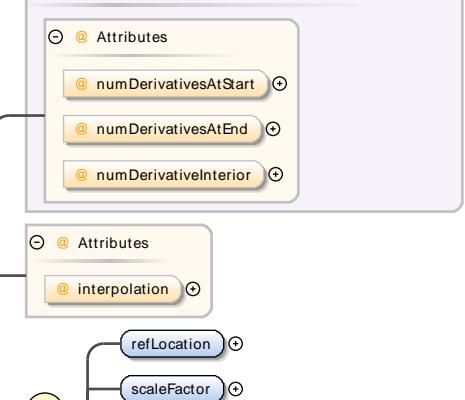
Type: extension of `gml:AbstractCurveSegmentType`

Attributes	QName	Type	Default	Use
	numDerivativeInterior	integer	0	optional
	numDerivativesAtEnd	integer	0	optional
	numDerivativesAtStart	integer	0	optional

Complex Type `gml:AffinePlacementType`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<pre> classDiagram class AffinePlacementType { location refDirection inDimension outDimension } AffinePlacementType "0..1" -- "1..#" "AffinePlacementType" </pre>

Complex Type gml:ClothoidType

Namespace	http://www.opengis.net/gml/3.2																									
Diagram	 <pre> classDiagram class gml::AbstractCurveSegmentType { <<extension base>> <<Attributes>> @ numDerivativesAtStart @ numDerivativesAtEnd @ numDerivativeInterior } class ClothoidType { <<Attributes>> @ interpolation refLocation scaleFactor startParameter endParameter } gml::AbstractCurveSegmentType < -- ClothoidType </pre>																									
Type	extension of gml:AbstractCurveSegmentType																									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:CurveInterpolationType</td> <td>clothoid</td> <td></td> <td>optional</td> </tr> <tr> <td>numDerivativeInterior</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtEnd</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td>numDerivativesAtStart</td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	interpolation	gml:CurveInterpolationType	clothoid		optional	numDerivativeInterior	integer		0	optional	numDerivativesAtEnd	integer		0	optional	numDerivativesAtStart	integer		0	optional
QName	Type	Fixed	Default	Use																						
interpolation	gml:CurveInterpolationType	clothoid		optional																						
numDerivativeInterior	integer		0	optional																						
numDerivativesAtEnd	integer		0	optional																						
numDerivativesAtStart	integer		0	optional																						

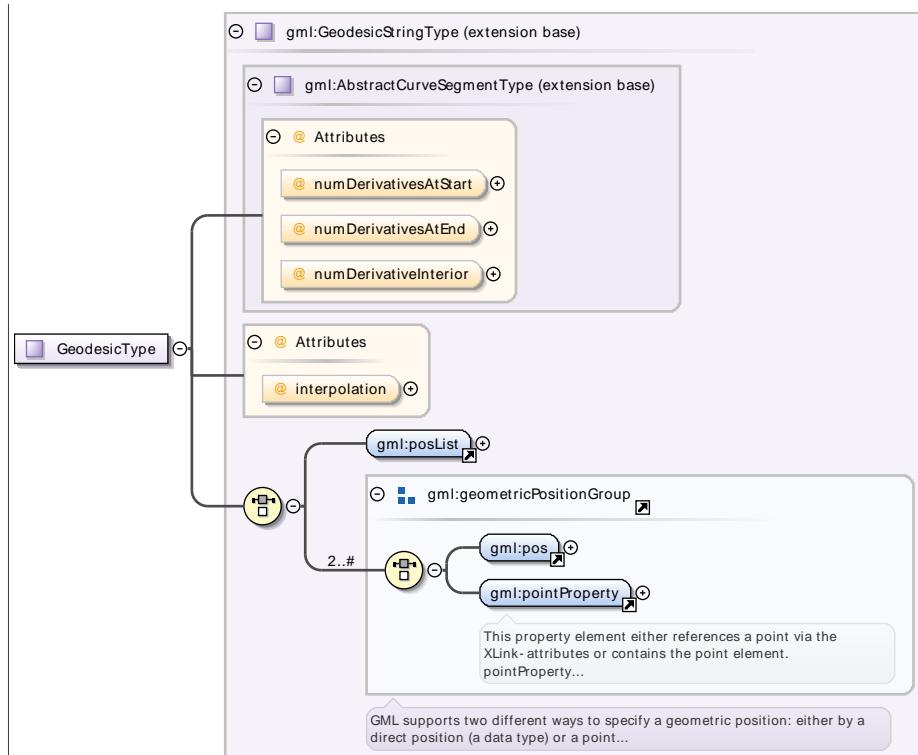
Complex Type `gml:GeodesicStringType`

Namespace	http://www.opengis.net/gml/3.2																													
Diagram																														
Type	extension of <code>gml:AbstractCurveSegmentType</code>																													
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>interpolation</code></td> <td><code>gml:CurveInterpolationType</code></td> <td>geodesic</td> <td></td> <td>optional</td> </tr> <tr> <td><code>numDerivativeInterior</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtEnd</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> <tr> <td><code>numDerivativesAtStart</code></td> <td>integer</td> <td></td> <td>0</td> <td>optional</td> </tr> </tbody> </table>					QName	Type	Fixed	Default	Use	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	geodesic		optional	<code>numDerivativeInterior</code>	integer		0	optional	<code>numDerivativesAtEnd</code>	integer		0	optional	<code>numDerivativesAtStart</code>	integer		0	optional
QName	Type	Fixed	Default	Use																										
<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	geodesic		optional																										
<code>numDerivativeInterior</code>	integer		0	optional																										
<code>numDerivativesAtEnd</code>	integer		0	optional																										
<code>numDerivativesAtStart</code>	integer		0	optional																										

Complex Type `gml:GeodesicType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

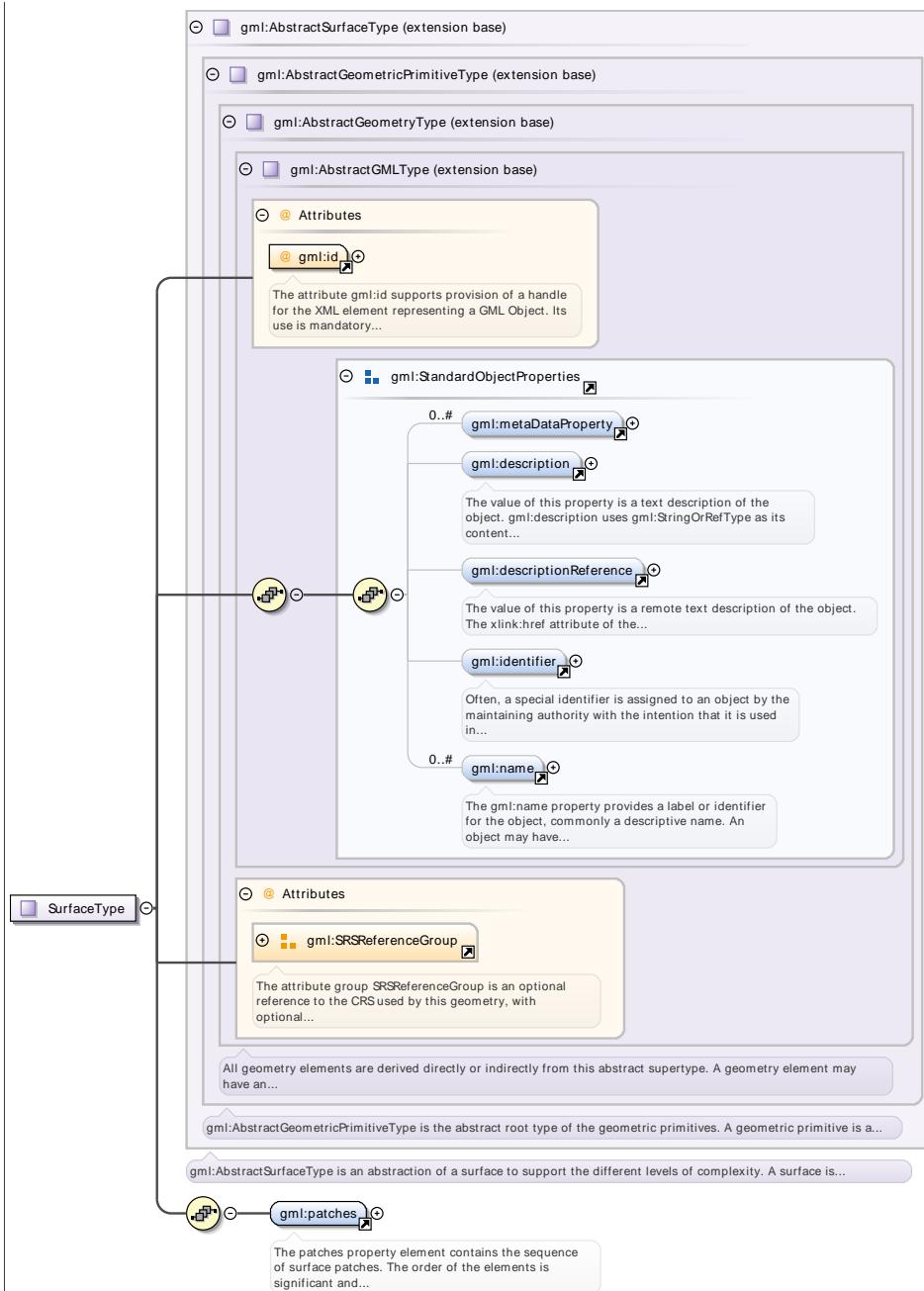


Type	extension of <code>gml:GeodesicStringType</code>				
Attributes	QName	Type	Fixed	Default	Use
	<code>interpolation</code>	<code>gml:CurveInterpolationType</code>	geodesic		optional
	<code>numDerivativeInterior</code>	integer		0	optional
	<code>numDerivativesAtEnd</code>	integer		0	optional
	<code>numDerivativesAtStart</code>	integer		0	optional

Complex Type `gml:SurfaceType`

Namespace	http://www.opengis.net/gml/3.2
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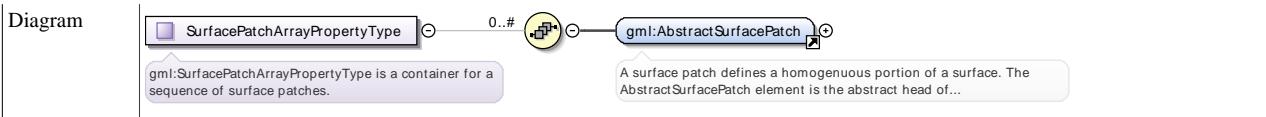
Diagram



Type	extension of gml:AbstractSurfaceType		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type **gml:SurfacePatchArrayPropertyType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:SurfacePatchArrayPropertyType is a container for a sequence of surface patches.



Complex Type **gml:AbstractSurfacePatchType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Properties	abstract: true

Complex Type **gml:OrientableSurfaceType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>gm:AbstractSurfaceType (extension base)</p> <p>gm:AbstractGeometricPrimitiveType (extension base)</p> <p>gm:AbstractGeometryType (extension base)</p> <p>gm:AbstractGMLType (extension base)</p> <p>Attributes</p> <ul style="list-style-type: none"> gm:id: The attribute gm:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory... gm:metaDataProperty: 0..# gm:description: The value of this property is a text description of the object. gm:description uses gm:StringOrRefType as its content... gm:descriptionReference: The value of this property is a remote text description of the object. The xlink:href attribute of the... gm:identifier: Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in... gm:name: 0..# The gm:name property provides a label or identifier for the object, commonly a descriptive name. An object may have... <p>Attributes</p> <ul style="list-style-type: none"> gm:SRSReferenceGroup: The attribute group gm:SRSReferenceGroup is an optional reference to the CRS used by this geometry, with optional... <p>All geometry elements are derived directly or indirectly from this abstract supertype. A geometry element may have an...</p> <p>gm:AbstractGeometricPrimitiveType is the abstract root type of the geometric primitives. A geometric primitive is a...</p> <p>gm:AbstractSurfaceType is an abstraction of a surface to support the different levels of complexity. A surface is...</p> <p>Attributes</p> <ul style="list-style-type: none"> orientation: gm:baseSurface: The property baseSurface references or contains the base surface. The property baseSurface either references the base...
Type	extension of gm:AbstractSurfaceType

Attributes	QName	Type	Default	Use	
	axisLabels	gml:NCNameList		optional	
	gml:id	ID		required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.				
	orientation	gml:SignType	+	optional	
	srsDimension	positiveInteger		optional	
	srsName	anyURI		optional	
	uomLabels	gml:NCNameList		optional	

Complex Type **gml:PolygonPatchType**

Namespace	http://www.opengis.net/gml/3.2														
Diagram	<pre> classDiagram class PolygonPatchType { <<extension of gml:AbstractSurfacePatchType>> <<Attributes>> <<@interpolation>> <<0..# gml:exterior>> <<0..# gml:interior>> } </pre>														
Type	extension of gml:AbstractSurfacePatchType														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>interpolation</td> <td>gml:SurfaceInterpolationType</td> <td>planar</td> <td>optional</td> <td></td> </tr> </tbody> </table>					QName	Type	Fixed	Use		interpolation	gml:SurfaceInterpolationType	planar	optional	
QName	Type	Fixed	Use												
interpolation	gml:SurfaceInterpolationType	planar	optional												

Complex Type **gml:AbstractRingPropertyType**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	A property with the content model of gml:AbstractRingPropertyType encapsulates a ring to represent the surface boundary property of a surface.				
Diagram	<pre> classDiagram class AbstractRingPropertyType { <<A property with the content model of gml:AbstractRingPropertyType encapsulates a ring to represent the surface boundary...>> } class AbstractRing { <<An abstraction of a ring to support surface boundaries of different complexity. The AbstractRing element is the...>> } AbstractRingPropertyType --> AbstractRing </pre>				

Complex Type **gml:AbstractRingType**

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<pre> classDiagram class AbstractRingType { <<abstract: true>> } </pre>				
Properties	abstract: true				

Complex Type **gml:TriangleType**

Namespace	http://www.opengis.net/gml/3.2				
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Diagram	<p>gm1:AbstractSurfacePatchType (extension base)</p> <p>Attributes</p> <p>@ interpolation</p> <p>gm1:exterior</p> <p>A boundary of a surface consists of a number of rings. In the normal 2D case, one of these rings is distinguished as...</p>								
Type	extension of gm1:AbstractSurfacePatchType								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>interpolation</td><td>gm1:SurfaceInterpolationType</td><td>planar</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	interpolation	gm1:SurfaceInterpolationType	planar	optional
QName	Type	Fixed	Use						
interpolation	gm1:SurfaceInterpolationType	planar	optional						

Complex Type gm1:RectangleType

Namespace	http://www.opengis.net/gml/3.2								
Diagram	<p>gm1:AbstractSurfacePatchType (extension base)</p> <p>Attributes</p> <p>@ interpolation</p> <p>gm1:exterior</p> <p>A boundary of a surface consists of a number of rings. In the normal 2D case, one of these rings is distinguished as...</p>								
Type	extension of gm1:AbstractSurfacePatchType								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>interpolation</td><td>gm1:SurfaceInterpolationType</td><td>planar</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	interpolation	gm1:SurfaceInterpolationType	planar	optional
QName	Type	Fixed	Use						
interpolation	gm1:SurfaceInterpolationType	planar	optional						

Complex Type gm1:RingType

Namespace	http://www.opengis.net/gml/3.2						
Diagram	<p>gm1:AbstractRingType (extension base)</p> <p>Attributes</p> <p>gm1:AggregationAttributeGroup</p> <p>gm1:curveMember</p> <p>A GML Object Collection is any GML Object with a property element in its content model whose content model is derived...</p>						
Type	extension of gm1:AbstractRingType						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>aggregationType</td><td>gm1:AggregationType</td><td>optional</td></tr> </tbody> </table>	QName	Type	Use	aggregationType	gm1:AggregationType	optional
QName	Type	Use					
aggregationType	gm1:AggregationType	optional					

Complex Type gm1:RingPropertyType

Namespace	http://www.opengis.net/gml/3.2
Annotations	A property with the content model of gm1:RingPropertyType encapsulates a ring to represent a component of a surface boundary.
Diagram	<p>gm1:Ring</p> <p>A property with the content model of gm1:RingPropertyType encapsulates a ring to represent a component of a surface...</p> <p>A ring is used to represent a single connected component of a surface boundary as specified in ISO 19107:2003, 6.3.6....</p>

Complex Type `gml:AbstractParametricCurveSurfaceType`

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>Diagram illustrating the structure of <code>gml:AbstractParametricCurveSurfaceType</code>. It is an extension of <code>gml:AbstractSurfacePatchType</code>. The type has an aggregation attribute group named <code>gml:AggregationAttributeGroup</code>. A note defines a GML Object Collection as any GML Object with a property element in its content model whose content model is derived...</p>		
Type	extension of <code>gml:AbstractSurfacePatchType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional

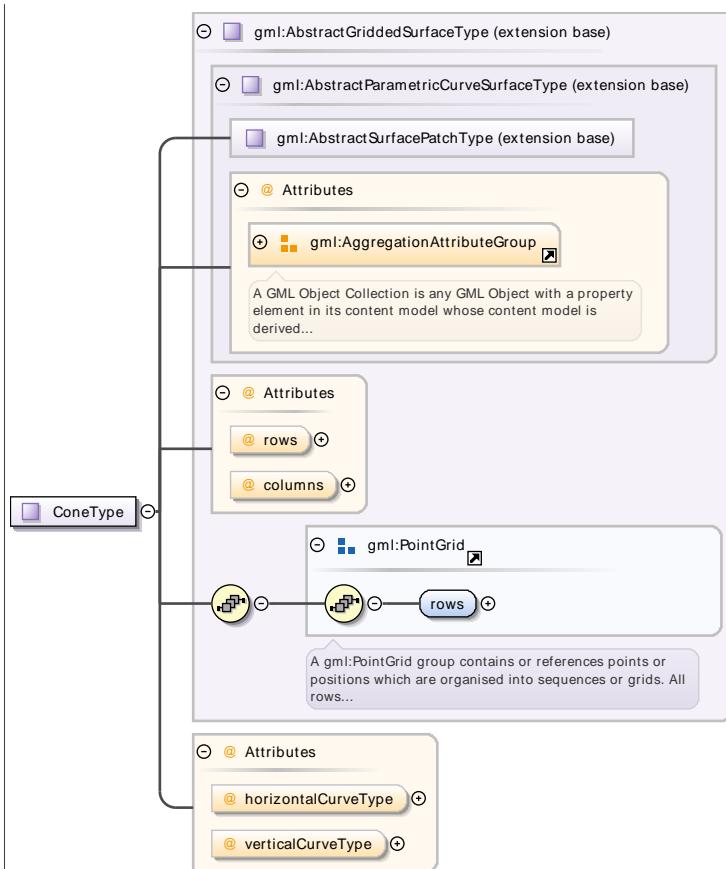
Complex Type `gml:AbstractGriddedSurfaceType`

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>Diagram illustrating the structure of <code>gml:AbstractGriddedSurfaceType</code>. It extends <code>gml:AbstractParametricCurveSurfaceType</code>, which in turn extends <code>gml:AbstractSurfacePatchType</code>. The type has attributes <code>@rows</code> and <code>@columns</code>. It also references a <code>gml:PointGrid</code> object.</p>		
Type	extension of <code>gml:AbstractParametricCurveSurfaceType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>columns</code>	integer	optional
	<code>rows</code>	integer	optional

Complex Type `gml:ConeType`

Namespace	http://www.opengis.net/gml/3.2		
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Diagram



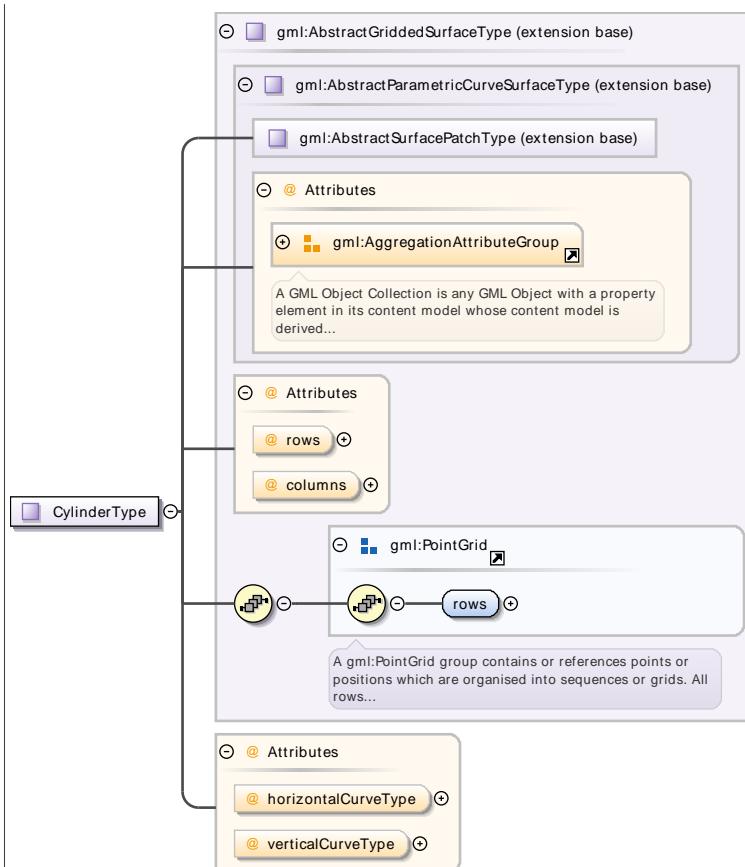
Type extension of gml:AbstractGriddedSurfaceType

Type	QName	Type	Fixed	Use
Attributes	aggregationType	gml:AggregationType		optional
	columns	integer		optional
	horizontalCurveType	gml:CurveInterpolationType	circularArc3Points	optional
	rows	integer		optional
	verticalCurveType	gml:CurveInterpolationType	linear	optional

Complex Type gml:CylinderType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



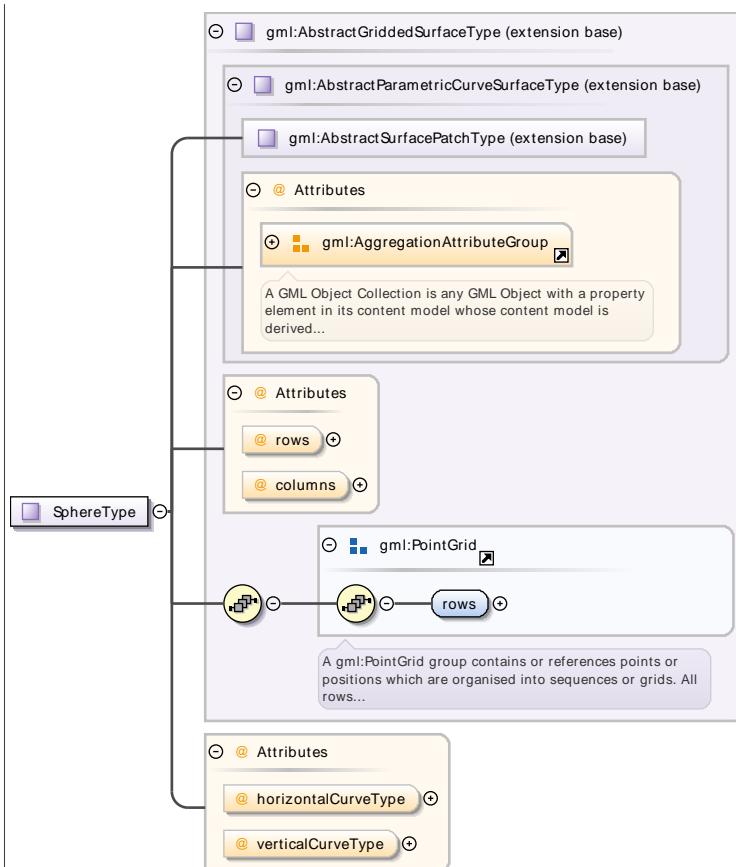
Type extension of gm1:AbstractGriddedSurfaceType

Type	extension of gm1:AbstractGriddedSurfaceType			
Attributes				
	QName	Type	Fixed	Use
	aggregationType	gm1:AggregationType		optional
	columns	integer		optional
	horizontalCurveType	gm1:CurveInterpolationType	circularArc3Points	optional
	rows	integer		optional
	verticalCurveType	gm1:CurveInterpolationType	linear	optional

Complex Type gm1:SphereType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



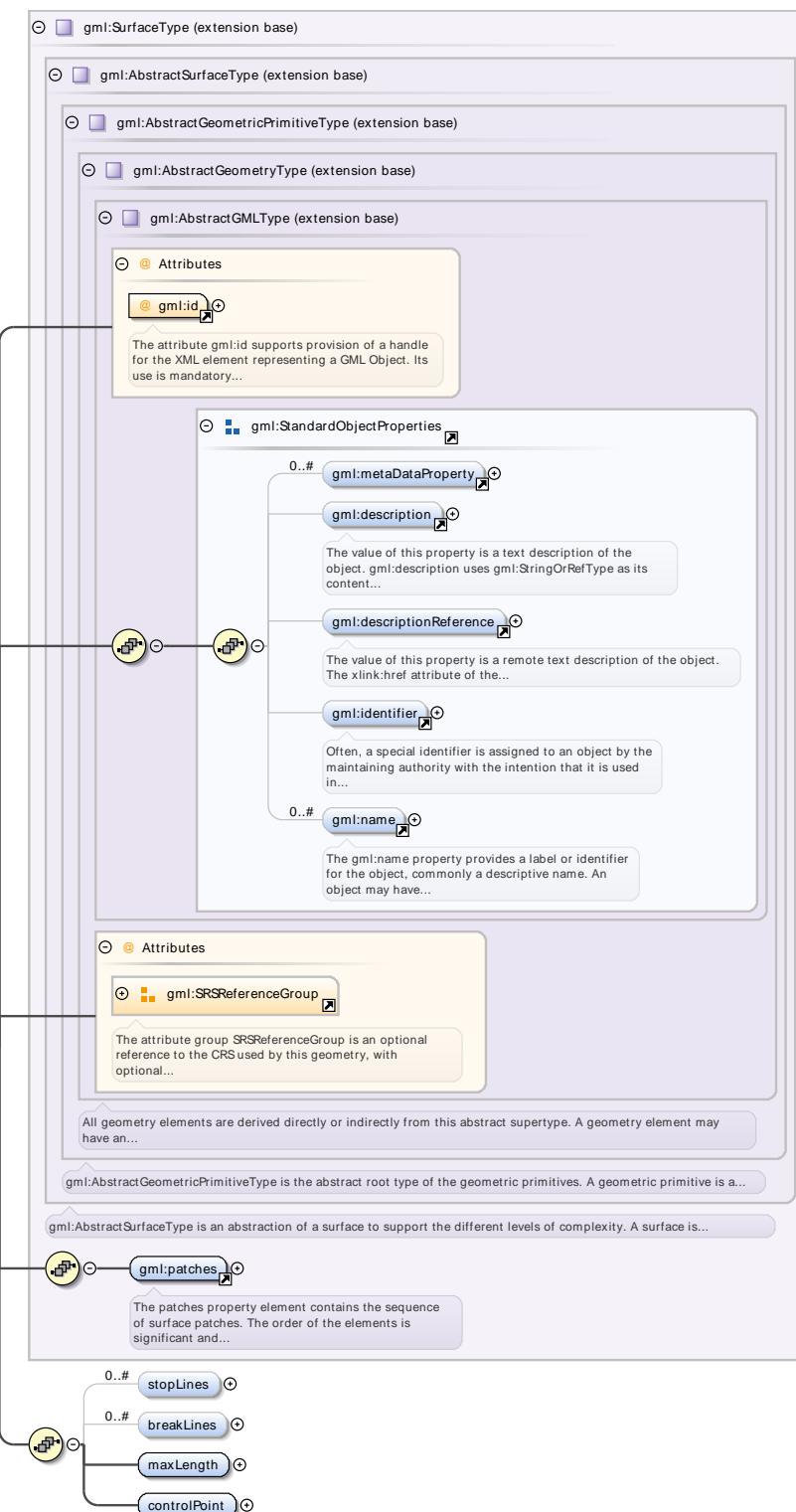
Type extension of gm1:AbstractGriddedSurfaceType

Type	extension of gm1:AbstractGriddedSurfaceType			
Attributes				
	QName	Type	Fixed	Use
	aggregationType	gm1:AggregationType		optional
	columns	integer		optional
	horizontalCurveType	gm1:CurveInterpolationType	circularArc3Points	optional
	rows	integer		optional
	verticalCurveType	gm1:CurveInterpolationType	circularArc3Points	optional

Complex Type gm1:TinType

Namespace	http://www.opengis.net/gml/3.2
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Diagram

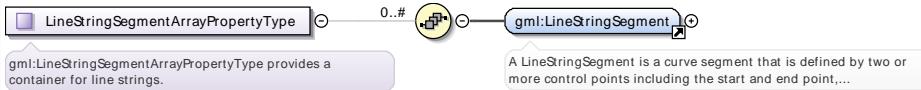


Type extension of `gml:SurfaceType`

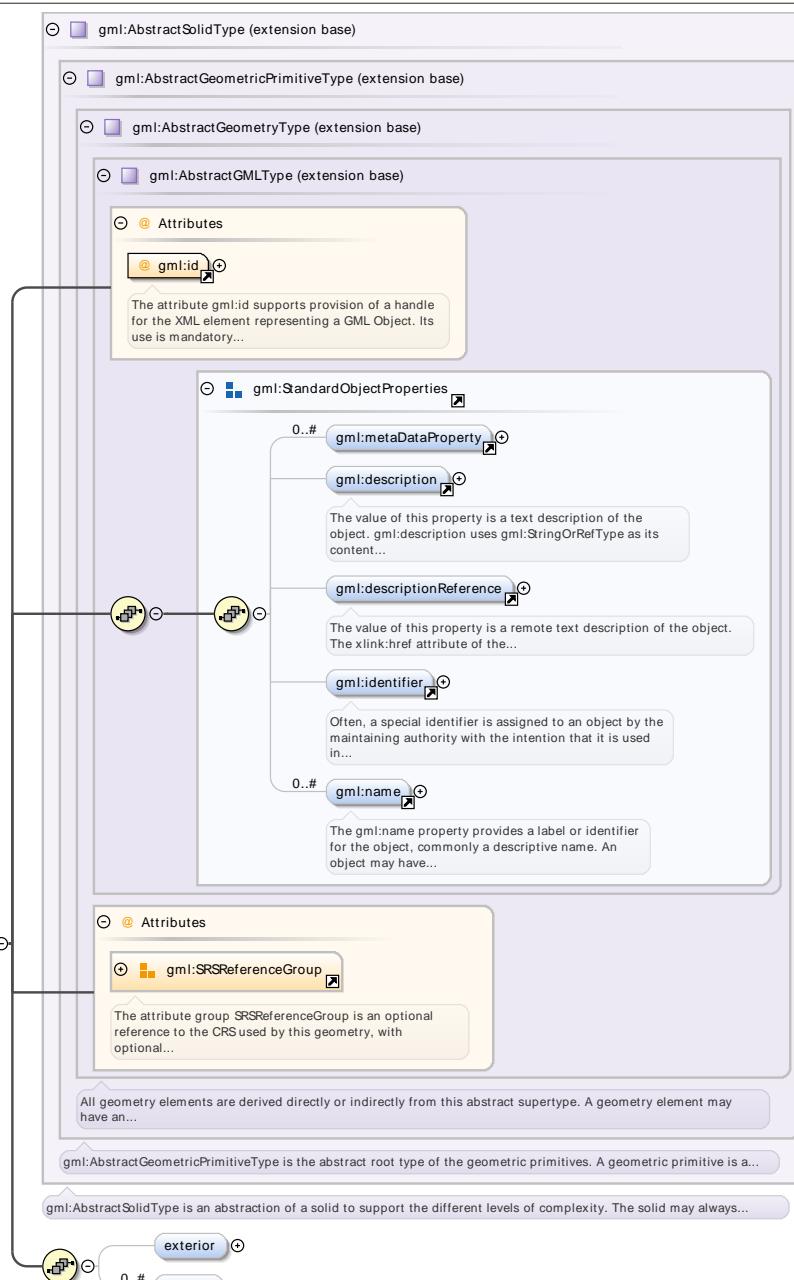
Type	Attributes	QName	Type	Use	
		<code>axisLabels</code>	<code>gml:NCNameList</code>	optional	
		<code>gml:id</code>	ID	required	
			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
		<code>srsDimension</code>	<code>positiveInteger</code>	optional	

QName	Type	Use
srsName	anyURI	optional
uomLabels	gml:NCNameList	optional

Complex Type **gml:LineStringSegmentArrayPropertyType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:LineStringSegmentArrayPropertyType provides a container for line strings.
Diagram	 <p>A LineStringSegment is a curve segment that is defined by two or more control points including the start and end point,...</p>

Complex Type **gml:SolidType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	 <p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory...</p> <p>The value of this property is a text description of the object. gml:description uses gml:StringOrRefType as its content...</p> <p>The value of this property is a remote text description of the object. The xlink:href attribute of the...</p> <p>Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in...</p> <p>The gml:name property provides a label or identifier for the object, commonly a descriptive name. An object may have...</p> <p>All geometry elements are derived directly or indirectly from this abstract supertype. A geometry element may have an...</p> <p>gml:AbstractGeometricPrimitiveType is the abstract root type of the geometric primitives. A geometric primitive is a...</p> <p>gml:AbstractSolidType is an abstraction of a solid to support the different levels of complexity. The solid may always...</p>
Type	extension of gml:AbstractSolidType

Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type **gml:ShellPropertyType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A property with the content model of gml:ShellPropertyType encapsulates a shell to represent a component of a solid boundary.
Diagram	

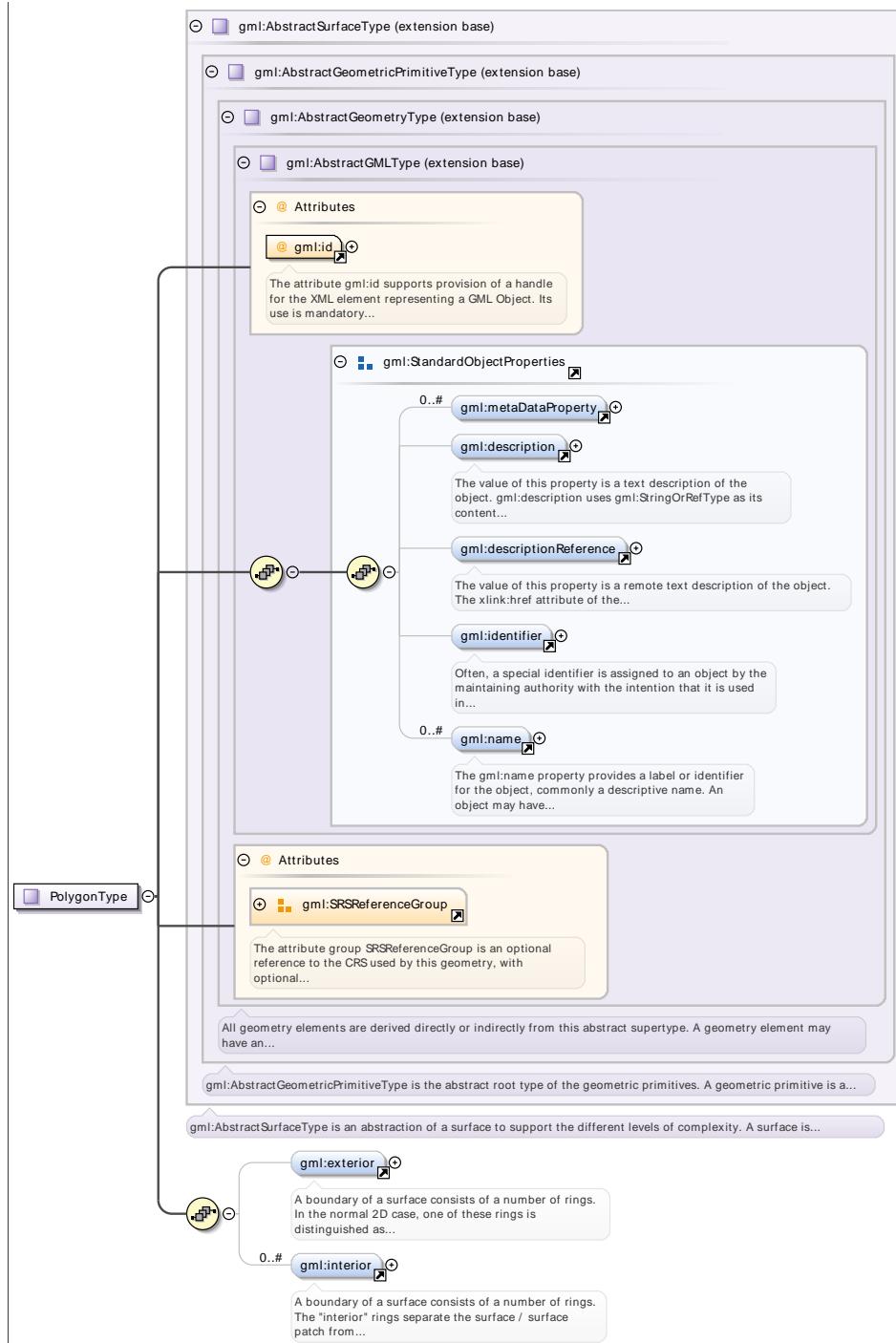
Complex Type **gml:ShellType**

Namespace	http://www.opengis.net/gml/3.2						
Diagram							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>aggregationType</td> <td>gml:AggregationType</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	aggregationType	gml:AggregationType	optional
QName	Type	Use					
aggregationType	gml:AggregationType	optional					

Complex Type **gml:PolygonType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gml:AbstractSurfaceType		
Attributes	QName	Type	Use
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

Complex Type `gml:LinearRingType`

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	extension of <code>gml:AbstractRingType</code>

Complex Type `gml:LinearRingPropertyType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A property with the content model of <code>gml:LinearRingPropertyType</code> encapsulates a linear ring to represent a component of a surface boundary.
Diagram	

Complex Type `gml:GeometricPrimitive.PropertyType`

Namespace	http://www.opengis.net/gml/3.2																																													
Annotations	A property that has a geometric primitive as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.																																													
Diagram																																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>owns</code></td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td><code>xlink:actuate</code></td> <td><code>xlink:actuateType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td><code>xlink:arcroleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:href</code></td> <td><code>xlink:hrefType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:role</code></td> <td><code>xlink:roleType</code></td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td><code>xlink:show</code></td> <td><code>xlink:showType</code></td> <td></td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	anyURI			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	<code>owns</code>	boolean		false	optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional	<code>xlink:role</code>	<code>xlink:roleType</code>			optional	<code>xlink:show</code>	<code>xlink:showType</code>			optional
QName	Type	Fixed	Default	Use																																										
<code>gml:remoteSchema</code>	anyURI			optional																																										
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<code>xlink:href</code>	<code>xlink:hrefType</code>			optional																																										
<code>xlink:role</code>	<code>xlink:roleType</code>			optional																																										
<code>xlink:show</code>	<code>xlink:showType</code>			optional																																										

QName	Type	Fixed	Default	Use
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Complex Type `gml:ScaleType`

Namespace	http://www.opengis.net/gml/3.2											
Diagram												
Type	extension of gml:MeasureType											
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td><td></td></tr> </tbody> </table>				QName	Type	Use		uom	gml:UomIdentifier	required	
QName	Type	Use										
uom	gml:UomIdentifier	required										

Complex Type `gml:TimeType`

Namespace	http://www.opengis.net/gml/3.2											
Diagram												
Type	extension of gml:MeasureType											
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td><td></td></tr> </tbody> </table>				QName	Type	Use		uom	gml:UomIdentifier	required	
QName	Type	Use										
uom	gml:UomIdentifier	required										

Complex Type `gml:GridLengthType`

Namespace	http://www.opengis.net/gml/3.2			
Diagram				
Type	extension of gml:MeasureType			

Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

Complex Type **gml:AreaType**

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>gml:MeasureType (extension base)</p> <p>double</p> <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p> <p>Attributes</p> <p>uom</p> <p>gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...</p>		
Type	extension of gml:MeasureType		
Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

Complex Type **gml:VolumeType**

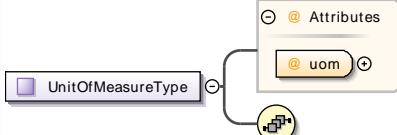
Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>gml:MeasureType (extension base)</p> <p>double</p> <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p> <p>Attributes</p> <p>uom</p> <p>gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...</p>		
Type	extension of gml:MeasureType		
Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

Complex Type **gml:SpeedType**

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>gml:MeasureType (extension base)</p> <p>double</p> <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p> <p>Attributes</p> <p>uom</p> <p>gml:MeasureType supports recording an amount encoded as a value of XML Schema double, together with a units of measure...</p>		
Type	extension of gml:MeasureType		
Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

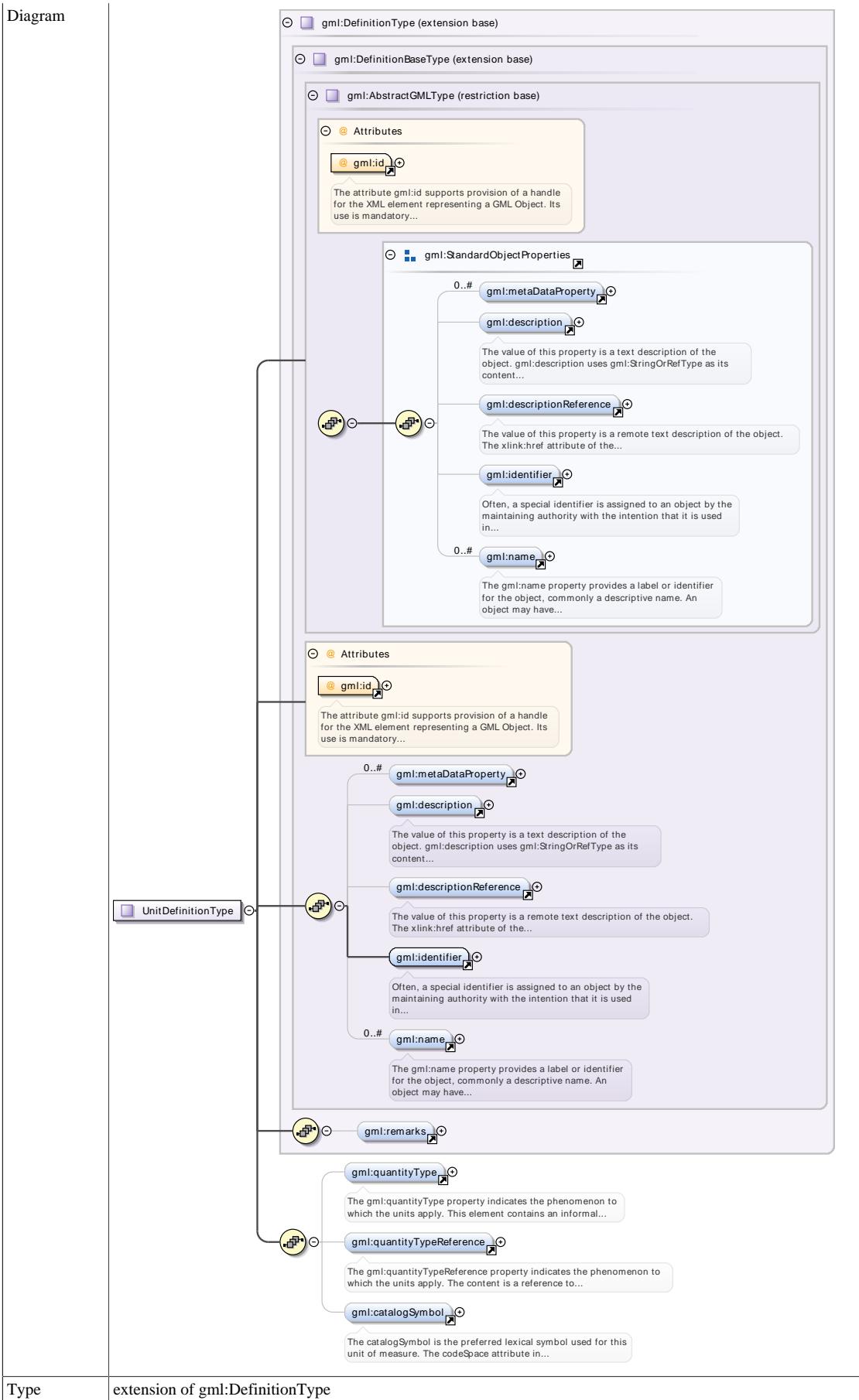
Complex Type **gml:UnitOfMeasureType**

Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Attributes	QName	Type	Use
	uom	gml:UomIdentifier	required

Complex Type **gml:UnitDefinitionType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



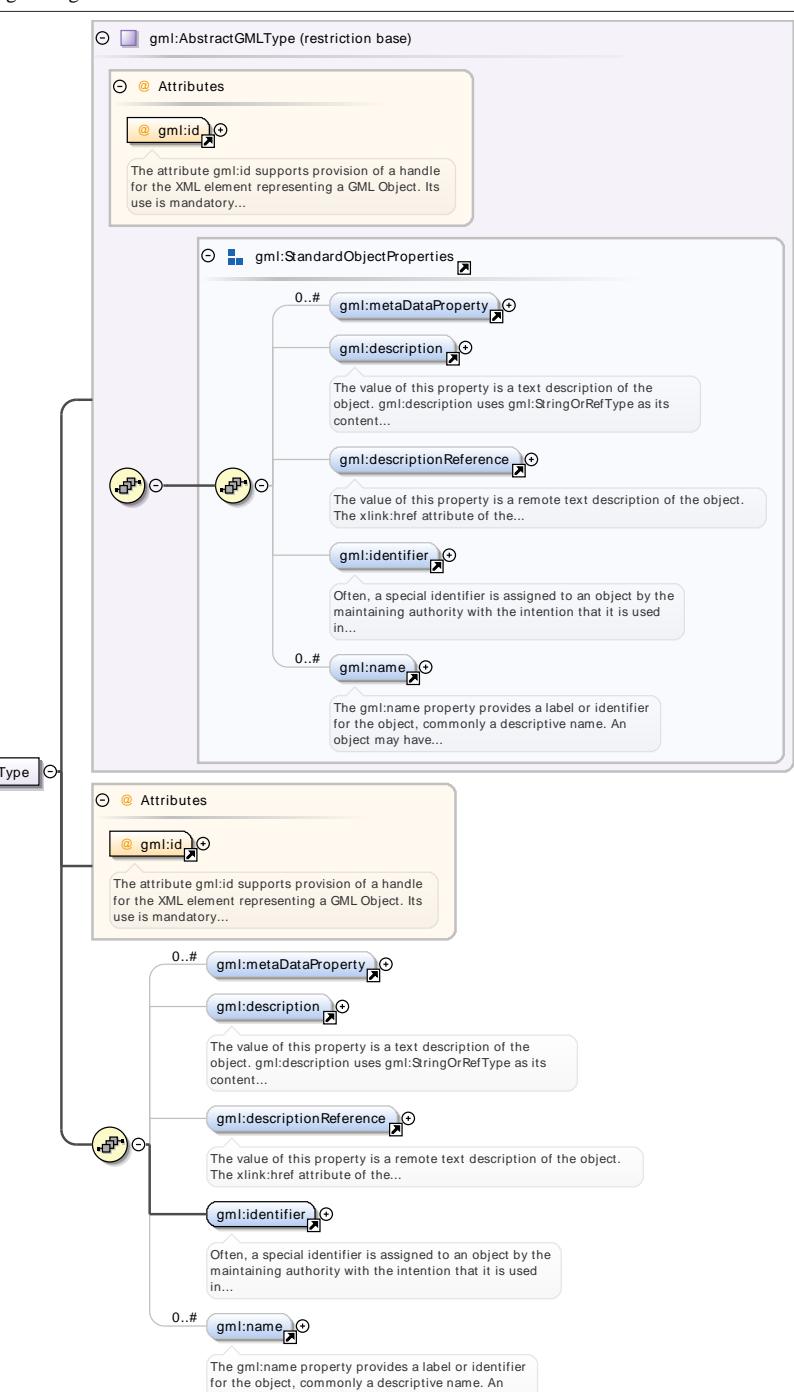
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type gml:DefinitionType

Namespace	http://www.opengis.net/gml/3.2
Diagram	<pre> classDiagram class gml:DefinitionBaseType { <<extension base>> <<restriction base=gml:AbstractGMLType>> <<Attributes>> <<gml:id>> <<gml:metaDataProperty>> <<gml:description>> <<gml:descriptionReference>> <<gml:identifier>> <<gml:name>> } class gml:AbstractGMLType { <<restriction base=gml:StandardObjectProperties>> <<Attributes>> <<gml:id>> } class gml:DefinitionType { <<extension base=gml:DefinitionBaseType>> <<Attributes>> <<gml:remarks>> } gml:DefinitionBaseType < -- gml:AbstractGMLType gml:AbstractGMLType < -- gml:DefinitionType </pre>
Type	extension of gml:DefinitionBaseType

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type gml:Definition BaseType

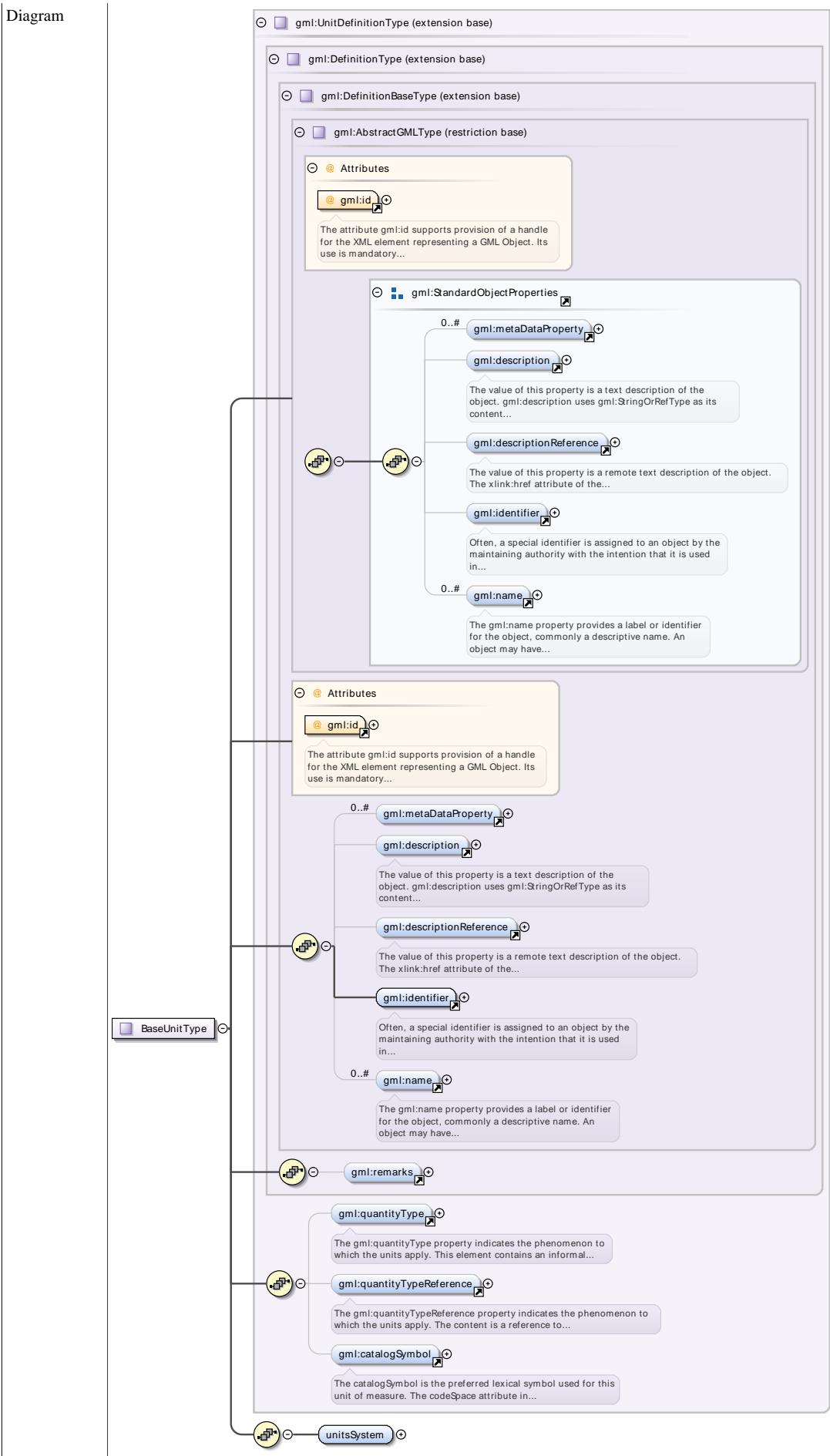
Namespace	http://www.opengis.net/gml/3.2		
Diagram			
Type	restriction of gml:AbstractGMLType		
Attributes	QName	Type	Use
	gml:id	ID	required

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Complex Type **gml:BaseUnitType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram

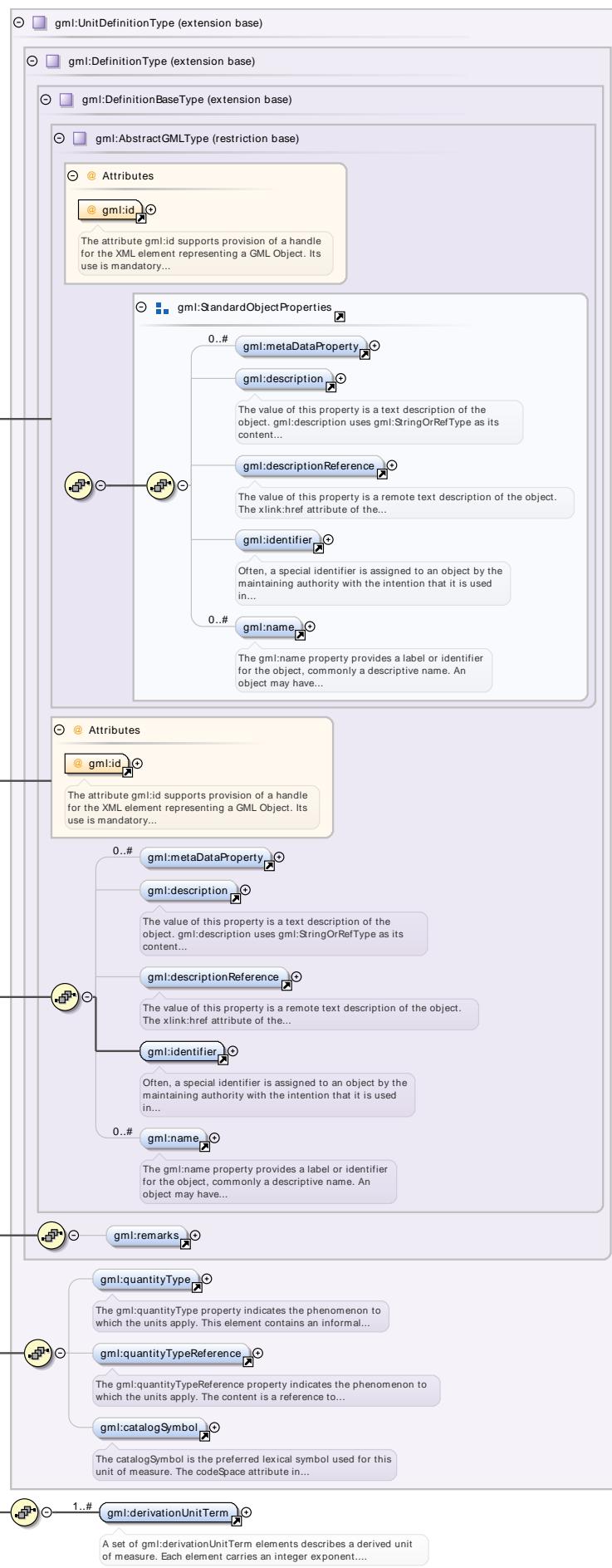


Type	extension of <code>gml:UnitDefinitionType</code>		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:DerivedUnitType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:UnitDefinitionType</code>			
Attributes	QName	Type	Use	
	<code>gml:id</code>	ID	required	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

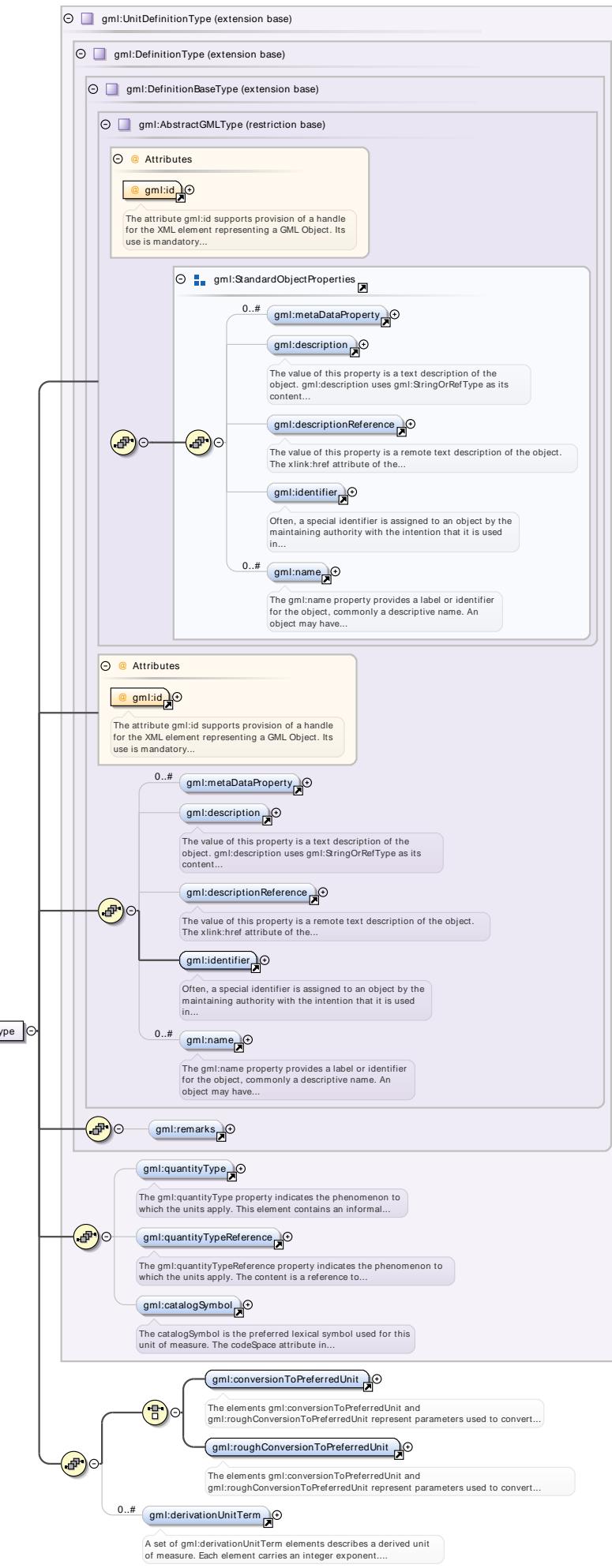
Complex Type `gml:DerivationUnitTermType`

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<pre> classDiagram class UnitOfMeasureType { <<gml:UnitOfMeasureType (extension base)>> <<Attributes>> @ uom } class DerivationUnitTermType { <<DerivationUnitTermType>> <<Attributes>> @ exponent } UnitOfMeasureType < -- DerivationUnitTermType DerivationUnitTermType "3" -- "2" UnitOfMeasureType </pre>		
Type	extension of <code>gml:UnitOfMeasureType</code>		
Attributes	QName	Type	Use
	<code>exponent</code>	integer	optional
	<code>uom</code>	<code>gml:UomIdentifier</code>	required

Complex Type `gml:ConventionalUnitType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:UnitDefinitionType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:ConversionToPreferredUnitType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<p>The inherited attribute <code>uom</code> references the preferred unit that this conversion applies to. The conversion of a unit to the preferred unit for this physical quantity type is specified by an arithmetic conversion (scaling and/or offset). The content model extends <code>gml:UnitOfMeasureType</code>, which has a mandatory attribute <code>uom</code> which identifies the preferred unit for the physical quantity type that this conversion applies to. The conversion is specified by a choice of - <code>gml:factor</code>, which defines the scale factor, or - <code>gml:formula</code>, which defines a formula by which a value using the conventional unit of measure can be converted to obtain the corresponding value using the preferred unit of measure. The formula defines the parameters of a simple formula by which a value using the conventional unit of measure can be converted to the corresponding value using the preferred unit of measure. The formula element contains elements <code>a</code>, <code>b</code>, <code>c</code> and <code>d</code>, whose values use the XML Schema type <code>double</code>. These values are used in the formula $y = (a + bx) / (c + dx)$, where x is a value using this unit, and y is the corresponding value using the base unit. The elements <code>a</code> and <code>d</code> are optional, and if values are not provided, those parameters are considered to be zero. If values are not provided for both <code>a</code> and <code>d</code>, the formula is equivalent to a fraction with numerator and denominator parameters.</p>		
Diagram			
Type	extension of <code>gml:UnitOfMeasureType</code>		
Attributes	QName <code>uom</code>	Type <code>gml:UomIdentifier</code>	Use required

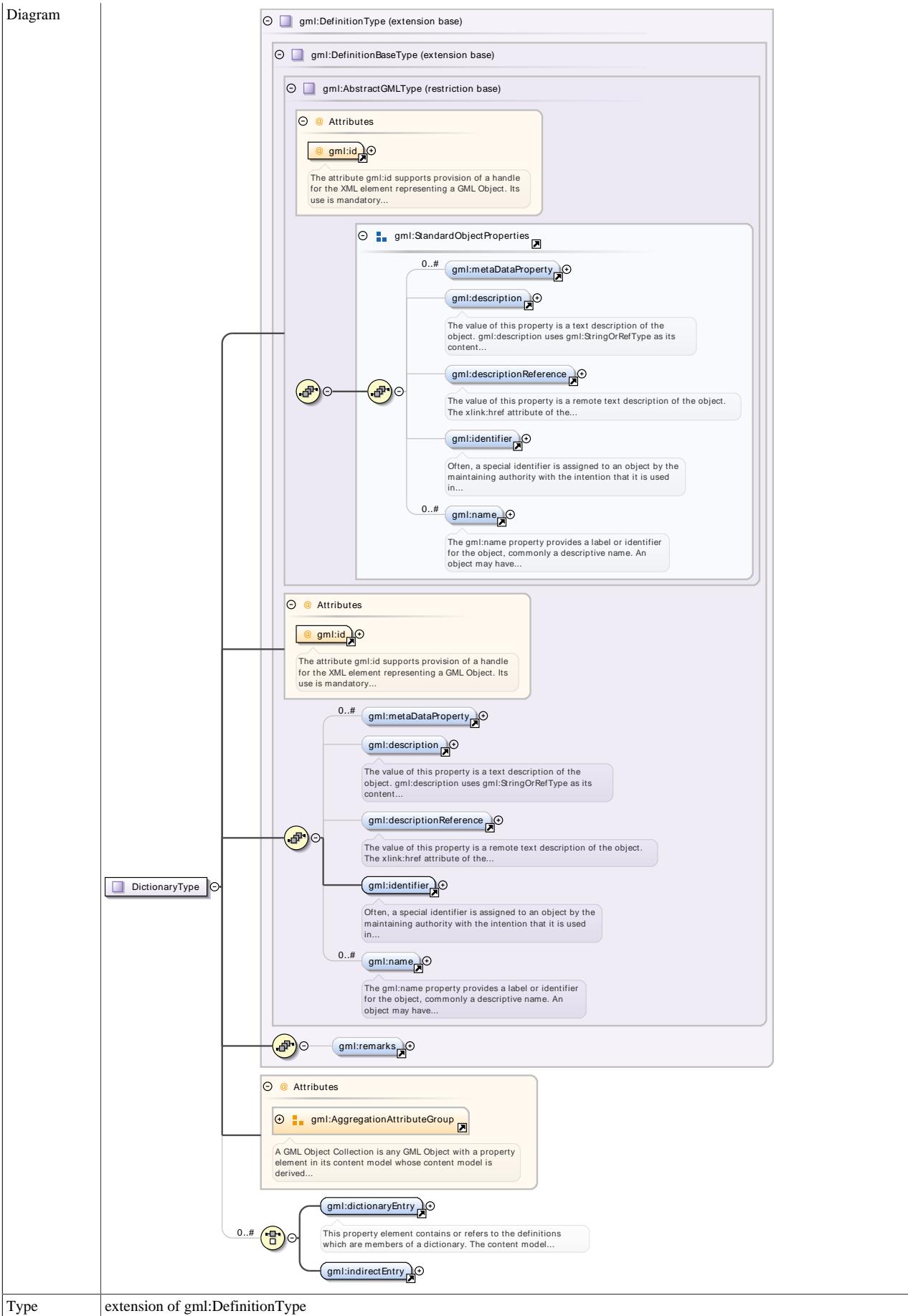
Complex Type `gml:FormulaType`

Namespace	http://www.opengis.net/gml/3.2		
Diagram			

Complex Type `gml:DictionaryType`

Namespace	http://www.opengis.net/gml/3.2		
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Diagram



Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type **gml:DictionaryEntryType**

Namespace	http://www.opengis.net/gml/3.2																																																							
Diagram																																																								
Type	extension of gml:AbstractMemberType																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gml:remoteSchema	anyURI			optional																																																				
nilReason	gml:NilReasonType			optional																																																				
owns	boolean		false	optional																																																				
xlink:actuate	xlink:actuateType			optional																																																				
xlink:arcrole	xlink:arcroleType			optional																																																				
xlink:href	xlink:hrefType			optional																																																				
xlink:role	xlink:roleType			optional																																																				
xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Complex Type **gml:AbstractMemberType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>To create a collection of GML Objects that are not all features, a property type shall be derived by extension from gml:AbstractMemberType. This abstract property type is intended to be used only in object types where software shall be able to identify that an instance of such an object type is to be interpreted as a collection of objects. By default, this abstract property type does not imply any ownership of the objects in the collection. The owns attribute of gml:OwnershipAttributeGroup may be used on a property element instance to assert ownership of an object in the collection. A collection shall not own an object already owned by another object.</p>

Diagram											
Properties	abstract: true										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>owns</td> <td>boolean</td> <td>false</td> <td>optional</td> <td></td> </tr> </tbody> </table>	QName	Type	Default	Use		owns	boolean	false	optional	
QName	Type	Default	Use								
owns	boolean	false	optional								

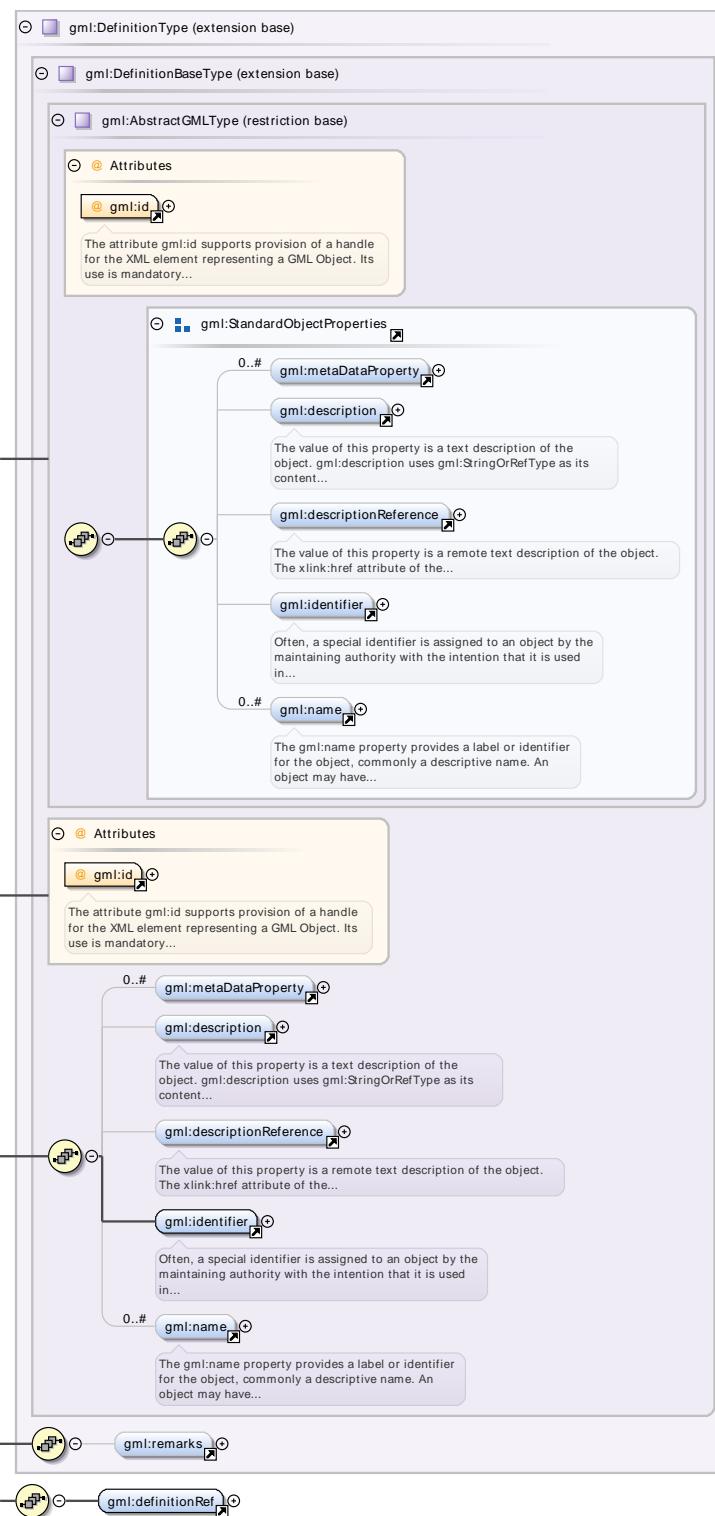
Complex Type **gml:IndirectEntryType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	

Complex Type **gml:DefinitionProxyType**

Namespace	http://www.opengis.net/gml/3.2
-----------	--------------------------------

Diagram



Type extension of `gml:DefinitionType`

Attributes	QName	Type	Use	
	<code>gml:id</code>	ID	required	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:AssociationRoleType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gm1:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gm1:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gm1:remoteSchema	anyURI			optional	nilReason	gm1:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																				
gm1:remoteSchema	anyURI			optional																																																				
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xlink:actuate	xlink:actuateType			optional																																																				
xlink:arcrole	xlink:arcroleType			optional																																																				
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xlink:role	xlink:roleType			optional																																																				
xlink:show	xlink:showType			optional																																																				
xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Complex Type gm1:Inline.PropertyType

Namespace	http://www.opengis.net/gml/3.2								
Diagram									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Complex Type gm1:AbstractMetadata.PropertyType

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>To associate metadata described by any XML Schema with a GML object, a property element shall be defined whose content model is derived by extension from gm1:AbstractMetadata.PropertyType. The value of such a property shall be metadata. The content model of such a property type, i.e. the metadata application schema shall be specified by the GML Application Schema. By default, this abstract property type does not imply any ownership of the metadata. The owns attribute of gm1:OwnershipAttributeGroup may be used on a metadata property element instance to assert ownership of the metadata. If metadata following the conceptual model of ISO 19115 is to be encoded in a GML document, the corresponding Implementation Specification specified in ISO/TS 19139 shall be used to encode the metadata information.</p>
Diagram	
Properties	abstract: true

Attributes	QName	Type	Default	Use	
	owns	boolean	false	optional	

Complex Type `gml:CodeListType`

Namespace	http://www.opengis.net/gml/3.2														
Annotations	gml:CodeListType provides for lists of terms. The values in an instance element shall all be valid according to the rules of the dictionary, classification scheme, or authority identified by the value of its codeSpace attribute.														
Diagram	<pre> classDiagram class CodeListType { <<gml:CodeListType provides for lists of terms. The values in an instance element shall all be valid according to the rules of the dictionary, classification scheme, or authority identified by the value of its codeSpace attribute.>> <<@Attributes <<@codeSpace } class NameList { <<A type for a list of values of the respective simple type.>> } CodeListType < -- NameList CodeListType < -- NameList </pre>														
Type	extension of gml:NameList														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>codeSpace</td> <td>anyURI</td> <td>optional</td> <td></td> <td></td> </tr> </tbody> </table>					QName	Type	Use			codeSpace	anyURI	optional		
QName	Type	Use													
codeSpace	anyURI	optional													

Complex Type `gml:CodeOrNilReasonListType`

Namespace	http://www.opengis.net/gml/3.2														
Annotations	gml:CodeOrNilReasonListType provides for lists of terms. The values in an instance element shall all be valid according to the rules of the dictionary, classification scheme, or authority identified by the value of its codeSpace attribute. An instance element may also include embedded values from NilReasonType. It is intended to be used in situations where a term or classification is expected, but the value may be absent for some reason.														
Diagram	<pre> classDiagram class CodeOrNilReasonListType { <<gml:CodeOrNilReasonListType provides for lists of terms. The values in an instance element shall all be valid according to the rules of the dictionary, classification scheme, or authority identified by the value of its codeSpace attribute. It is intended to be used in situations where a term or classification is expected, but the value may be absent for some reason.>> <<@Attributes <<@codeSpace } class NameOrNilReasonList { <<A type for a list of values of the respective simple type.>> } CodeOrNilReasonListType < -- NameOrNilReasonList CodeOrNilReasonListType < -- NameOrNilReasonList </pre>														
Type	extension of gml:NameOrNilReasonList														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>codeSpace</td> <td>anyURI</td> <td>optional</td> <td></td> <td></td> </tr> </tbody> </table>					QName	Type	Use			codeSpace	anyURI	optional		
QName	Type	Use													
codeSpace	anyURI	optional													

Complex Type `gml:MeasureListType`

Namespace	http://www.opengis.net/gml/3.2														
Annotations	gml:MeasureListType provides for a list of quantities.														
Diagram	<pre> classDiagram class MeasureListType { <<gml:MeasureListType provides for a list of quantities.>> <<@Attributes <<@uom } class doubleList { <<A type for a list of values of the respective simple type.>> } MeasureListType < -- doubleList MeasureListType < -- doubleList </pre>														
Type	extension of gml:doubleList														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> <td></td> <td></td> </tr> </tbody> </table>					QName	Type	Use			uom	gml:UomIdentifier	required		
QName	Type	Use													
uom	gml:UomIdentifier	required													

Complex Type `gml:MeasureOrNilReasonListType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:MeasureOrNilReasonListType provides for a list of quantities. An instance element may also include embedded values from NilReasonType. It is intended to be used in situations where a value is expected, but the value may be absent for some reason.				

Diagram	<p>gml:MeasureOrNilReasonListType provides for a list of quantities. An instance element may also include embedded values...</p>						
Type	extension of gml:doubleOrNilReasonList						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>uom</td><td>gml:UomIdentifier</td><td>required</td></tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

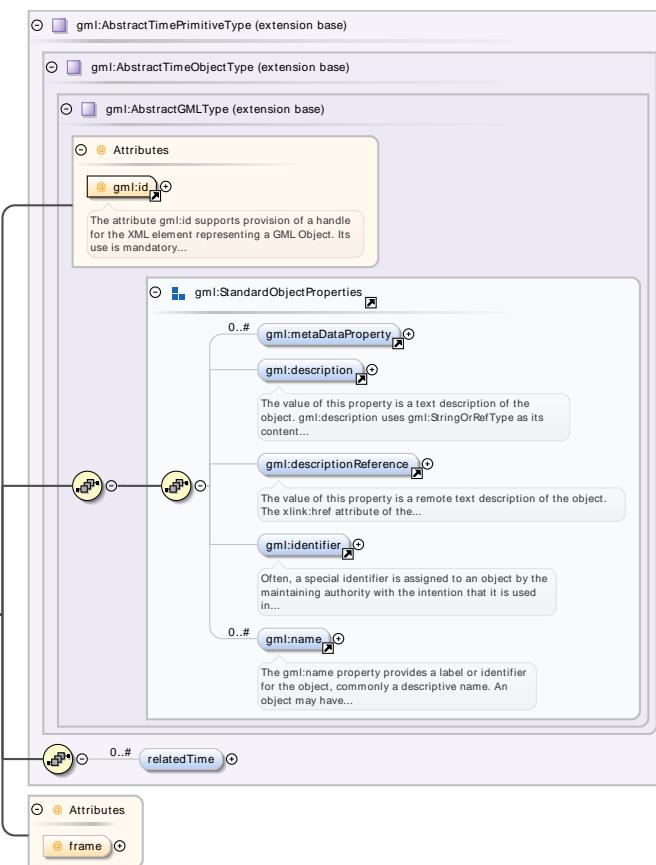
Complex Type gml:AbstractTimeComplexType

Namespace	http://www.opengis.net/gml/3.2									
Diagram	<p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory...</p> <p>The value of this property is a text description of the object. gml:description uses gml:StringOrRefType as its content...</p> <p>The value of this property is a remote text description of the object. The xlink:href attribute of the...</p> <p>Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in...</p> <p>The gml:name property provides a label or identifier for the object, commonly a descriptive name. An object may have...</p>									
Type	extension of gml:AbstractTimeObjectType									
Properties	abstract: true									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>ID</td><td>required</td></tr> <tr> <td></td><td></td><td>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
QName	Type	Use								
gml:id	ID	required								
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.								

Complex Type gml:AbstractTimeGeometricPrimitiveType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `gml:AbstractTimePrimitiveType`

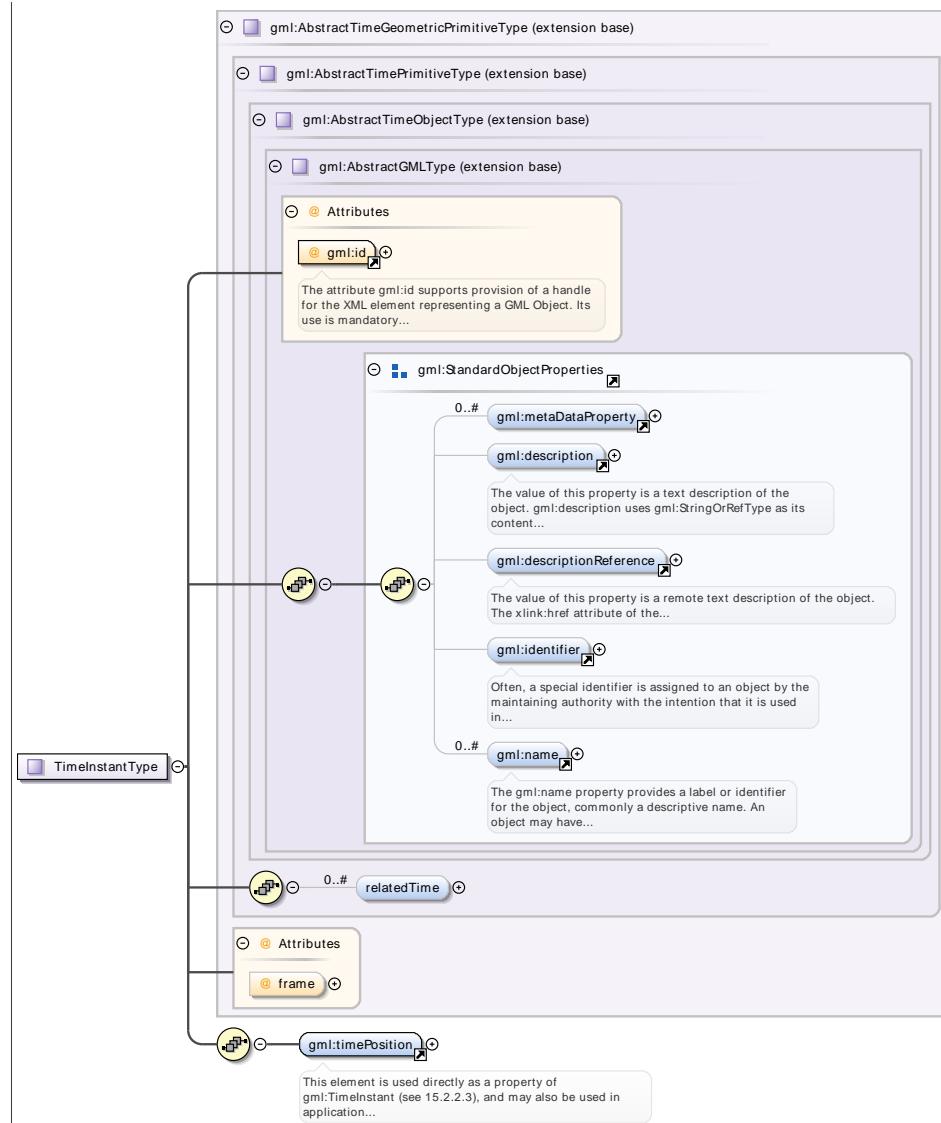
Properties abstract: true

Attributes	QName	Type	Default	Use	
	frame	anyURI	#ISO-8601	optional	
	gml:id	ID		required	
The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.					

Complex Type `gml:TimeInstantType`

Namespace	http://www.opengis.net/gml/3.2
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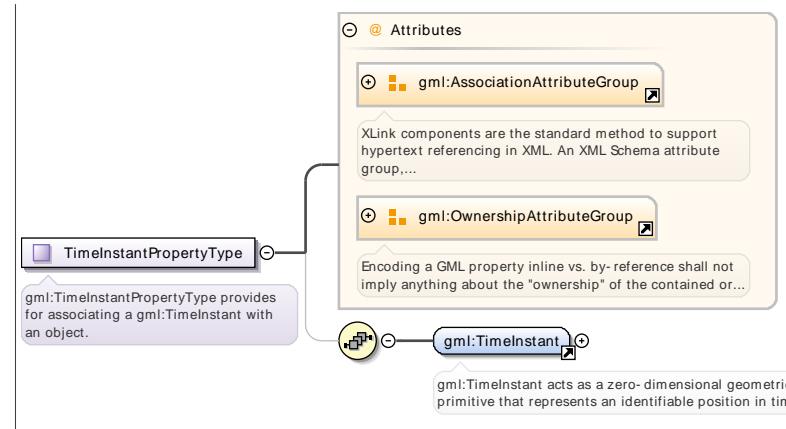
Diagram



Type	extension of <code>gml:AbstractTimeGeometricPrimitiveType</code>												
Properties	final: extension, restriction												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>frame</code></td> <td>anyURI</td> <td>#ISO-8601</td> <td>optional</td> </tr> <tr> <td><code>gml:id</code></td> <td>ID</td> <td></td> <td>required</td> </tr> </tbody> </table> <p>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	QName	Type	Default	Use	<code>frame</code>	anyURI	#ISO-8601	optional	<code>gml:id</code>	ID		required
QName	Type	Default	Use										
<code>frame</code>	anyURI	#ISO-8601	optional										
<code>gml:id</code>	ID		required										

Complex Type `gml:TimeInstantPropertyType`

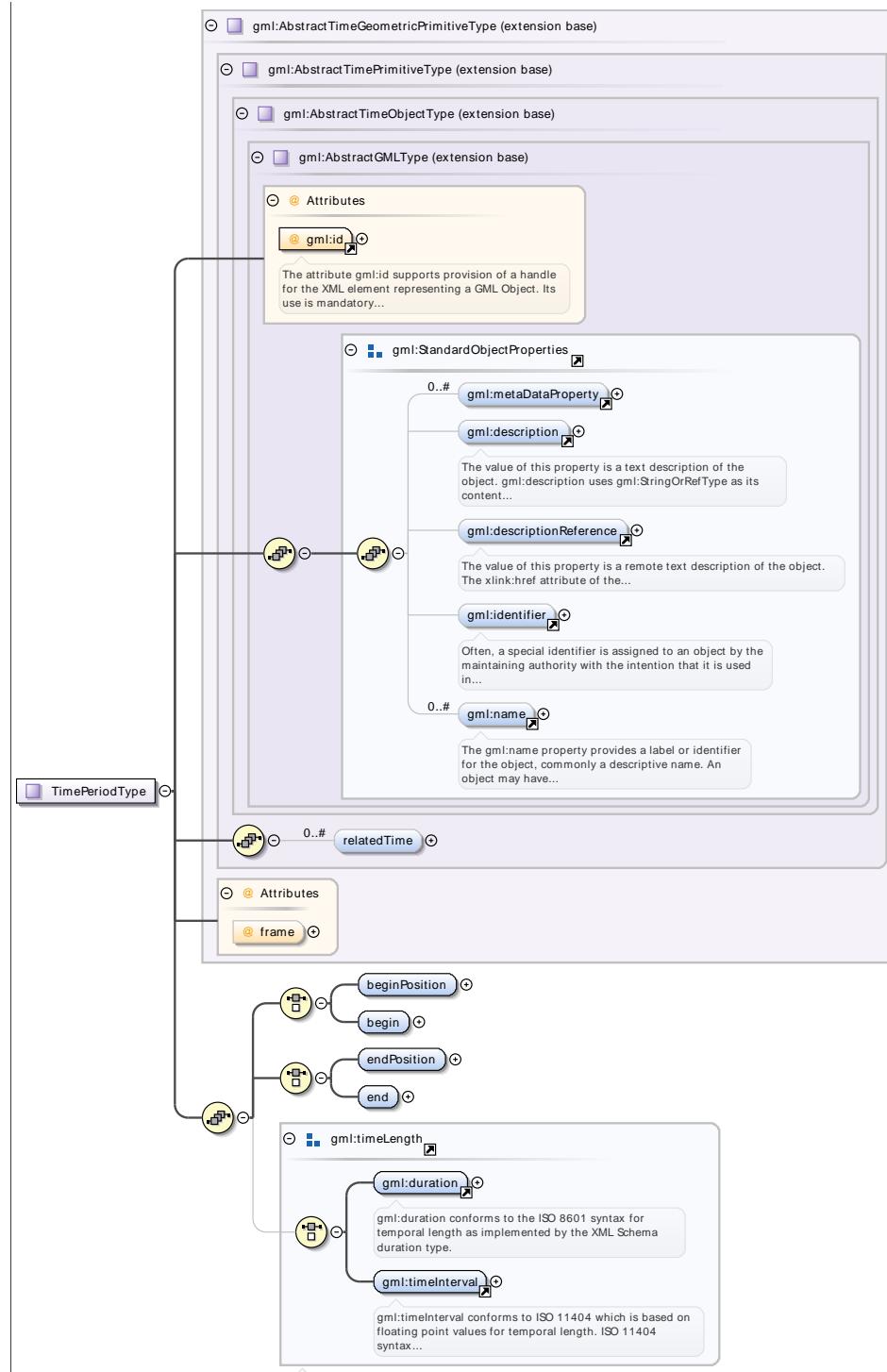
Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:TimeInstantPropertyType</code> provides for associating a <code>gml:TimeInstant</code> with an object.

Diagram	 <p>Diagram illustrating the structure of the <code>TimeInstantPropertyType</code> complex type. It includes attributes for <code>AssociationAttributeGroup</code> and <code>OwnershipAttributeGroup</code>, and a reference to the <code>TimeInstant</code> type.</p>																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>owns</code></td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td><code>xlink:actuate</code></td><td><code>xlink:actuateType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:arcrole</code></td><td><code>xlink:arcroleType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:href</code></td><td><code>xlink:hrefType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:role</code></td><td><code>xlink:roleType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:show</code></td><td><code>xlink:showType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:title</code></td><td><code>xlink:titleAttrType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:type</code></td><td><code>xlink:typeType</code></td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	anyURI			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	<code>owns</code>	boolean		false	optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional	<code>xlink:role</code>	<code>xlink:roleType</code>			optional	<code>xlink:show</code>	<code>xlink:showType</code>			optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional
QName	Type	Fixed	Default	Use																																																				
<code>gml:remoteSchema</code>	anyURI			optional																																																				
<code>nilReason</code>	<code>gml:NilReasonType</code>			optional																																																				
<code>owns</code>	boolean		false	optional																																																				
<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional																																																				
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<code>xlink:role</code>	<code>xlink:roleType</code>			optional																																																				
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<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional																																																				
<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional																																																				

Complex Type `gml:TimePeriodType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gm1:AbstractTimeGeometricPrimitiveType</code>				
Attributes	QName	Type	Default	Use	
	frame	anyURI	#ISO-8601	optional	
	gm1:id	ID		required	
	The attribute <code>gm1:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.				

Complex Type `gm1:TimeIntervalLengthType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>TimeIntervalLengthType</p> <p>decimal</p> <p>Built-in primitive type. The decimal datatype represents arbitrary precision decimal numbers.</p> <p>Attributes</p> <ul style="list-style-type: none"> @unit @radix @factor 												
Type	extension of decimal												
Properties	final: extension, restriction												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>factor</td> <td>integer</td> <td>optional</td> </tr> <tr> <td>radix</td> <td>positiveInteger</td> <td>optional</td> </tr> <tr> <td>unit</td> <td>gml:TimeUnitType</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	factor	integer	optional	radix	positiveInteger	optional	unit	gml:TimeUnitType	required
QName	Type	Use											
factor	integer	optional											
radix	positiveInteger	optional											
unit	gml:TimeUnitType	required											

Complex Type gml:TimePeriodPropertyType

Namespace	http://www.opengis.net/gml/3.2																																																											
Annotations	gml:TimePeriodPropertyType provides for associating a gml:TimePeriod with an object.																																																											
Diagram	<p>TimePeriodPropertyType</p> <p>gml:TimePeriodPropertyType provides for associating a gml:TimePeriod with an object.</p> <p>Attributes</p> <ul style="list-style-type: none"> gml:AssociationAttributeGroup gml:OwnershipAttributeGroup <p>gml:TimePeriod</p> <p>gml:TimePeriod acts as a one-dimensional geometric primitive that represents an identifiable extent in time. The...</p>																																																											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>					QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
QName	Type	Fixed	Default	Use																																																								
gml:remoteSchema	anyURI			optional																																																								
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xlink:type	xlink:typeType	simple		optional																																																								

Complex Type gml:DirectionPropertyType

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>Diagram illustrating the structure of the <code>DirectionPropertyType</code> complex type. It inherits from <code>DirectionVectorType</code> and has associations with <code>gml:OwnershipAttributeGroup</code> and <code>gml:AssociationAttributeGroup</code>. The <code>gml:AssociationAttributeGroup</code> association is annotated with: "Encoding a GML property inline vs. by-reference shall not imply anything about the 'ownership' of the contained or..." and "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...".</p>																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>owns</code></td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td><code>xlink:actuate</code></td><td><code>xlink:actuateType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:arcrole</code></td><td><code>xlink:arcroleType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:href</code></td><td><code>xlink:hrefType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:role</code></td><td><code>xlink:roleType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:show</code></td><td><code>xlink:showType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:title</code></td><td><code>xlink:titleAttrType</code></td><td></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:type</code></td><td><code>xlink:typeType</code></td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	anyURI			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	<code>owns</code>	boolean		false	optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional	<code>xlink:role</code>	<code>xlink:roleType</code>			optional	<code>xlink:show</code>	<code>xlink:showType</code>			optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional
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<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional																																																				

Complex Type `gml:DirectionVectorType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	Direction vectors are specified by providing components of a vector.
Diagram	<p>Diagram illustrating the structure of the <code>DirectionVectorType</code> complex type. It inherits from <code>VectorType</code> and has associations with <code>gml:vector</code>, <code>horizontalAngle</code>, and <code>verticalAngle</code>. The <code>gml:vector</code> association is annotated with: "Direction vectors are specified by providing components of a vector."</p>

Complex Type `gml:DirectionDescriptionType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	direction descriptions are specified by a compass point code, a keyword, a textual description or a reference to a description. A <code>gml:compassPoint</code> is specified by a simple enumeration. In addition, three elements to contain text-based descriptions of direction are provided. If the direction is specified using a term from a list, <code>gml:keyword</code> should be used, and the list indicated using the value of the <code>codeSpace</code> attribute. If the direction is described in prose, <code>gml:direction</code> or <code>gml:reference</code> should be used, allowing the value to be included inline or by reference.
Diagram	<p>Diagram illustrating the structure of the <code>DirectionDescriptionType</code> complex type. It inherits from <code>AbstractTopologyType</code> and has associations with <code>compassPoint</code>, <code>keyword</code>, <code>description</code>, and <code>reference</code>. The <code>compassPoint</code> association is annotated with: "direction descriptions are specified by a compass point code, a keyword, a textual description or a reference to a..."</p>

Complex Type `gml:AbstractTopologyType`

Namespace	http://www.opengis.net/gml/3.2
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Annotations	This abstract type supplies the root or base type for all topological elements including primitives and complexes. It inherits AbstractGMLType and hence can be identified using the gml:id attribute.						
Diagram	<pre> classDiagram class gml:AbstractGMLType { @ gml:id 0..# gml:metaDataProperty gml:description gml:descriptionReference gml:identifier 0..# gml:name } class gml:AbstractTopologyType { This abstract type supplies the root or base type for all topological elements including primitives and complexes. It... } gml:AbstractTopologyType < -- gml:AbstractGMLType </pre>						
Type	extension of gml:AbstractGMLType						
Properties	abstract: true						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> </tbody> </table> <p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	QName	Type	Use	gml:id	ID	required
QName	Type	Use					
gml:id	ID	required					

Complex Type gml:AbstractTopologyType

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>The diagram shows the inheritance structure of <code>AbstractTopoPrimitiveType</code>. It is an extension of <code>gml:AbstractTopologyType</code>, which itself is an extension of <code>gml:AbstractGMLType</code>. <code>gml:AbstractGMLType</code> defines attributes: <code>gml:id</code> (mandatory, handle for XML element), <code>gml:metaDataProperty</code> (0..#), <code>gml:description</code> (text description), <code>gml:descriptionReference</code> (remote text description), <code>gml:identifier</code> (special identifier), and <code>gml:name</code> (label or identifier). A note at the bottom states: "This abstract type supplies the root or base type for all topological elements including primitives and complexes. It...".</p>									
Type	extension of <code>gml:AbstractTopologyType</code>									
Properties	abstract: true									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:id</code></td><td>ID</td><td>required</td></tr> <tr> <td></td><td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
<code>gml:id</code>	ID	required								
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Complex Type `gml:NodeOrEdgePropertyType`

Namespace	http://www.opengis.net/gml/3.2																			
Diagram	<p>The diagram shows the inheritance structure of <code>NodeOrEdgePropertyType</code>. It is an extension of <code>gml:AbstractTopologyType</code>, which itself is an extension of <code>gml:AbstractGMLType</code>. <code>gml:AbstractGMLType</code> defines attributes: <code>gml:AssociationAttributeGroup</code> (XLink components for hypertext referencing) and <code>gml:OwnershipAttributeGroup</code> (encoding of GML property inline vs. by-reference). <code>gml:NodeOrEdgePropertyType</code> extends <code>gml:Node</code> (0-dimensional primitive) and <code>gml:Edge</code> (1-dimensional primitive).</p>																			
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td></td><td>optional</td></tr> </tbody> </table>					QName	Type	Fixed	Default	Use	<code>gml:remoteSchema</code>	anyURI			optional	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional
QName	Type	Fixed	Default	Use																
<code>gml:remoteSchema</code>	anyURI			optional																
<code>nilReason</code>	<code>gml:NilReasonType</code>			optional																

QName	Type	Fixed	Default	Use
owns	boolean		false	optional
xlink:actuate	xlink:actuateType			optional
xlink:arcrole	xlink:arcroleType			optional
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Complex Type **gml:NodeType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the structure of the gml:NodeType complex type. It is an abstract type that supplies the root or base type for all topological elements including primitives and complexes. It inherits from gml:AbstractTopologyType, gml:AbstractGMLType, and gml:StandardObjectProperties. It also has an association with gml:AggregationAttributeGroup and gml:Node.</p> <p>Attributes:</p> <ul style="list-style-type: none"> gml:id: A mandatory attribute that supports provision of a handle for the XML element representing a GML Object. Its use is mandatory. gml:metaDataProperty: A property with multiplicity 0..#. gml:description: A property with multiplicity 0..#. gml:descriptionReference: A property with multiplicity 0..#. gml:identifier: A property with multiplicity 0..#. gml:name: A property with multiplicity 0..#. <p>Operations:</p> <ul style="list-style-type: none"> gml:AggregationAttributeGroup: A GML Object Collection is any GML Object with a property element in its content model whose content model is derived... gml:Node: A property with multiplicity 0..#.

Type	extension of <code>gml:AbstractTopoPrimitiveType</code>			
Attributes	QName	Type	Use	
	aggregationType	<code>gml:AggregationType</code>	optional	
	gml:id	ID	required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

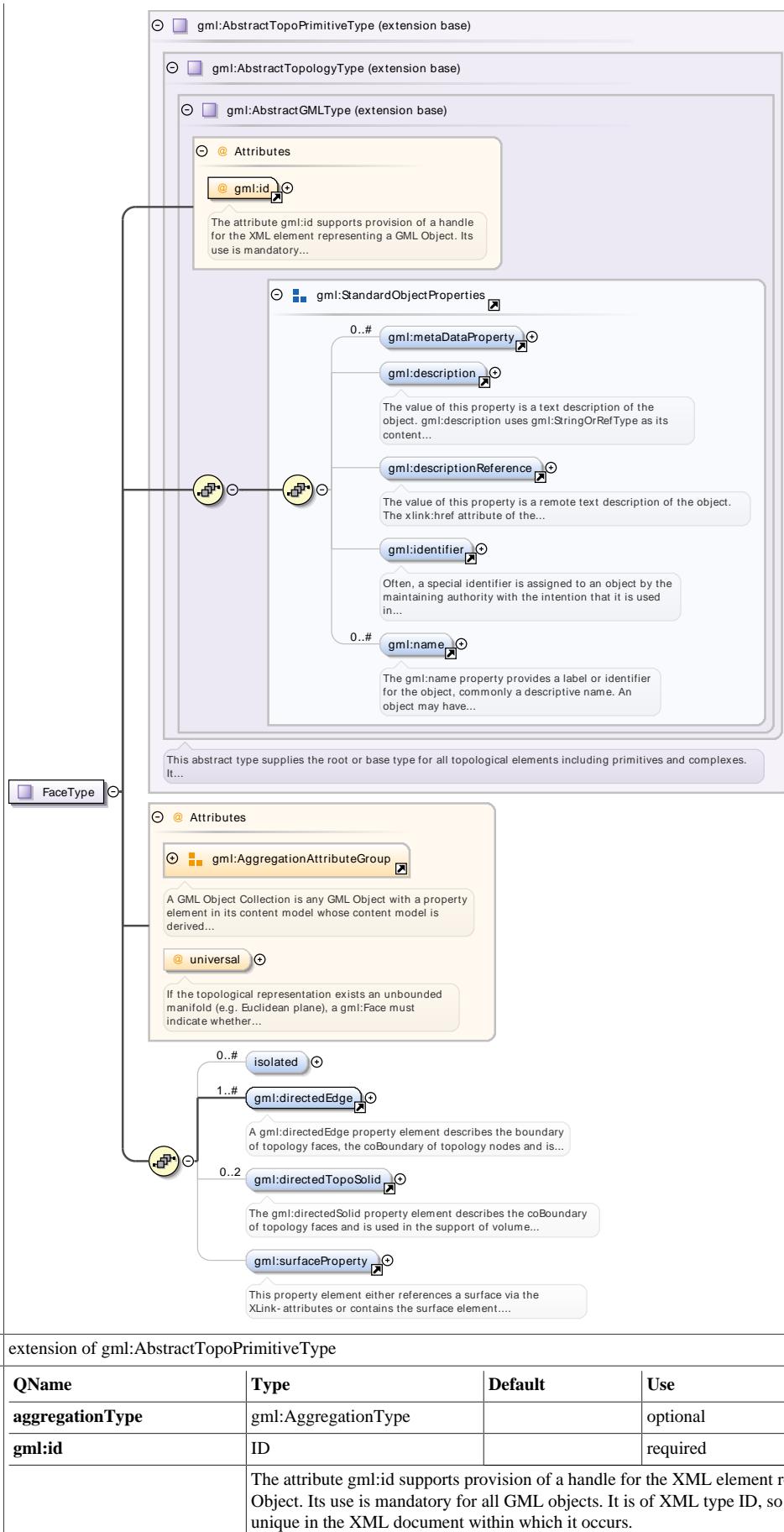
Complex Type `gml:FaceOrTopoSolidPropertyType`

Namespace	http://www.opengis.net/gml/3.2					
Diagram	<p>The diagram illustrates the structure of the <code>gml:FaceOrTopoSolidPropertyType</code>. It is derived from <code>gml:AbstractTopoPrimitiveType</code> (indicated by a box with a purple border). The <code>Attributes</code> section contains two groups: <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code>. The <code>gml:Face</code> and <code>gml:TopoSolid</code> components are shown as separate entities, each with its own description and a small icon.</p>					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	<code>gml:NilReasonType</code>			optional	
	owns	boolean		false	optional	
	xlink:actuate	<code>xlink:actuateType</code>			optional	
	xlink:arcrole	<code>xlink:arcroleType</code>			optional	
	xlink:href	<code>xlink:hrefType</code>			optional	
	xlink:role	<code>xlink:roleType</code>			optional	
	xlink:show	<code>xlink:showType</code>			optional	
	xlink:title	<code>xlink:titleAttrType</code>			optional	
	xlink:type	<code>xlink:typeType</code>	simple		optional	

Complex Type `gml:FaceType`

Namespace	http://www.opengis.net/gml/3.2					
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Diagram



Type extension of **gml:AbstractTopoPrimitiveType**

Attributes	QName	Type	Default	Use
	aggregationType	gml:AggregationType		optional
	gml:id	ID		required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

QName	Type	Default	Use	
universal	boolean	false	optional	
	If the topological representation exists an unbounded manifold (e.g. Euclidean plane), a gml:Face must indicate whether it is a universal face or not, to ensure a lossless topology representation as defined by Kuijpers, et. al. (see OGC 05-102 Topology IPR). The optional universal attribute of type boolean is used to indicate this. NOTE The universal face is normally not part of any feature, and is used to represent the unbounded portion of the data set. Its interior boundary (it has no exterior boundary) would normally be considered the exterior boundary of the map represented by the data set.			

Complex Type **gml:NodePropertyType**

Namespace	http://www.opengis.net/gml/3.2																																																																							
Diagram	<p>The diagram illustrates the structure of the gml:NodePropertyType complex type. It shows a central box for 'Attributes' containing 'gml:AssociationAttributeGroup' and 'gml:OwnershipAttributeGroup'. A line connects this box to a 'Node.PropertyType' box. Another line connects the 'Attributes' box to a 'gml:Node' box, which is further connected to a 'gml:Edge' box. A callout box provides a detailed description of 'gml:Node'.</p>																																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> <td></td> </tr> </tbody> </table>						QName	Type	Fixed	Default	Use		gml:remoteSchema	anyURI			optional		nilReason	gml:NilReasonType			optional		owns	boolean		false	optional		xlink:actuate	xlink:actuateType			optional		xlink:arcrole	xlink:arcroleType			optional		xlink:href	xlink:hrefType			optional		xlink:role	xlink:roleType			optional		xlink:show	xlink:showType			optional		xlink:title	xlink:titleAttrType			optional		xlink:type	xlink:typeType	simple		optional	
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xlink:type	xlink:typeType	simple		optional																																																																				

Complex Type **gml:DirectedEdgePropertyType**

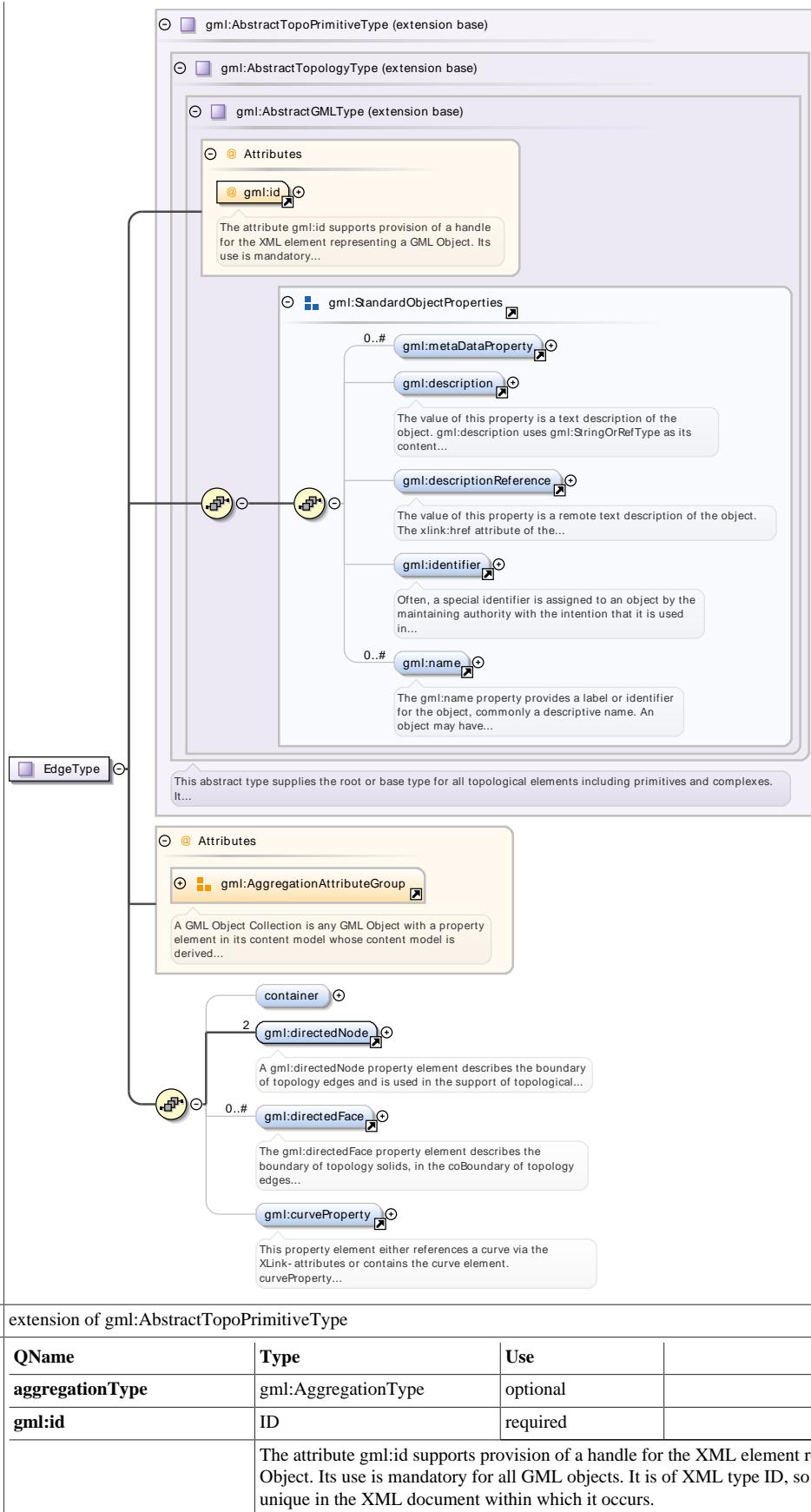
Namespace	http://www.opengis.net/gml/3.2					
Diagram	<p>The diagram illustrates the structure of the gml:DirectedEdgePropertyType complex type. It shows a central box for 'Attributes' containing '@ orientation' and 'gml:AssociationAttributeGroup'. A line connects this box to a 'DirectedEdge.PropertyType' box. Another line connects the 'Attributes' box to a 'gml:Edge' box. A callout box provides a detailed description of 'gml:Edge'.</p>					

Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	orientation	gml:SignType		+	optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Complex Type **gml:EdgeType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of gml:AbstractTopoPrimitiveType

Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Complex Type gml:TopoSolidPropertyType

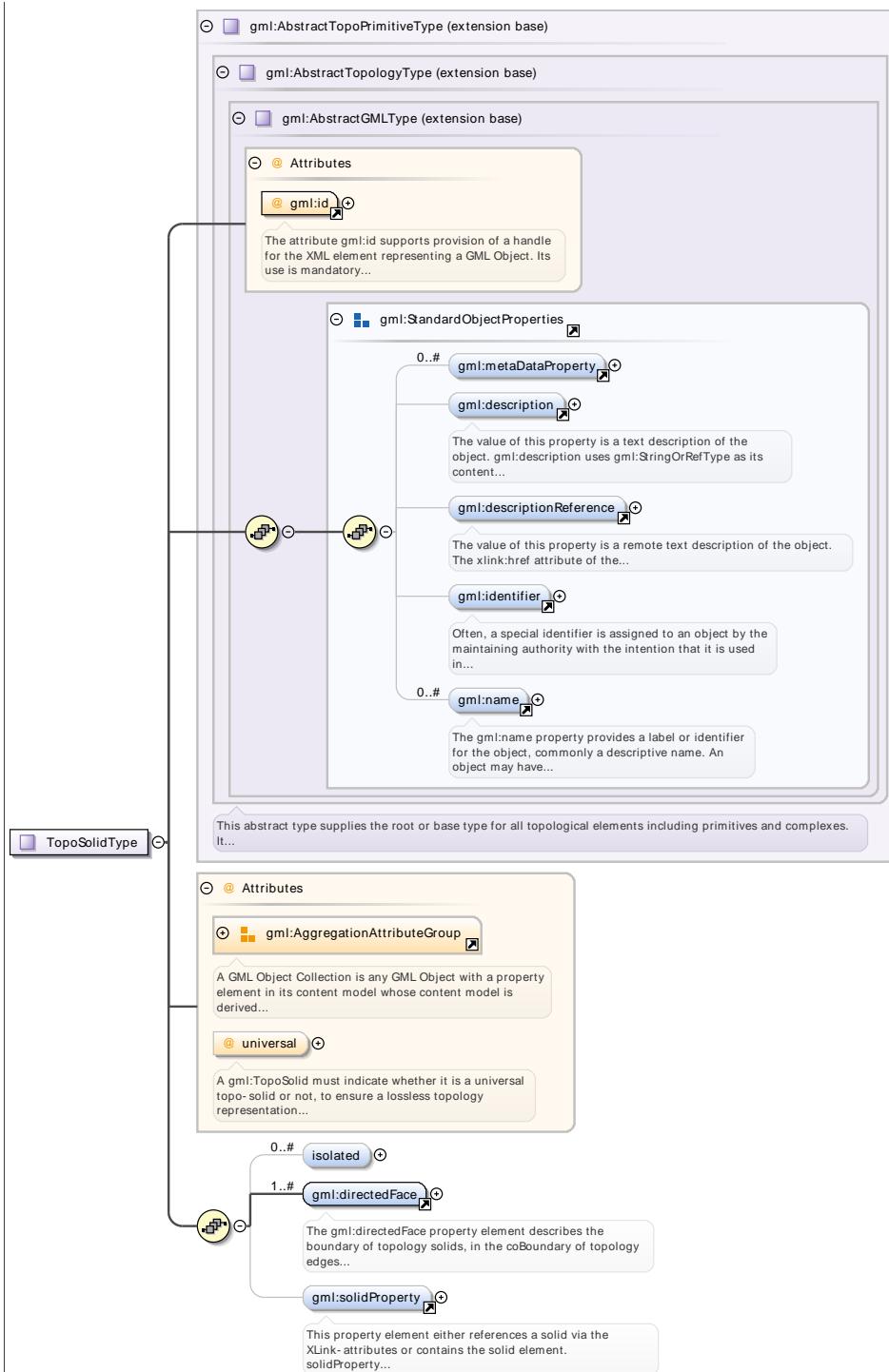
Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>Diagram illustrating the structure of the TopoSolidPropertyType complex type. It is associated with two groups of attributes: gml:AssociationAttributeGroup and gml:OwnershipAttributeGroup. The gml:TopoSolid property is a child of TopoSolidPropertyType.</p>																																																																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th></th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td><td></td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td><td></td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use		gml:remoteSchema	anyURI			optional		nilReason	gml:NilReasonType			optional		owns	boolean		false	optional		xlink:actuate	xlink:actuateType			optional		xlink:arcrole	xlink:arcroleType			optional		xlink:href	xlink:hrefType			optional		xlink:role	xlink:roleType			optional		xlink:show	xlink:showType			optional		xlink:title	xlink:titleAttrType			optional		xlink:type	xlink:typeType	simple		optional	
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xlink:title	xlink:titleAttrType			optional																																																															
xlink:type	xlink:typeType	simple		optional																																																															

Complex Type **gml:TopoSolidType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gml:AbstractTopologyType
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Attributes	QName	Type	Default	Use	
	aggregationType	gml:AggregationType		optional	
	gml:id	ID		required	
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
	universal	boolean	false	optional	
		A gml:TopoSolid must indicate whether it is a universal topo-solid or not, to ensure a lossless topology representation as defined by Kuijpers, et. al. (see OGC 05-102 Topology IPR). The optional universal attribute of type boolean is used to indicate this and the default is fault. NOTE The universal topo-solid is normally not part of any feature, and is used to represent the			

QName	Type	Default	Use
unbounded portion of the data set. Its interior boundary (it has no exterior boundary) would normally be considered the exterior boundary of the data set.			

Complex Type **gml:DirectedFacePropertyType**

Namespace	http://www.opengis.net/gml/3.2					
Diagram	<p>The diagram illustrates the structure of the gml:DirectedFacePropertyType complex type. It shows the type itself as a purple box with a circular handle. Inside, there is a list of attributes and associations. The attributes include orientation (with a note about XLink components), gml:AssociationAttributeGroup (with a note about ownership), and gml:Face (with a note about representing the 2D topology primitive). Associations are shown as lines connecting the type to other elements: gml:Face and gml:Node.</p>					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	orientation	gml:SignType		+	optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Complex Type **gml:DirectedNodePropertyType**

Namespace	http://www.opengis.net/gml/3.2					
Diagram	<p>The diagram illustrates the structure of the gml:DirectedNodePropertyType complex type. It shows the type itself as a purple box with a circular handle. Inside, there is a list of attributes and associations. The attributes include orientation (with a note about XLink components), gml:AssociationAttributeGroup (with a note about ownership), and gml:Node (with a note about representing the 0D primitive). Associations are shown as lines connecting the type to other elements: gml:Face and gml:Node.</p>					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	

QName	Type	Fixed	Default	Use
nilReason	gml:NilReasonType			optional
orientation	gml:SignType		+	optional
owns	boolean		false	optional
xlink:actuate	xlink:actuateType			optional
xlink:arcrole	xlink:arcroleType			optional
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Complex Type **gml:DirectedTopoSolidPropertyType**

Namespace	http://www.opengis.net/gml/3.2																																																																
Diagram	<p>The diagram illustrates the structure of the gml:DirectedTopoSolidPropertyType. It is derived from gml:TopoSolid and gml:AssociationAttributeGroup. The gml:TopoSolid inheritance path is shown with a line connecting the type name to the base class. The gml:AssociationAttributeGroup inheritance path is shown with a line connecting the type name to the base class. A callout box provides a detailed description of the inheritance relationship: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...." Another callout box describes the ownership groups: "Encoding a GML property inline vs. by- reference shall not imply anything about the 'ownership' of the contained or..." A third callout box describes the gml:TopoSolid type: "gml:TopoSolid represents the 3- dimensional topology primitive. The topological boundary of a solid (gml:directedFace)..."</p>																																																																
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>orientation</td><td>gml:SignType</td><td></td><td>+</td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>					QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	orientation	gml:SignType		+	optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:type	xlink:typeType	simple		optional																																																													

Complex Type **gml:TopoPointType**

Namespace	http://www.opengis.net/gml/3.2				
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Diagram	<p>The diagram shows the inheritance structure of the gml:AbstractTopologyType class. It is the extension base for gml:AbstractGMLType, which in turn is the extension base for gml:StandardObjectProperties. The gml:StandardObjectProperties class contains attributes: gml:id (mandatory), gml:metaDataProperty (0..#), gml:description, gml:descriptionReference, gml:identifier, and gml:name (0..#). The gml:metaDataProperty attribute is connected to the gml:TopoPointType class. The gml:TopoPointType class is also connected to the gml:directedNode attribute. A note states: "This abstract type supplies the root or base type for all topological elements including primitives and complexes. It..."</p>						
Type	extension of gml:AbstractTopologyType						
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>ID</td><td>required</td></tr> </tbody> </table> <p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</p>	QName	Type	Use	gml:id	ID	required
QName	Type	Use					
gml:id	ID	required					

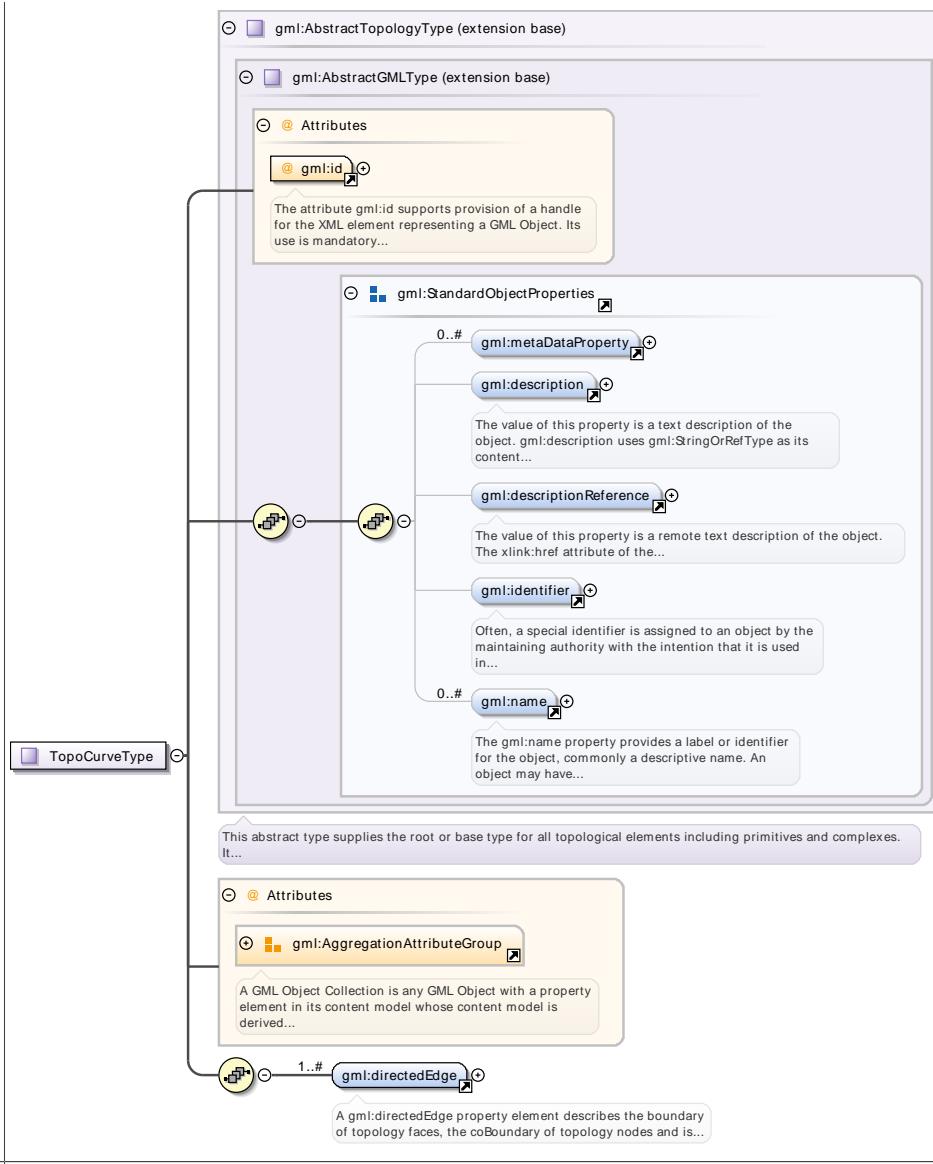
Complex Type **gml:TopoPointPropertyType**

Namespace	http://www.opengis.net/gml/3.2								
Diagram	<p>The diagram shows the gml:TopoPointPropertyType class. It contains an attribute: gml:OwnershipAttributeGroup. The gml:TopoPoint class is connected to this attribute. A note states: "Encoding a GML property inline vs. by- reference shall not imply anything about the "ownership" of the contained or..."</p>								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>owns</td><td>boolean</td><td>false</td><td>optional</td></tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Complex Type **gml:TopoCurveType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `gml:AbstractTopologyType`

Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Complex Type `gml:TopoCurvePropertyType`

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>The diagram illustrates the schema structure for <code>TopoCurvePropertyType</code>. It is an extension of <code>gml:AbstractTopologyType</code>. The <code>gml:StandardObjectProperties</code> block defines attributes for <code>gml:id</code>, <code>gml:metaDataProperty</code>, <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, and <code>gml:name</code>. The <code>gml:AggregationAttributeGroup</code> block defines the <code>gml:directedEdge</code> property. A note states that this abstract type supplies the root or base type for all topological elements including primitives and complexes.</p>

Attributes	QName	Type	Default	Use	
	owns	boolean	false	optional	

Complex Type **gml:TopoSurfaceType**

Namespace	http://www.opengis.net/gml/3.2																								
Diagram	<p>This abstract type supplies the root or base type for all topological elements including primitives and complexes. It...</p> <p>This diagram illustrates the structure of the gml:TopoSurfaceType complex type. It is an extension of gml:AbstractTopologyType and gml:AbstractGMLType. The type includes attributes for metadata, description, identifier, and name, as well as a directedFace property. It also features an aggregation relationship to gml:AggregationAttributeGroup.</p>																								
Type	extension of gml:AbstractTopologyType																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>aggregationType</td> <td>gml:AggregationType</td> <td>optional</td> <td></td> <td></td> </tr> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> <td></td> <td></td> </tr> <tr> <td></td> <td colspan="4">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>					QName	Type	Use			aggregationType	gml:AggregationType	optional			gml:id	ID	required				The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
QName	Type	Use																							
aggregationType	gml:AggregationType	optional																							
gml:id	ID	required																							
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.																								

Complex Type **gml:TopoSurfacePropertyType**

Namespace	http://www.opengis.net/gml/3.2				
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Diagram	<p>TopoSurfacePropertyType</p> <p>gml:OwnershipAttributeGroup</p> <p>gml:TopoSurface</p> <p>gml:TopoSurface represents a homogeneous topological expression, a set of directed faces, which if realised are...</p>								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>owns</td> <td>boolean</td> <td>false</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Complex Type gml:TopoVolumeType

Namespace	http://www.opengis.net/gml/3.2									
Diagram	<p>gml:AbstractTopologyType (extension base)</p> <p>gml:AbstractGMLType (extension base)</p> <p>gml:id</p> <p>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory...</p> <p>gml:StandardObjectProperties</p> <ul style="list-style-type: none"> gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name <p>This abstract type supplies the root or base type for all topological elements including primitives and complexes. It...</p> <p>gml:AggregationAttributeGroup</p> <p>A GML Object Collection is any GML Object with a property element in its content model whose content model is derived...</p> <p>gml:directedTopoSolid</p> <p>The gml:directedSolid property element describes the coBoundary of topology faces and is used in the support of volume...</p>									
Type	extension of gml:AbstractTopologyType									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>aggregationType</td> <td>gml:AggregationType</td> <td>optional</td> </tr> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	aggregationType	gml:AggregationType	optional	gml:id	ID	required
QName	Type	Use								
aggregationType	gml:AggregationType	optional								
gml:id	ID	required								

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

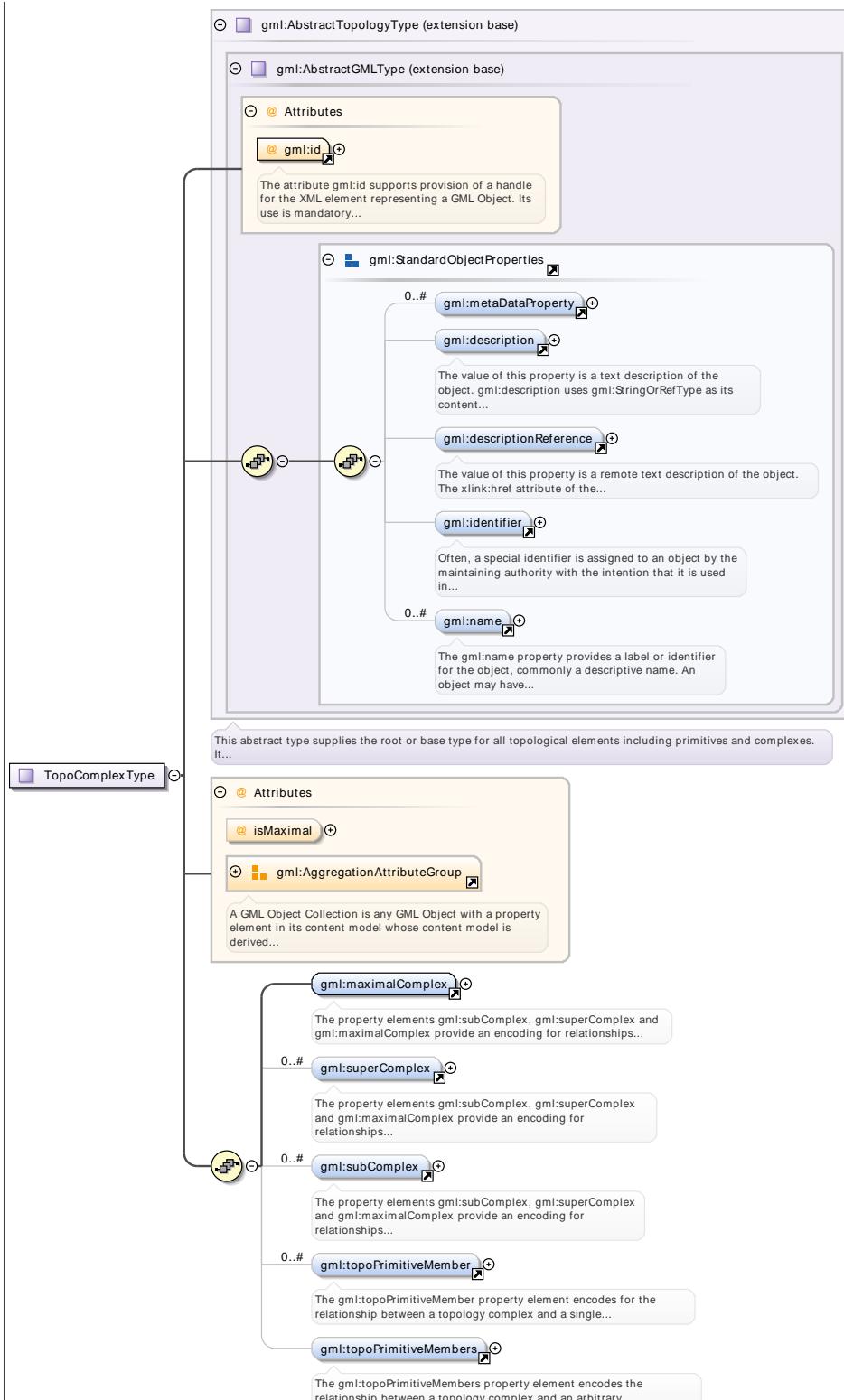
Complex Type **gml:TopoVolumePropertyType**

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of the gml:TopoVolumePropertyType complex type. It features a central class box labeled TopoVolumePropertyType. Two associations extend from this class: one to a group box labeled gml:OwnershipAttributeGroup, and another to an object box labeled gml:TopoVolume. A callout box provides a note: "Encoding a GML property inline vs. by-reference shall not imply anything about the 'ownership' of the contained or..." A second callout box provides a note: "gml:TopoVolume represents a homogeneous topological expression, a set of directed topologic solids, which if realised..."</p>				
Attributes	QName	Type	Default	Use	
	owns	boolean	false	optional	

Complex Type **gml:TopoComplexType**

Namespace	http://www.opengis.net/gml/3.2				
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Diagram



Type	extension of gml:AbstractTopologyType			
Attributes	QName	Type	Default	Use
	aggregationType	gml:AggregationType		optional
	gml:id	ID		required
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

QName	Type	Default	Use	
isMaximal	boolean	false	optional	

Complex Type `gml:TopoComplexPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of the <code>gml:TopoComplexPropertyType</code>. It shows the type itself, an <code>gml:AssociationAttributeGroup</code> (highlighted in orange), and an <code>gml:TopoComplex</code> association (highlighted in yellow). A callout box explains that XLink components support hypertext referencing in XML. Another callout box describes <code>gml:TopoComplex</code> as a collection of topological primitives.</p>				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	anyURI		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Complex Type `gml:TopoPrimitiveMemberType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>The diagram illustrates the structure of the <code>gml:TopoPrimitiveMemberType</code>. It shows the type itself, an <code>gml:AssociationAttributeGroup</code> (highlighted in orange), an <code>gml:OwnershipAttributeGroup</code> (highlighted in orange), and an <code>gml:AbstractTopoPrimitive</code> association (highlighted in yellow). A callout box explains the encoding of GML properties. Another callout box describes <code>gml:AbstractTopoPrimitive</code> as the base type for all topological primitives.</p>				
Attributes	QName	Type	Fixed	Default	Use
	<code>gml:remoteSchema</code>	anyURI			optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional
	<code>owns</code>	boolean		false	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
	<code>xlink:role</code>	<code>xlink:roleType</code>			optional
	<code>xlink:show</code>	<code>xlink:showType</code>			optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

Complex Type `gml:TopoPrimitiveArrayAssociationType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>Diagram illustrating the structure of <code>gml:TopoPrimitiveArrayAssociationType</code>. The class inherits from <code>gml:AbstractTopoPrimitive</code>. It contains an attribute <code>owns</code> of type <code>boolean</code> with a multiplicity of <code>0..#</code>. The class is part of the <code>gml:OwnershipAttributeGroup</code>.</p>				
Attributes	QName	Type	Default	Use	
	<code>owns</code>	<code>boolean</code>	<code>false</code>	<code>optional</code>	

Complex Type `gml:GeometricComplexType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>Diagram illustrating the structure of <code>gml:GeometricComplexType</code>. It inherits from <code>gml:AbstractGeometryType</code> and <code>gml:AbstractGMLType</code>. It contains attributes for <code>SRSReferenceGroup</code> and <code>AggregationAttributeGroup</code>. It also contains a collection of elements with a multiplicity of <code>1..#</code>.</p>				
Type	extension of <code>gml:AbstractGeometryType</code>				

Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	axisLabels	gml:NCNameList	optional
	gml:id	ID	required
			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
	srDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gml:NCNameList	optional

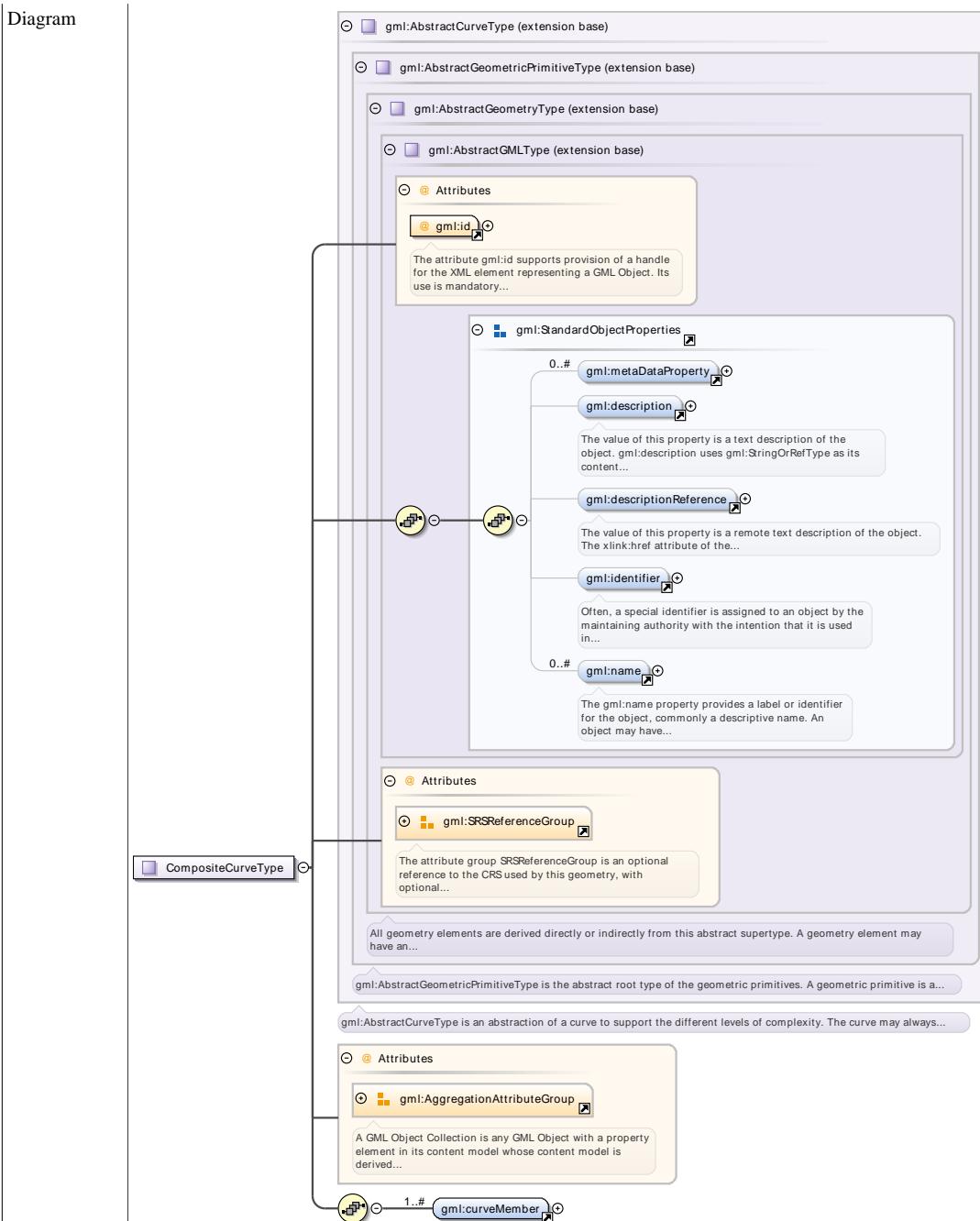
Complex Type **gml:GeometricComplexPropertyType**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	A property that has a geometric complex as its value domain may either be an appropriate geometry element encapsulated in an element of this type or an XLink reference to a remote geometry element (where remote includes geometry elements located elsewhere in the same document). Either the reference or the contained element shall be given, but neither both nor none.				
Diagram	<p>The diagram illustrates the structure of the gml:GeometricComplexPropertyType. It starts with a central box labeled GeometricComplexPropertyType. An arrow points from this box to a larger box containing two groups of attributes: gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup. Below these groups is the gml:GeometricComplex element, which further branches into gml:CompositeCurve, gml:CompositeSurface, and gml:CompositeSolid. Each of these elements has a detailed description box below it.</p>				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Complex Type **gml:CompositeCurveType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



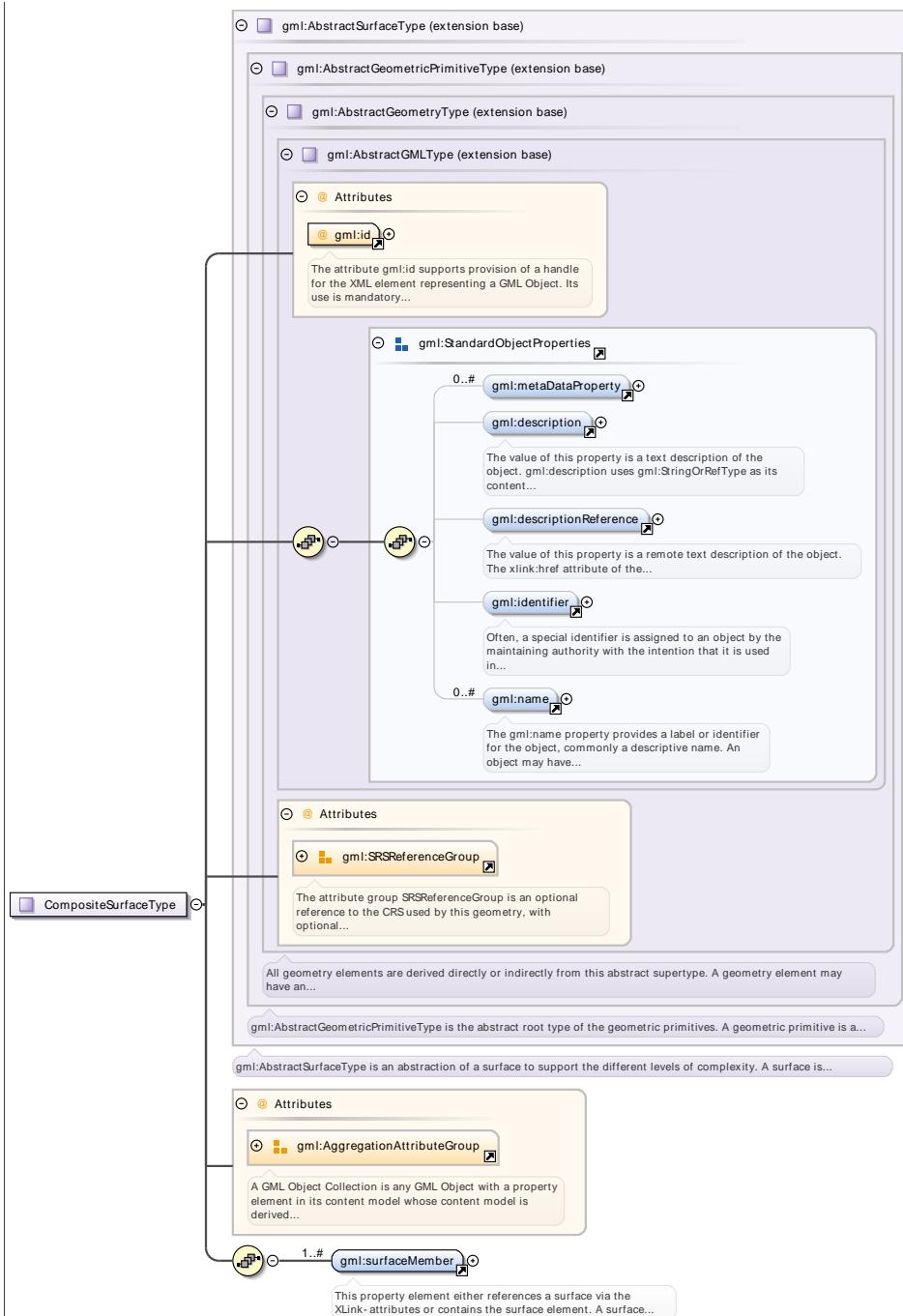
Type extension of `gml:AbstractCurveType`

Type	Attributes	QName	Type	Use
		<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
		<code>axisLabels</code>	<code>gml:NCNameList</code>	optional
		<code>gml:id</code>	ID	required
			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
		<code>srsDimension</code>	positiveInteger	optional
		<code>srsName</code>	anyURI	optional
		<code>uomLabels</code>	<code>gml:NCNameList</code>	optional

Complex Type `gml:CompositeSurfaceType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractSurfaceType</code>		
Attributes	QName	Type	Use
	aggregationType	<code>gml:AggregationType</code>	optional
	axisLabels	<code>gml:NCNameList</code>	optional
	gml:id	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	srsDimension	<code>positiveInteger</code>	optional
	srsName	<code>anyURI</code>	optional
	uomLabels	<code>gml:NCNameList</code>	optional

Complex Type `gml:CompositeSolidType`

Namespace	http://www.opengis.net/gml/3.2																					
Diagram	<p>The diagram illustrates the inheritance structure of the <code>gml:CompositeSolidType</code>. It is an extension of <code>gml:AbstractSolidType</code>, which itself is an extension of <code>gml:AbstractGeometricPrimitiveType</code> and <code>gml:AbstractGeometryType</code>. The <code>gml:CompositeSolidType</code> class contains several attributes:</p> <ul style="list-style-type: none"> gml:id: An attribute that supports provision of a handle for the XML element representing a GML Object. Its use is mandatory. gml:metaDataProperty: A property of type <code>gml:metaDataProperty</code>. gml:description: A property of type <code>gml:description</code>. gml:descriptionReference: A property of type <code>gml:descriptionReference</code>. gml:identifier: A property of type <code>gml:identifier</code>. gml:name: A property of type <code>gml:name</code>. gml:SRSReferenceGroup: An attribute group that is an optional reference to the CRS used by this geometry, with optional... gml:AggregationAttributeGroup: An attribute group that is a GML Object Collection. gml:solidMember: A property of type <code>gml:solidMember</code>. 																					
Type	extension of <code>gml:AbstractSolidType</code>																					
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>aggregationType</td> <td><code>gml:AggregationType</code></td> <td>optional</td> </tr> <tr> <td>axisLabels</td> <td><code>gml:NCNameList</code></td> <td>optional</td> </tr> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> </tr> <tr> <td>srsDimension</td> <td><code>positiveInteger</code></td> <td>optional</td> </tr> <tr> <td>srsName</td> <td><code>anyURI</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	aggregationType	<code>gml:AggregationType</code>	optional	axisLabels	<code>gml:NCNameList</code>	optional	gml:id	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		srsDimension	<code>positiveInteger</code>	optional	srsName	<code>anyURI</code>	optional
QName	Type	Use																				
aggregationType	<code>gml:AggregationType</code>	optional																				
axisLabels	<code>gml:NCNameList</code>	optional																				
gml:id	ID	required																				
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.																					
srsDimension	<code>positiveInteger</code>	optional																				
srsName	<code>anyURI</code>	optional																				

QName	Type	Use
uomLabels	gml:NCNameList	optional

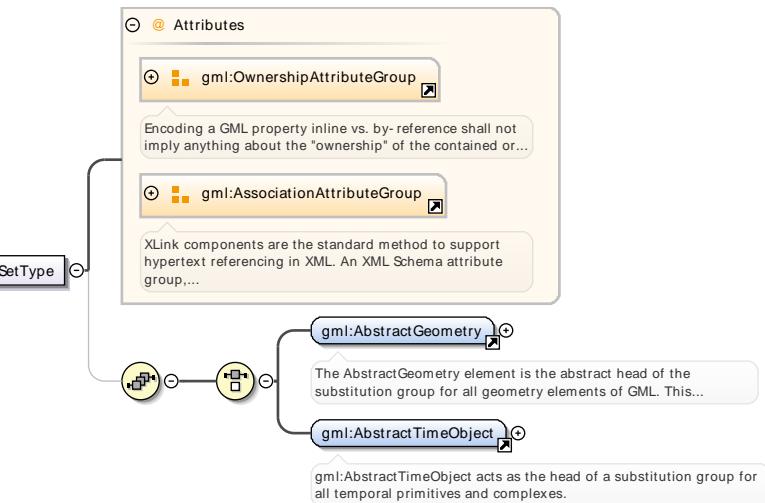
Complex Type **gml:AbstractCoverageType**

Namespace	http://www.opengis.net/gml/3.2									
Annotations	The base type for coverages is gml:AbstractCoverageType. The basic elements of a coverage can be seen in this content model: the coverage contains gml:domainSet and gml:rangeSet properties. The gml:domainSet property describes the domain of the coverage and the gml:rangeSet property describes the range of the coverage.									
Diagram	<p>The diagram illustrates the structure of the gml:AbstractCoverageType. It is an extension of gml:AbstractFeatureType, which in turn extends gml:AbstractGMLType. The gml:AbstractCoverageType class has the following properties:</p> <ul style="list-style-type: none"> gml:id: An attribute that supports provision of a handle for the XML element representing a GML Object. Its use is mandatory. gml:metaDataProperty: A property of type gml:metaDataProperty. gml:description: A property of type gml:description. gml:descriptionReference: A property of type gml:descriptionReference. gml:identifier: A property of type gml:identifier. gml:name: A property of type gml:name. gml:boundedBy: A property of type gml:boundedBy. gml:location: A property of type gml:location. gml:domainSet: A property of type gml:domainSet. gml:rangeSet: A property of type gml:rangeSet. <p>Annotations provide descriptions for each of these elements.</p>									
Type	extension of gml:AbstractFeatureType									
Properties	abstract: true									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td></td> <td>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> </tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required			The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
QName	Type	Use								
gml:id	ID	required								
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.								

Complex Type **gml:DomainSetType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



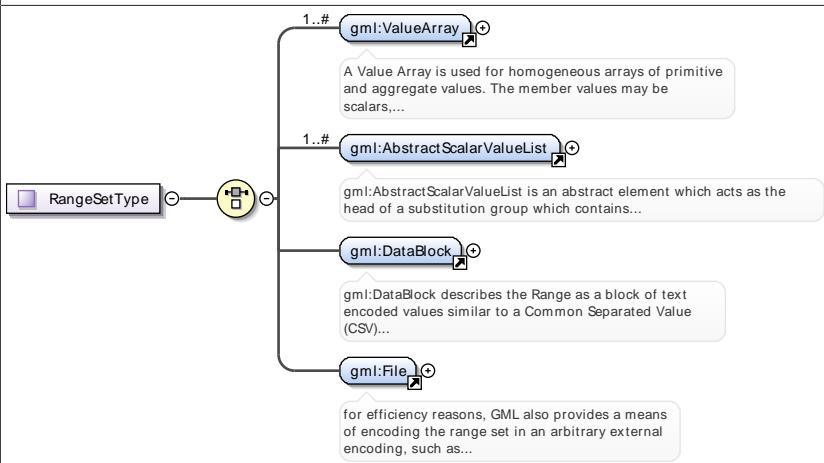
Attributes

QName	Type	Fixed	Default	Use
gml:remoteSchema	anyURI			optional
nilReason	gml:NilReasonType			optional
owns	boolean		false	optional
xlink:actuate	xlink:actuateType			optional
xlink:arcrole	xlink:arcroleType			optional
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Complex Type **gml:RangeSetType**

Namespace	http://www.opengis.net/gml/3.2
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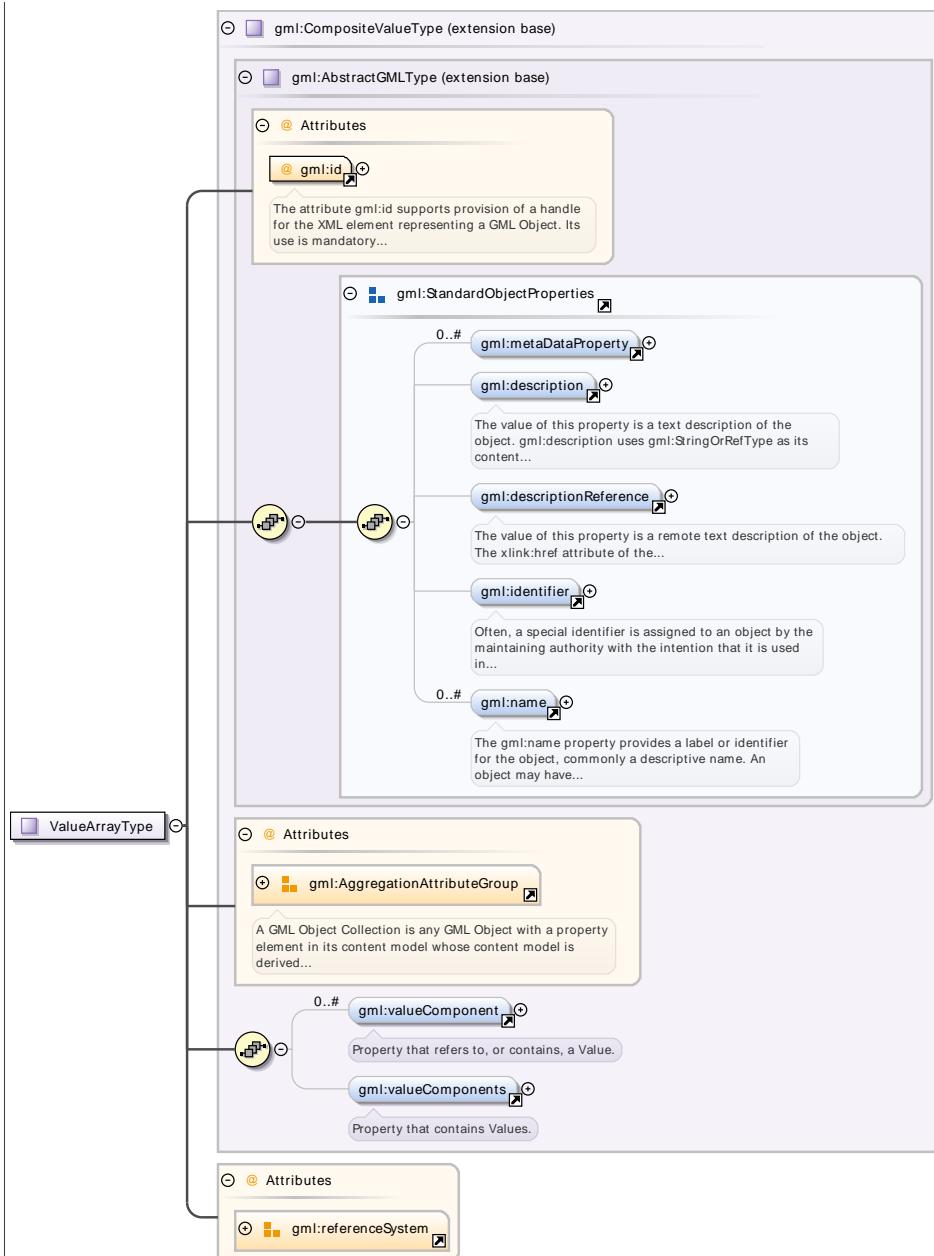
Diagram



Complex Type **gml:ValueArrayType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



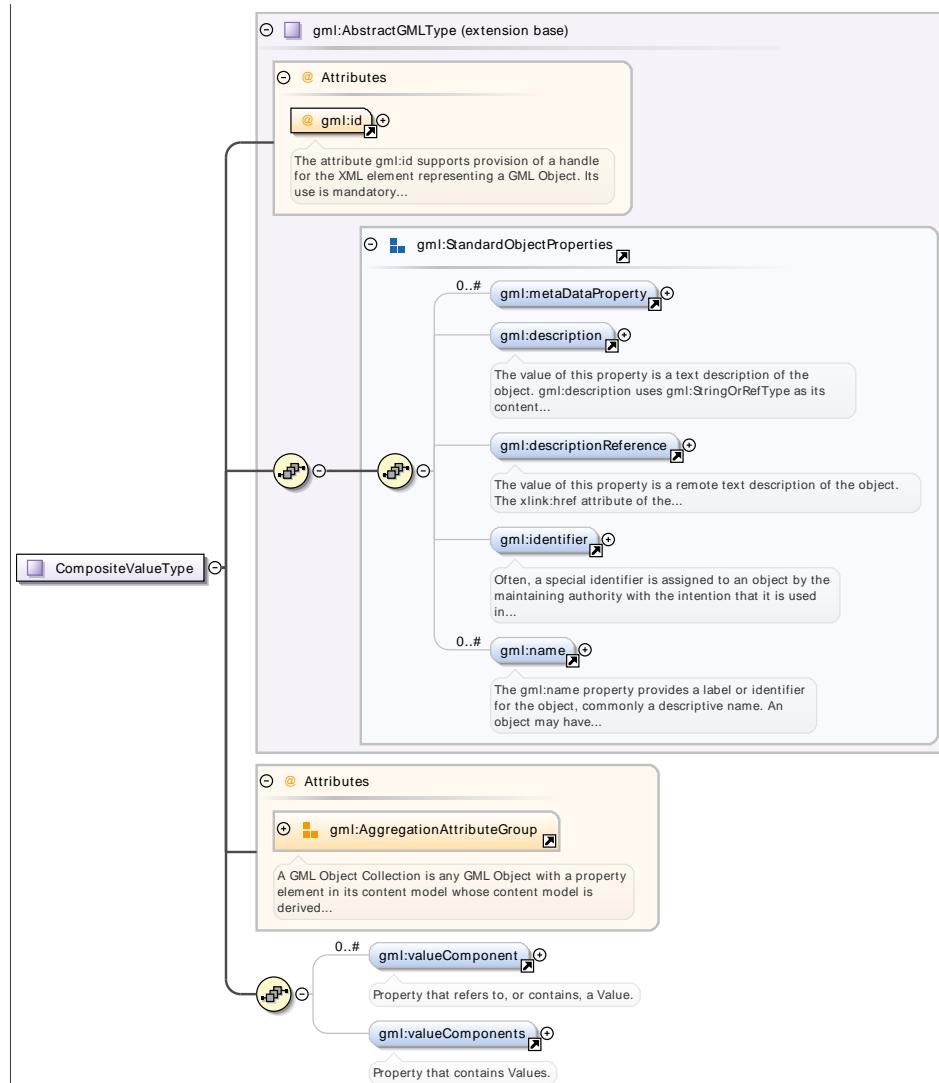
Type extension of **CompositeValueType**

Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	
	codeSpace	anyURI	optional	
	gml:id	ID	required	
		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
	uom	gml:UomIdentifier	optional	

Complex Type `gml:CompositeValueType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

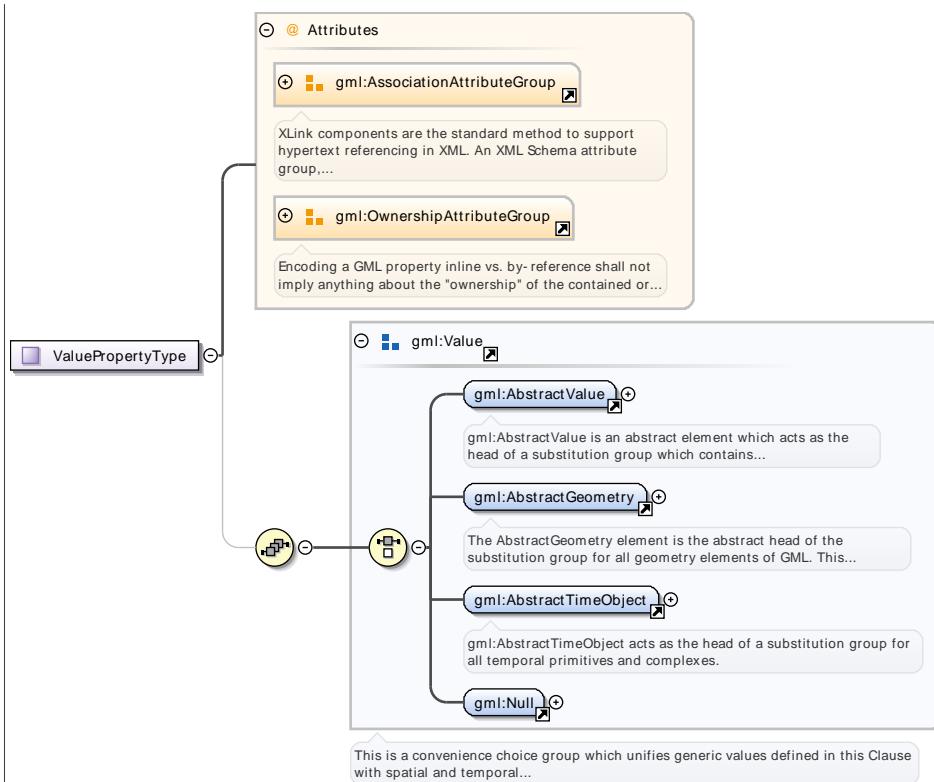


Type	extension of gml:AbstractGMLType		
Attributes	QName	Type	Use
	aggregationType	gml:AggregationType	optional
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type gml:ValuePropertyType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



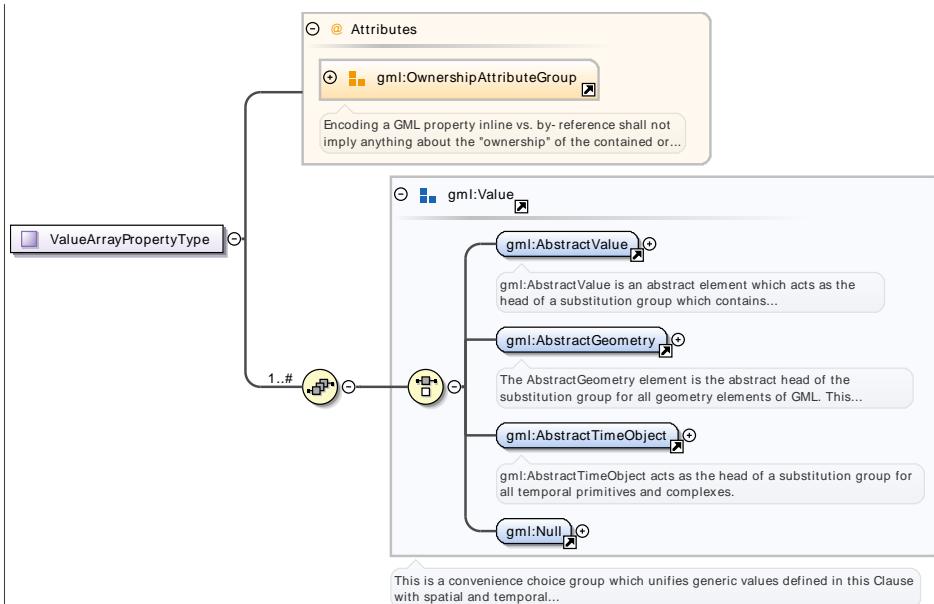
Attributes

QName	Type	Fixed	Default	Use
<code>gm1:remoteSchema</code>	anyURI			optional
<code>nilReason</code>	<code>gm1:NilReasonType</code>			optional
<code>owns</code>	boolean		false	optional
<code>xlink:actuate</code>	<code>xlink:actuateType</code>			optional
<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>			optional
<code>xlink:href</code>	<code>xlink:hrefType</code>			optional
<code>xlink:role</code>	<code>xlink:roleType</code>			optional
<code>xlink:show</code>	<code>xlink:showType</code>			optional
<code>xlink:title</code>	<code>xlink:titleAttrType</code>			optional
<code>xlink:type</code>	<code>xlink:typeType</code>	simple		optional

Complex Type `gm1:ValueArrayPropertyType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Attributes

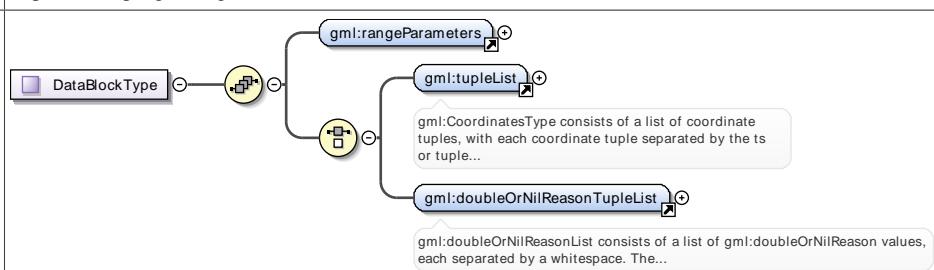
QName	Type	Default	Use
<code>owns</code>	boolean	false	optional

Complex Type `gml:DataBlockType`

Namespace

<http://www.opengis.net/gml/3.2>

Diagram

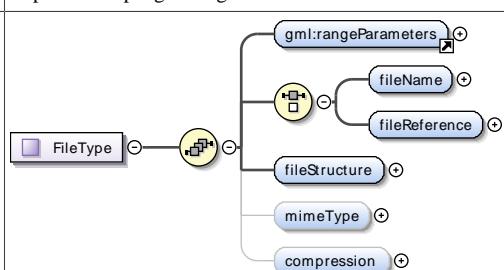


Complex Type `gml:FileType`

Namespace

<http://www.opengis.net/gml/3.2>

Diagram

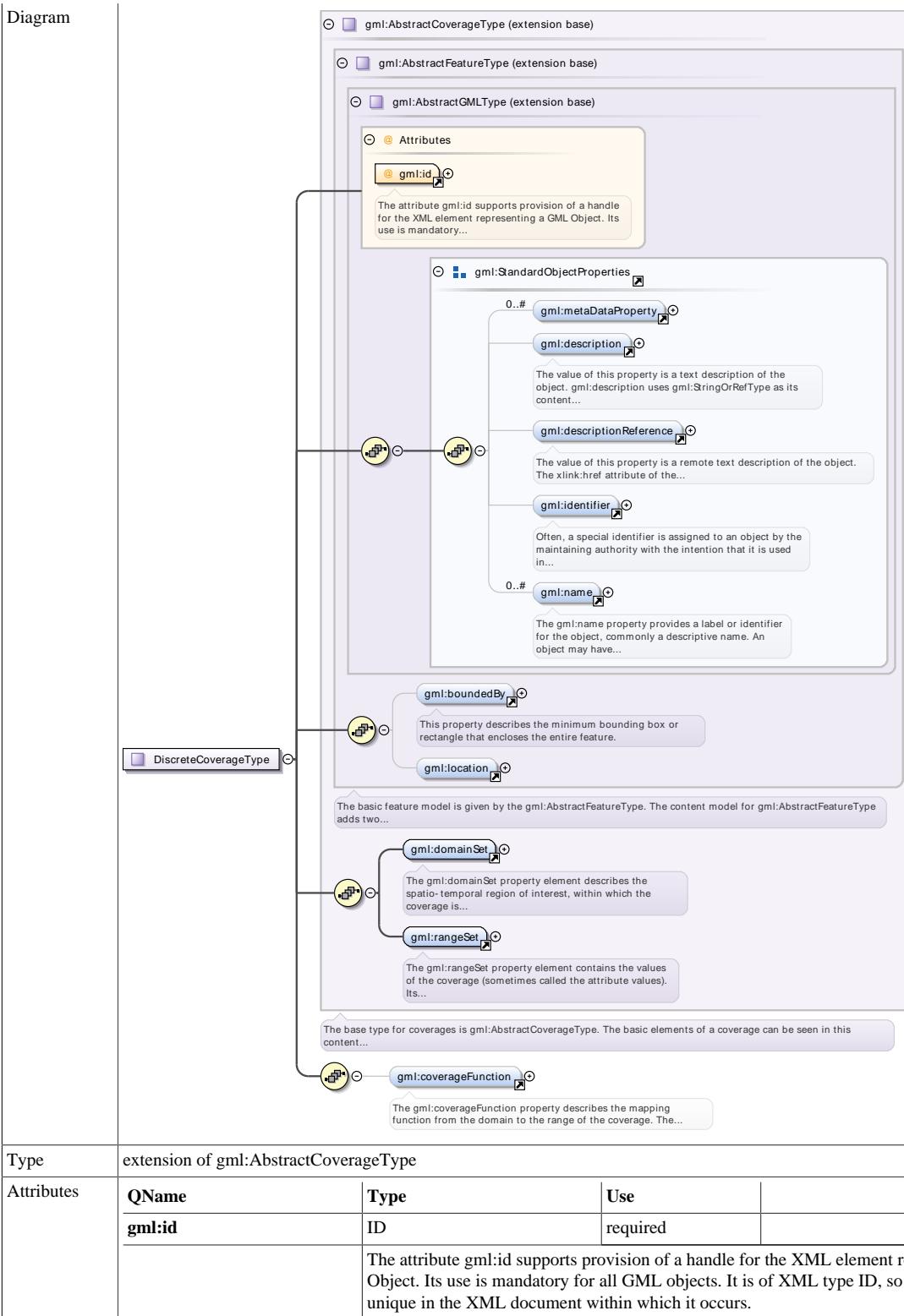


Complex Type `gml:DiscreteCoverageType`

Namespace

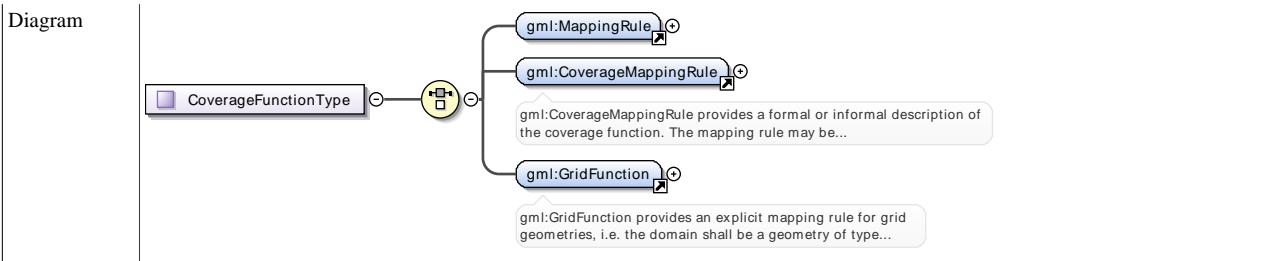
<http://www.opengis.net/gml/3.2>

Diagram



Complex Type `gml:CoverageFunctionType`

Namespace	http://www.opengis.net/gml/3.2
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Complex Type gml:MappingRuleType

Namespace	http://www.opengis.net/gml/3.2
Diagram	<pre> classDiagram class MappingRuleType class gml { class RuleType class ruleDefinition class ruleReference } MappingRuleType < -- RuleType </pre>
Properties	final: extension, restriction

Complex Type gml:GridFunctionType

Namespace	http://www.opengis.net/gml/3.2
Diagram	<pre> classDiagram class GridFunctionType class gml { class FunctionType class sequenceRule class startPoint } GridFunctionType < -- FunctionType </pre>

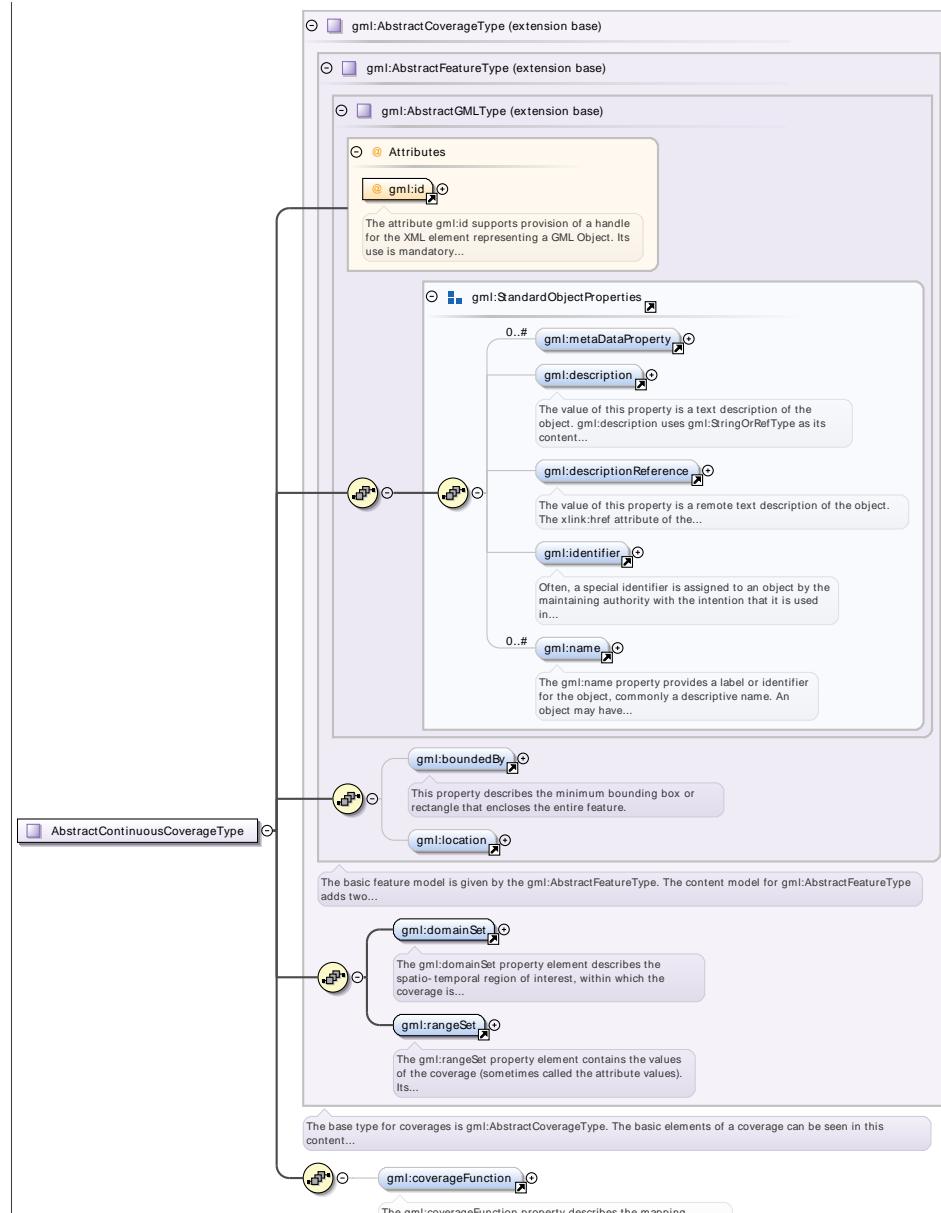
Complex Type gml:SequenceRuleType

Namespace	http://www.opengis.net/gml/3.2									
Annotations	The gml:SequenceRuleType is derived from the gml:SequenceRuleEnumeration through the addition of an axisOrder attribute. The gml:SequenceRuleEnumeration is an enumerated type. The rule names are defined in ISO 19123. If no rule name is specified the default is "Linear".									
Diagram	<pre> classDiagram class SequenceRuleType class gml { class RuleType class SequenceRuleEnumeration class @order class @axisOrder } SequenceRuleType < -- RuleType </pre> <p>The gml:SequenceRuleType is derived from the gml:SequenceRuleEnumeration through the addition of an axisOrder...</p>									
Type	extension of gml:SequenceRuleEnumeration									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>axisOrder</td> <td>gml:AxisDirectionList</td> <td>optional</td> </tr> <tr> <td>order</td> <td>gml:IncrementOrder</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	axisOrder	gml:AxisDirectionList	optional	order	gml:IncrementOrder	optional
QName	Type	Use								
axisOrder	gml:AxisDirectionList	optional								
order	gml:IncrementOrder	optional								

Complex Type gml:AbstractContinuousCoverageType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gml:AbstractCoverageType		
Properties	abstract: true		
Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type gml:CategoryExtentType

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<p>gml:CodeOrNilReasonListType (restriction base)</p> <p>gml:NameOrNilReasonList</p> <p>A type for a list of values of the respective simple type.</p> <p>Attributes</p> <p>codeSpace</p> <p>gml:CodeOrNilReasonListType provides for lists of terms. The values in an instance element shall all be valid according...</p>						
Type	restriction of gml:CodeOrNilReasonListType						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>codeSpace</td> <td>anyURI</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	codeSpace	anyURI	optional
QName	Type	Use					
codeSpace	anyURI	optional					

Complex Type gml:QuantityExtentType

Namespace	http://www.opengis.net/gml/3.2						
Diagram	<p>gml:MeasureOrNilReasonListType (restriction base)</p> <p>gml:doubleOrNilReasonList</p> <p>A type for a list of values of the respective simple type.</p> <p>Attributes</p> <p>uom</p> <p>gml:MeasureOrNilReasonListType provides for a list of quantities. An instance element may also include embedded values...</p>						
Type	restriction of gml:MeasureOrNilReasonListType						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>uom</td> <td>gml:UomIdentifier</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	uom	gml:UomIdentifier	required
QName	Type	Use					
uom	gml:UomIdentifier	required					

Complex Type gml:Boolean.PropertyType

Namespace	http://www.opengis.net/gml/3.2																																								
Diagram	<p>Attributes</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...</p> <p>gml:Boolean</p>																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
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nilReason	gml:NilReasonType		optional																																						
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xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Complex Type `gml:CategoryPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>Diagram illustrating the structure of <code>gml:CategoryPropertyType</code>. The class <code>CategoryPropertyType</code> is associated with <code>gml:Category</code> through an <code>gml:AssociationAttributeGroup</code>. The note indicates that XLink components are used for hypertext referencing.</p>				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	anyURI		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Complex Type `gml:QuantityPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	<p>Diagram illustrating the structure of <code>gml:QuantityPropertyType</code>. The class <code>QuantityPropertyType</code> is associated with <code>gml:Quantity</code> through an <code>gml:AssociationAttributeGroup</code>. The note indicates that an XML attribute <code>uom</code> is required, which identifies the unit of measure.</p>				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	anyURI		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Complex Type `gml:CountPropertyType`

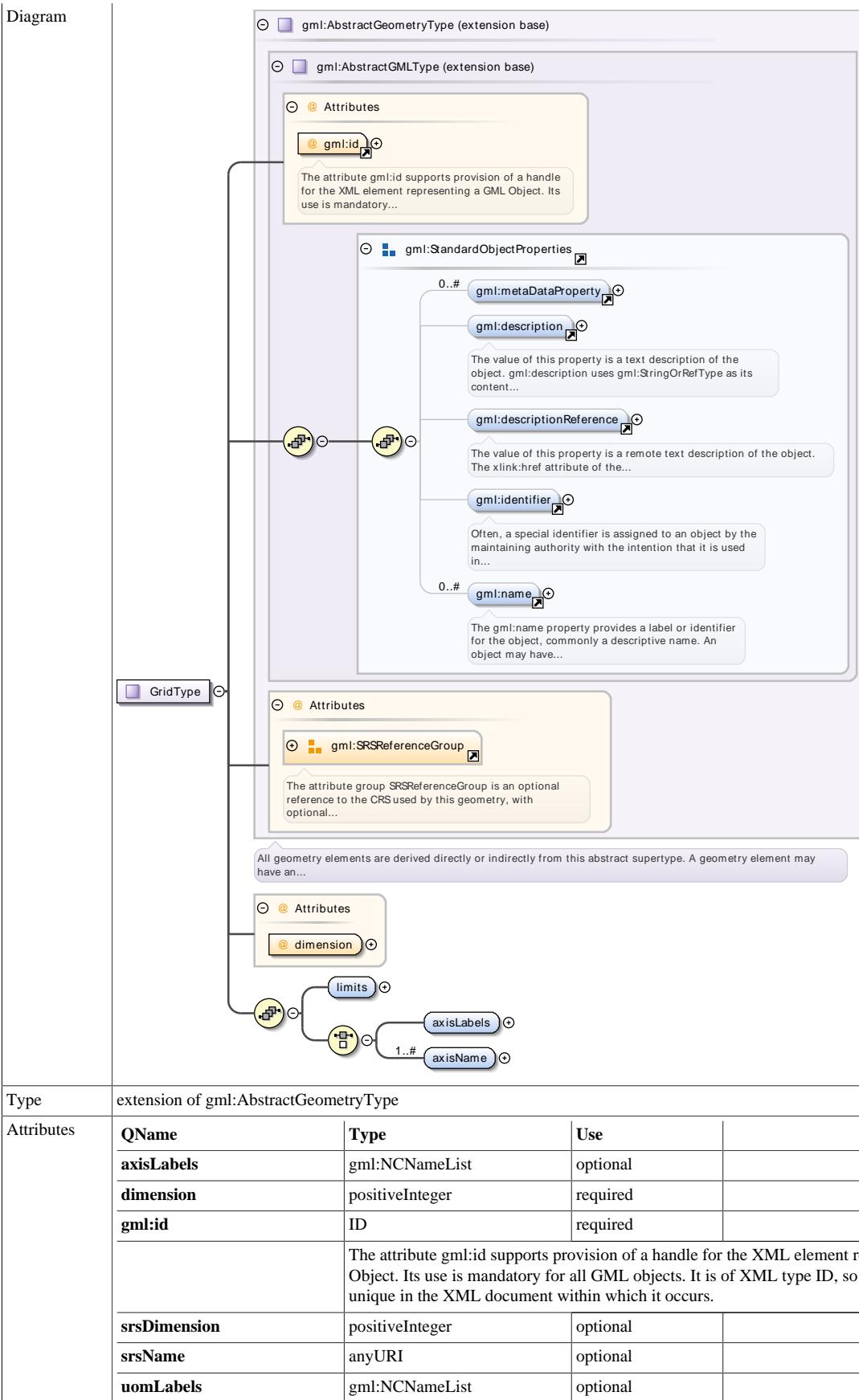
Namespace	http://www.opengis.net/gml/3.2				
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Diagram	<p>The diagram illustrates the structure of the <code>CountPropertyType</code> element. It is associated with the <code>gml:AssociationAttributeGroup</code> group, which contains the <code>gml:Count</code> element. A callout box provides a detailed description of XLink components.</p>																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td><td>anyURI</td><td></td><td>optional</td></tr> <tr> <td><code>nilReason</code></td><td><code>gml:NilReasonType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:actuate</code></td><td><code>xlink:actuateType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:arcrole</code></td><td><code>xlink:arcroleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:href</code></td><td><code>xlink:hrefType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:role</code></td><td><code>xlink:roleType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:show</code></td><td><code>xlink:showType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:title</code></td><td><code>xlink:titleAttrType</code></td><td></td><td>optional</td></tr> <tr> <td><code>xlink:type</code></td><td><code>xlink:typeType</code></td><td>simple</td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Use	<code>gml:remoteSchema</code>	anyURI		optional	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	<code>xlink:show</code>	<code>xlink:showType</code>		optional	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional
QName	Type	Fixed	Use																																						
<code>gml:remoteSchema</code>	anyURI		optional																																						
<code>nilReason</code>	<code>gml:NilReasonType</code>		optional																																						
<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional																																						
<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional																																						
<code>xlink:href</code>	<code>xlink:hrefType</code>		optional																																						
<code>xlink:role</code>	<code>xlink:roleType</code>		optional																																						
<code>xlink:show</code>	<code>xlink:showType</code>		optional																																						
<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional																																						
<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional																																						

Complex Type `gml:GridType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gm:AbstractGeometryType
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Attributes	QName	Type	Use
	axisLabels	gm:NCNameList	optional
	dimension	positiveInteger	required
	gm:id	ID	required
The attribute gm:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
	srsDimension	positiveInteger	optional
	srsName	anyURI	optional
	uomLabels	gm:NCNameList	optional

Complex Type **gm:GridLimitsType**

Namespace	http://www.opengis.net/gml/3.2
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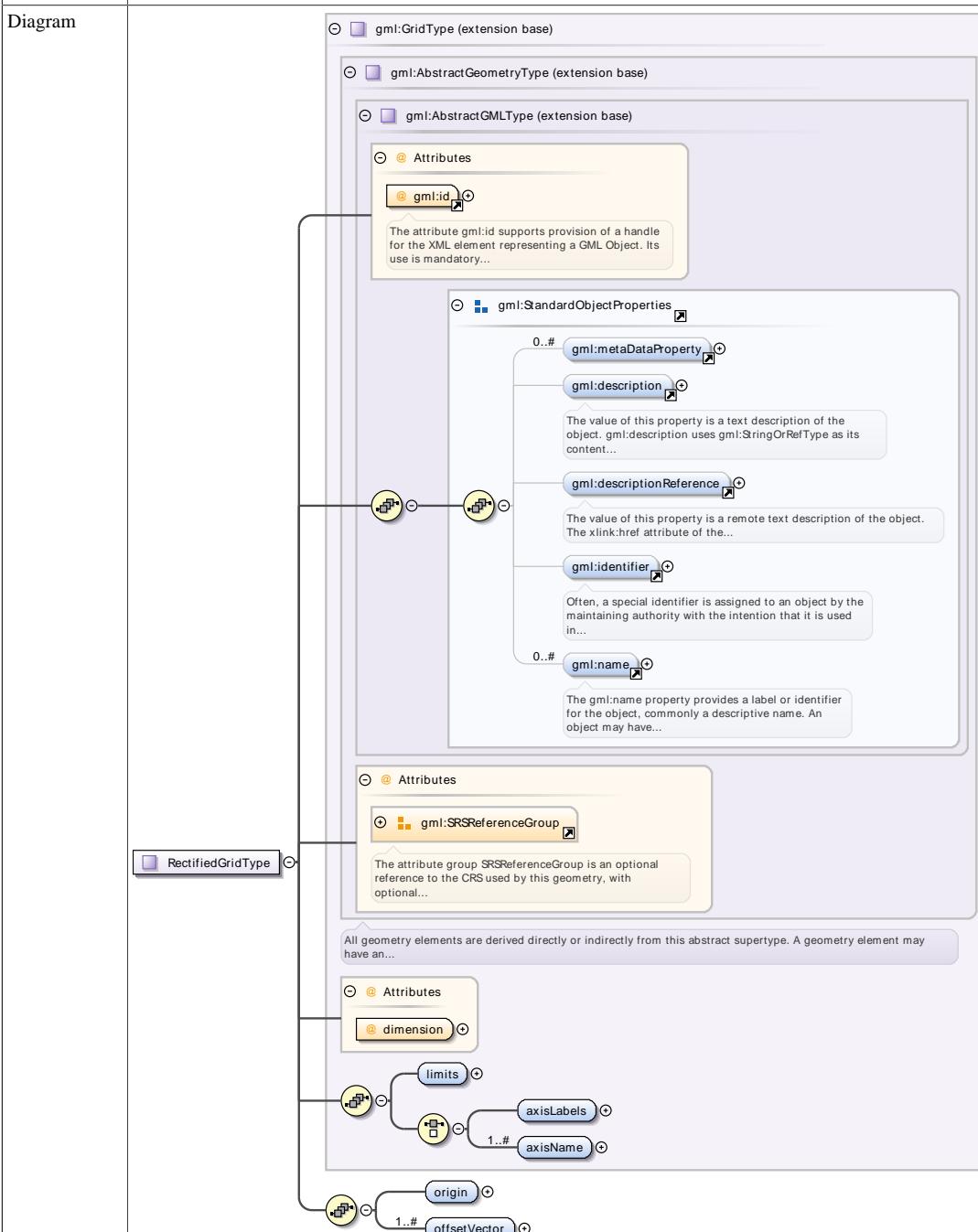
Complex Type `gml:GridEnvelopeType`

Namespace	http://www.opengis.net/gml/3.2
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Complex Type `gml:RectifiedGridType`

Namespace	http://www.opengis.net/gml/3.2
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Type	extension of <code>gml:GridType</code>
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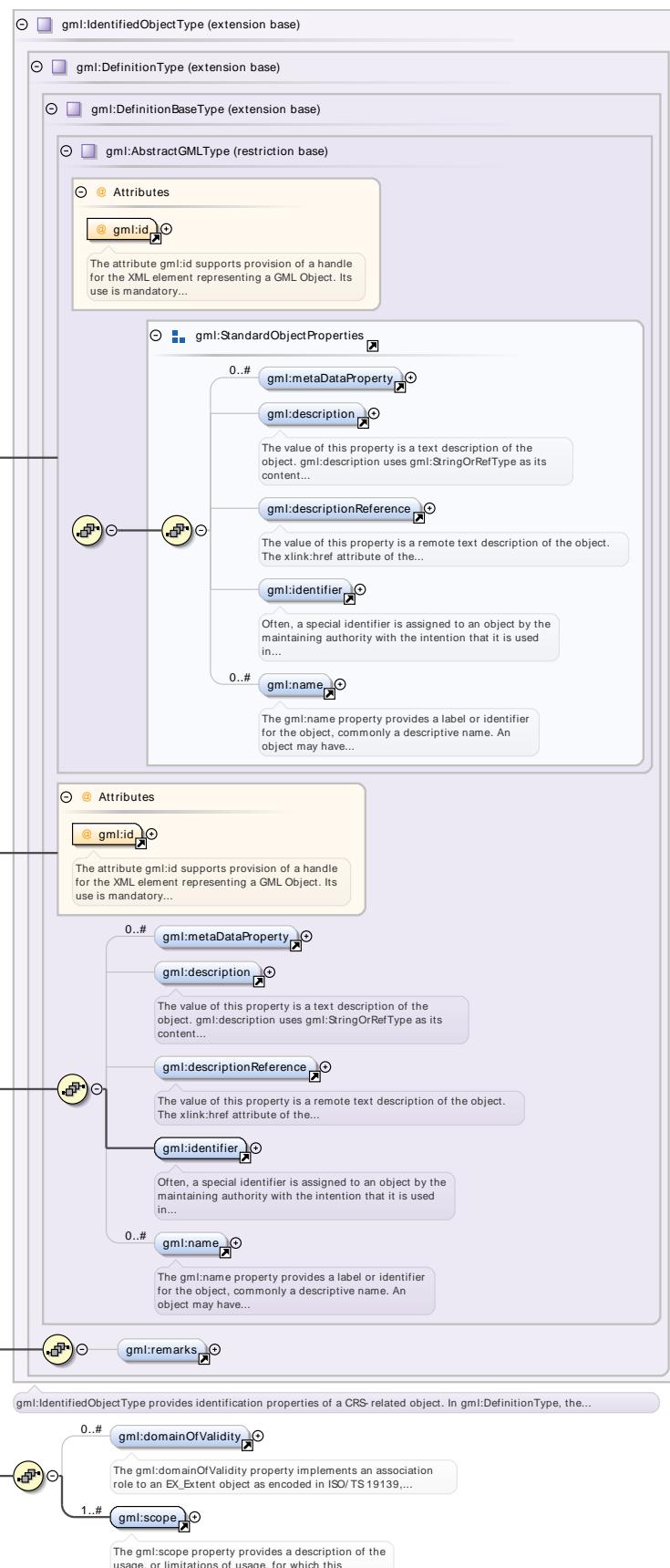
Attributes	QName	Type	Use
	<code>axisLabels</code>	<code>gml:NCNameList</code>	optional

QName	Type	Use	
dimension	positiveInteger	required	
gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		
srsDimension	positiveInteger	optional	
srsName	anyURI	optional	
uomLabels	gml:NCNameList	optional	

Complex Type **gml:AbstractCRSType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



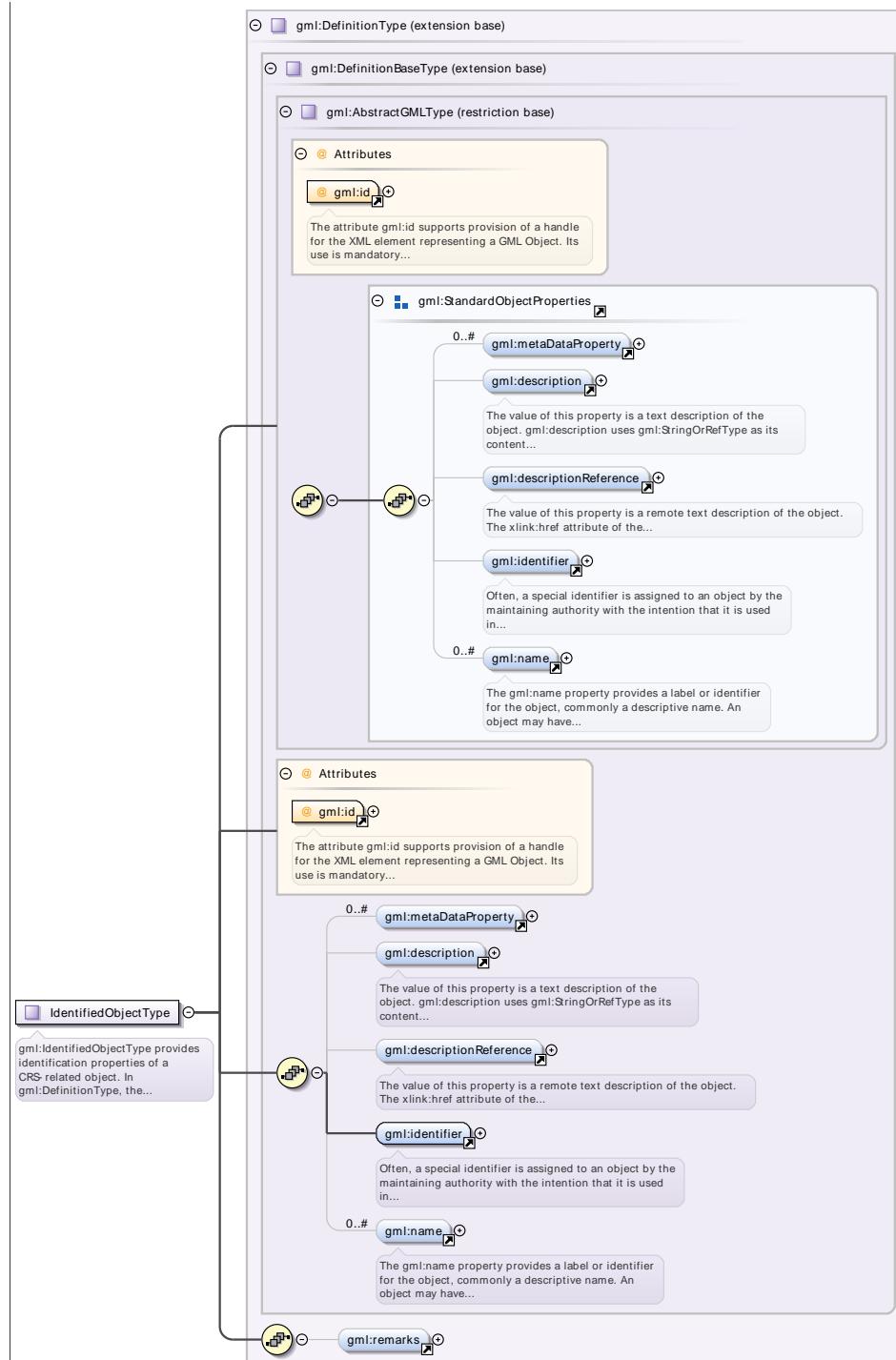
Type	extension of gml:IdentifiedObjectType
Properties	abstract: true

Attributes	QName	Type	Use	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Complex Type **gml:IdentifiedObjectType**

Namespace	http://www.opengis.net/gml/3.2
Annotations	<p>gml:IdentifiedObjectType provides identification properties of a CRS-related object. In gml:DefinitionType, the gml:identifier element shall be the primary name by which this object is identified, encoding the "name" attribute in the UML model. Zero or more of the gml:name elements can be an unordered set of "identifiers", encoding the "identifier" attribute in the UML model. Each of these gml:name elements can reference elsewhere the object's defining information or be an identifier by which this object can be referenced. Zero or more other gml:name elements can be an unordered set of "alias" alternative names by which this CRS related object is identified, encoding the "alias" attributes in the UML model. An object may have several aliases, typically used in different contexts. The context for an alias is indicated by the value of its (optional) codeSpace attribute. Any needed version information shall be included in the codeSpace attribute of a gml:identifier and gml:name elements. In this use, the gml:remarks element in the gml:DefinitionType shall contain comments on or information about this object, including data source information.</p>

Diagram



Type	extension of <code>gml:DefinitionType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:SingleCRSPROPERTYType`

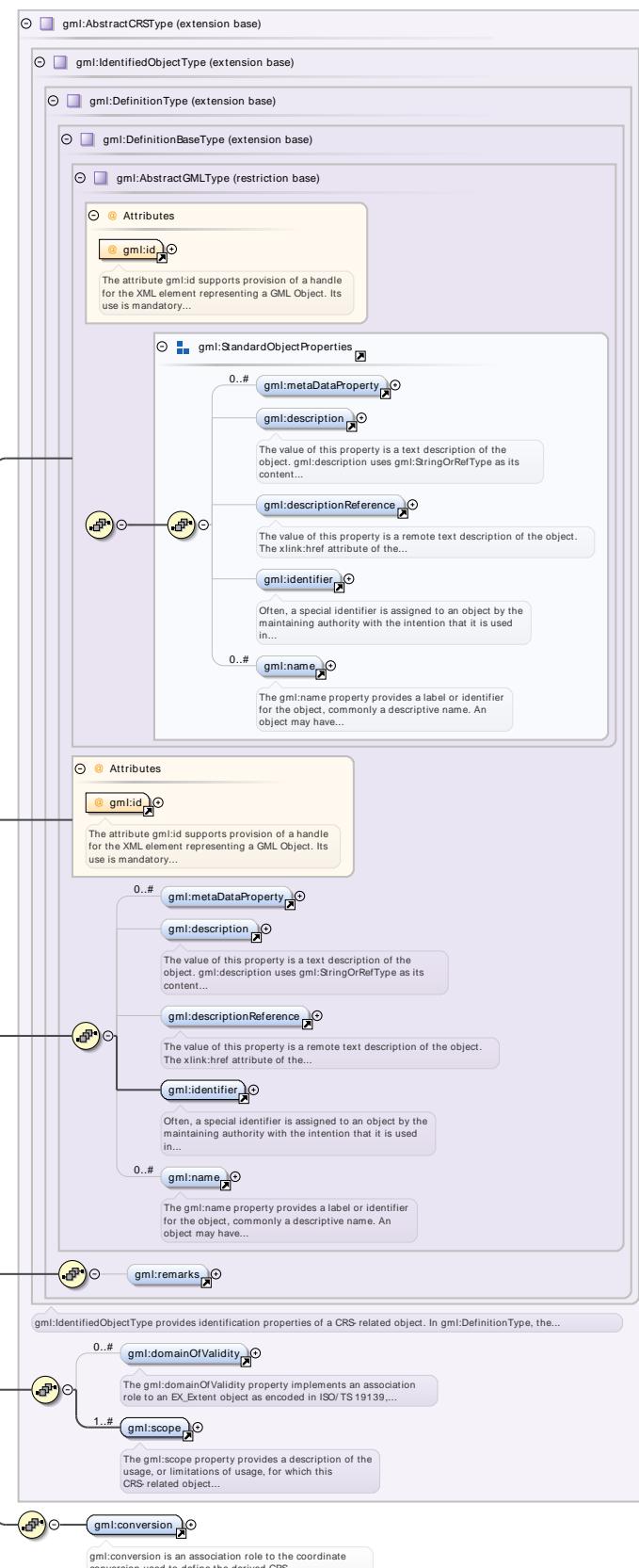
Namespace	http://www.opengis.net/gml/3.2
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Annotations	gml:SingleCRSPROPERTYType is a property type for association roles to a single coordinate reference system, either referencing or containing the definition of that coordinate reference system.																																								
Diagram	<p>The diagram illustrates the structure of the gml:SingleCRSPROPERTYType complex type. It is derived from gml:AbstractSingleCRSPROPERTY (indicated by a yellow diamond icon). The gml:SingleCRSPROPERTYType box contains a note: "gml:SingleCRSPROPERTYType is a property type for association roles to a single coordinate reference system, either...". A callout box points to the gml:AssociationAttributeGroup attribute, which is part of the gml:Attributes group. A note next to the gml:AssociationAttributeGroup says: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....". Another callout box points to the gml:AbstractSingleCRSPROPERTY base type, with a note: "gml:AbstractSingleCRSPROPERTY implements a coordinate reference system consisting of one coordinate system and one datum (as...)".</p>																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
xlink:arcrole	xlink:arcroleType		optional																																						
xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Complex Type **gml:AbstractGeneralDerivedCRSType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCRSType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

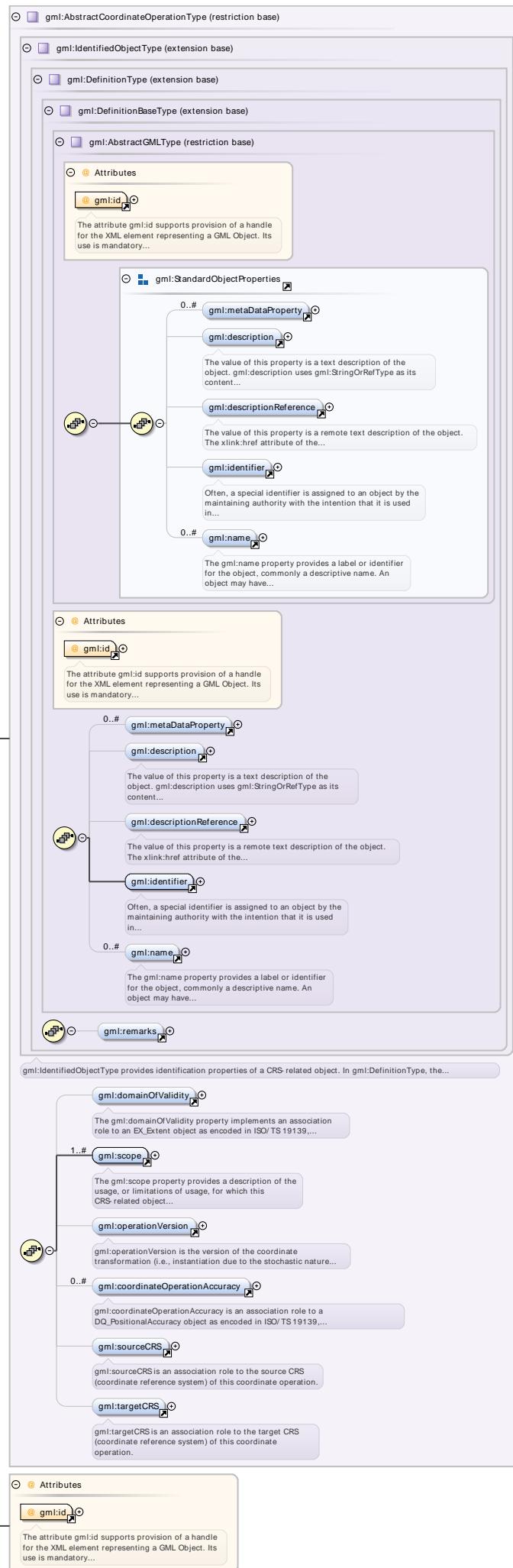
Complex Type **gml:GeneralConversionPropertyType**

Namespace	http://www.opengis.net/gml/3.2		
Annotations	gml:GeneralConversionPropertyType is a property type for association roles to a general conversion, either referencing or containing the definition of that conversion.		
Diagram			
Attributes	QName	Type	Fixed
	gml:remoteSchema	anyURI	optional
	nilReason	gml:NilReasonType	optional
	xlink:actuate	xlink:actuateType	optional
	xlink:arcrole	xlink:arcroleType	optional
	xlink:href	xlink:hrefType	optional
	xlink:role	xlink:roleType	optional
	xlink:show	xlink:showType	optional
	xlink:title	xlink:titleAttrType	optional
	xlink:type	xlink:typeType	simple
			optional

Complex Type **gml:AbstractGeneralConversionType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram

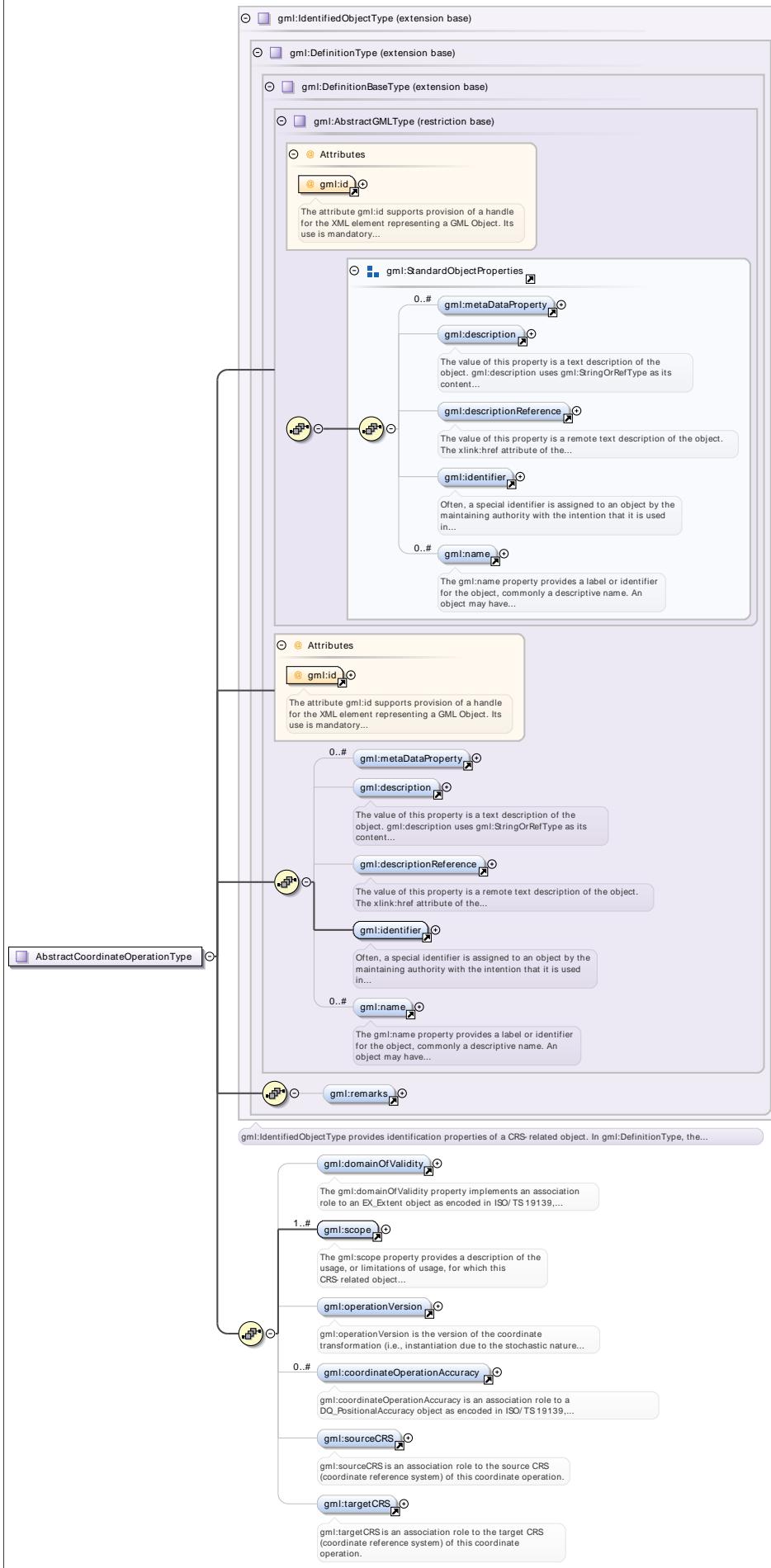


Type	restriction of <code>gml:AbstractCoordinateOperationType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:AbstractCoordinateOperationType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:IdentifiedObjectType</code>		
Properties	abstract: true		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

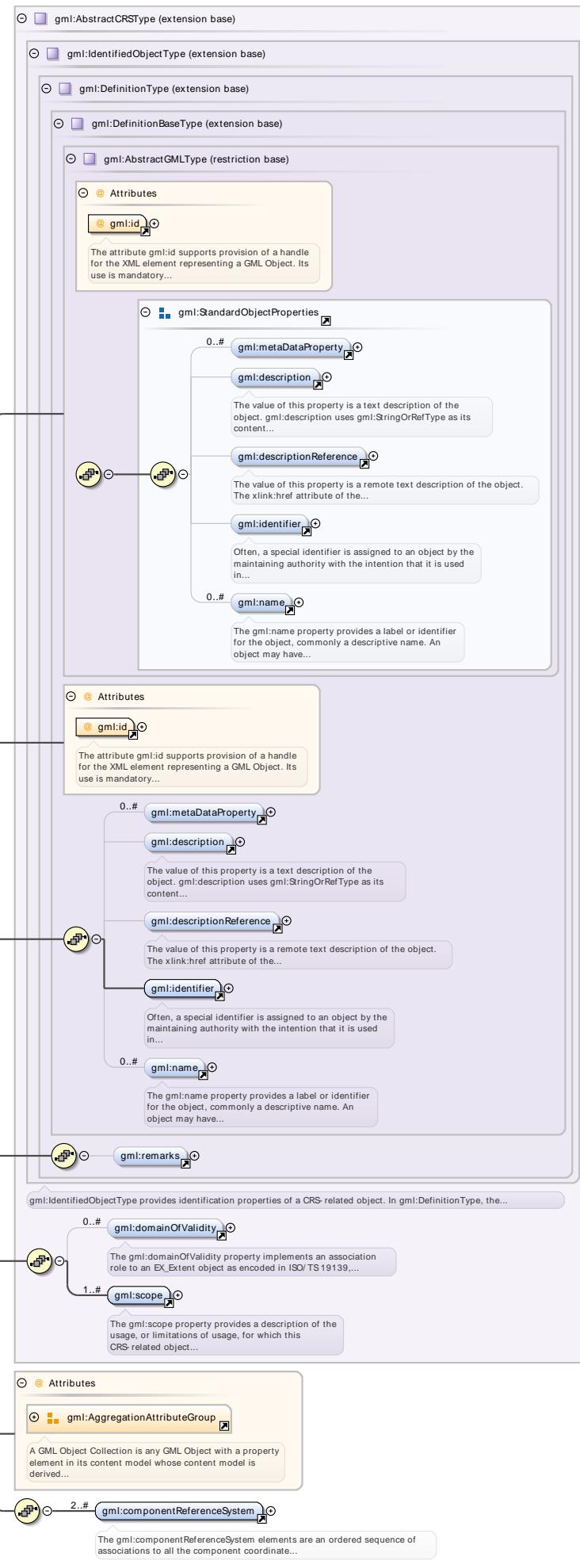
Complex Type `gml:CRSPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:CRSPropertyType is a property type for association roles to a CRS abstract coordinate reference system, either referencing or containing the definition of that CRS.			
Diagram	<p>gml:CRSPropertyType is a property type for association roles to a CRS abstract coordinate reference system, either...</p> <p>gml:AssociationAttributeGroup</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...</p> <p>gml:AbstractCRS</p> <p>gml:AbstractCRS specifies a coordinate reference system which is usually single but may be compound. This abstract...</p>			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed 	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:CompoundCRSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCRSType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:CompoundCRSPROPERTYType`

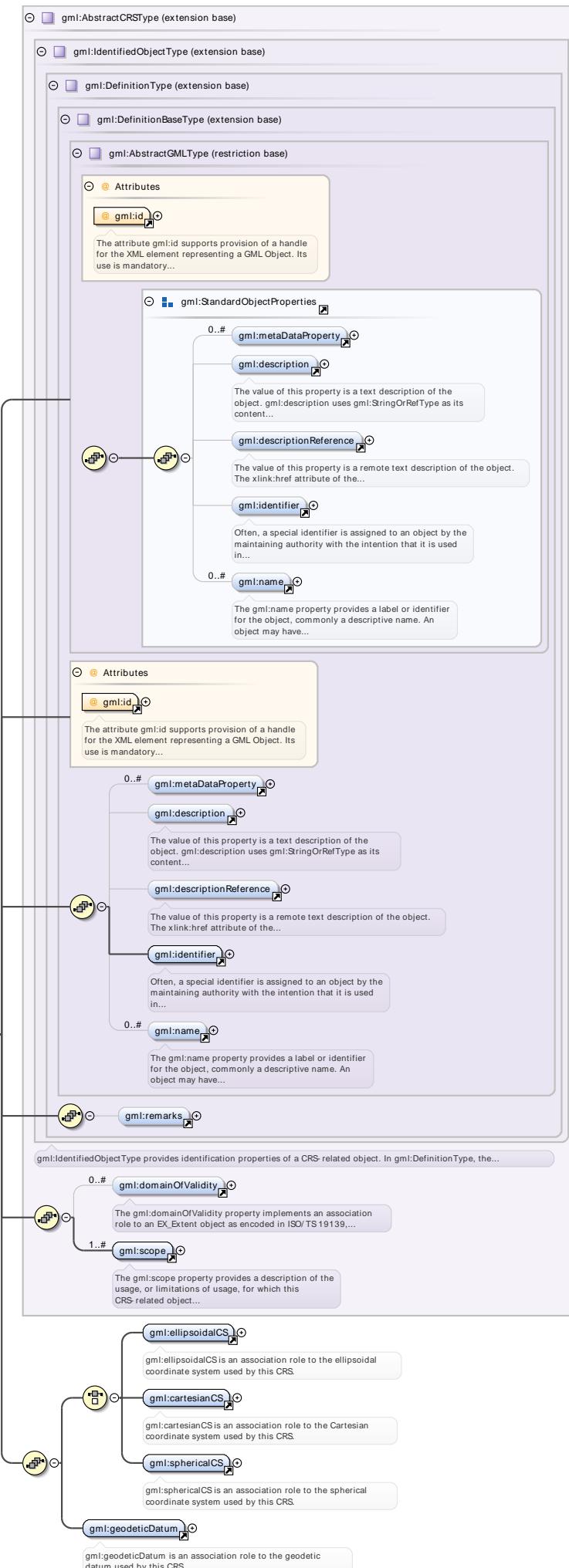
Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:CompoundCRSPROPERTYType</code> is a property type for association roles to a compound coordinate reference system, either referencing or containing the definition of that reference system.		
Diagram	<p>The diagram illustrates the inheritance of <code>gml:CompoundCRSPROPERTYType</code> from <code>gml:AbstractCRSType</code>. It shows a box for <code>gml:CompoundCRSPROPERTYType</code> with a note: "gml:CompoundCRSPROPERTYType is a property type for association roles to a compound coordinate reference system, either...". A line connects it to a box for <code>gml:AbstractCRSType</code>, which then connects to a box for <code>gml:CRSType</code>. The <code>gml:AbstractCRSType</code> box contains an "Attributes" section with a note: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...". Below <code>gml:CRSType</code> is a note: "gml:CompoundCRS is a coordinate reference system describing the position of points through two or more independent...".</p>		
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	<code>anyURI</code>	
	<code>nilReason</code>	<code>gml:NilReasonType</code>	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	
	<code>xlink:href</code>	<code>xlink:hrefType</code>	
	<code>xlink:role</code>	<code>xlink:roleType</code>	
	<code>xlink:show</code>	<code>xlink:showType</code>	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple
			optional

Complex Type `gml:GeodeticCRSType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:GeodeticCRS</code> is a coordinate reference system based on a geodetic datum.

Schema documentation for
MisPlanSummedUpTrip.xsd

Diagram



Type	extension of <code>gml:AbstractCRSType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

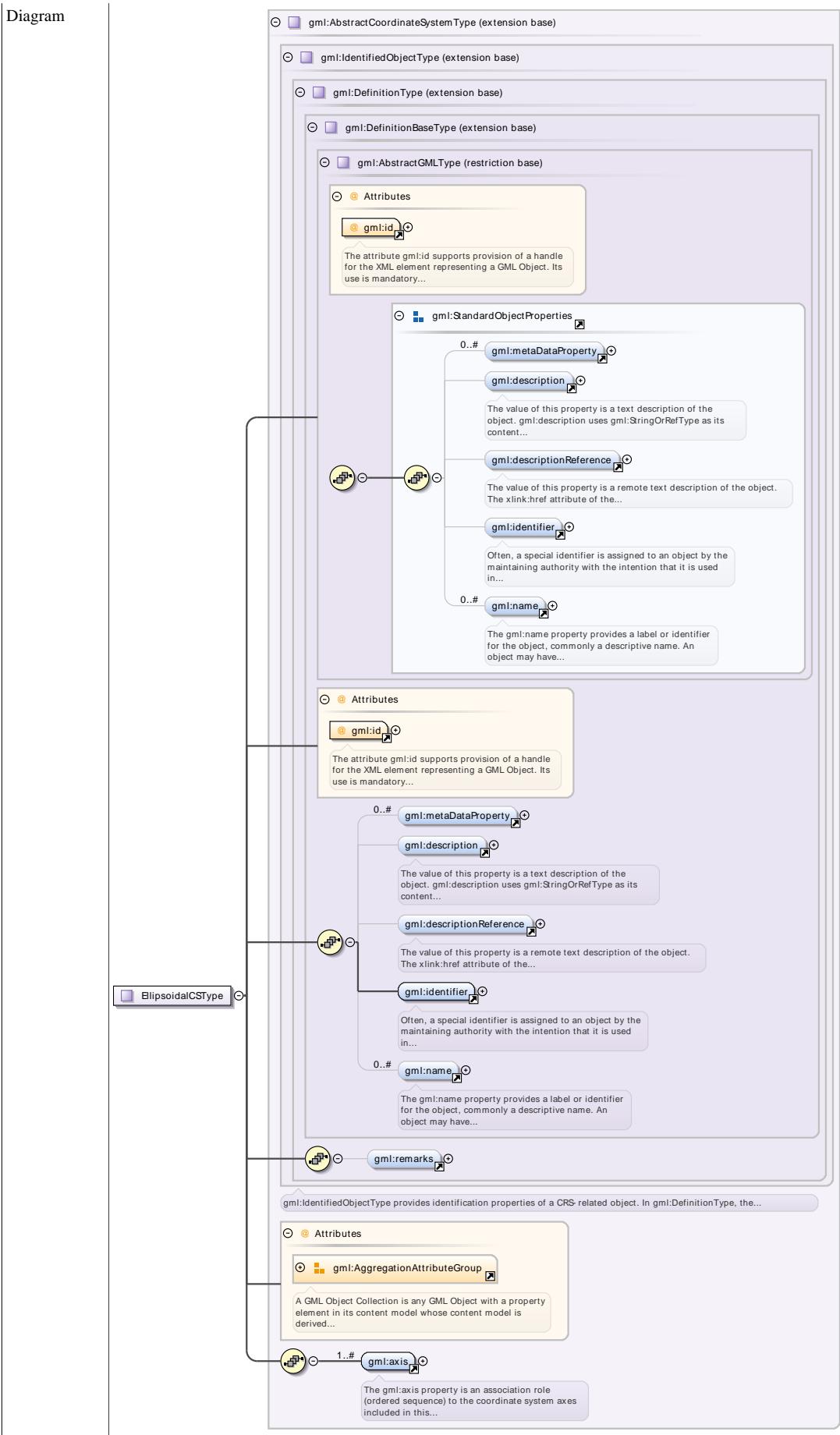
Complex Type `gml:EllipsoidalCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:EllipsoidalCSPropertyType</code> is a property type for association roles to an ellipsoidal coordinate system, either referencing or containing the definition of that coordinate system.			
Diagram	<p>The diagram illustrates the structure of <code>gml:EllipsoidalCSPropertyType</code>. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: A box labeled <code>gml:AssociationAttributeGroup</code> is shown, with a note explaining XLink components support hypertext referencing in XML. Associations: A box labeled <code>gml:EllipsoidalCS</code> is shown, with a note explaining it is a two- or three-dimensional coordinate system. Annotations: A box contains the text: "gml:EllipsoidalCSPropertyType is a property type for association roles to an ellipsoidal coordinate system, either..." 			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:EllipsoidalCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

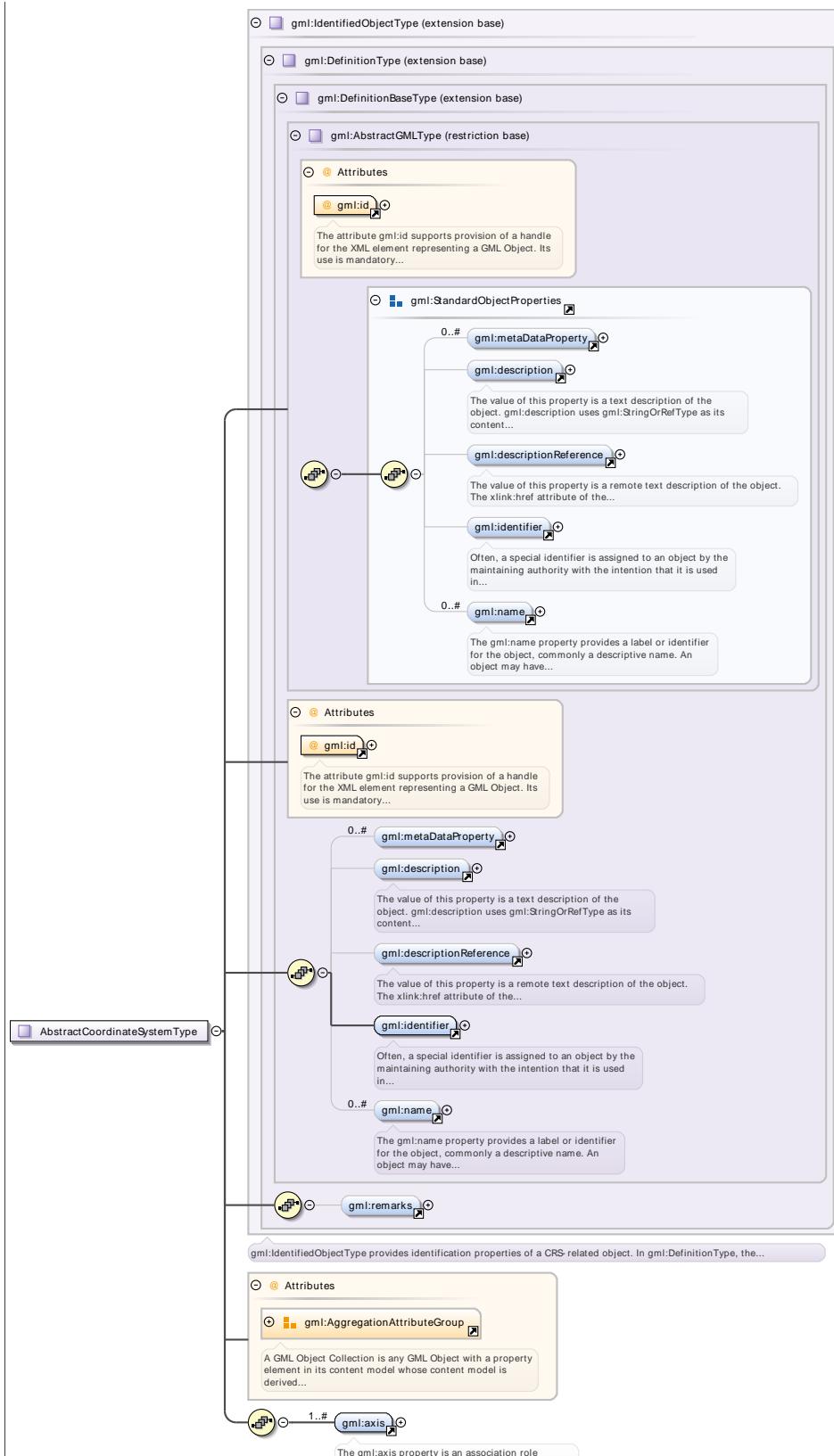


Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:AbstractCoordinateSystemType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:IdentifiedObjectType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional

QName	Type	Use
gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Complex Type **gml:CoordinateSystemAxisPropertyType**

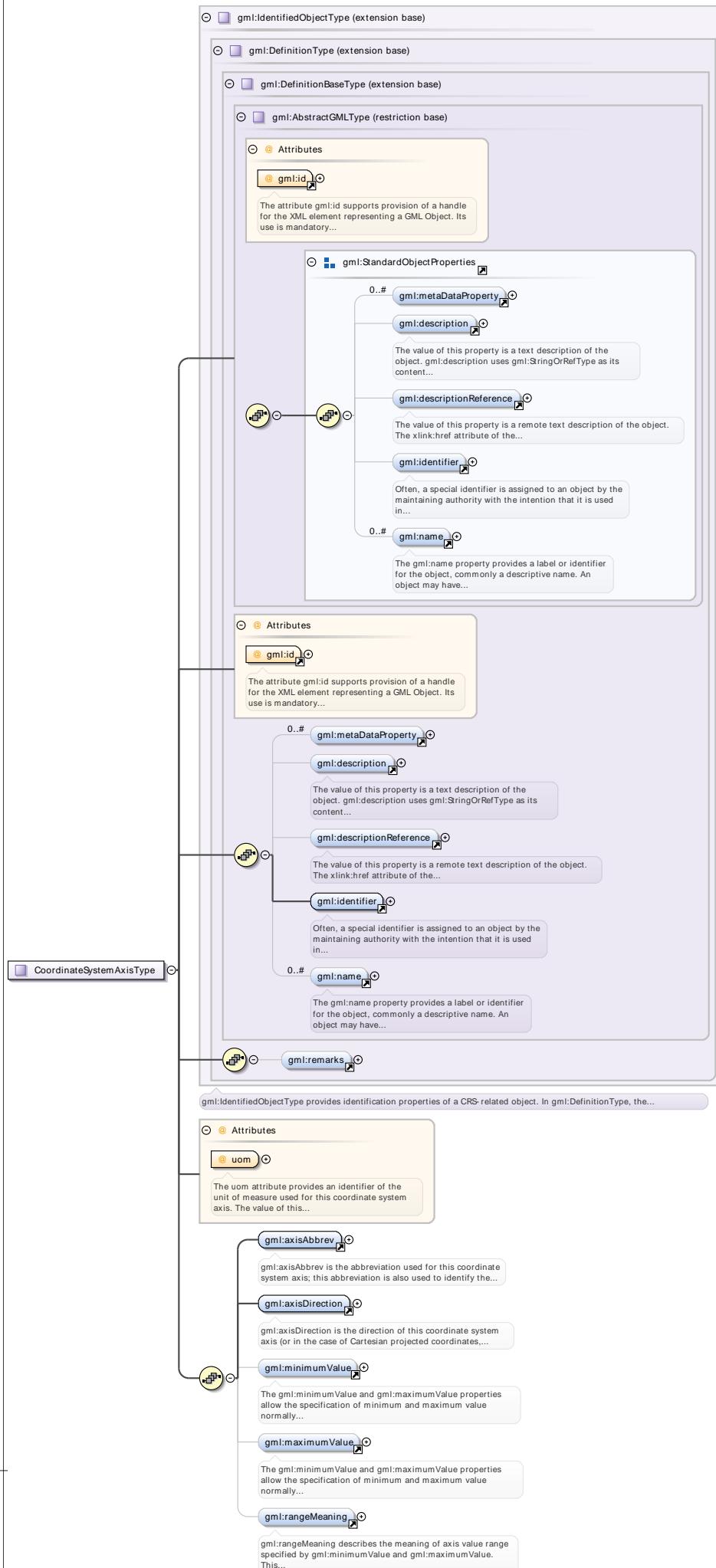
Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:CoordinateSystemAxisPropertyType is a property type for association roles to a coordinate system axis, either referencing or containing the definition of that axis.				
Diagram	<pre> classDiagram class CoordinateSystemAxisPropertyType class gmlCoordinateSystemAxis CoordinateSystemAxisPropertyType "0..1" -- "1..1" gmlCoordinateSystemAxis gmlCoordinateSystemAxis "1..1" -- "0..1" CoordinateSystemAxisPropertyType gmlCoordinateSystemAxis < -- gmlAssociationAttributeGroup gmlCoordinateSystemAxis < -- gmlCoordinateSystemAxis </pre>				
Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	gml:NilReasonType		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Complex Type **gml:CoordinateSystemAxisType**

Namespace	http://www.opengis.net/gml/3.2
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Schema documentation for MisPlanSummedUpTrip.xsd

Diagram



Type	extension of <code>gml:IdentifiedObjectType</code>			
Attributes	QName	Type	Use	
	gml:id	ID	required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			
	uom	<code>gml:UomIdentifier</code>	required	
	The <code>uom</code> attribute provides an identifier of the unit of measure used for this coordinate system axis. The value of this coordinate in a coordinate tuple shall be recorded using this unit of measure, whenever those coordinates use a coordinate reference system that uses a coordinate system that uses this axis.			

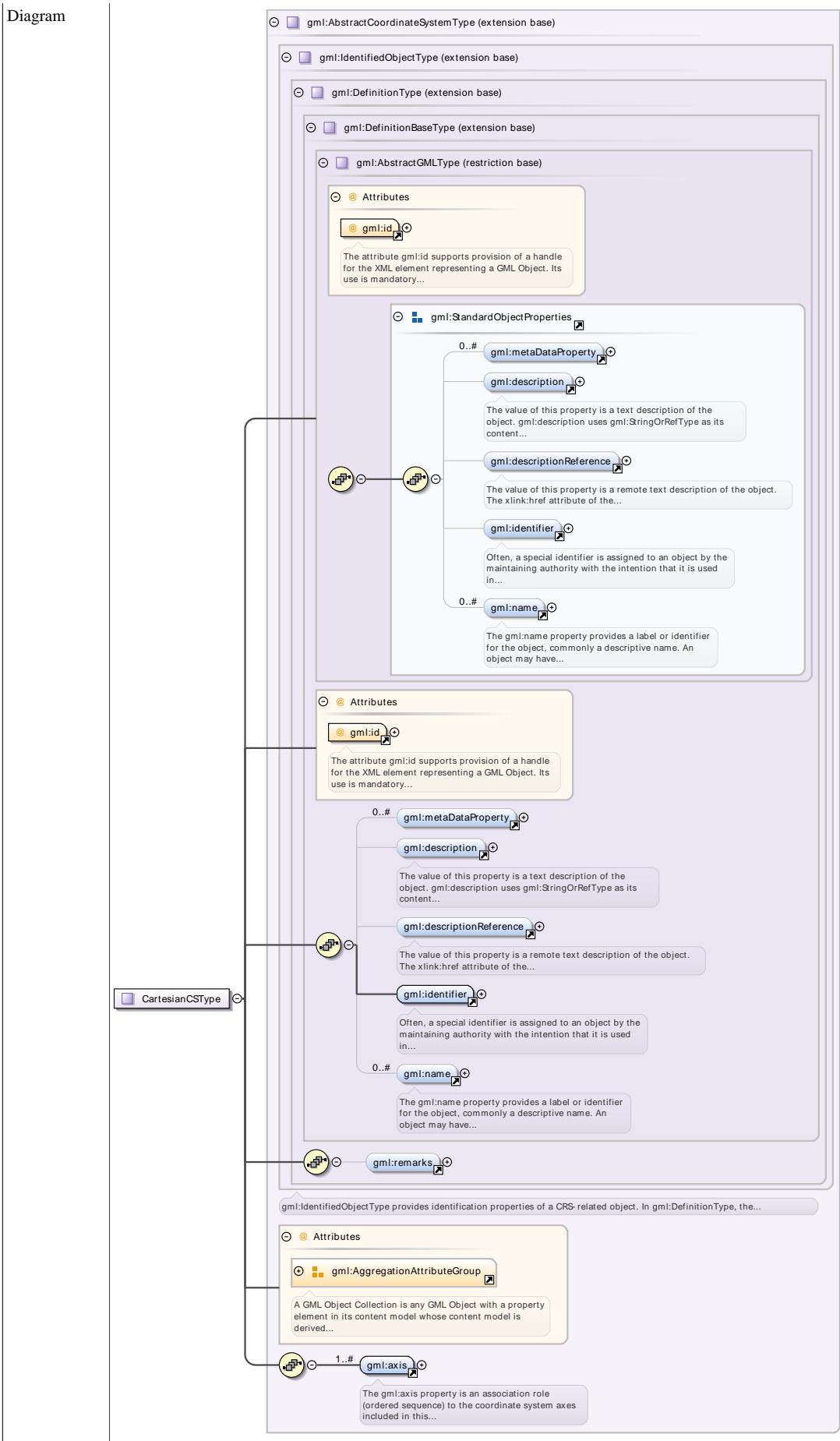
Complex Type `gml:CartesianCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:CartesianCSPropertyType</code> is a property type for association roles to a Cartesian coordinate system, either referencing or containing the definition of that coordinate system.			
Diagram	<p>The diagram illustrates the inheritance of <code>gml:CartesianCSPropertyType</code> from <code>gml:IdentifiedObject</code>. It also shows the association of <code>gml:CartesianCSPropertyType</code> with <code>gml:CartesianCS</code>, which is a 1-, 2-, or 3-dimensional coordinate system. A callout box provides a detailed description of <code>gml:CartesianCS</code>.</p>			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	<code>gml:NilReasonType</code>		optional
	xlink:actuate	<code>xlink:actuateType</code>		optional
	xlink:arcrole	<code>xlink:arcroleType</code>		optional
	xlink:href	<code>xlink:hrefType</code>		optional
	xlink:role	<code>xlink:roleType</code>		optional
	xlink:show	<code>xlink:showType</code>		optional
	xlink:title	<code>xlink:titleAttrType</code>		optional
	xlink:type	<code>xlink:typeType</code>	simple	optional

Complex Type `gml:CartesianCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

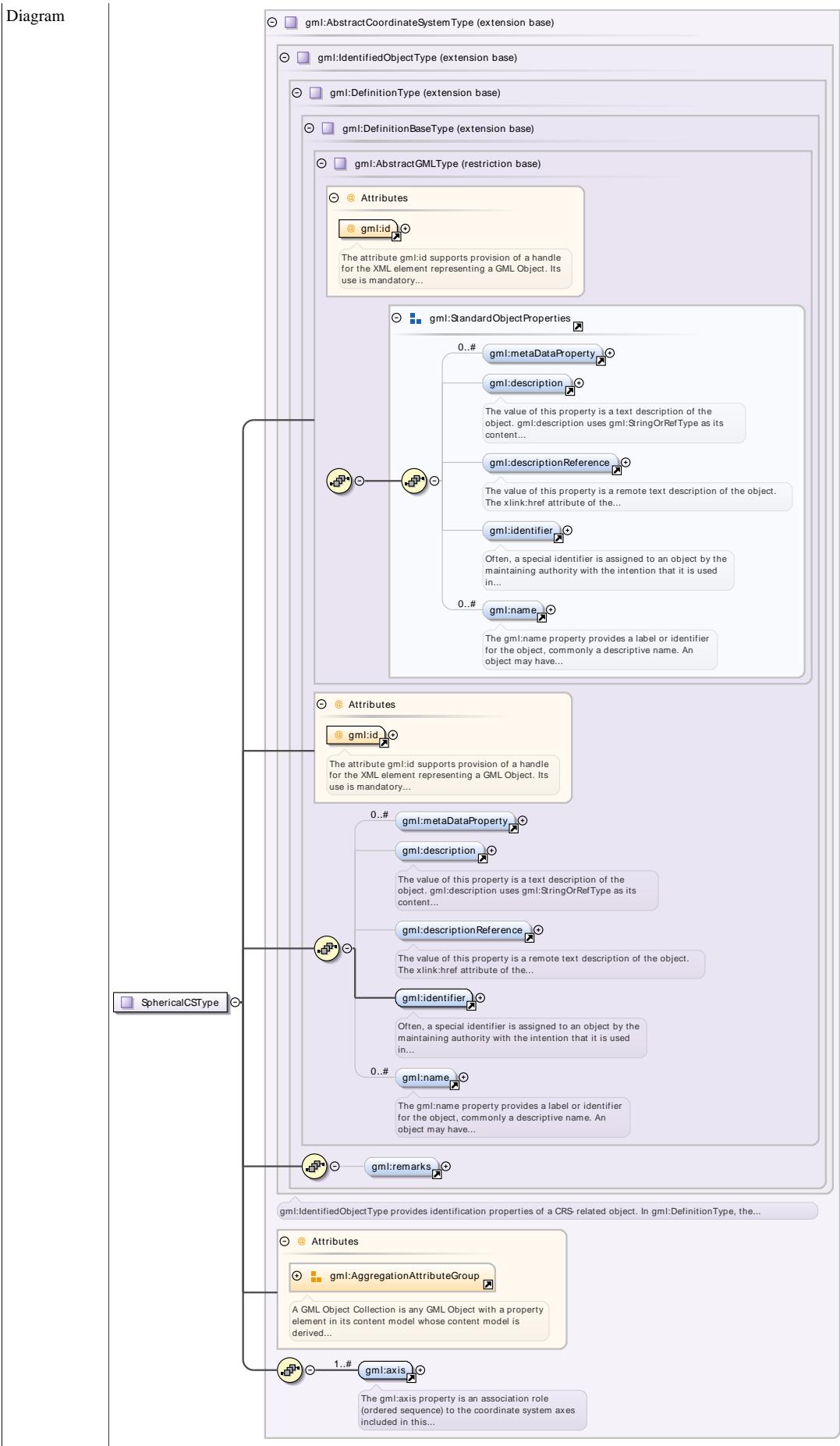
Complex Type `gml:SphericalCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<code>gml:SphericalCSPropertyType</code> is property type for association roles to a spherical coordinate system, either referencing or containing the definition of that coordinate system.				
Diagram	<p>The diagram illustrates the structure of the <code>gml:SphericalCSPropertyType</code> complex type. It is a property type for association roles to a spherical coordinate system. The type is defined by the <code>gml:SphericalCS</code> element, which is part of the <code>gml:AssociationAttributeGroup</code>. The <code>gml:SphericalCS</code> element is described as a three-dimensional coordinate system with one distance measured from the origin and two angular... The <code>gml:SphericalCSPropertyType</code> is also associated with the <code>gml:remoteSchema</code> attribute.</p>				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	anyURI		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Complex Type `gml:SphericalCSType`

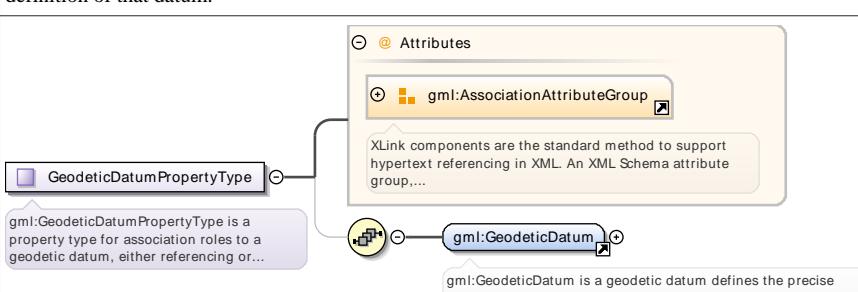
Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>			
Attributes	QName	Type	Use	
	aggregationType	<code>gml:AggregationType</code>	optional	
	gml:id	<code>ID</code>	required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code> , so is constrained to be unique in the XML document within which it occurs.			

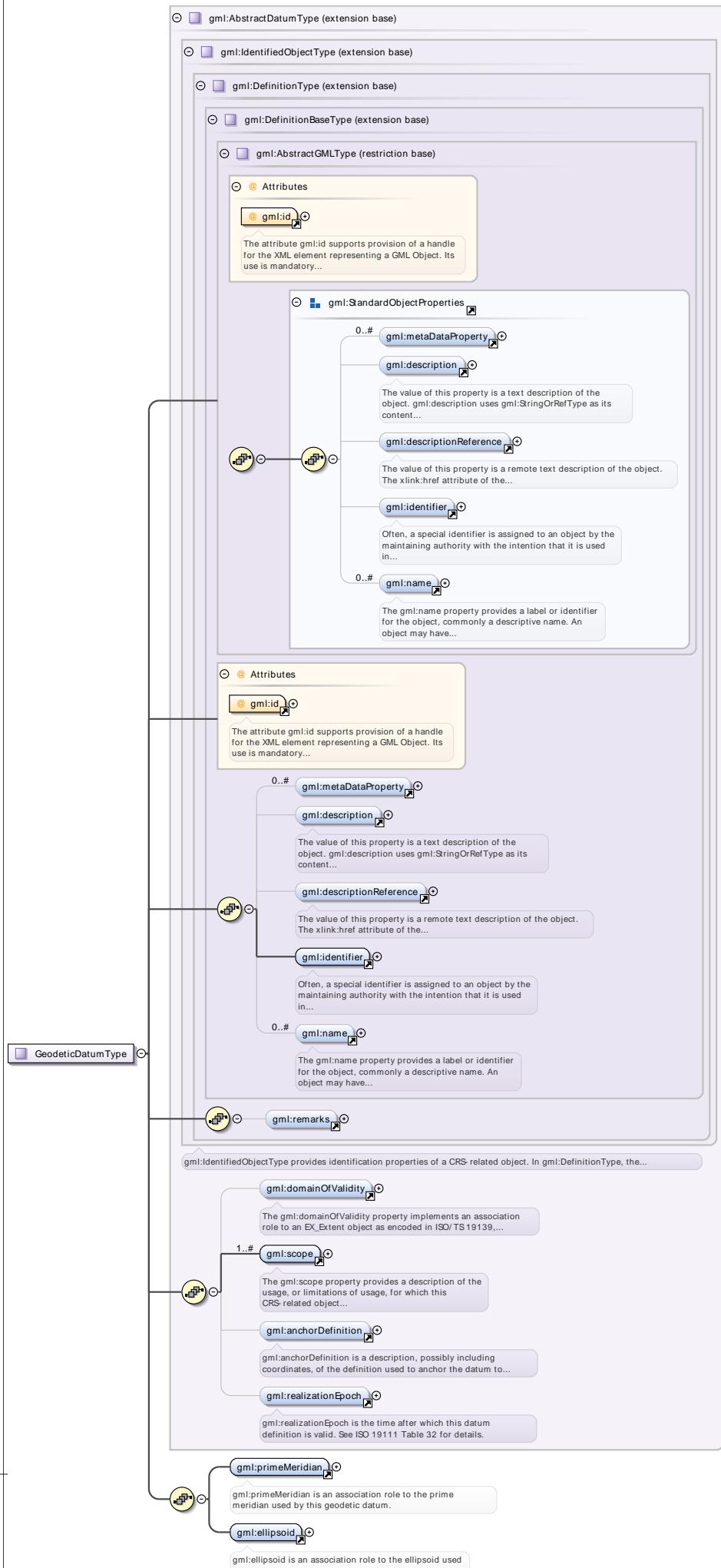
Complex Type `gml:GeodeticDatumPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:GeodeticDatumPropertyType</code> is a property type for association roles to a geodetic datum, either referencing or containing the definition of that datum.			
Diagram	 <p><code>gml:GeodeticDatumPropertyType</code> is a property type for association roles to a geodetic datum, either referencing or...</p> <p><code>gml:GeodeticDatum</code> is a geodetic datum defines the precise location and orientation in 3-dimensional space of a defined...</p>			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	<code>anyURI</code>		optional
	nilReason	<code>gml:NilReasonType</code>		optional
	xlink:actuate	<code>xlink:actuateType</code>		optional
	xlink:arcrole	<code>xlink:arcroleType</code>		optional
	xlink:href	<code>xlink:hrefType</code>		optional
	xlink:role	<code>xlink:roleType</code>		optional
	xlink:show	<code>xlink:showType</code>		optional
	xlink:title	<code>xlink:titleAttrType</code>		optional
	xlink:type	<code>xlink:typeType</code>	simple	optional

Complex Type `gml:GeodeticDatumType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

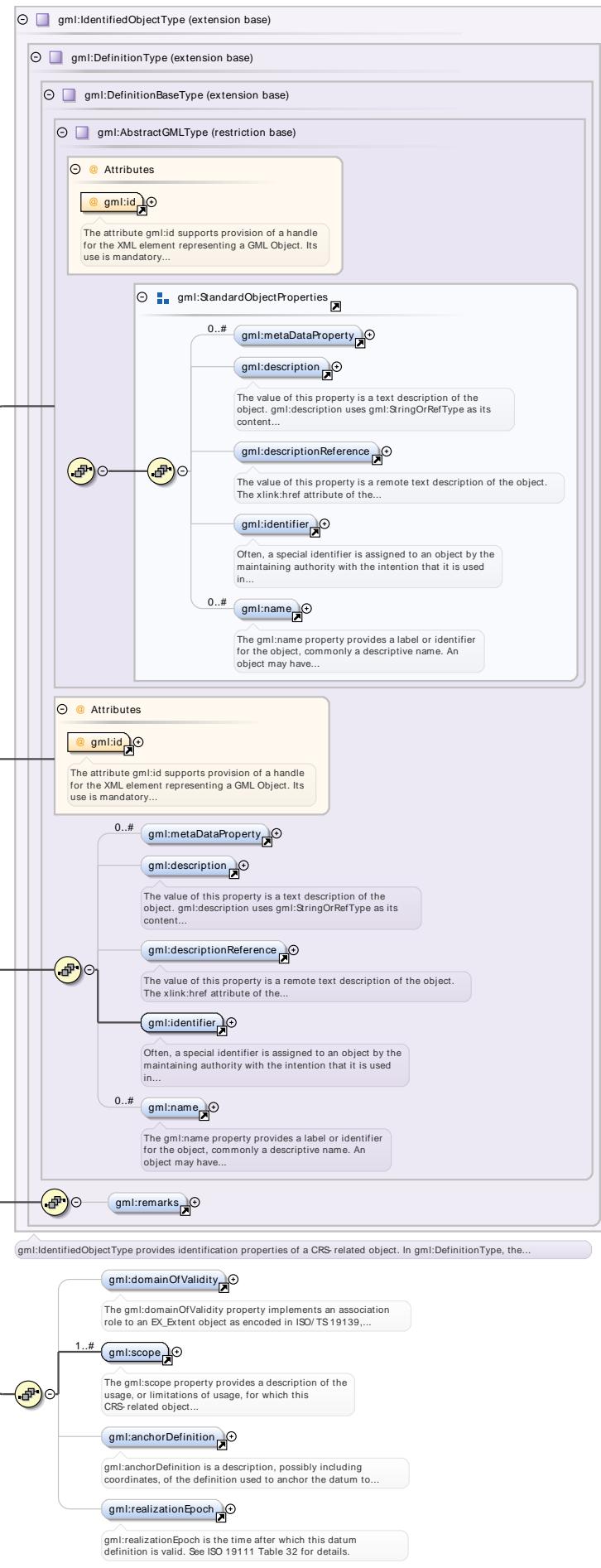


Type	extension of <code>gml:AbstractDatumType</code>					
Attributes	QName	Type	Use			
	gml:id	ID	required	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:AbstractDatumType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:IdentifiedObjectType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

The attribute `gml:id` supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

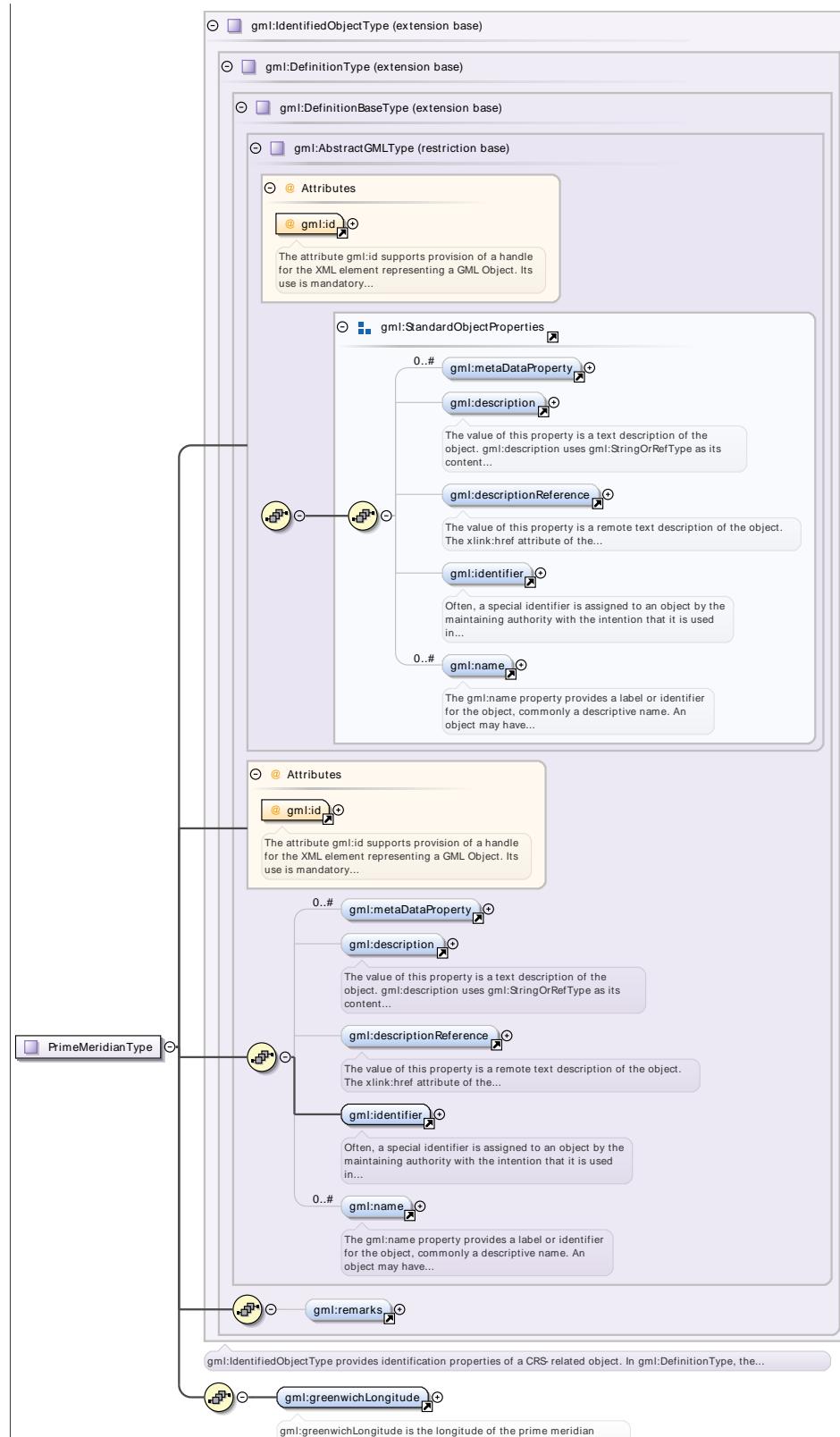
Complex Type `gml:PrimeMeridianPropertyType`

Namespace	http://www.opengis.net/gml/3.2																																																						
Annotations	<code>gml:PrimeMeridianPropertyType</code> is a property type for association roles to a prime meridian, either referencing or containing the definition of that meridian.																																																						
Diagram																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td><code>gml:remoteSchema</code></td> <td>anyURI</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>nilReason</code></td> <td><code>gml:NilReasonType</code></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>xlink:actuate</code></td> <td><code>xlink:actuateType</code></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>xlink:arcrole</code></td> <td><code>xlink:arcroleType</code></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>xlink:href</code></td> <td><code>xlink:hrefType</code></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>xlink:role</code></td> <td><code>xlink:roleType</code></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>xlink:show</code></td> <td><code>xlink:showType</code></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>xlink:title</code></td> <td><code>xlink:titleAttrType</code></td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td><code>xlink:type</code></td> <td><code>xlink:typeType</code></td> <td>simple</td> <td>optional</td> <td></td> </tr> </tbody> </table>					QName	Type	Fixed	Use		<code>gml:remoteSchema</code>	anyURI		optional		<code>nilReason</code>	<code>gml:NilReasonType</code>		optional		<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional		<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional		<code>xlink:href</code>	<code>xlink:hrefType</code>		optional		<code>xlink:role</code>	<code>xlink:roleType</code>		optional		<code>xlink:show</code>	<code>xlink:showType</code>		optional		<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional		<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	
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Complex Type `gml:PrimeMeridianType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of gml:IdentifiedObjectType

Type	QName	Type	Use	
Attributes	gml:id	ID	required	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

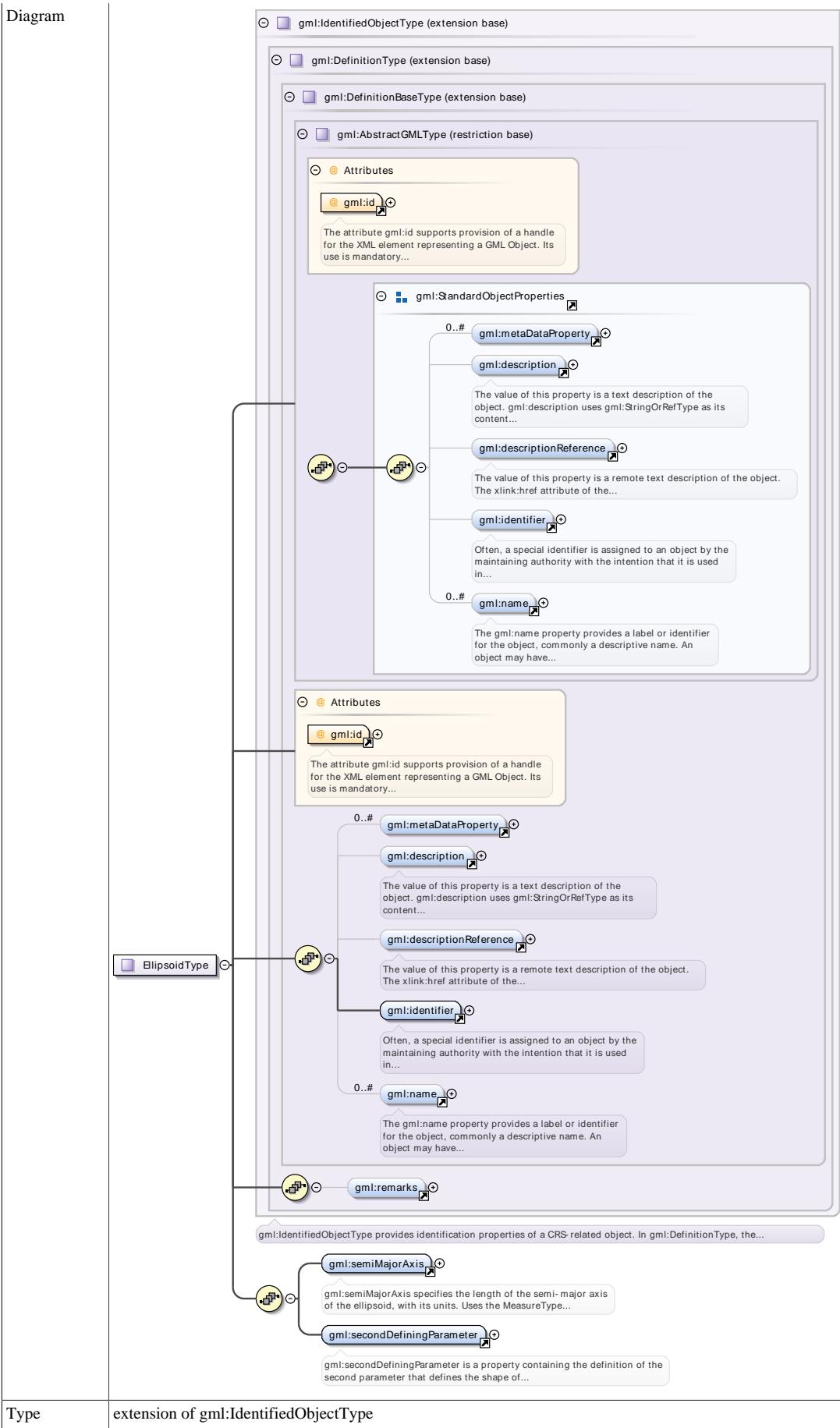
Complex Type **gml:EllipsoidPropertyType**

Namespace	http://www.opengis.net/gml/3.2																																																						
Annotations	gml:EllipsoidPropertyType is a property type for association roles to an ellipsoid, either referencing or containing the definition of that ellipsoid.																																																						
Diagram	<p>The diagram shows the UML class EllipsoidPropertyType. It has an attribute gml:AssociationAttributeGroup (indicated by a yellow box with a plus sign) and a reference to gml:Ellipsoid (indicated by a yellow box with a circle and a cross). A callout box for gml:AssociationAttributeGroup states: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...'. A callout box for gml:Ellipsoid states: 'A gml:Ellipsoid is a geometric figure that may be used to describe the approximate shape of the earth. In mathematical...'. A general note for the class is: 'gml:EllipsoidPropertyType is a property type for association roles to an ellipsoid, either referencing or containing...'. The class is highlighted with a purple box.</p>																																																						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> <td></td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> <td></td> </tr> </tbody> </table>					QName	Type	Fixed	Use		gml:remoteSchema	anyURI		optional		nilReason	gml:NilReasonType		optional		xlink:actuate	xlink:actuateType		optional		xlink:arcrole	xlink:arcroleType		optional		xlink:href	xlink:hrefType		optional		xlink:role	xlink:roleType		optional		xlink:show	xlink:showType		optional		xlink:title	xlink:titleAttrType		optional		xlink:type	xlink:typeType	simple	optional	
QName	Type	Fixed	Use																																																				
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xlink:type	xlink:typeType	simple	optional																																																				

Complex Type **gml:EllipsoidType**

Namespace	http://www.opengis.net/gml/3.2				
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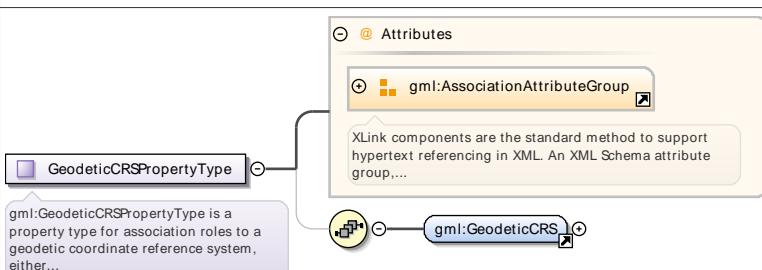
Diagram



Type	extension of gml:IdentifiedObjectType
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Attributes	QName	Type	Use	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

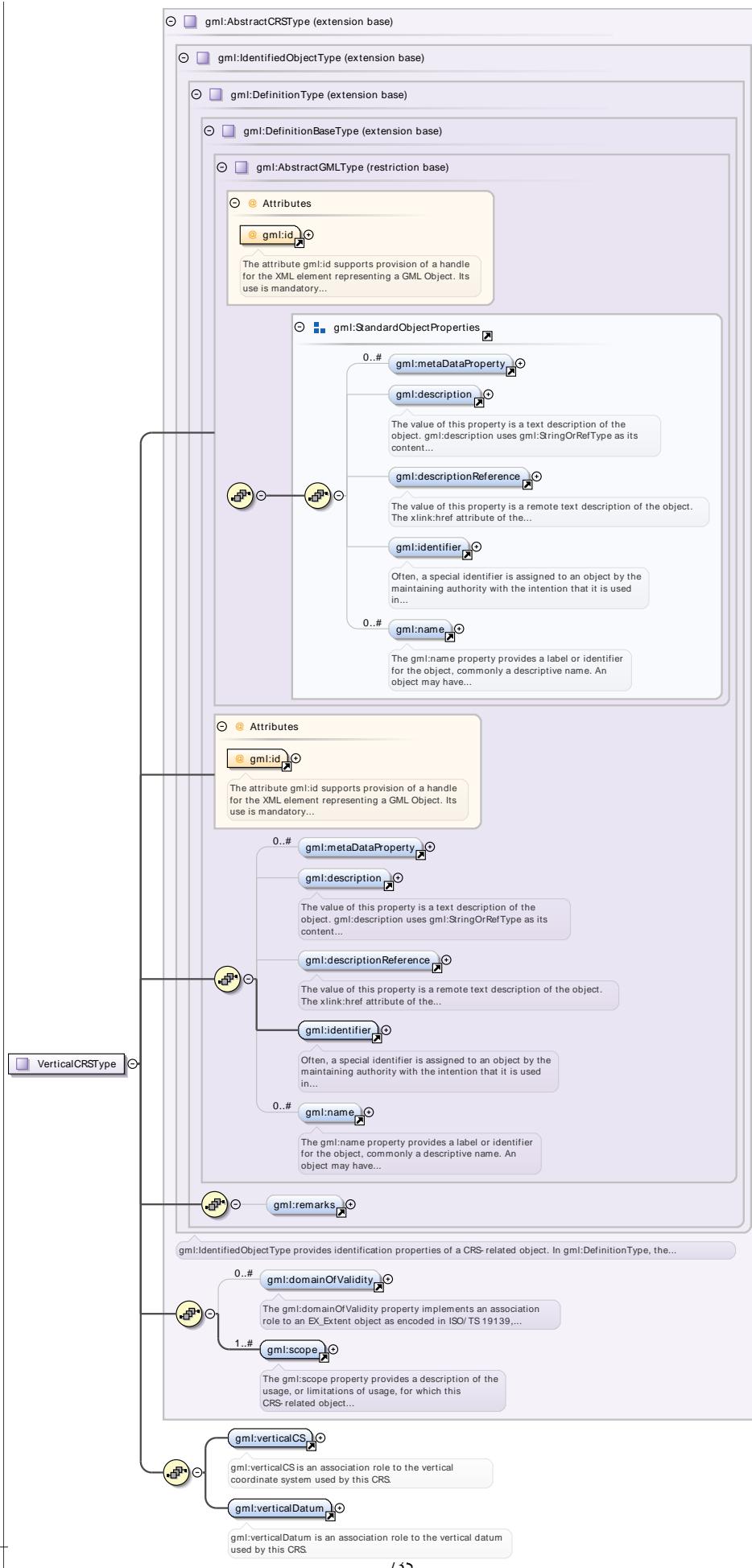
Complex Type **gml:GeodeticCRSPROPERTYType**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:GeodeticCRSPROPERTYType is a property type for association roles to a geodetic coordinate reference system, either referencing or containing the definition of that reference system.				
Diagram					
Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	gml:NilReasonType		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Complex Type **gml:VerticalCRSType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCRSType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

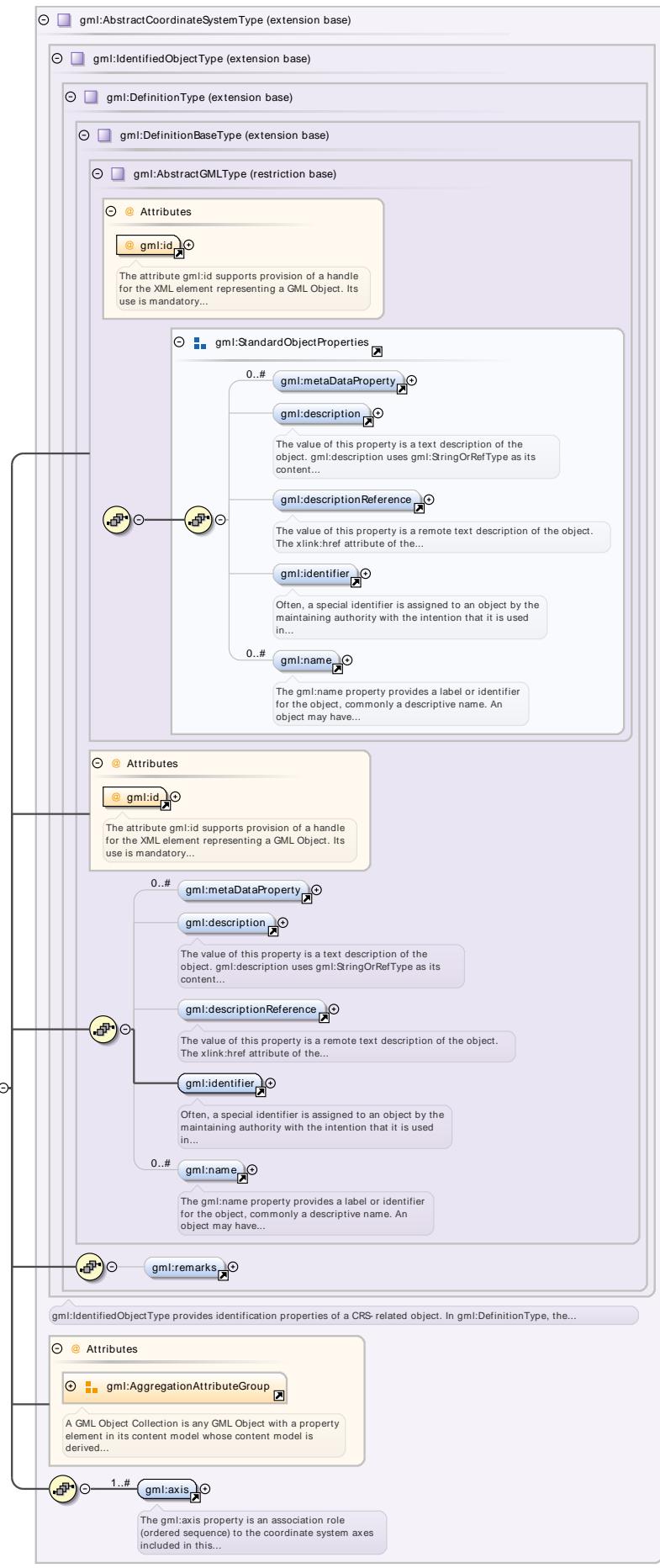
Complex Type `gml:VerticalCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<code>gml:VerticalCSPropertyType</code> is a property type for association roles to a vertical coordinate system, either referencing or containing the definition of that coordinate system.				
Diagram	<p>The diagram illustrates the structure of <code>gml:VerticalCSPropertyType</code>. It is a property type for association roles to a vertical coordinate system. The diagram shows the type itself, an <code>gml:AssociationAttributeGroup</code> (highlighted in orange), and a <code>gml:VerticalCS</code> (highlighted in yellow). A callout box provides a detailed description of <code>gml:VerticalCS</code> as a one-dimensional coordinate system for heights or depths. Another callout box describes the <code>gml:AssociationAttributeGroup</code> as a standard method for hypertext referencing.</p>				
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional optional	

Complex Type `gml:VerticalCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

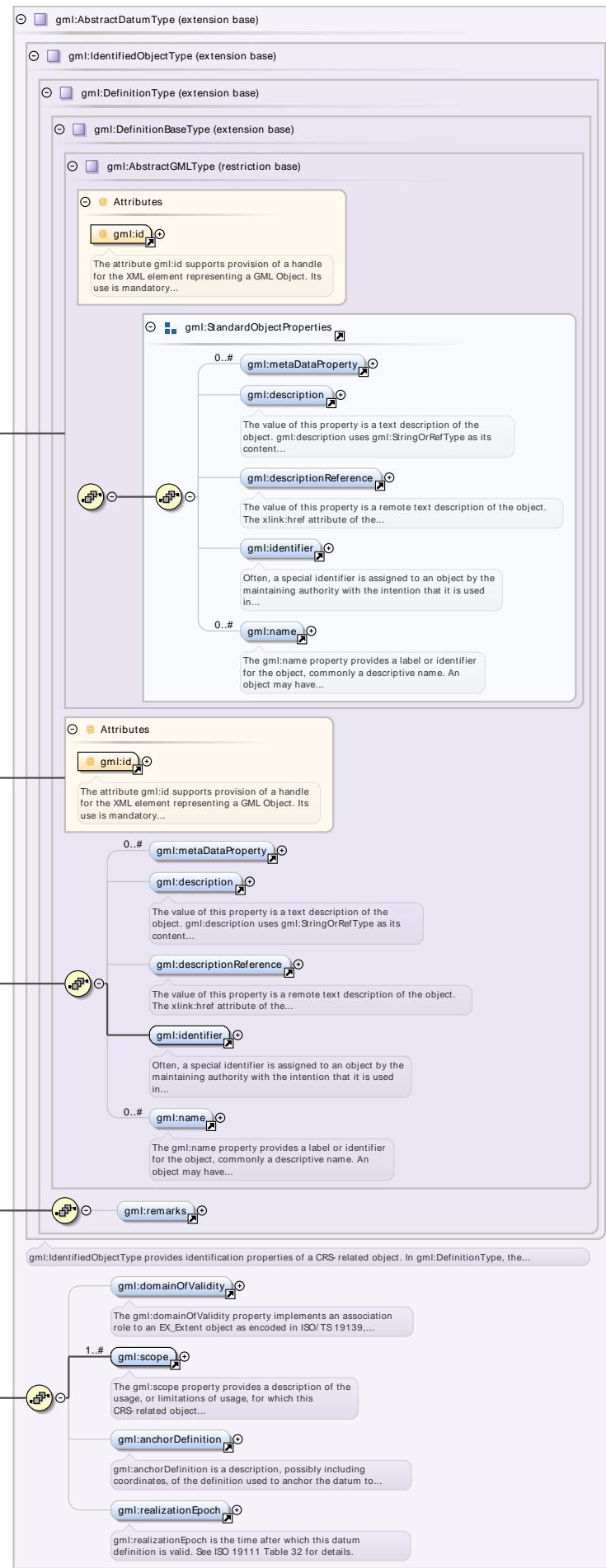
Complex Type `gml:VerticalDatumPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<code>gml:VerticalDatumPropertyType</code> is property type for association roles to a vertical datum, either referencing or containing the definition of that datum.				
Diagram	<p><code>gml:VerticalDatumPropertyType</code> is property type for association roles to a vertical datum, either referencing or...</p> <p><code>gml:VerticalDatum</code></p> <p><code>gml:VerticalDatum</code> is a textual description and/or a set of parameters identifying a particular reference level surface...</p>				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	<code>anyURI</code>		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Complex Type `gml:VerticalDatumType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractDatumType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

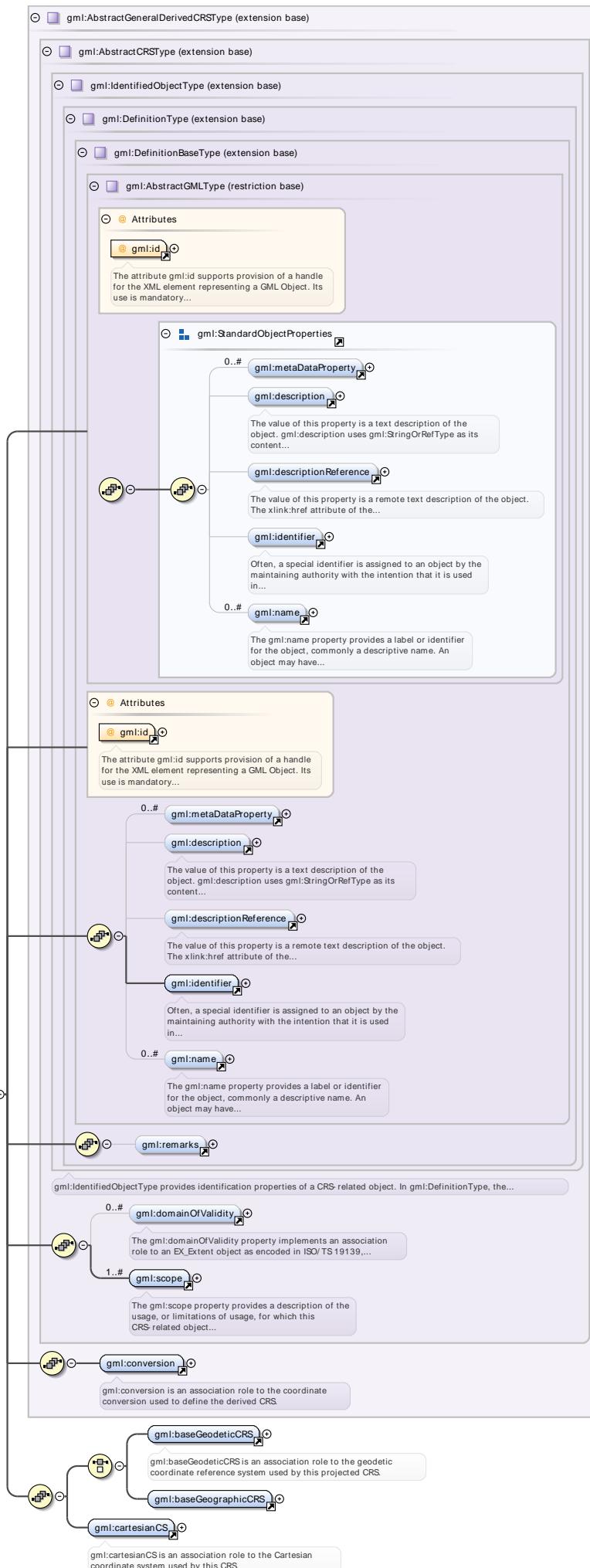
Complex Type `gml:VerticalCRSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:VerticalCRSPROPERTYType</code> is a property type for association roles to a vertical coordinate reference system, either referencing or containing the definition of that reference system.			
Diagram	<p><code>gml:VerticalCRSPROPERTYType</code> is a property type for association roles to a vertical coordinate reference system, either...</p> <p>gml:VerticalCRSPROPERTYType</p> <p>gml:VerticalCRS</p> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...</p> <p>gml:VerticalCRS is a 1D coordinate reference system used for recording heights or depths. Vertical CRSS make use of the...</p>			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:ProjectedCRSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractGeneralDerivedCRSType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

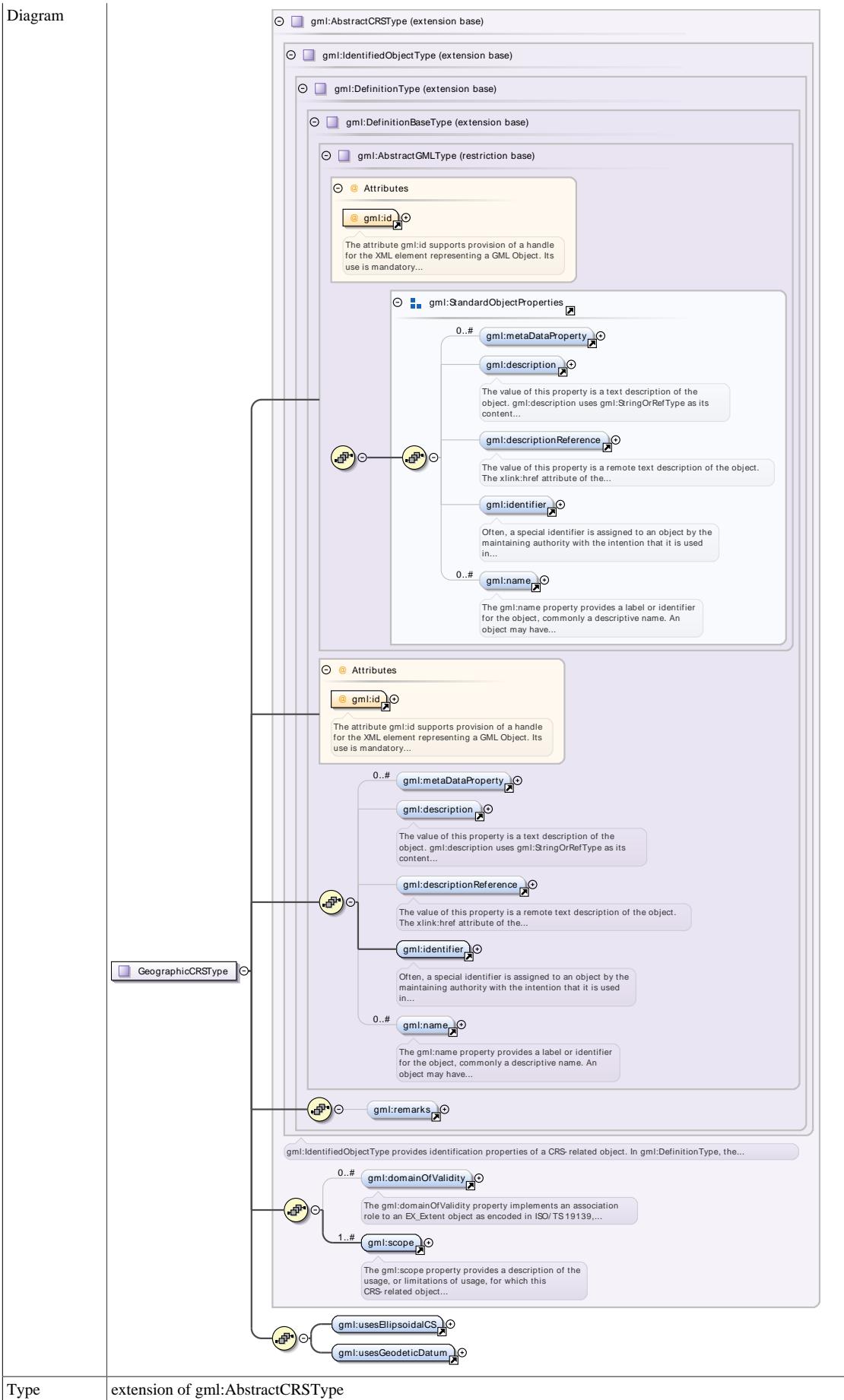
Complex Type `gml:GeographicCRSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2			
Diagram	<p>The diagram illustrates the structure of the <code>gml:GeographicCRSPROPERTYType</code>. It shows the type <code>GeographicCRSPROPERTYType</code> (represented by a purple rounded rectangle) with an association (indicated by a line with a diamond) to the attribute group <code>gml:GeographicCRS</code> (represented by a blue rounded rectangle). A callout box provides a detailed description of the <code>gml:AssociationAttributeGroup</code>, stating: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...".</p>			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:GeographicCRSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Attributes	QName	Type	Use	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

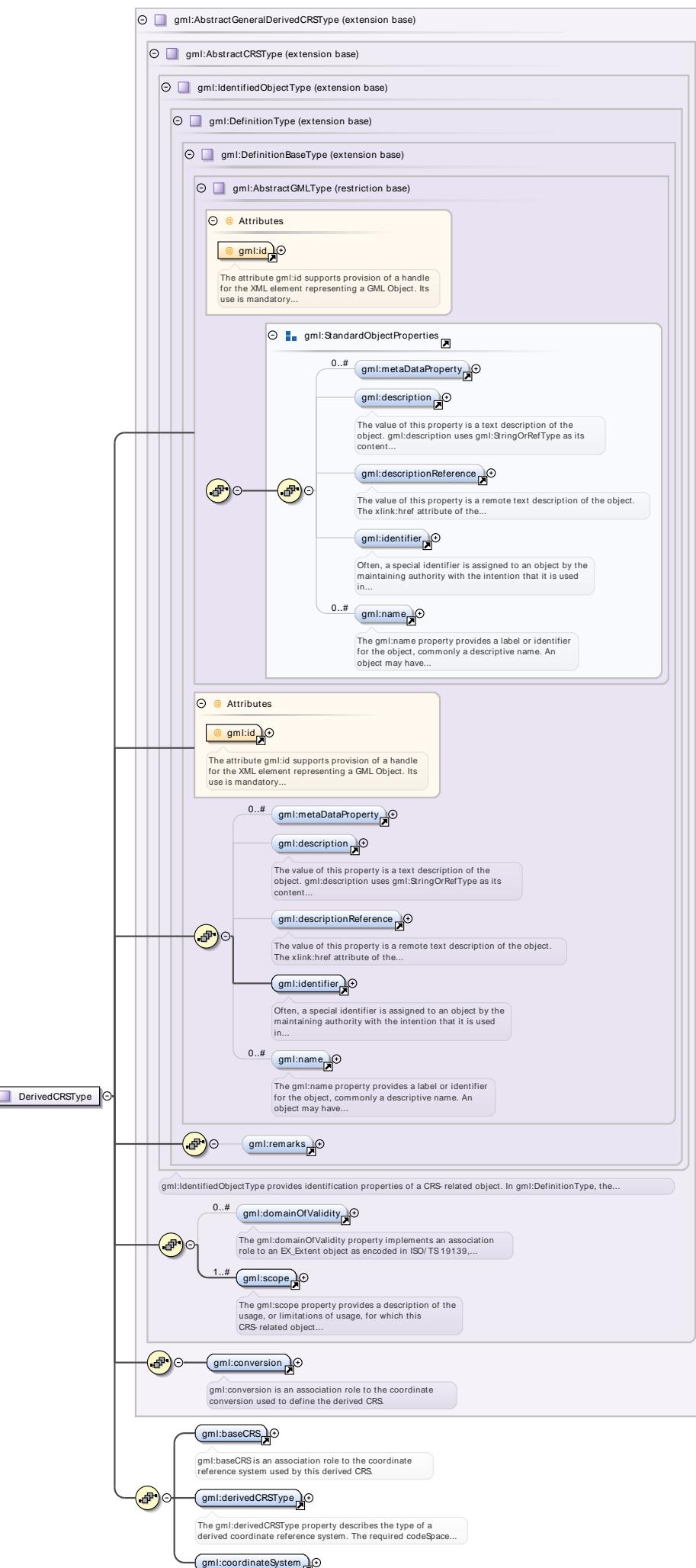
Complex Type **gml:ProjectedCRSPROPERTYType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:ProjectedCRSPROPERTYType is a property type for association roles to a projected coordinate reference system, either referencing or containing the definition of that reference system.			
Diagram				
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Complex Type **gml:DerivedCRSType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractGeneralDerivedCRSType</code>			
Attributes	QName <code>gml:id</code>	Type ID	Use required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Complex Type `gml:CoordinateSystemPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:CoordinateSystemPropertyType</code> is a property type for association roles to a coordinate system, either referencing or containing the definition of that coordinate system.			
Diagram	<p>The diagram illustrates the structure of <code>gml:CoordinateSystemPropertyType</code>. It is a complex type that inherits from <code>gml:AbstractCoordinateSystem</code> (indicated by a generalization arrow) and contains an <code>gml:AssociationAttributeGroup</code> (indicated by an aggregation arrow). The <code>gml:AssociationAttributeGroup</code> is described as supporting hypertext referencing in XML using XLink components. A tooltip for <code>gml:AbstractCoordinateSystem</code> states that it is a coordinate system (CS) defined by axes.</p>			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed 	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:DerivedCRSPROPERTYType`

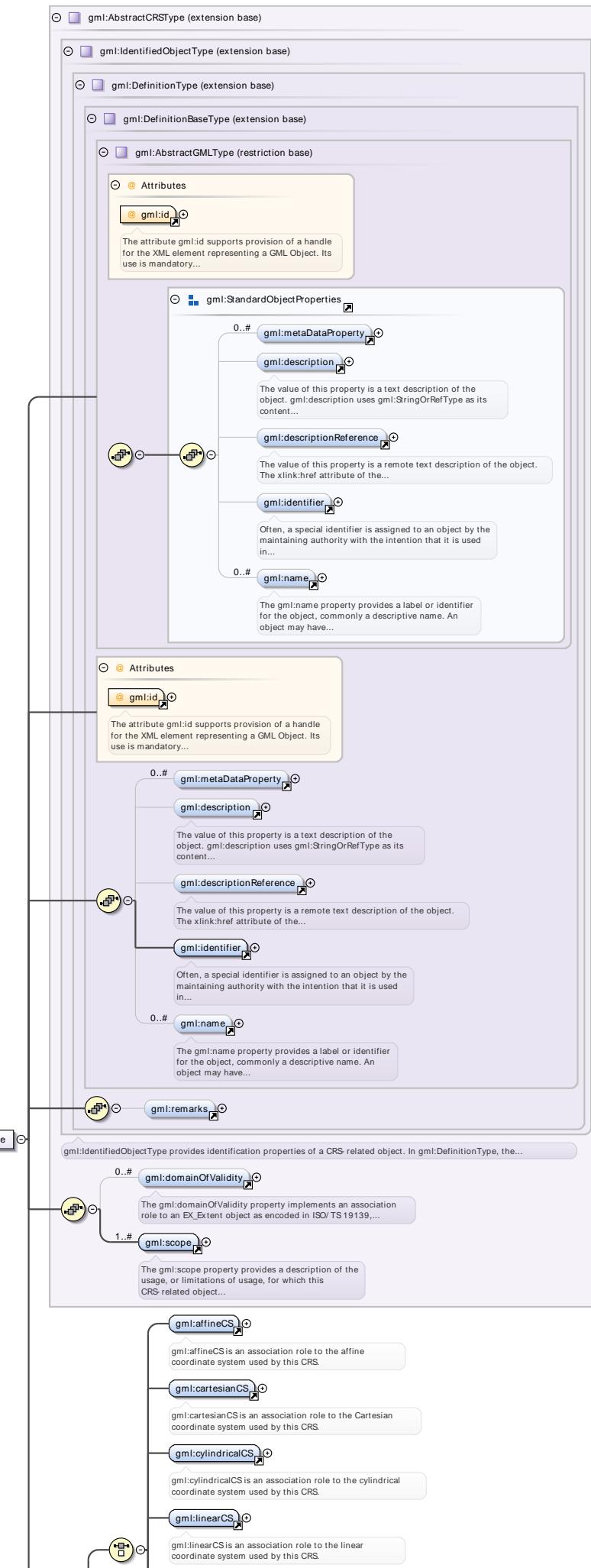
Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:DerivedCRSPROPERTYType</code> is a property type for association roles to a non-projected derived coordinate reference system, either referencing or containing the definition of that reference system.			
Diagram	<p>The diagram illustrates the structure of <code>gml:DerivedCRSPROPERTYType</code>. It is a complex type that inherits from <code>gml:DerivedCRS</code> (indicated by a generalization arrow) and contains an <code>gml:AssociationAttributeGroup</code> (indicated by an aggregation arrow). The <code>gml:AssociationAttributeGroup</code> is described as supporting hypertext referencing in XML using XLink components. A tooltip for <code>gml:DerivedCRS</code> states that it is a single coordinate reference system defined by coordinate conversion from another.</p>			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code>	Fixed 	Use optional optional optional optional optional

QName	Type	Fixed	Use	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Complex Type **gml:EngineeringCRSType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCRSType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

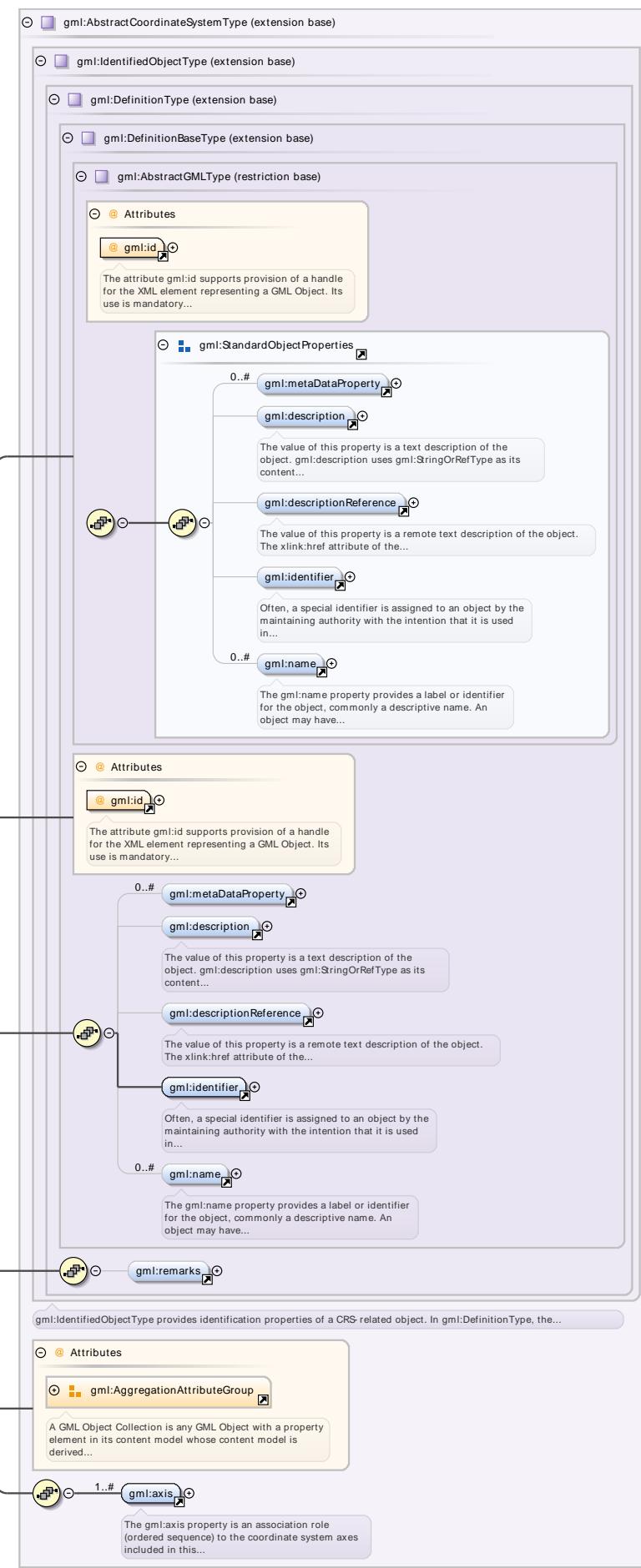
Complex Type `gml:AffineCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:AffineCSPropertyType</code> is a property type for association roles to an affine coordinate system, either referencing or containing the definition of that coordinate system.		
Diagram	<p>The diagram illustrates the structure of <code>gml:AffineCSPropertyType</code>. It is a complex type that inherits from <code>gml:AbstractCRSType</code> (indicated by a generalization arrow). It contains an <code>gml:AssociationAttributeGroup</code> (indicated by a composition arrow) and is associated with <code>gml:AffineCS</code> (indicated by a composition arrow). A callout box provides a detailed description of <code>gml:AffineCS</code> as a two- or three-dimensional coordinate system with straight axes that are not necessarily orthogonal. Another callout box describes <code>gml:AssociationAttributeGroup</code> as a standard method for hypertext referencing in XML.</p>		
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:AffineCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	<code>ID</code>	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code> , so is constrained to be unique in the XML document within which it occurs.		

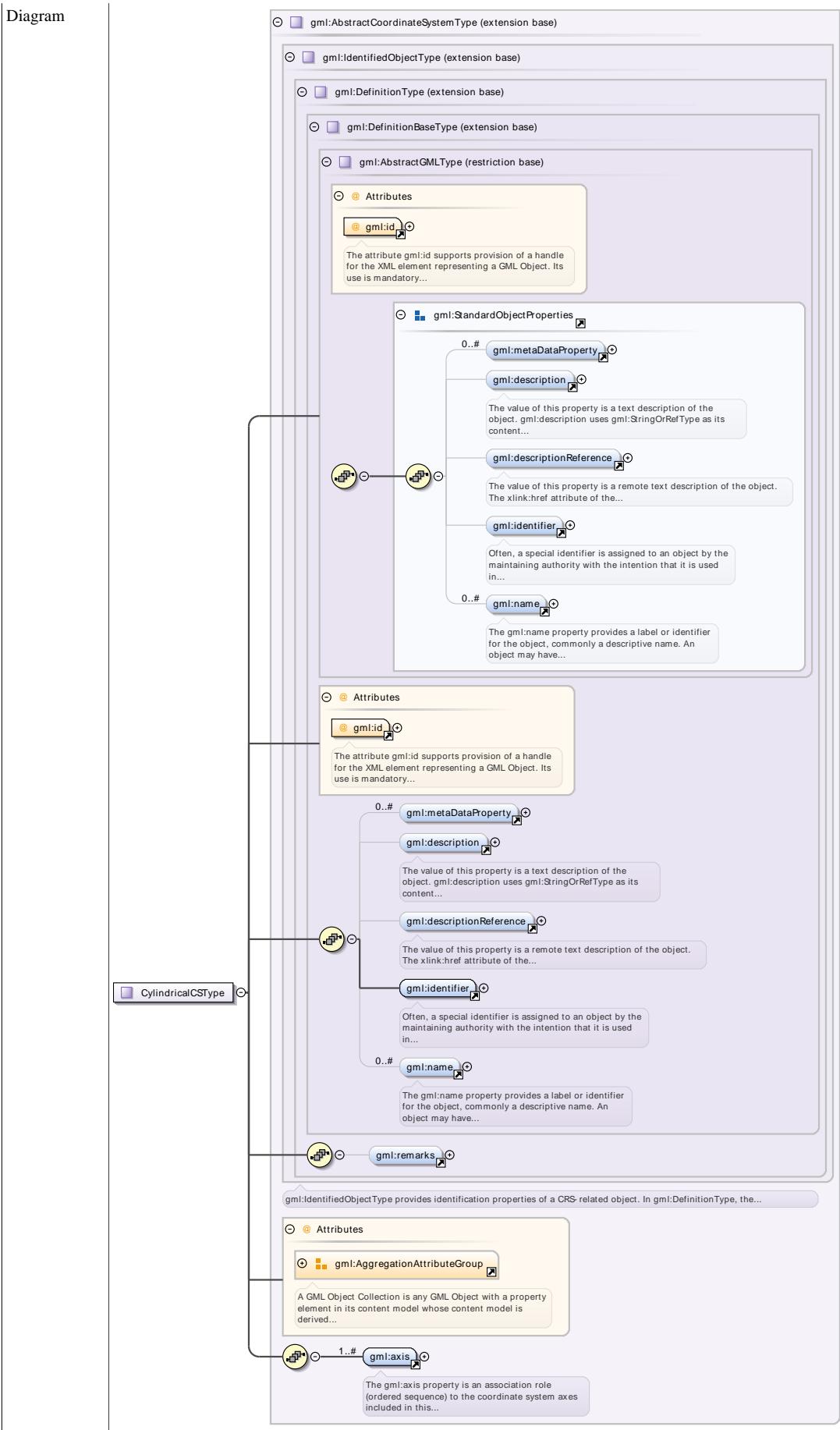
Complex Type `gml:CylindricalCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:CylindricalCSPropertyType</code> is a property type for association roles to a cylindrical coordinate system, either referencing or containing the definition of that coordinate system.		
Diagram	<p>The diagram illustrates the inheritance of <code>gml:CylindricalCSPropertyType</code> from <code>gml:AbstractCoordinateSystemType</code>. It shows a box for <code>gml:AbstractCoordinateSystemType</code> with a callout pointing to its description: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group....'. Another callout points to <code>gml:CylindricalCS</code> with the description: 'gml:CylindricalCS is a three- dimensional coordinate system consisting of a polar coordinate system extended by a...'. The <code>gml:CylindricalCSPropertyType</code> box is shown with a callout pointing to its description: 'gml:CylindricalCSPropertyType is a property type for association roles to a cylindrical coordinate system, either...'. The <code>gml:AssociationAttributeGroup</code> is highlighted in orange.</p>		
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	<code>anyURI</code>	
	<code>nilReason</code>	<code>gml:NilReasonType</code>	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	
	<code>xlink:href</code>	<code>xlink:hrefType</code>	
	<code>xlink:role</code>	<code>xlink:roleType</code>	
	<code>xlink:show</code>	<code>xlink:showType</code>	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple
			optional

Complex Type `gml:CylindricalCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

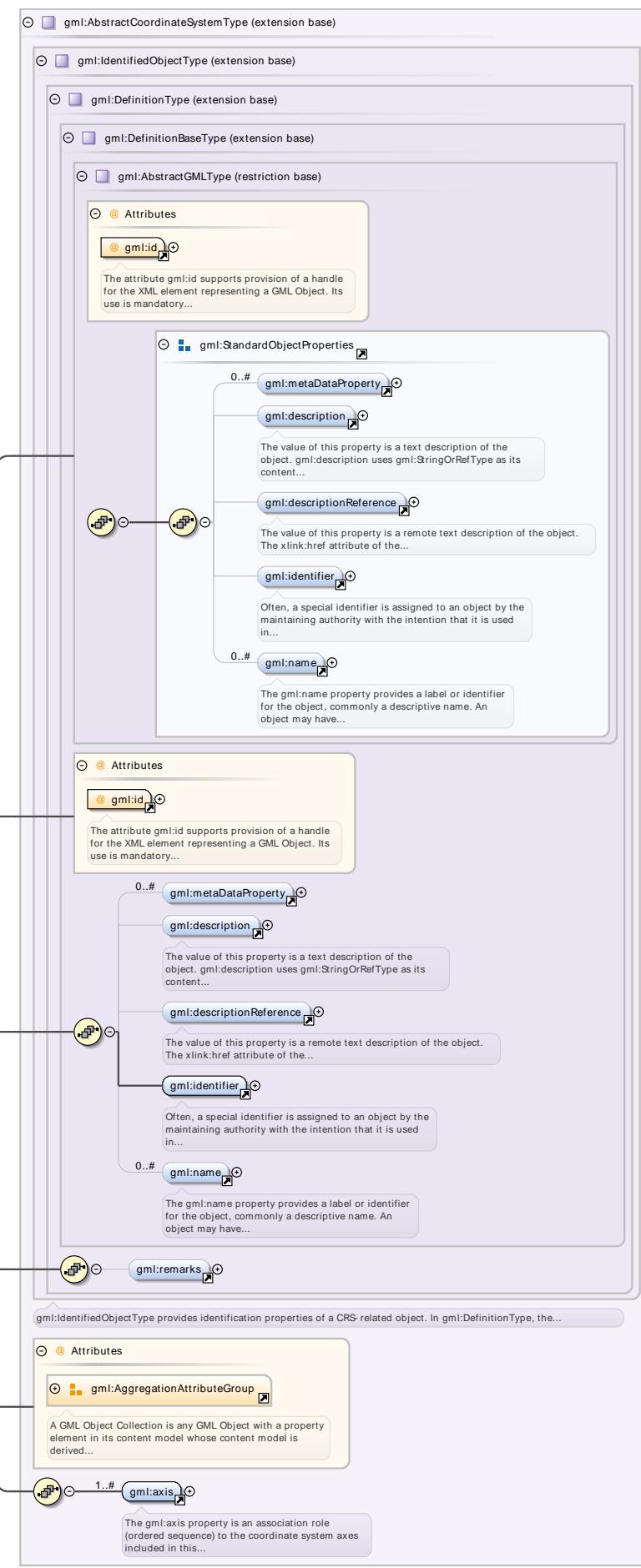
Complex Type `gml:LinearCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<code>gml:LinearCSPropertyType</code> is a property type for association roles to a linear coordinate system, either referencing or containing the definition of that coordinate system.				
Diagram	<p>The diagram illustrates the structure of the <code>gml:LinearCSPropertyType</code> complex type. It is a property type for association roles to a linear coordinate system. It contains an <code>gml:AssociationAttributeGroup</code> and a <code>gml:LinearCS</code> element. The <code>gml:AssociationAttributeGroup</code> is described as an XML Schema attribute group that supports hypertext referencing in XML. The <code>gml:LinearCS</code> element is described as a one-dimensional coordinate system consisting of points on a single axis.</p>				
Attributes	QName	Type	Fixed	Use	
	<code>gml:remoteSchema</code>	anyURI		optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>		optional	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>		optional	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>		optional	
	<code>xlink:href</code>	<code>xlink:hrefType</code>		optional	
	<code>xlink:role</code>	<code>xlink:roleType</code>		optional	
	<code>xlink:show</code>	<code>xlink:showType</code>		optional	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>		optional	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple	optional	

Complex Type `gml:LinearCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

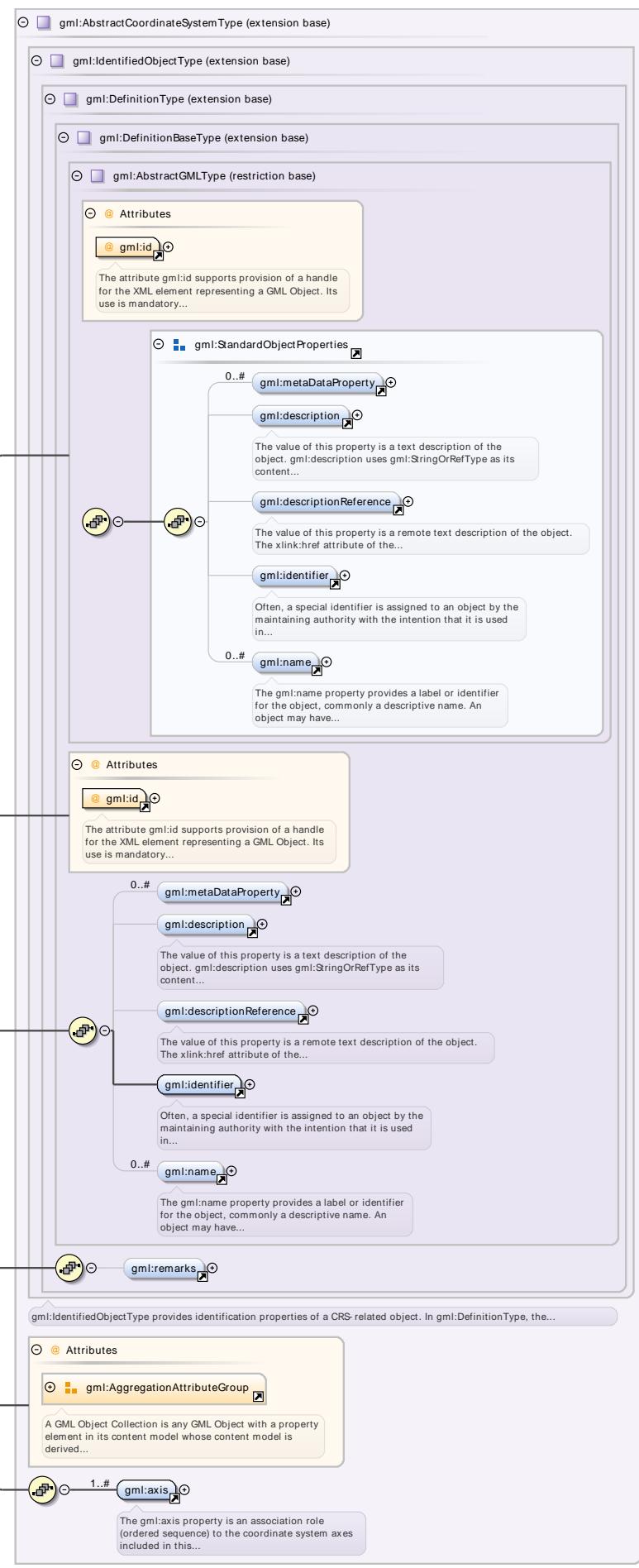
Complex Type `gml:PolarCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:PolarCSPropertyType</code> is a property type for association roles to a polar coordinate system, either referencing or containing the definition of that coordinate system.		
Diagram			
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	<code>anyURI</code>	
	<code>nilReason</code>	<code>gml:NilReasonType</code>	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	
	<code>xlink:href</code>	<code>xlink:hrefType</code>	
	<code>xlink:role</code>	<code>xlink:roleType</code>	
	<code>xlink:show</code>	<code>xlink:showType</code>	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple
			optional

Complex Type `gml:PolarCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

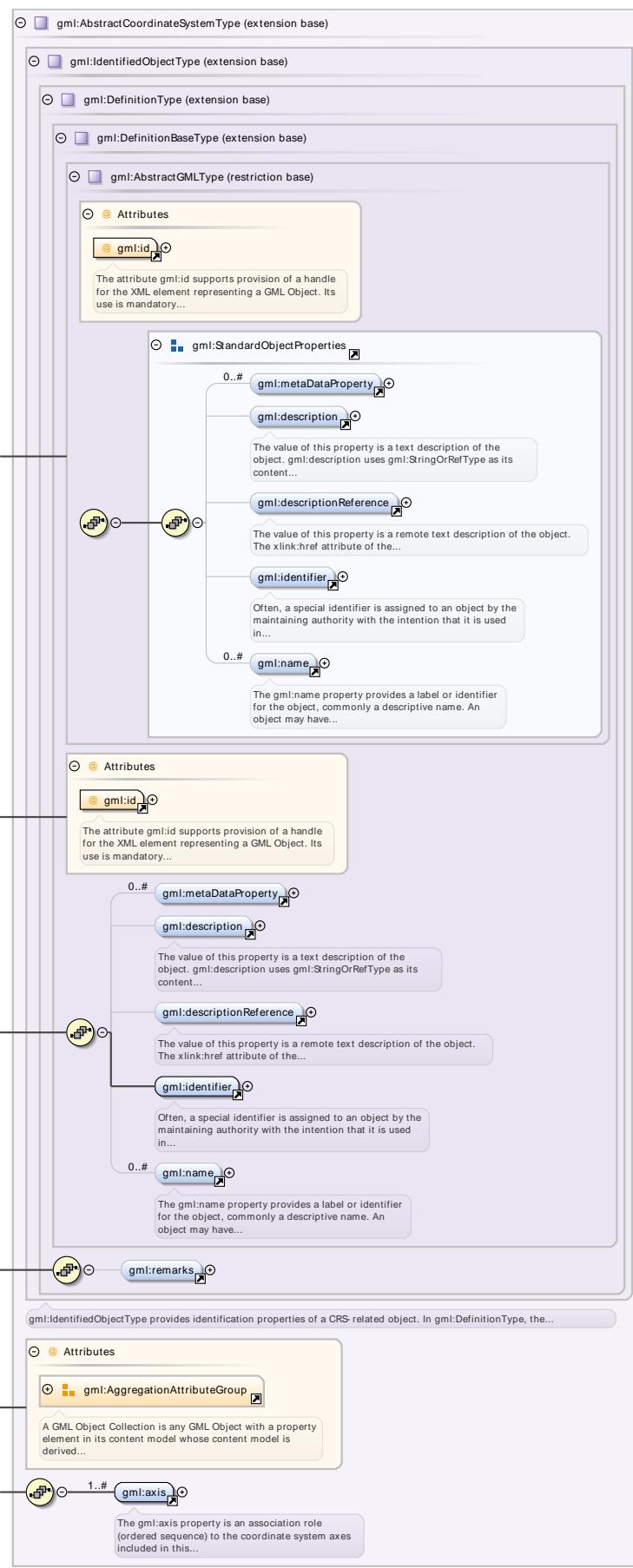
Complex Type `gml:UserDefinedCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:UserDefinedCSPropertyType</code> is a property type for association roles to a user-defined coordinate system, either referencing or containing the definition of that coordinate system.		
Diagram	<p>The diagram illustrates the structure of <code>gml:UserDefinedCSPropertyType</code>. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: A box labeled "Attributes" contains a "gml:AssociationAttributeGroup". A note states: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...". Elements: A box labeled "UserDefinedCSPropertyType" is connected to a "gml:UserDefinedCS" element. A note states: "gml:UserDefinedCS is a two- or three-dimensional coordinate system that consists of any combination of coordinate axes...". Annotations: A note below the "UserDefinedCSPropertyType" box states: "gml:UserDefinedCSPropertyType is a property type for association roles to a user-defined coordinate system, either...". 		
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	<code>anyURI</code>	
	<code>nilReason</code>	<code>gml:NilReasonType</code>	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	
	<code>xlink:href</code>	<code>xlink:hrefType</code>	
	<code>xlink:role</code>	<code>xlink:roleType</code>	
	<code>xlink:show</code>	<code>xlink:showType</code>	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple
			optional

Complex Type `gml:UserDefinedCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gml:AbstractCoordinateSystemType
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Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

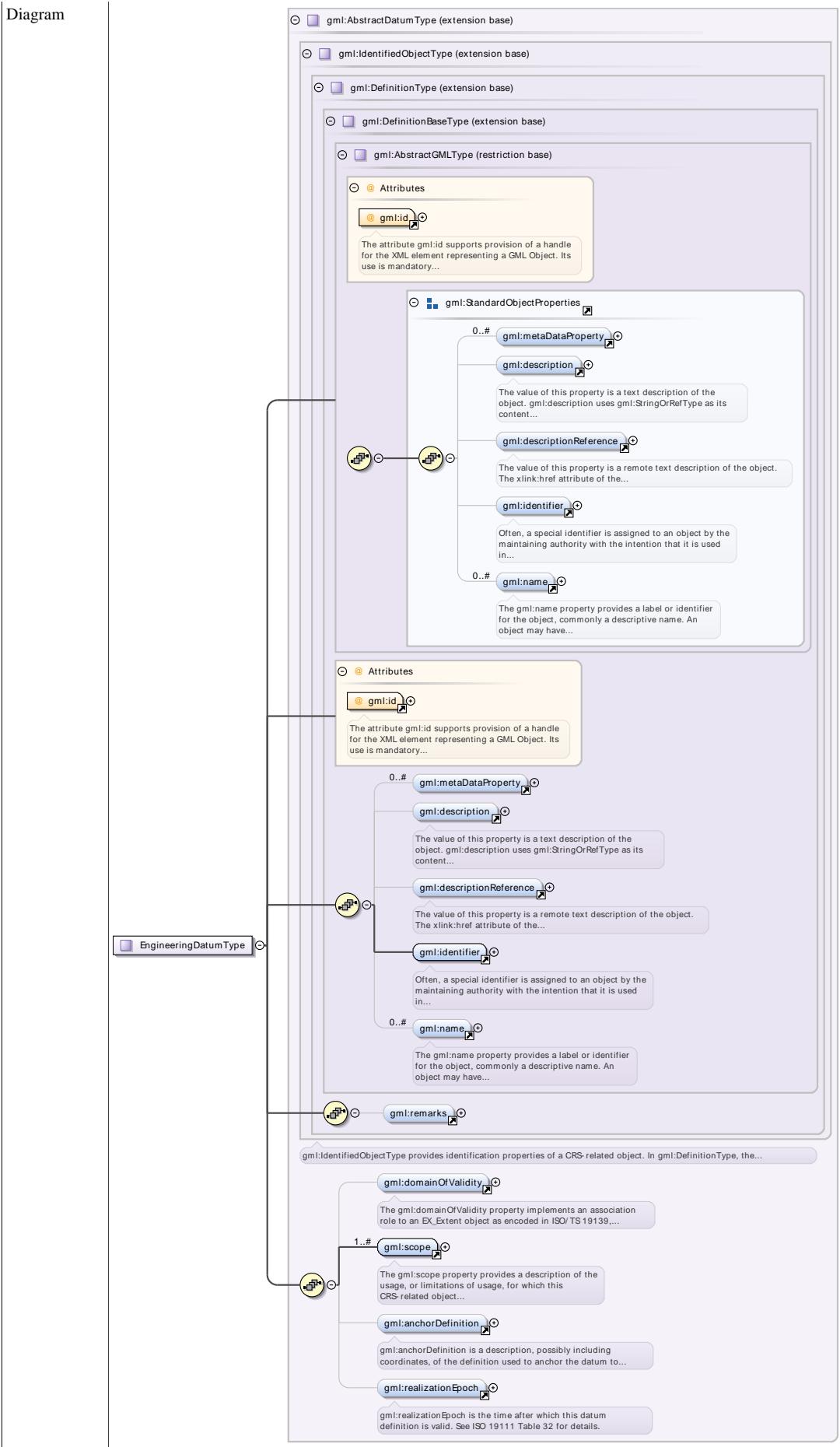
Complex Type **gml:EngineeringDatumPropertyType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:EngineeringDatumPropertyType is a property type for association roles to an engineering datum, either referencing or containing the definition of that datum.			
Diagram	<p>The diagram illustrates the structure of the gml:EngineeringDatumPropertyType complex type. It features a central box labeled 'EngineeringDatumPropertyType' with a circled 'O' icon. A callout box below it states: 'gml:EngineeringDatumPropertyType is a property type for association roles to an engineering datum, either referencing...'. A large bracket on the right side of the central box points to a box labeled 'Attributes' which contains a 'gml:AssociationAttributeGroup' box with a circled '+' icon. Another bracket points to a 'gml:EngineeringDatum' box with a circled '+' icon, which contains the text: 'gml:EngineeringDatum defines the origin of an engineering coordinate reference system, and is used in a region around...'. A callout box above the 'Attributes' box explains: 'XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...'.</p>			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Complex Type **gml:EngineeringDatumType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractDatumType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

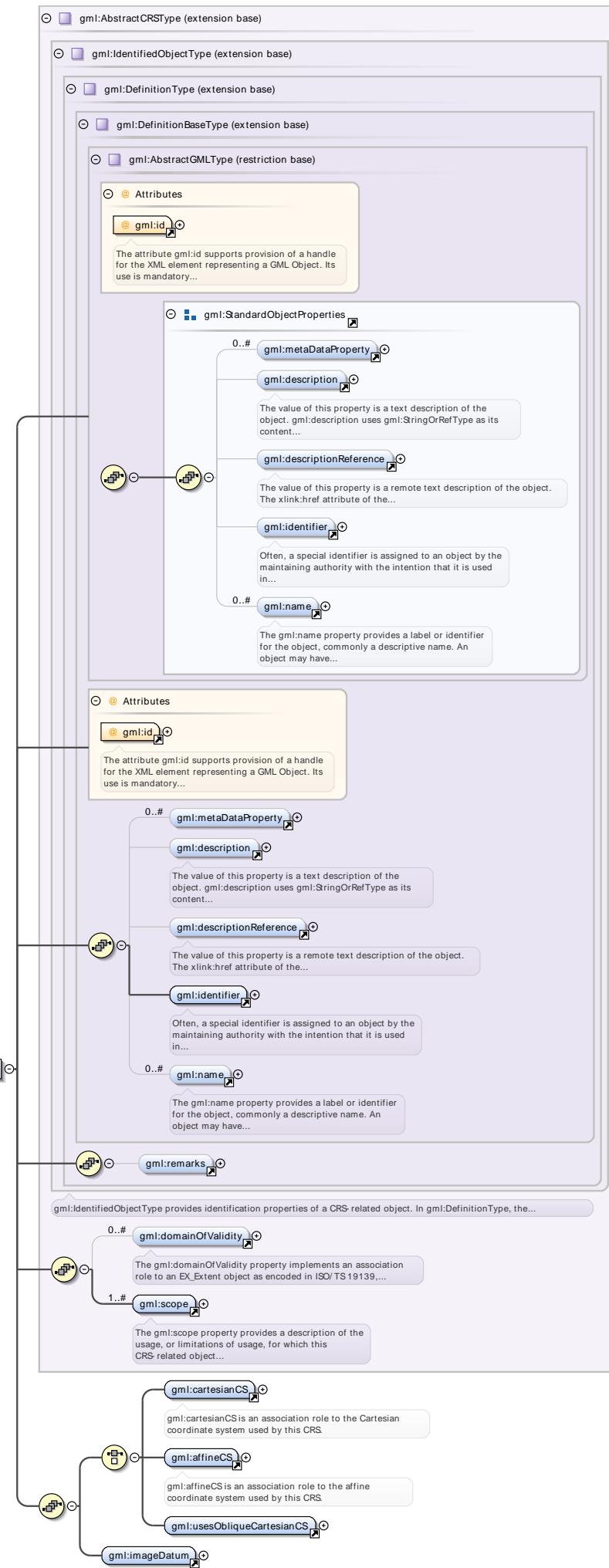
Complex Type `gml:EngineeringCRSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:EngineeringCRSPROPERTYType</code> is a property type for association roles to an engineering coordinate reference system, either referencing or containing the definition of that reference system.		
Diagram			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:ImageCRSType`

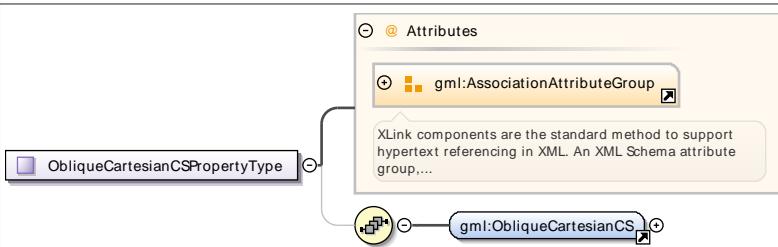
Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCRSType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

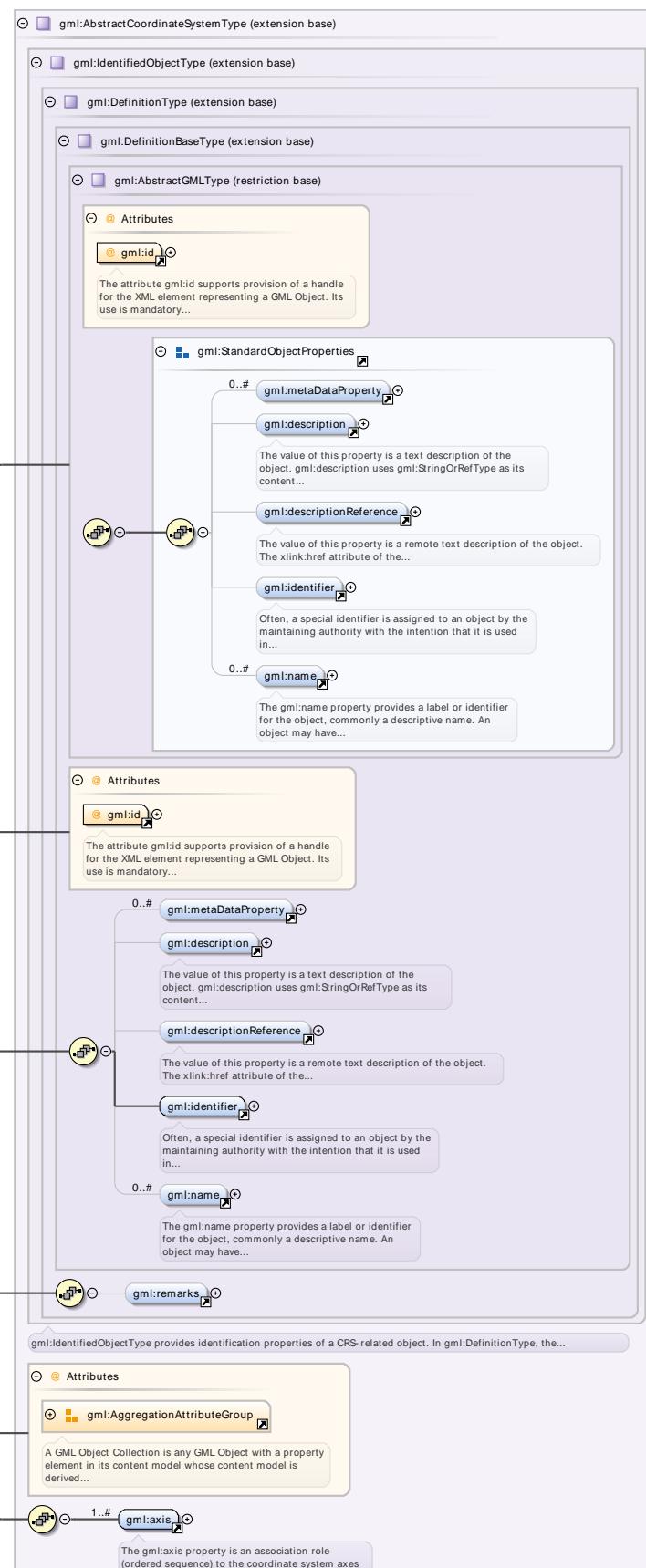
Complex Type `gml:ObliqueCartesianCSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2				
Diagram	 <pre> classDiagram class ObliqueCartesianCSPROPERTYType class gml { class AssociationAttributeGroup class ObliqueCartesianCS } ObliqueCartesianCSPROPERTYType "0..1" -- "1..1" gml:AssociationAttributeGroup gml:AssociationAttributeGroup "*" -- "1..1" gml:ObliqueCartesianCS note over gml:AssociationAttributeGroup: XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group... </pre>				
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed simple	Use optional optional optional optional optional optional optional optional optional	

Complex Type `gml:ObliqueCartesianCSType`

Namespace	http://www.opengis.net/gml/3.2
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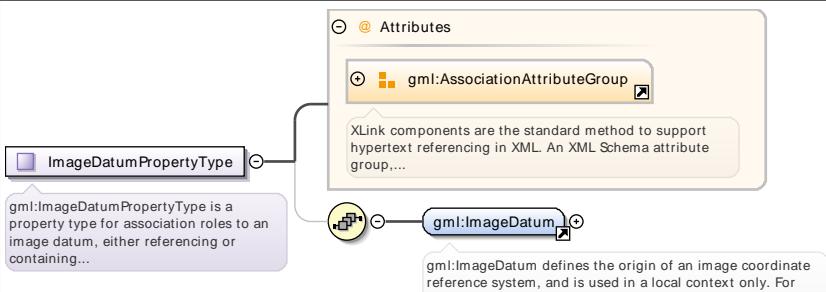
Diagram



Type	extension of gml:AbstractCoordinateSystemType
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Attributes	QName	Type	Use	
	aggregationType	gml:AggregationType	optional	
	gml:id	ID	required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

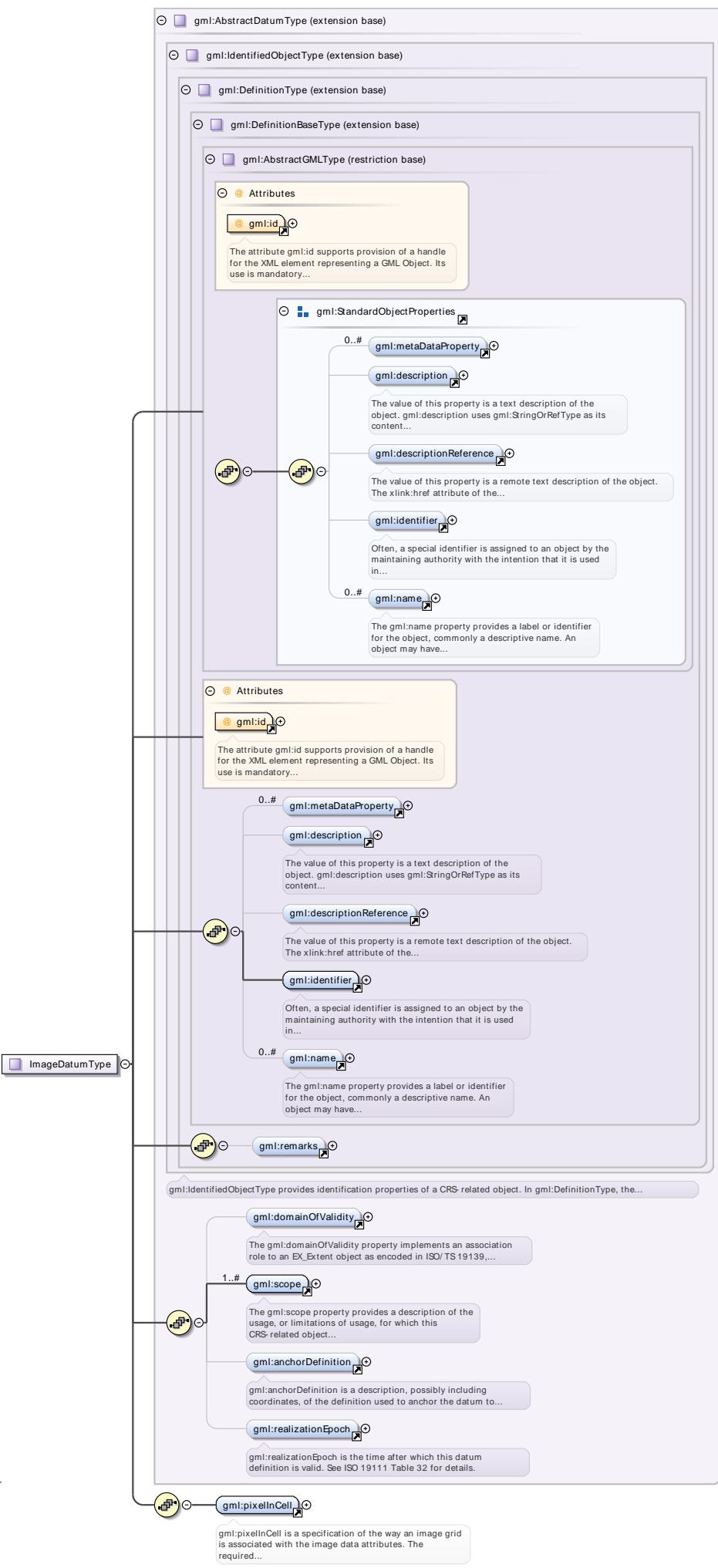
Complex Type **gml:ImageDatumPropertyType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:ImageDatumPropertyType is a property type for association roles to an image datum, either referencing or containing the definition of that datum.			
Diagram	 <p>gml:ImageDatumPropertyType is a property type for association roles to an image datum, either referencing or containing...</p> <p>gml:ImageDatum defines the origin of an image coordinate reference system, and is used in a local context only. For an...</p>			
Attributes				
QName	Type	Fixed	Use	
gml:remoteSchema	anyURI		optional	
nilReason	gml:NilReasonType		optional	
xlink:actuate	xlink:actuateType		optional	
xlink:arcrole	xlink:arcroleType		optional	
xlink:href	xlink:hrefType		optional	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Complex Type **gml:ImageDatumType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractDatumType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

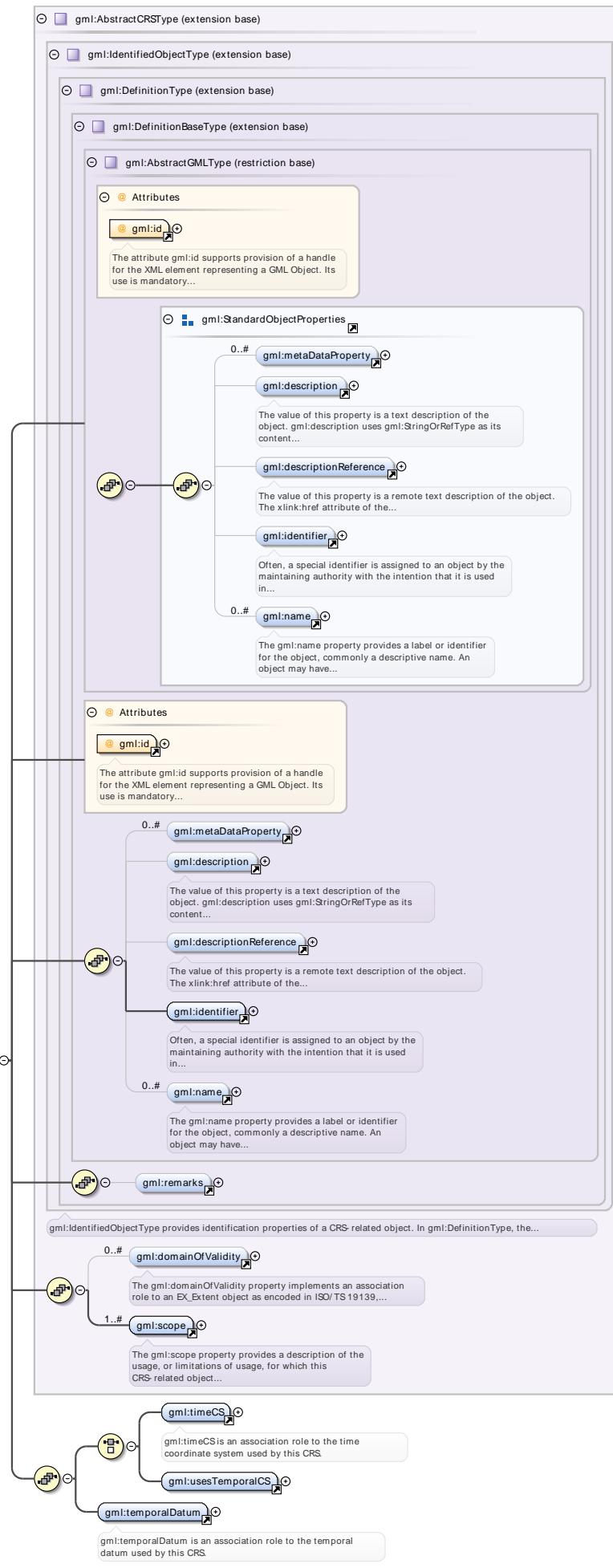
Complex Type `gml:ImageCRSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:ImageCRSPROPERTYType</code> is a property type for association roles to an image coordinate reference system, either referencing or containing the definition of that reference system.			
Diagram	<p>The diagram illustrates the structure of <code>gml:ImageCRSPROPERTYType</code>. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: A box labeled <code>gml:AssociationAttributeGroup</code> is shown, indicating that attributes are grouped together. Associations: A line connects <code>gml:ImageCRSPROPERTYType</code> to <code>gml:ImageCRS</code>, with a callout box explaining that <code>gml:ImageCRS</code> is an engineering coordinate reference system applied to locations in images. Annotations: A callout box provides a detailed description of the type: "gml:ImageCRSPROPERTYType is a property type for association roles to an image coordinate reference system, either referencing or containing the definition of that reference system." 			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:TemporalCRSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCRSType</code>			
Attributes	QName <code>gml:id</code>	Type ID	Use required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

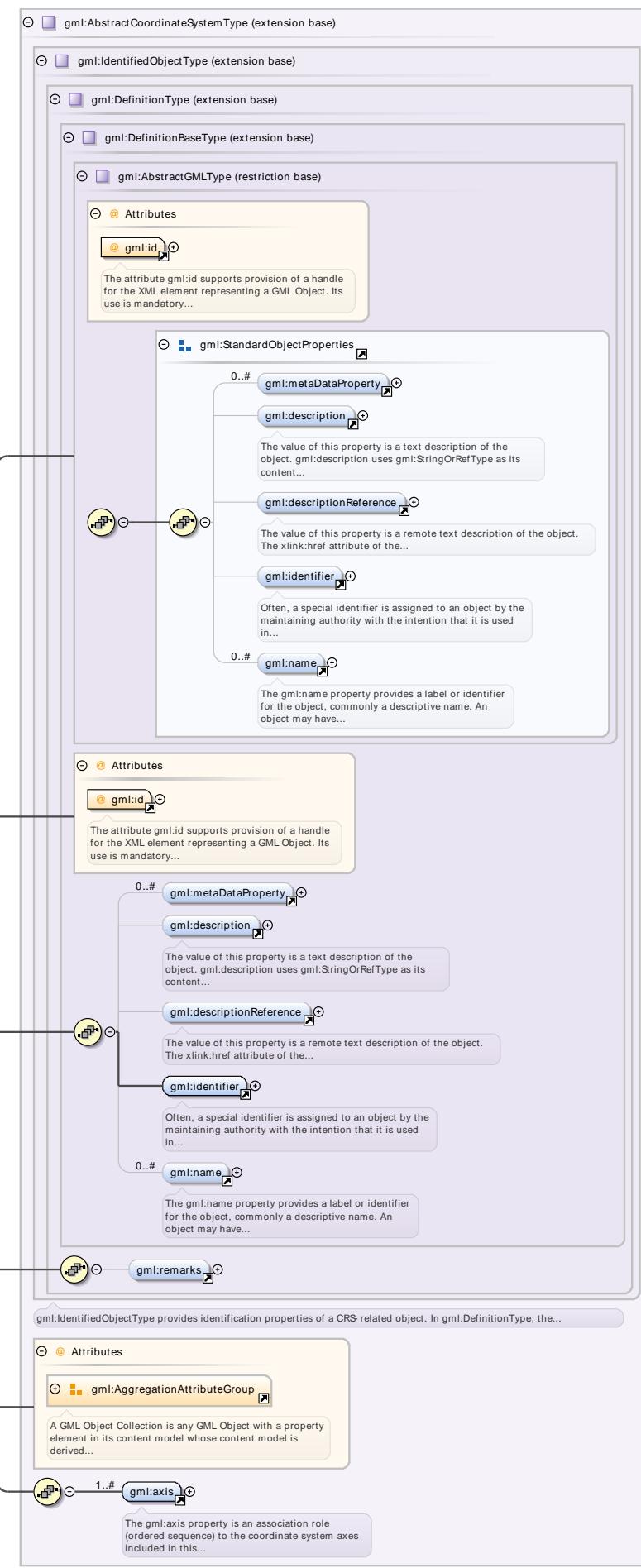
Complex Type `gml:TimeCSPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:TimeCSPropertyType</code> is a property type for association roles to a time coordinate system, either referencing or containing the definition of that coordinate system.			
Diagram	<p>The diagram illustrates the structure of <code>gml:TimeCSPropertyType</code>. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: A box labeled <code>gml:AssociationAttributeGroup</code> is shown, with a note explaining XLink components support hypertext referencing. Elements: A box labeled <code>gml:TimeCS</code> is shown, with a note explaining it is a one-dimensional coordinate system containing a time axis. Relationships: The type is associated with <code>gml:TimeCS</code>, and there is a note stating <code>gml:TimeCSPropertyType</code> is a property type for association roles to a time coordinate system. 			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed 	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:TimeCSType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>		
Attributes	QName	Type	Use
	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

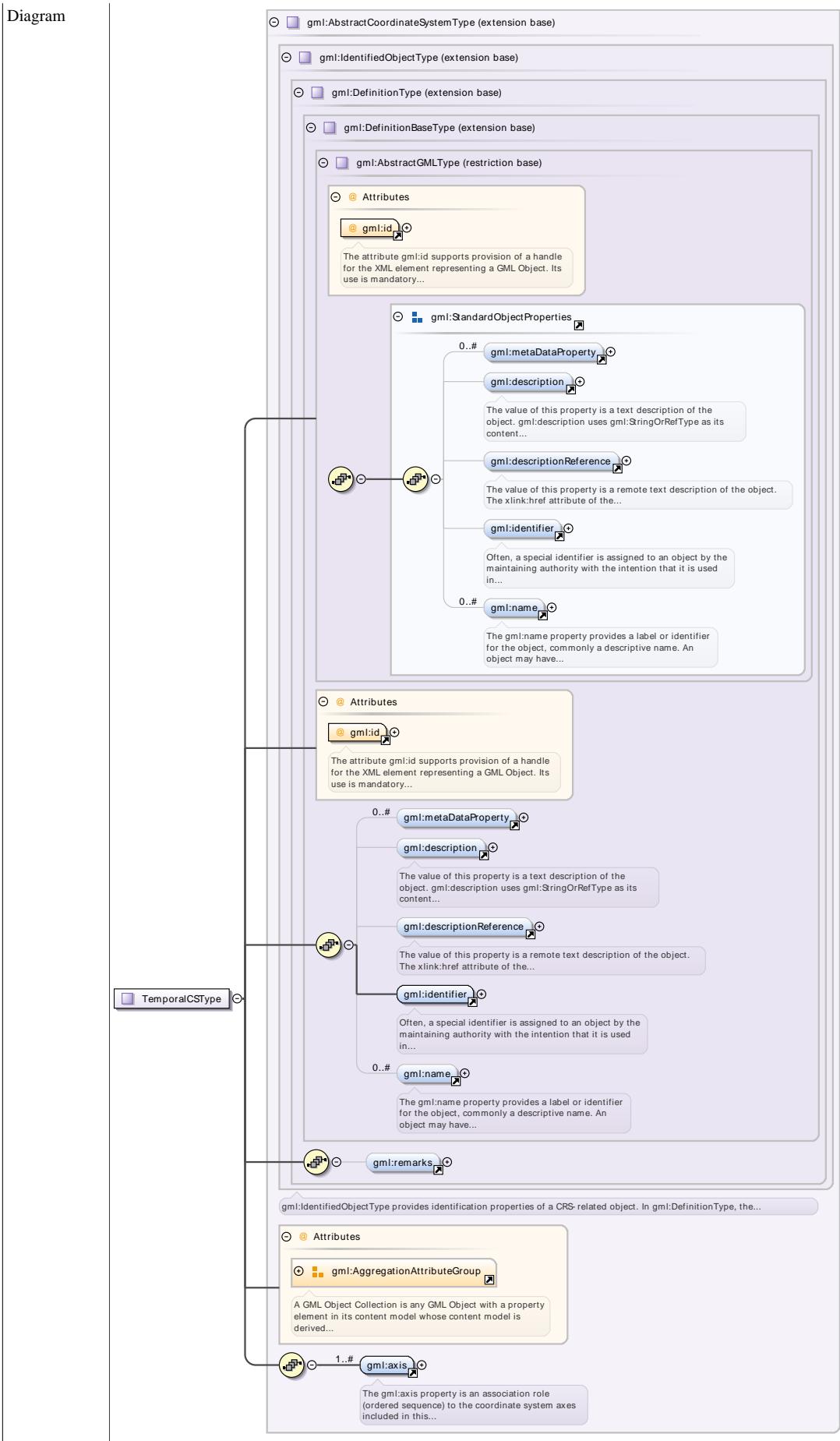
Complex Type `gml:TemporalCSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2		
Diagram	<p>The diagram shows the <code>TemporalCSPROPERTYType</code> element with an association attribute group. A callout box points to the <code>gml:AssociationAttributeGroup</code> element, explaining that XLink components are used for hypertext referencing.</p>		
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	anyURI	
	<code>nilReason</code>	<code>gml:NilReasonType</code>	
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	
	<code>xlink:href</code>	<code>xlink:hrefType</code>	
	<code>xlink:role</code>	<code>xlink:roleType</code>	
	<code>xlink:show</code>	<code>xlink:showType</code>	
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>	
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple
	Use		
	optional		

Complex Type `gml:TemporalCSType`

Namespace	http://www.opengis.net/gml/3.2		
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Diagram



Type	extension of <code>gml:AbstractCoordinateSystemType</code>			
Attributes	QName	Type	Use	
	aggregationType	<code>gml:AggregationType</code>	optional	
	gml:id	<code>ID</code>	required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type <code>ID</code> , so is constrained to be unique in the XML document within which it occurs.			

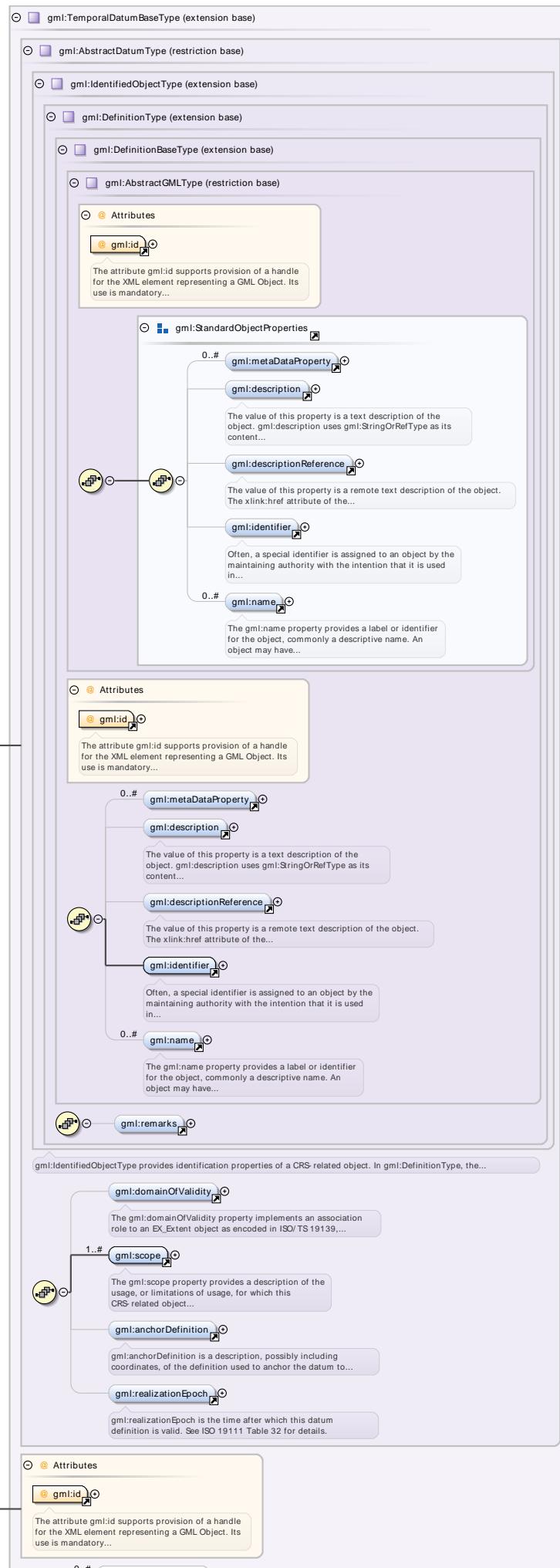
Complex Type `gml:TemporalDatumPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:TemporalDatumPropertyType</code> is a property type for association roles to a temporal datum, either referencing or containing the definition of that datum.			
Diagram	<pre> classDiagram class TemporalDatumPropertyType { <<gml:TemporalDatumPropertyType is a property type for association roles to a temporal datum, either referencing or...>> <<XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...>> <<A gml:TemporalDatum defines the origin of a Temporal Reference System. This type omits the "anchorDefinition" and...>> } class gml:TemporalDatum gml:TemporalDatum < -- TemporalDatumPropertyType class gml:AssociationAttributeGroup gml:AssociationAttributeGroup < -- TemporalDatumPropertyType </pre>			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	<code>anyURI</code>		optional
	nilReason	<code>gml:NilReasonType</code>		optional
	xlink:actuate	<code>xlink:actuateType</code>		optional
	xlink:arcrole	<code>xlink:arcroleType</code>		optional
	xlink:href	<code>xlink:hrefType</code>		optional
	xlink:role	<code>xlink:roleType</code>		optional
	xlink:show	<code>xlink:showType</code>		optional
	xlink:title	<code>xlink:titleAttrType</code>		optional
	xlink:type	<code>xlink:typeType</code>	simple	optional

Complex Type `gml:TemporalDatumType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram

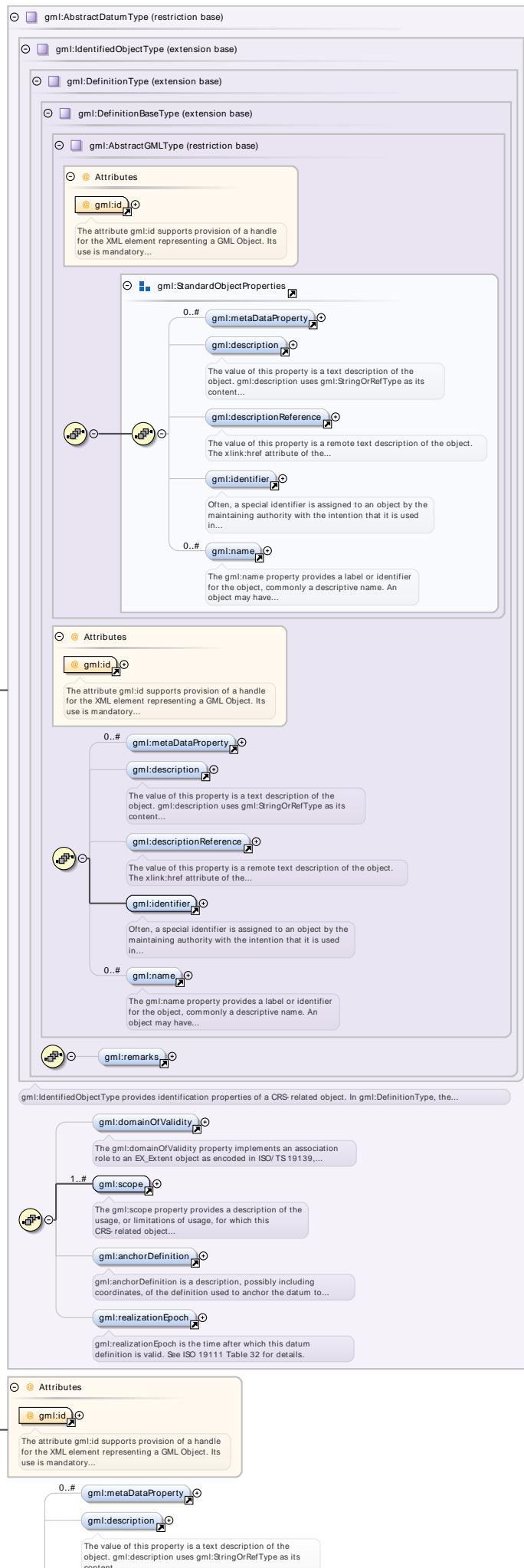


Type	extension of <code>gml:TemporalDatumBaseType</code>		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:TemporalDatumBaseType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The <code>TemporalDatumBaseType</code> partially defines the origin of a temporal coordinate reference system. This type restricts the <code>AbstractDatumType</code> to remove the "anchorDefinition" and "realizationEpoch" elements.

Diagram



Type	restriction of <code>gml:AbstractDatumType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

The attribute `gml:id` supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:TemporalCRSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:TemporalCRSPROPERTYType</code> is a property type for association roles to a temporal coordinate reference system, either referencing or containing the definition of that reference system.		
Diagram	<p>The diagram illustrates the structure of the <code>gml:TemporalCRSPROPERTYType</code> complex type. It is derived from <code>gml:AbstractCRSPROPERTYType</code> (indicated by a blue box with a circular arrow). It contains an <code>gml:AssociationAttributeGroup</code> (indicated by a yellow box with a plus sign). A callout box explains that XLink components are used for hypertext referencing. It also includes a reference to <code>gml:TemporalCRS</code> (indicated by a blue box with a circular arrow), which is described as a 1D coordinate reference system for time.</p>		
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	anyURI	optional
Attributes	<code>nilReason</code>	<code>gml:NilReasonType</code>	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>	optional
	<code>xlink:role</code>	<code>xlink:roleType</code>	optional
	<code>xlink:show</code>	<code>xlink:showType</code>	optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>	optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple
Attributes	Use		

Complex Type `gml:DatumPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:DatumPROPERTYType</code> is a property type for association roles to a datum, either referencing or containing the definition of that datum.		
Diagram	<p>The diagram illustrates the structure of the <code>gml:DatumPROPERTYType</code> complex type. It is derived from <code>gml:AbstractCRSPROPERTYType</code> (indicated by a blue box with a circular arrow). It contains an <code>gml:AssociationAttributeGroup</code> (indicated by a yellow box with a plus sign). A callout box explains that XLink components are used for hypertext referencing. It also includes a reference to <code>gml:AbstractDatum</code> (indicated by a blue box with a circular arrow), which is described as specifying the relationship of a coordinate system to the earth.</p>		
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	anyURI	optional
Attributes	<code>nilReason</code>	<code>gml:NilReasonType</code>	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>	optional
Attributes	Use		

QName	Type	Fixed	Use
xlink:href	xlink:hrefType		optional
xlink:role	xlink:roleType		optional
xlink:show	xlink:showType		optional
xlink:title	xlink:titleAttrType		optional
xlink:type	xlink:typeType	simple	optional

Complex Type **gml:CoordinateOperationPropertyType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:CoordinateOperationPropertyType is a property type for association roles to a coordinate operation, either referencing or containing the definition of that coordinate operation.			
Diagram	<p>The diagram illustrates the structure of the gml:CoordinateOperationPropertyType complex type. It is derived from gml:AbstractCoordinateOperation (indicated by a yellow circle with a plus sign) and contains attributes from the gml:AssociationAttributeGroup (indicated by a blue circle with a plus sign). A callout box provides a detailed description of the XLink components used for hypertext referencing.</p>			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Complex Type **gml:SingleOperationPropertyType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:SingleOperationPropertyType is a property type for association roles to a single operation, either referencing or containing the definition of that single operation.			
Diagram	<p>The diagram illustrates the structure of the gml:SingleOperationPropertyType complex type. It is derived from gml:AbstractSingleOperation (indicated by a yellow circle with a plus sign) and contains attributes from the gml:AssociationAttributeGroup (indicated by a blue circle with a plus sign). A callout box provides a detailed description of the XLink components used for hypertext referencing.</p>			
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional

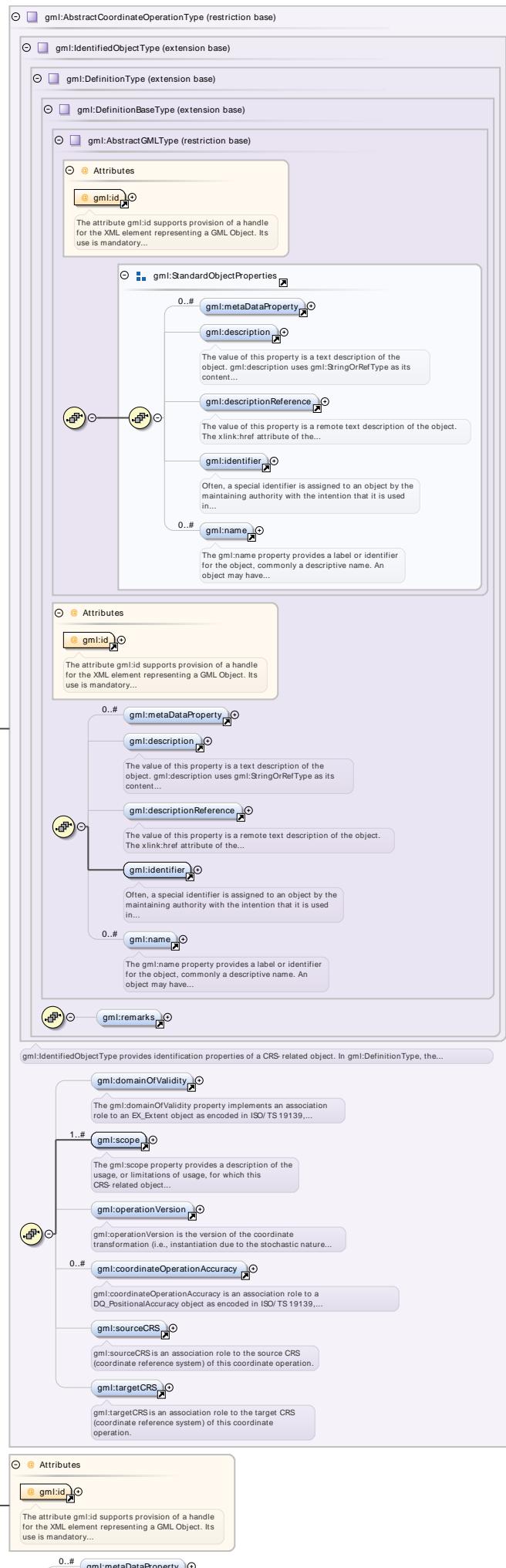
QName	Type	Fixed	Use	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Complex Type **gml:AbstractGeneralTransformationType**

Namespace	http://www.opengis.net/gml/3.2
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Schema documentation for
MisPlanSummedUpTrip.xsd

Diagram



Type	restriction of <code>gml:AbstractCoordinateOperationType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

The attribute `gml:id` supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:GeneralTransformationPropertyType`

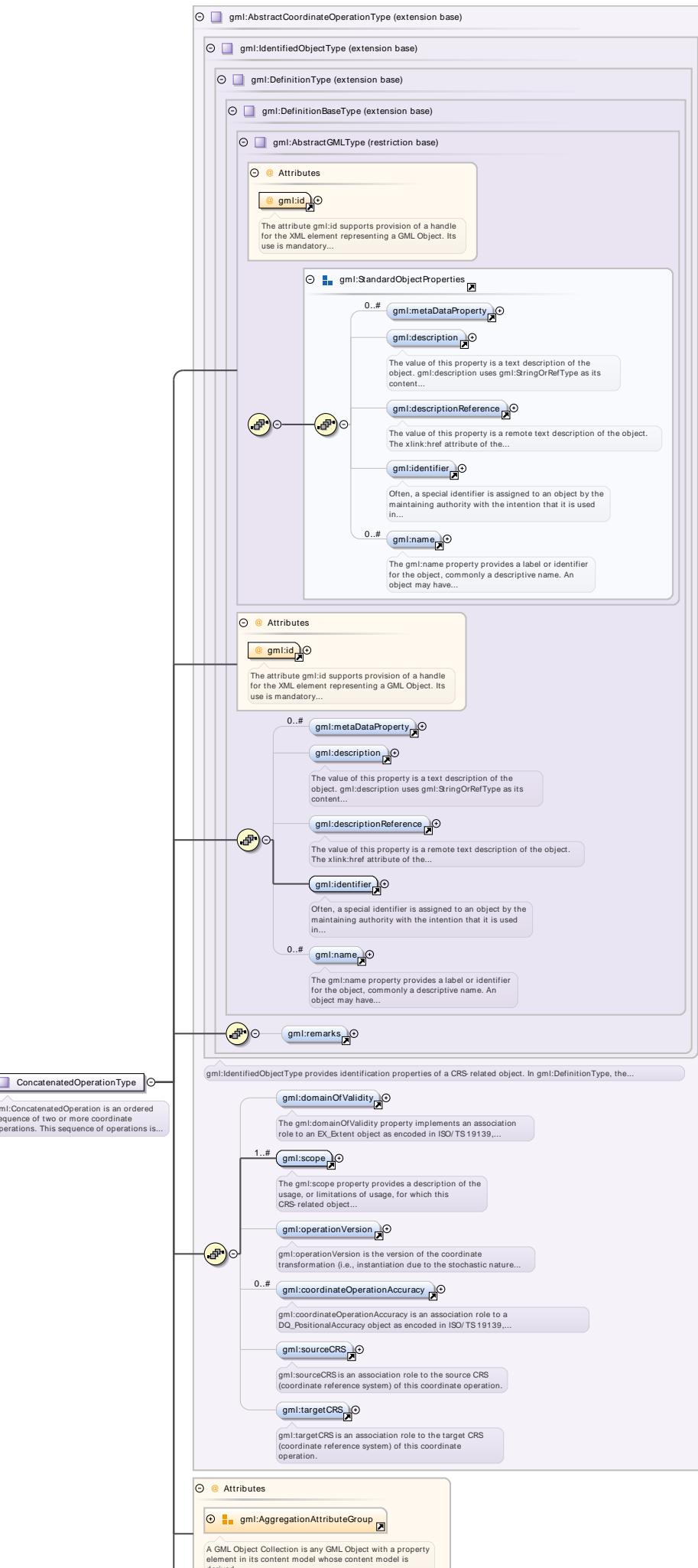
Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:GeneralTransformationPropertyType</code> is a property type for association roles to a general transformation, either referencing or containing the definition of that transformation.		
Diagram			
Attributes	QName	Type	Fixed
	<code>gml:remoteSchema</code>	anyURI	optional
	<code>nilReason</code>	<code>gml:NilReasonType</code>	optional
	<code>xlink:actuate</code>	<code>xlink:actuateType</code>	optional
	<code>xlink:arcrole</code>	<code>xlink:arcroleType</code>	optional
	<code>xlink:href</code>	<code>xlink:hrefType</code>	optional
	<code>xlink:role</code>	<code>xlink:roleType</code>	optional
	<code>xlink:show</code>	<code>xlink:showType</code>	optional
	<code>xlink:title</code>	<code>xlink:titleAttrType</code>	optional
	<code>xlink:type</code>	<code>xlink:typeType</code>	simple
			optional

Complex Type `gml:ConcatenatedOperationType`

Namespace	http://www.opengis.net/gml/3.2		
Annotations	<code>gml:ConcatenatedOperation</code> is an ordered sequence of two or more coordinate operations. This sequence of operations is constrained by the requirement that the source coordinate reference system of step (n+1) must be the same as the target coordinate reference system of step (n). The source coordinate reference system of the first step and the target coordinate reference system of the last step are the source and target coordinate reference system associated with the concatenated operation. Instead of a forward operation, an inverse operation may be used for one or more of the operation steps mentioned above, if the inverse operation is uniquely defined by the forward operation. The <code>gml:coordOperation</code> property elements are an ordered sequence of associations to the two or more operations used by this concatenated operation. The <code>AggregationAttributeGroup</code> should be used to specify that the <code>coordOperation</code> associations are ordered.		

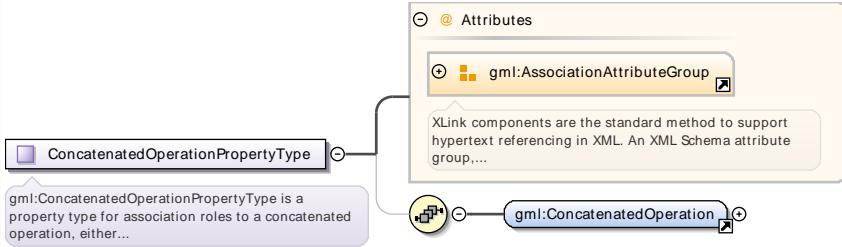
Schema documentation for
MisPlanSummedUpTrip.xsd

Diagram



Type	extension of <code>gml:AbstractCoordinateOperationType</code>			
Attributes	QName	Type	Use	
	aggregationType	<code>gml:AggregationType</code>	optional	
	gml:id	ID	required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

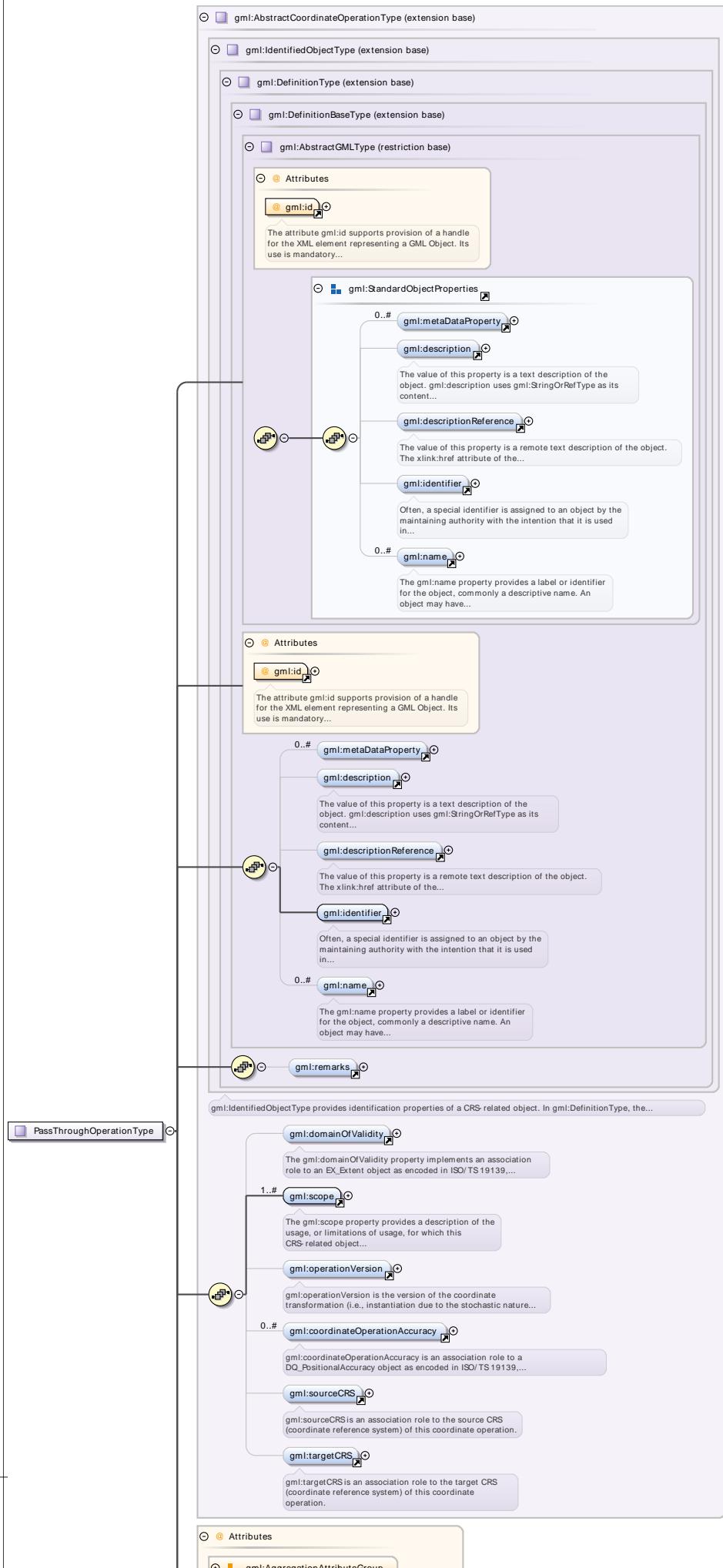
Complex Type `gml:ConcatenatedOperationPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:ConcatenatedOperationPropertyType is a property type for association roles to a concatenated operation, either referencing or containing the definition of that concatenated operation.				
Diagram	 <p>gml:ConcatenatedOperationPropertyType is a property type for association roles to a concatenated operation, either...</p>				
Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	<code>gml:NilReasonType</code>		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Complex Type `gml:PassThroughOperationType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCoordinateOperationType</code>			
Attributes	QName	Type	Use	
	aggregationType	<code>gml:AggregationType</code>	optional	
	gml:id	ID	required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

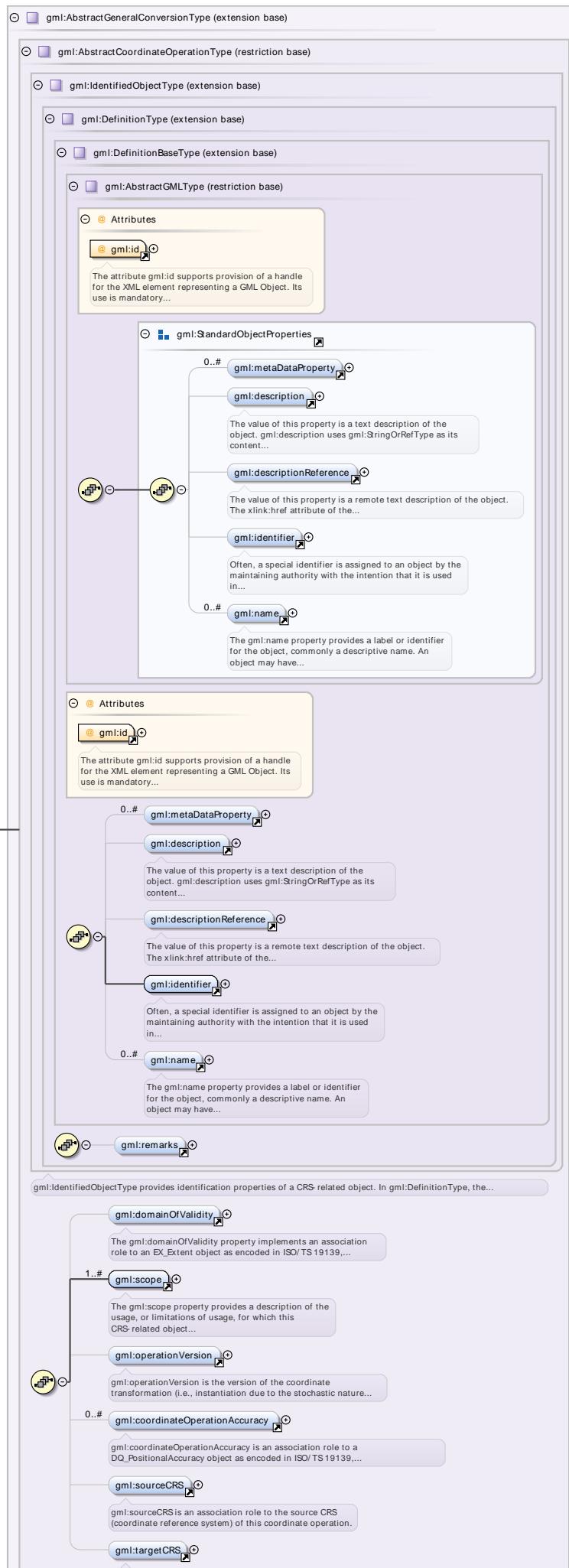
Complex Type `gml:PassThroughOperationPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<code>gml:PassThroughOperationPropertyType</code> is a property type for association roles to a pass through operation, either referencing or containing the definition of that pass through operation.				
Diagram	<p>The diagram illustrates the relationship between <code>PassThroughOperationPropertyType</code> and <code>gml:PassThroughOperation</code>. <code>PassThroughOperationPropertyType</code> is a property type for association roles to a pass through operation, either referencing or containing the definition of that pass through operation. It is associated with <code>gml:PassThroughOperation</code> via an <code>xlink:role</code> attribute. <code>gml:PassThroughOperation</code> is a pass-through operation specifies that a subset of a coordinate tuple is subject to a...</p>				
Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	<code>gml:NilReasonType</code>		optional	
	xlink:actuate	<code>xlink:actuateType</code>		optional	
	xlink:arcrole	<code>xlink:arcroleType</code>		optional	
	xlink:href	<code>xlink:hrefType</code>		optional	
	xlink:role	<code>xlink:roleType</code>		optional	
	xlink:show	<code>xlink:showType</code>		optional	
	xlink:title	<code>xlink:titleAttrType</code>		optional	
	xlink:type	<code>xlink:typeType</code>	simple	optional	

Complex Type `gml:ConversionType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractGeneralConversionType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

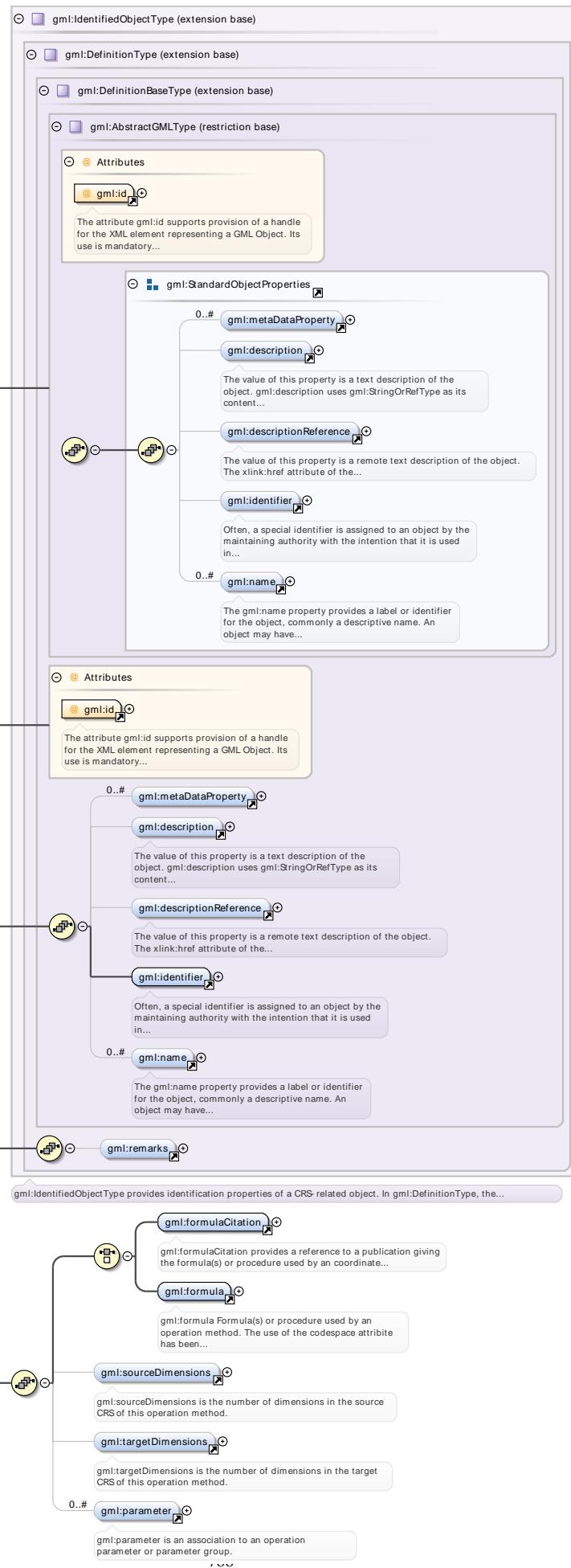
Complex Type `gml:OperationMethodPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:OperationMethodPropertyType</code> is a property type for association roles to a concrete general-purpose operation method, either referencing or containing the definition of that method.			
Diagram	<p>The diagram illustrates the structure of <code>gml:OperationMethodPropertyType</code>. It is a complex type with the following components:</p> <ul style="list-style-type: none"> Attributes: <code>gml:AssociationAttributeGroup</code> is highlighted with a yellow box and a callout pointing to it. A note states: "XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group,...". Relationships: A line connects <code>gml:OperationMethodPropertyType</code> to <code>gml:OperationMethod</code>, which is also highlighted with a yellow box and a callout. The note for <code>gml:OperationMethod</code> states: "gml:OperationMethod is a method (algorithm or procedure) used to perform a coordinate operation. Most operation methods...". 			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional optional

Complex Type `gml:OperationMethodType`

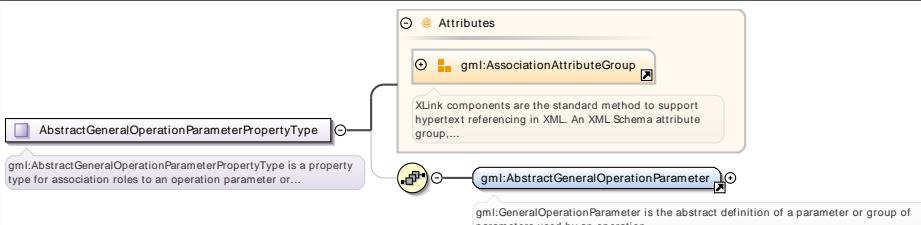
Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:IdentifiedObjectType</code>			
Attributes	QName <code>gml:id</code>	Type ID	Use required	
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

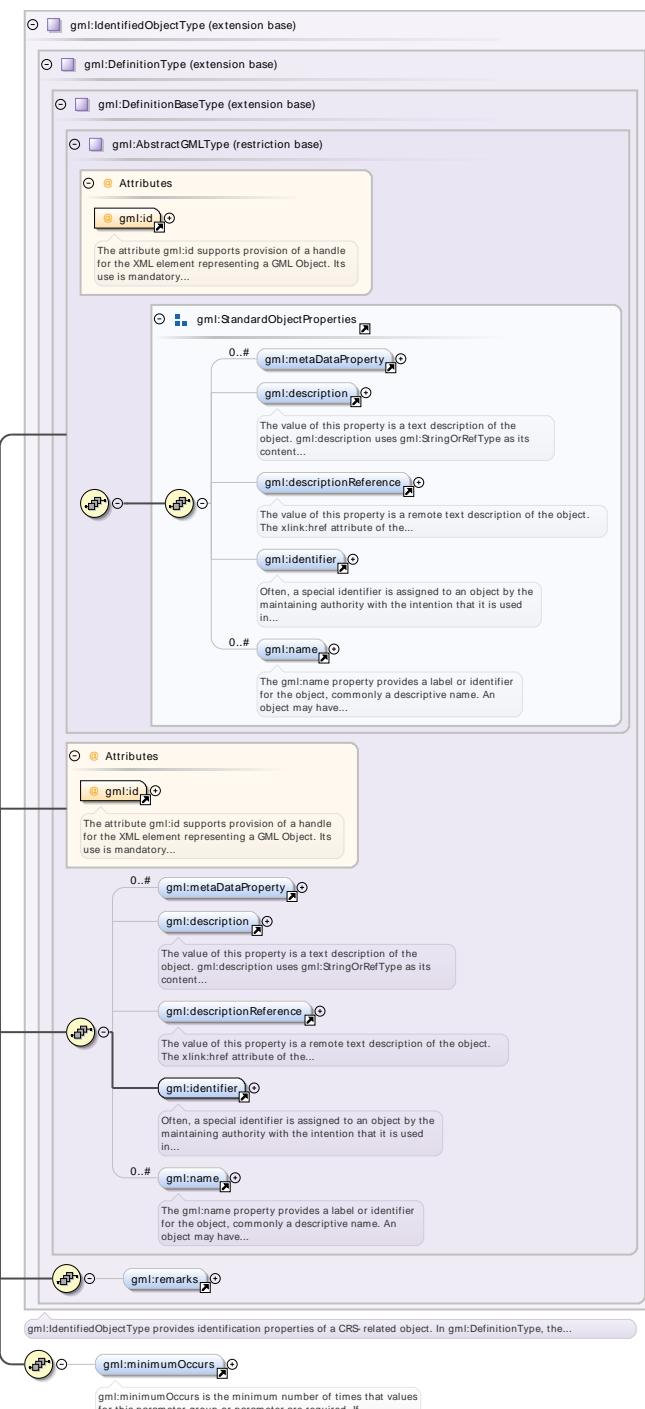
Complex Type `gml:AbstractGeneralOperationParameterPropertyType`

Namespace	http://www.opengis.net/gml/3.2				
Annotations	<code>gml:AbstractGeneralOperationParameterPropertyType</code> is a property type for association roles to an operation parameter or group, either referencing or containing the definition of that parameter or group.				
Diagram	 <p><code>gml:AbstractGeneralOperationParameterPropertyType</code> is a property type for association roles to an operation parameter or group, either referencing or containing the definition of that parameter or group.</p> <p><code>gml:AbstractGeneralOperationParameterPropertyType</code> is a property type for association roles to an operation parameter or group, either referencing or containing the definition of that parameter or group.</p> <p><code>gml:AbstractGeneralOperationParameter</code> is the abstract definition of a parameter or group of parameters used by an operation...</p>				
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed 	Use optional optional optional optional optional optional optional optional optional optional	

Complex Type `gml:AbstractGeneralOperationParameterType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:IdentifiedObjectType</code>														
Properties	abstract: true														
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> <td></td> </tr> <tr> <td></td> <td colspan="3" rowspan="2">The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use		<code>gml:id</code>	ID	required			The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.				
QName	Type	Use													
<code>gml:id</code>	ID	required													
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.														
Complex Type <code>gml:AbstractGeneralParameterValuePropertyType</code>															

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:AbstractGeneralParameterValuePropertyType</code> is a property type for inline association roles to a parameter value or group of parameter values, always containing the values.



Complex Type **gml:AbstractGeneralParameterValueType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Properties	abstract: true

Complex Type **gml:Conversion.PropertyType**

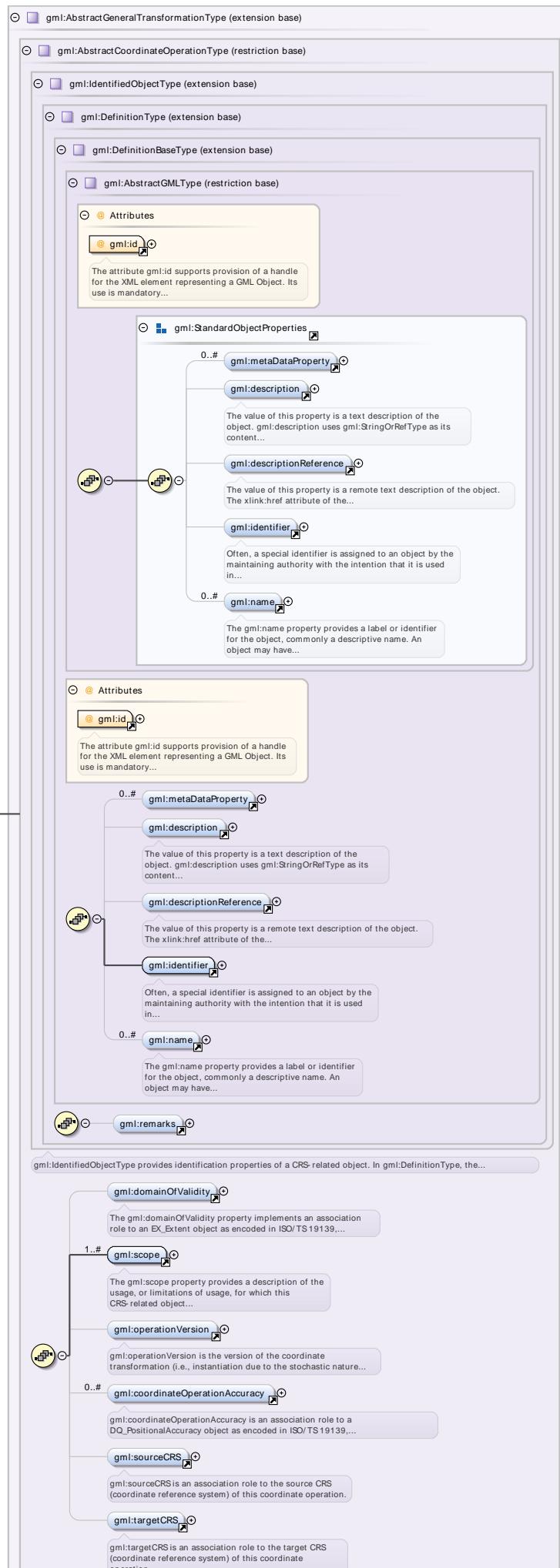
Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:Conversion.PropertyType is a property type for association roles to a concrete general-purpose conversion, either referencing or containing the definition of that conversion.				
Diagram					
Attributes	QName	Type	Fixed	Use	
	gml:remoteSchema	anyURI		optional	
	nilReason	gml:NilReasonType		optional	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Complex Type **gml:TransformationType**

Namespace	http://www.opengis.net/gml/3.2
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Schema documentation for
MisPlanSummedUpTrip.xsd

Diagram



Type	extension of <code>gml:AbstractGeneralTransformationType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:TransformationPropertyType`

Namespace	http://www.opengis.net/gml/3.2			
Annotations	<code>gml:TransformationPropertyType</code> is a property type for association roles to a transformation, either referencing or containing the definition of that transformation.			
Diagram	<p>The diagram illustrates the structure of the <code>gml:TransformationPropertyType</code>. It is a complex type that extends <code>gml:AbstractGeneralTransformationType</code>. It contains an <code>gml:AssociationAttributeGroup</code> and is associated with <code>gml:Transformation</code>. A callout box provides a detailed description of the <code>gml:AssociationAttributeGroup</code>, stating that XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...</p> <p>gml:Transformation is a concrete object element derived from <code>gml:GeneralTransformation</code> (13.6.2.13). This concrete...</p>			
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional

Complex Type `gml:ParameterValueType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram	<pre> classDiagram gml:AbstractGeneralParameterValueType < -- gml:value gml:AbstractGeneralParameterValueType < -- gml:dmsAngleValue gml:AbstractGeneralParameterValueType < -- gml:stringValue gml:AbstractGeneralParameterValueType < -- gml:integerValue gml:AbstractGeneralParameterValueType < -- gml:booleanValue gml:AbstractGeneralParameterValueType < -- gml:valueList gml:AbstractGeneralParameterValueType < -- gml:integerValueList gml:AbstractGeneralParameterValueType < -- gml:valueFile gml:AbstractGeneralParameterValueType < -- gml:operationParameter </pre>
Type	extension of gml:AbstractGeneralParameterValueType

Complex Type gml:DMSAngleType

Namespace	http://www.opengis.net/gml/3.2
Diagram	<pre> classDiagram gml:DMSAngleType < -- gml:degrees gml:DMSAngleType < -- gml:decimalMinutes gml:DMSAngleType < -- gml:seconds </pre>

Complex Type gml:DegreesType

Namespace	http://www.opengis.net/gml/3.2						
Diagram	<pre> classDiagram gml:DegreesType < -- gml:DegreeValueType gml:DegreesType < -- @Attributes gml:DegreesType < -- @direction </pre>						
Type	extension of gml:DegreeValueType						
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>direction</td> <td>restriction of string</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	direction	restriction of string	optional
QName	Type	Use					
direction	restriction of string	optional					

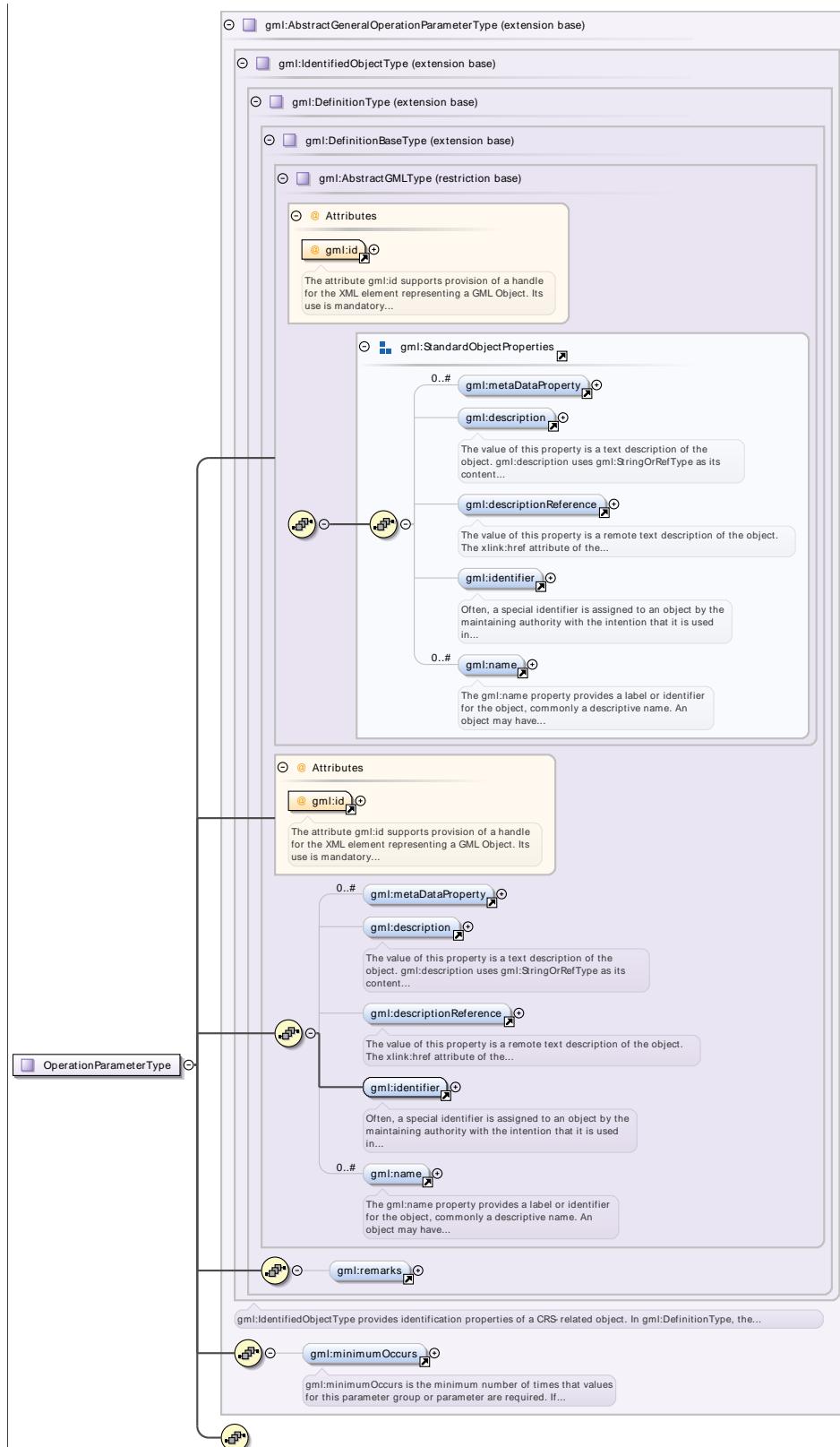
Complex Type **gml:OperationParameterPropertyType**

Namespace	http://www.opengis.net/gml/3.2			
Annotations	gml:OperationParameterPropertyType is a property type for association roles to an operation parameter, either referencing or containing the definition of that parameter.			
Diagram				
Attributes	QName	Type	Fixed	Use
	gml:remoteSchema	anyURI		optional
	nilReason	gml:NilReasonType		optional
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Complex Type **gml:OperationParameterType**

Namespace	http://www.opengis.net/gml/3.2			
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Diagram



Type	extension of gml:AbstractGeneralOperationParameterType		
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Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type **gml:ParameterValueGroupType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	extension of gml:AbstractGeneralParameterValueType

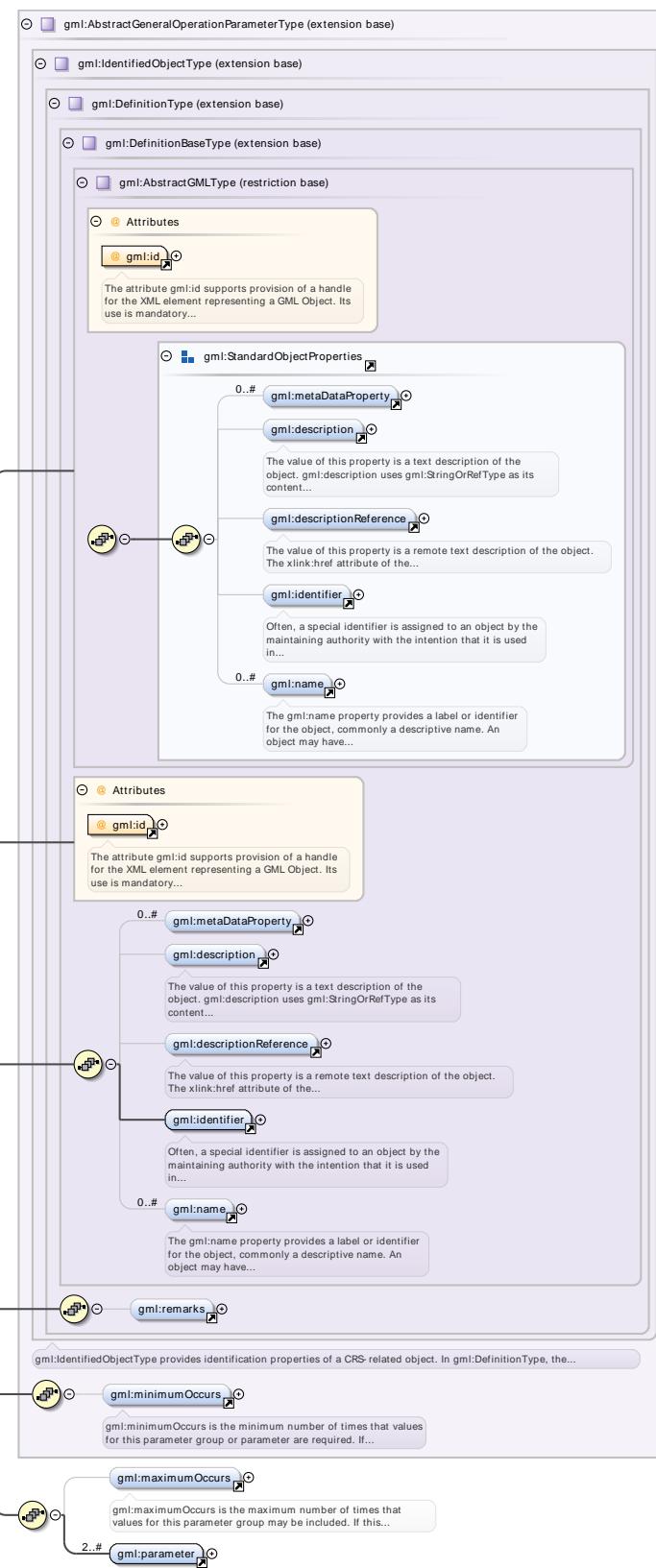
Complex Type **gml:OperationParameterGroupPropertyType**

Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	<p>gml:OperationParameterPropertyType is a property type for association roles to an operation parameter group, either referencing or containing the definition of that parameter group.</p>																																								
Diagram																																									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
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xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Complex Type **gml:OperationParameterGroupType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractGeneralOperationParameterType</code>		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

QName	Type	Use
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

Complex Type `gml:ObservationType`

Namespace	http://www.opengis.net/gml/3.2									
Diagram	<p>The diagram illustrates the structure of the <code>gml:ObservationType</code> complex type. It is an extension of <code>gml:AbstractFeatureType</code> (extension base). The <code>gml:StandardObjectProperties</code> block contains attributes: <code>gml:id</code> (mandatory), <code>gml:metaDataProperty</code> (0..#), <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, and <code>gml:name</code> (0..#). The <code>gml:boundedBy</code> block contains <code>gml:location</code>. The <code>gml:ProcedurePropertyType</code> block contains <code>gml:validTime</code>, <code>gml:using</code>, <code>gml:target</code>, and <code>gml:resultOf</code>.</p>									
Type	extension of <code>gml:AbstractFeatureType</code>									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td>The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> <td></td> </tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required		The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
<code>gml:id</code>	ID	required								
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Complex Type `gml:Procedure.PropertyType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram																																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:title	xlink:titleAttrType			optional																																																				
xlink:type	xlink:typeType	simple		optional																																																				

Complex Type gml:TargetPropertyType

Namespace	http://www.opengis.net/gml/3.2																																													
Diagram																																														
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional
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QName	Type	Fixed	Default	Use
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

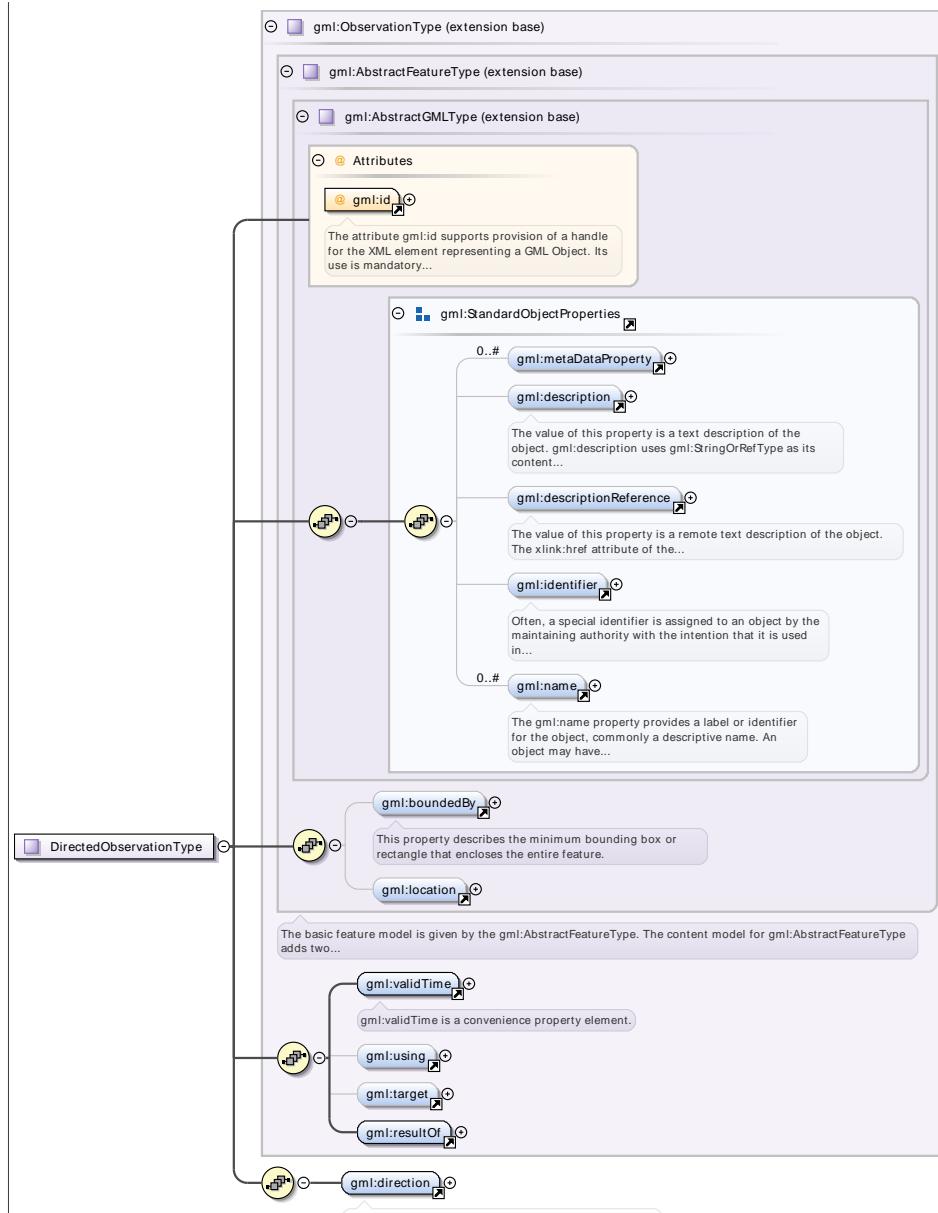
Complex Type **gml:ResultType**

Namespace	http://www.opengis.net/gml/3.2																																																											
Diagram	<p>The diagram illustrates the structure of the gml:ResultType. It shows inheritance from gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup. A reference to #any is also shown.</p>																																																											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>					QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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Complex Type **gml:DirectedObservationType**

Namespace	http://www.opengis.net/gml/3.2				
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Diagram



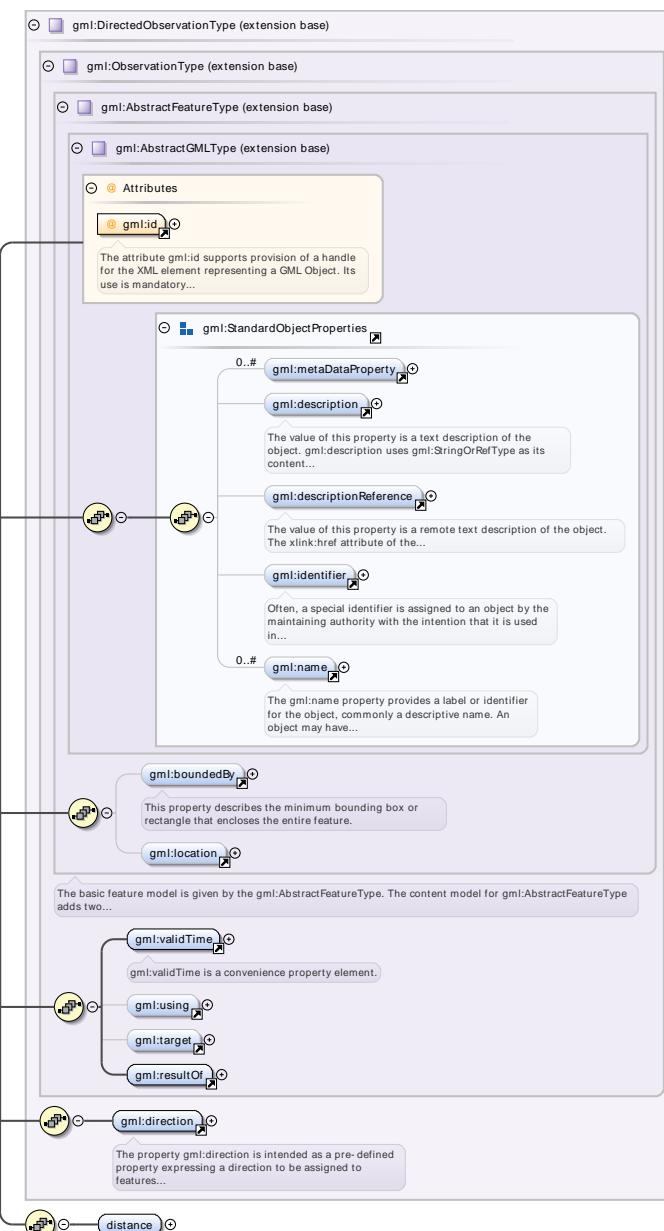
Type extension of `gml:ObservationType`

Attributes	QName	Type	Use	
	<code>gml:id</code>	ID	required	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:DirectedObservationAtDistanceType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of gml:DirectedObservationType

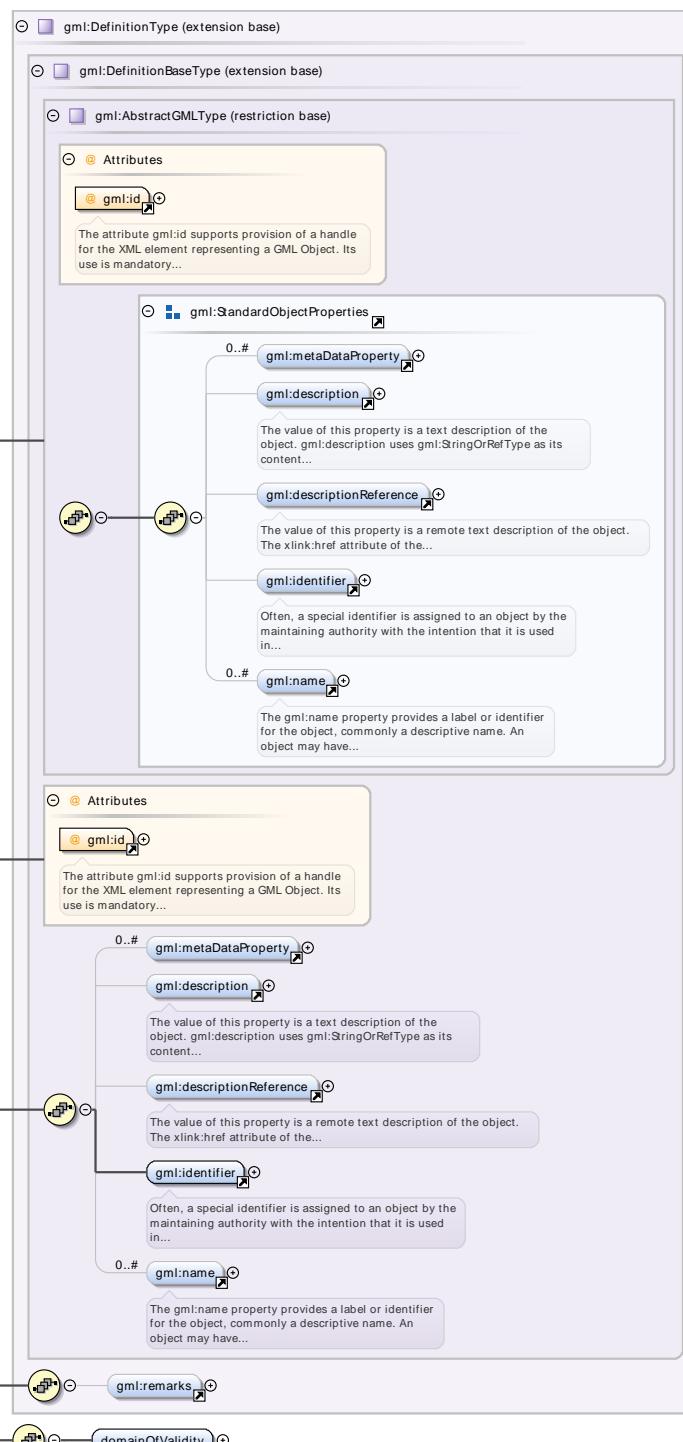
Attributes	QName	Type	Use
	gml:id	ID	required

The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type gml:TimeReferenceSystemType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



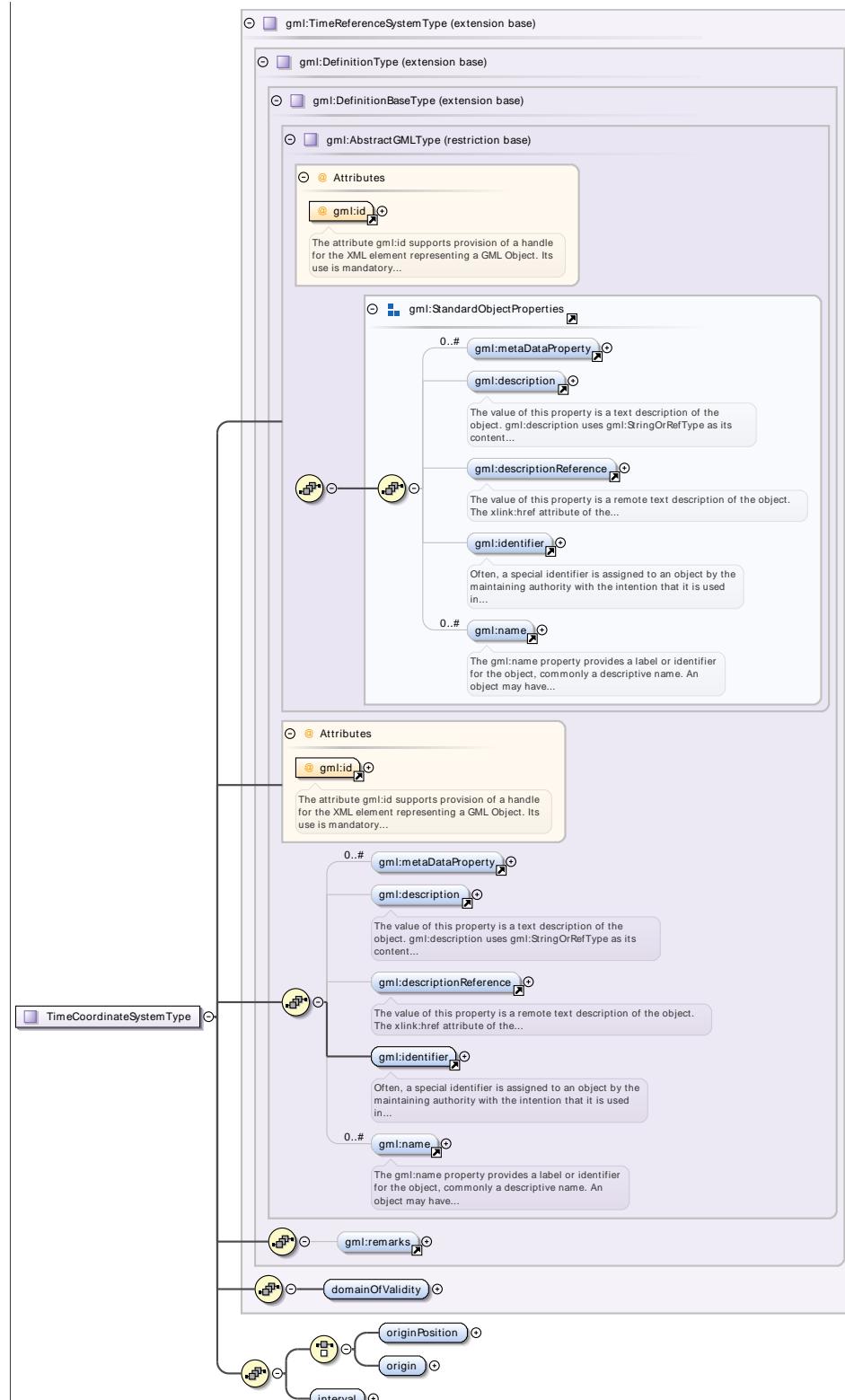
Type extension of `gml:DefinitionType`

Attributes	QName	Type	Use	
	<code>gml:id</code>	ID	required	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:TimeCoordinateSystemType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of gml:TimeReferenceSystemType

Attributes	QName	Type	Use	
	gml:id	ID	required	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:TimeCalendarType`

Namespace	http://www.opengis.net/gml/3.2								
Diagram	<pre> classDiagram class TimeCalendarType { <<TimeReferenceSystemType>> <<AbstractGMLType>> gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name gml:remarks domainOfValidity referenceFrame } </pre>								
Type	extension of <code>gml:TimeReferenceSystemType</code>								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>gml:id</code></td> <td>ID</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	<code>gml:id</code>	ID	required		
QName	Type	Use							
<code>gml:id</code>	ID	required							

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

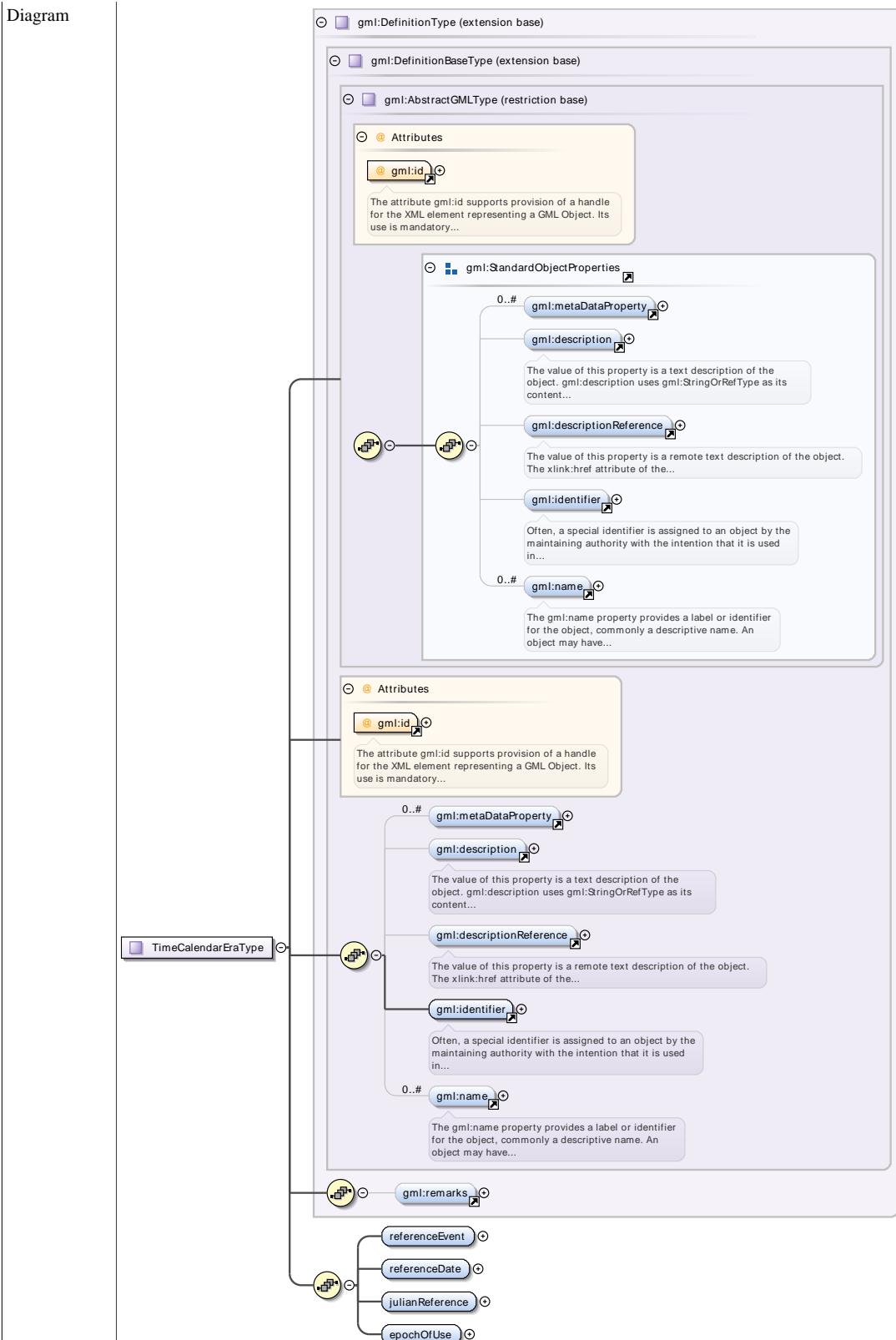
Complex Type **gml:TimeCalendarEraPropertyType**

Namespace	http://www.opengis.net/gml/3.2					
Annotations	gml:TimeCalendarEraPropertyType provides for associating a gml:TimeCalendarEra with an object.					
Diagram	<p>The diagram illustrates the structure of the gml:TimeCalendarEraPropertyType. It shows inheritance from gml:DefinitionType, which is indicated by a line connecting the two types. The gml:TimeCalendarEraPropertyType is associated with two groups of attributes: gml:OwnershipAttributeGroup and gml:AssociationAttributeGroup. A callout box provides a detailed explanation of these groups.</p>					
Attributes	QName	Type	Fixed	Default	Use	
	gml:remoteSchema	anyURI			optional	
	nilReason	gml:NilReasonType			optional	
	owns	boolean		false	optional	
	xlink:actuate	xlink:actuateType			optional	
	xlink:arcrole	xlink:arcroleType			optional	
	xlink:href	xlink:hrefType			optional	
	xlink:role	xlink:roleType			optional	
	xlink:show	xlink:showType			optional	
	xlink:title	xlink:titleAttrType			optional	
	xlink:type	xlink:typeType	simple		optional	

Complex Type **gml:TimeCalendarEraType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of **gml:DefinitionType**

Attributes	QName	Type	Use
	gml:id	ID	required

The attribute **gml:id** supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

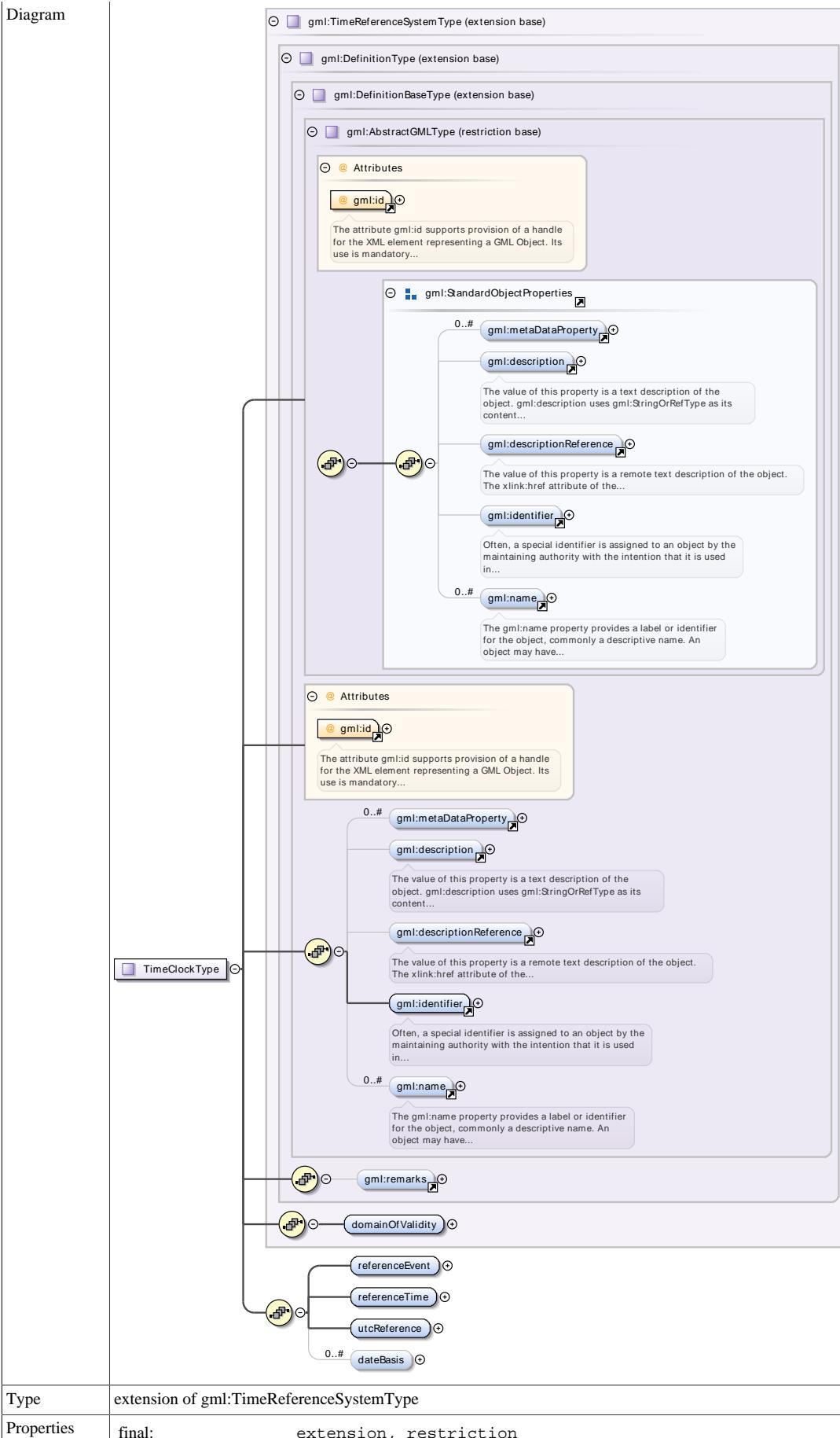
Complex Type **gml:TimeCalendarPropertyType**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:TimeCalendarPropertyType provides for associating a gml:TimeCalendar with an object.				
Diagram	<p>The diagram illustrates the structure of the gml:TimeCalendarPropertyType complex type. It is defined as a gml:OwnershipAttributeGroup and a gml:AssociationAttributeGroup. It contains a gml:TimeCalendar element, which is described as a discrete temporal reference system. A note states that XLink components are used for hypertext referencing in XML.</p>				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Complex Type **gml:TimeClockType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of gml:TimeReferenceSystemType

Properties final: extension, restriction

Attributes	QName	Type	Use
	gml:id	ID	required
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

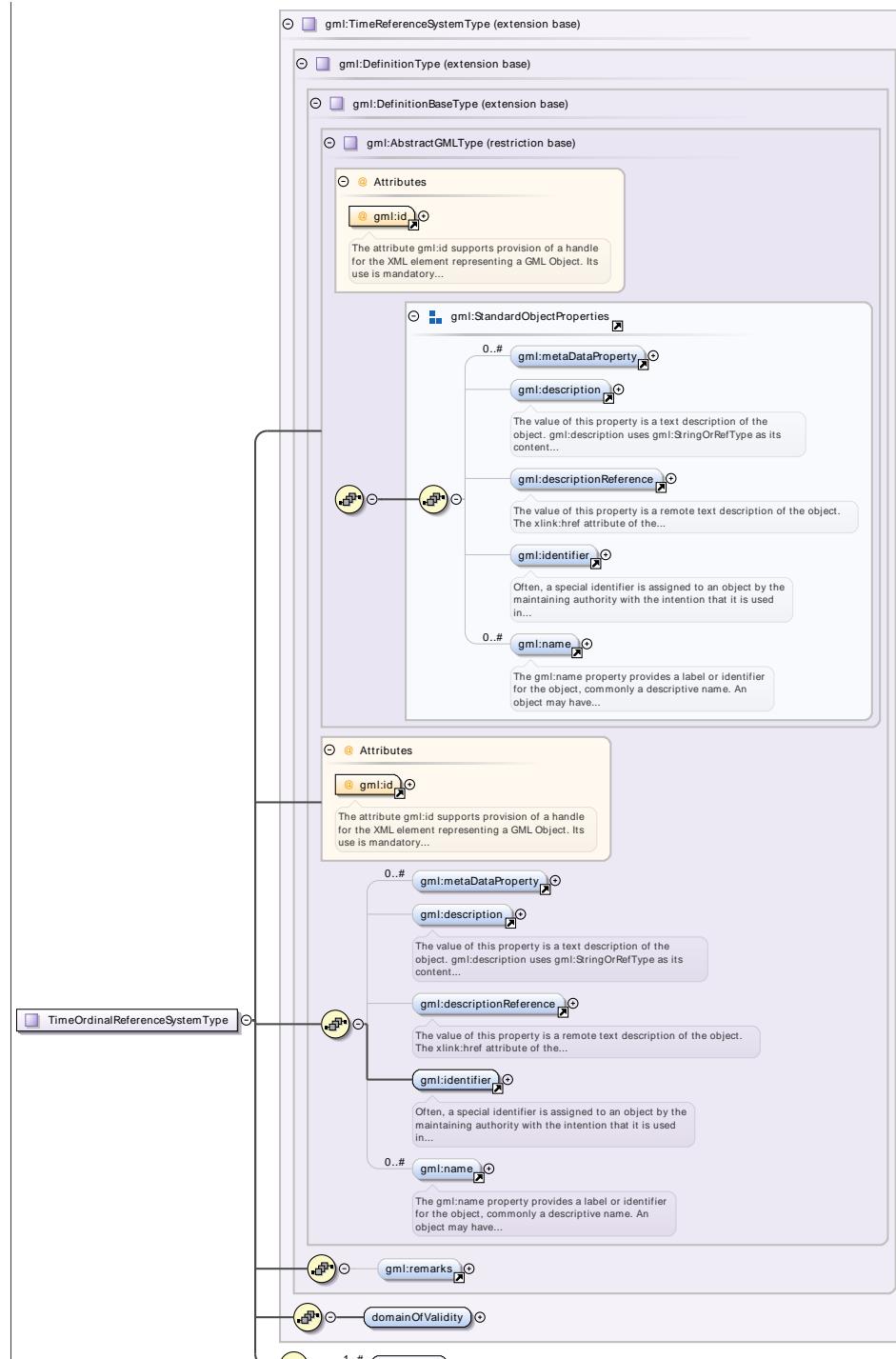
Complex Type **gml:TimeClockPropertyType**

Namespace	http://www.opengis.net/gml/3.2					
Annotations	gml:TimeClockPropertyType provides for associating a gml:TimeClock with an object.					
Diagram						
Attributes						
QName	Type	Fixed	Default	Use		
gml:remoteSchema	anyURI				optional	
nilReason	gml:NilReasonType				optional	
owns	boolean		false		optional	
xlink:actuate	xlink:actuateType				optional	
xlink:arcrole	xlink:arcroleType				optional	
xlink:href	xlink:hrefType				optional	
xlink:role	xlink:roleType				optional	
xlink:show	xlink:showType				optional	
xlink:title	xlink:titleAttrType				optional	
xlink:type	xlink:typeType	simple			optional	

Complex Type **gml:TimeOrdinalReferenceSystemType**

Namespace	http://www.opengis.net/gml/3.2					
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Diagram



Type extension of `gm:TimeReferenceSystemType`

Attributes	QName	Type	Use	
	<code>gm:id</code>	ID	required	
	The attribute <code>gm:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Complex Type `gm:TimeOrdinalEraPropertyType`

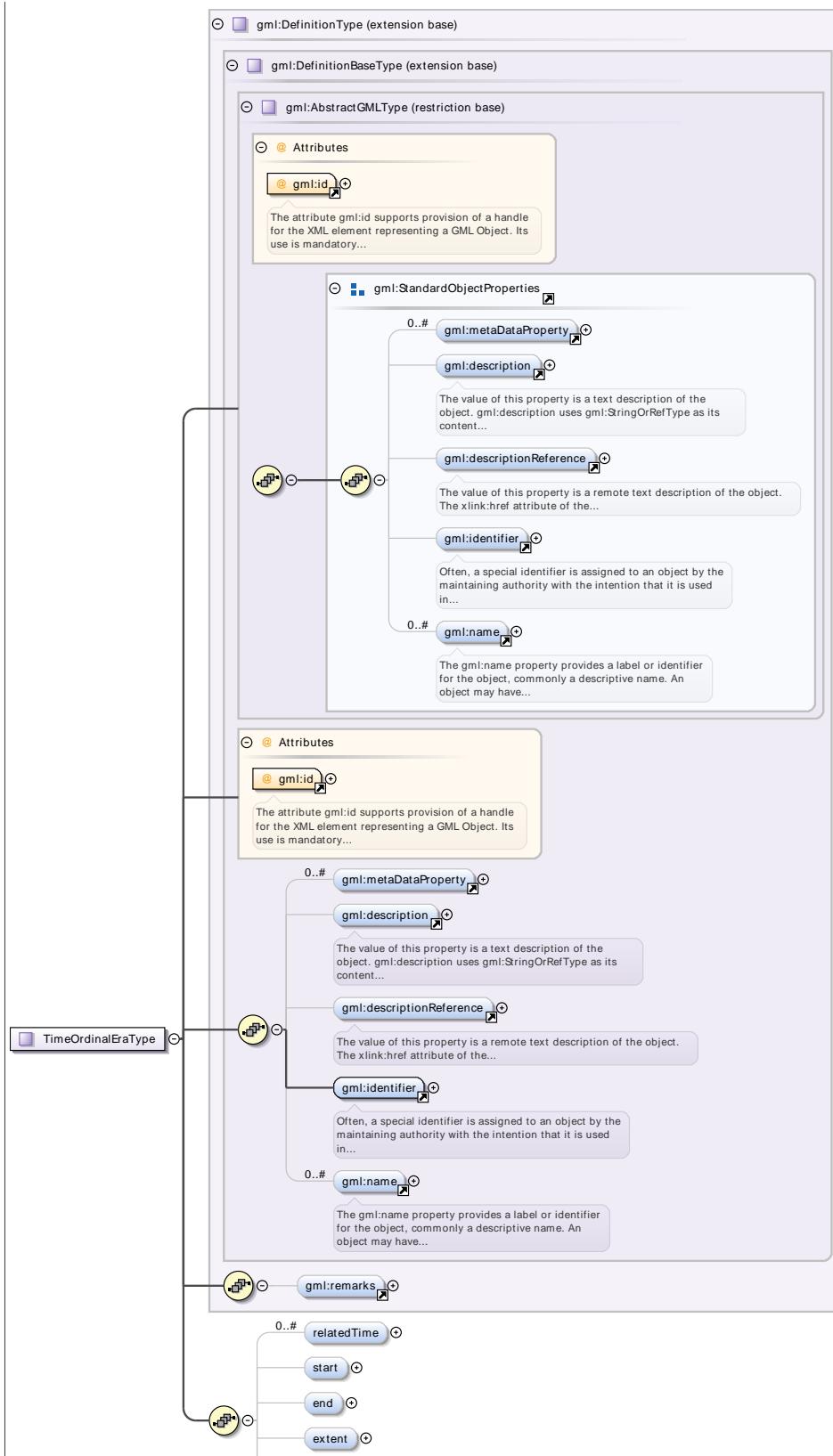
Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gm:TimeOrdinalEraPropertyType</code> provides for associating a <code>gm:TimeOrdinalEra</code> with an object.

Diagram	<p>Diagram illustrating the structure of TimeOrdinalEraPropertyType:</p> <ul style="list-style-type: none"> Attributes: <ul style="list-style-type: none"> gml:OwnershipAttributeGroup gml:AssociationAttributeGroup Relationships: <ul style="list-style-type: none"> TimeOrdinalEraPropertyType provides for associating a gml:TimeOrdinalEra with an object. gml:TimeOrdinalEra 																																																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th></tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td><td>anyURI</td><td></td><td></td><td>optional</td></tr> <tr> <td>nilReason</td><td>gml:NilReasonType</td><td></td><td></td><td>optional</td></tr> <tr> <td>owns</td><td>boolean</td><td></td><td>false</td><td>optional</td></tr> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>simple</td><td></td><td>optional</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:type	xlink:typeType	simple		optional																																																				

Complex Type gml:TimeOrdinalEraType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of gml:DefinitionType

Attributes	QName	Type	Use	
	gml:id	ID	required	

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

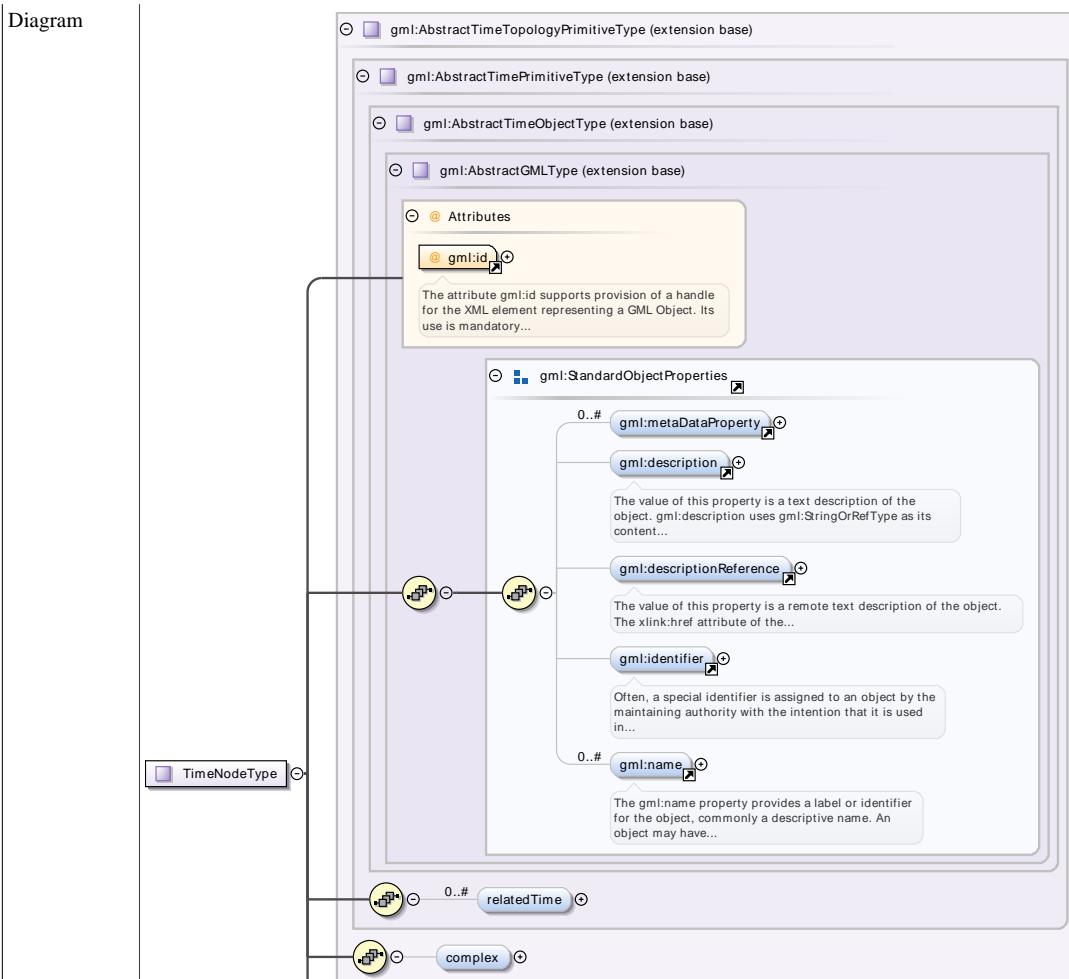
Complex Type **gml:TimeNodePropertyType**

Namespace	http://www.opengis.net/gml/3.2				
Annotations	gml:TimeNodePropertyType provides for associating a gml:TimeNode with an object				
Diagram	<p>The diagram illustrates the structure of the gml:TimeNodePropertyType complex type. It features a central box labeled 'TimeNodePropertyType' with a description: 'gml:TimeNodePropertyType provides for associating a gml:TimeNode with an object'. Two arrows point from this box to two other boxes: 'gml:AssociationAttributeGroup' and 'gml:OwnershipAttributeGroup'. A third arrow points from 'gml:AssociationAttributeGroup' to 'gml:TimeNode'. A callout box for 'gml:TimeNode' contains the text: 'A time node is a zero-dimensional topological primitive that represents an identifiable node in time (it is equivalent...)'.</p>				
Attributes	QName	Type	Fixed	Default	Use
	gml:remoteSchema	anyURI			optional
	nilReason	gml:NilReasonType			optional
	owns	boolean		false	optional
	xlink:actuate	xlink:actuateType			optional
	xlink:arcrole	xlink:arcroleType			optional
	xlink:href	xlink:hrefType			optional
	xlink:role	xlink:roleType			optional
	xlink:show	xlink:showType			optional
	xlink:title	xlink:titleAttrType			optional
	xlink:type	xlink:typeType	simple		optional

Complex Type **gml:TimeNodeType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



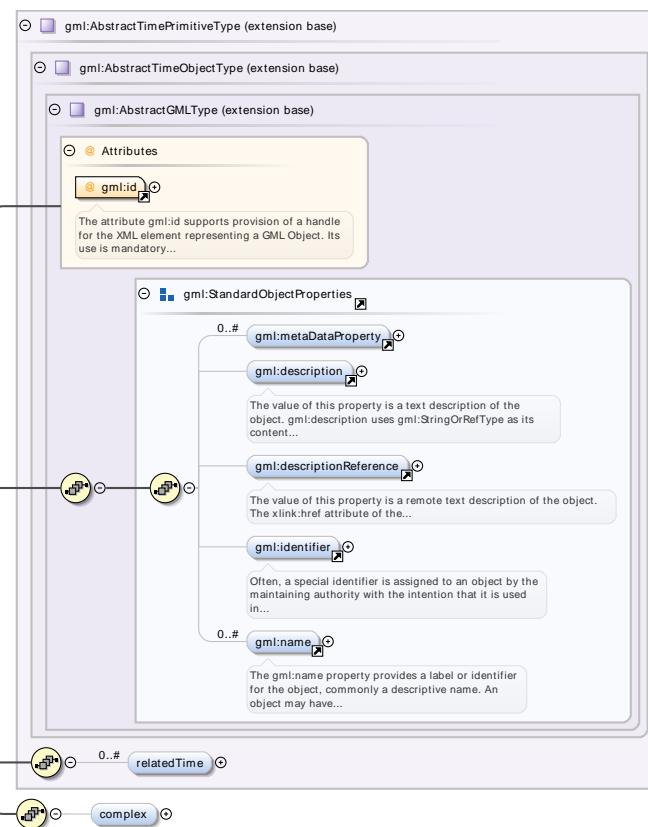
Type extension of gml:AbstractTimeTopologyPrimitiveType

Attributes	QName	Type	Use	
	gml:id	ID	required	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type gml:AbstractTimeTopologyPrimitiveType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `gml:AbstractTimePrimitiveType`

Properties abstract: true

Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:TimeEdgePropertyType`

Namespace	http://www.opengis.net/gml/3.2					
Annotations	gml:TimeEdgePropertyType provides for associating a <code>gml:TimeEdge</code> with an object.					
Diagram	<p>The diagram illustrates the structure of the <code>TimeEdgePropertyType</code> complex type. It includes associations with <code>gml:TimeEdge</code> and <code>gml:TimeEdgePropertyType</code>, and attributes for <code>gml:AssociationAttributeGroup</code> and <code>gml:OwnershipAttributeGroup</code>.</p>					
Attributes	<code>QName</code>	<code>Type</code>	<code>Fixed</code>	<code>Default</code>	<code>Use</code>	
	<code>gml:remoteSchema</code>	anyURI			optional	
	<code>nilReason</code>	<code>gml:NilReasonType</code>			optional	
	<code>owns</code>	boolean		false	optional	

QName	Type	Fixed	Default	Use
xlink:actuate	xlink:actuateType			optional
xlink:arcrole	xlink:arcroleType			optional
xlink:href	xlink:hrefType			optional
xlink:role	xlink:roleType			optional
xlink:show	xlink:showType			optional
xlink:title	xlink:titleAttrType			optional
xlink:type	xlink:typeType	simple		optional

Complex Type **gml:TimeEdgeType**

Namespace	http://www.opengis.net/gml/3.2									
Diagram	<p>The diagram illustrates the structure of the gml:TimeEdgeType complex type. It is an extension of gml:AbstractTimeTopologyPrimitiveType, which itself extends gml:AbstractTimePrimitiveType and gml:AbstractTimeObjectType. The TimeEdgeType class has the following attributes:</p> <ul style="list-style-type: none"> @gml:id: A mandatory attribute that supports provision of a handle for the XML element representing a GML Object. Its use is mandatory. gml:metaDataProperty: A many-to-one relationship (0..#) to gml:metaDataProperty. gml:description: A one-to-one relationship to gml:description. The value of this property is a text description of the object. gml:description uses gml:StringOrRefType as its content. gml:descriptionReference: A one-to-one relationship to gml:descriptionReference. The value of this property is a remote text description of the object. The xlink:href attribute of the... gml:identifier: A one-to-one relationship to gml:identifier. Often, a special identifier is assigned to an object by the maintaining authority with the intention that it is used in... gml:name: A many-to-one relationship (0..#) to gml:name. The gml:name property provides a label or identifier for the object, commonly a descriptive name. An object may have... <p>Relationships from TimeEdgeType include:</p> <ul style="list-style-type: none"> relatedTime: A many-to-one relationship (0..#) to relatedTime. complex: A one-to-one relationship to complex. start: A one-to-one relationship to start. end: A one-to-one relationship to end. extent: A one-to-one relationship to extent. 									
Type	extension of gml:AbstractTimeTopologyPrimitiveType									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td colspan="2">The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td></tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
gml:id	ID	required								
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Complex Type **gml:TimeTopologyPrimitivePropertyType**

Namespace	http://www.opengis.net/gml/3.2
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Annotations	gml:TimeTopologyPrimitivePropertyType provides for associating a gml:AbstractTimeTopologyPrimitive with an object.																																																							
Diagram																																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>owns</td> <td>boolean</td> <td></td> <td>false</td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	gml:remoteSchema	anyURI			optional	nilReason	gml:NilReasonType			optional	owns	boolean		false	optional	xlink:actuate	xlink:actuateType			optional	xlink:arcrole	xlink:arcroleType			optional	xlink:href	xlink:hrefType			optional	xlink:role	xlink:roleType			optional	xlink:show	xlink:showType			optional	xlink:title	xlink:titleAttrType			optional	xlink:type	xlink:typeType	simple		optional
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xlink:type	xlink:typeType	simple		optional																																																				

Complex Type gml:TimeTopologyComplexType

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	extension of gml:AbstractTimeComplexType

Properties	abstract: true			
Attributes	QName gml:id	Type ID	Use required	
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.			

Complex Type **gml:TimeTopologyComplexPropertyType**

Namespace	http://www.opengis.net/gml/3.2					
Annotations	gml:TimeTopologyComplexPropertyType provides for associating a gml:TimeTopologyComplex with an object.					
Diagram						
Attributes	QName gml:remoteSchema nilReason owns xlink:actuate xlink:arcrole xlink:href xlink:role xlink:show xlink:title xlink:type	Type anyURI gml:NilReasonType boolean xlink:actuateType xlink:arcroleType xlink:hrefType xlink:roleType xlink:showType xlink:titleAttrType xlink:typeType	Fixed 	Default false	Use optional optional optional optional optional optional optional optional optional optional optional	

Complex Type **gml:OperationPropertyType**

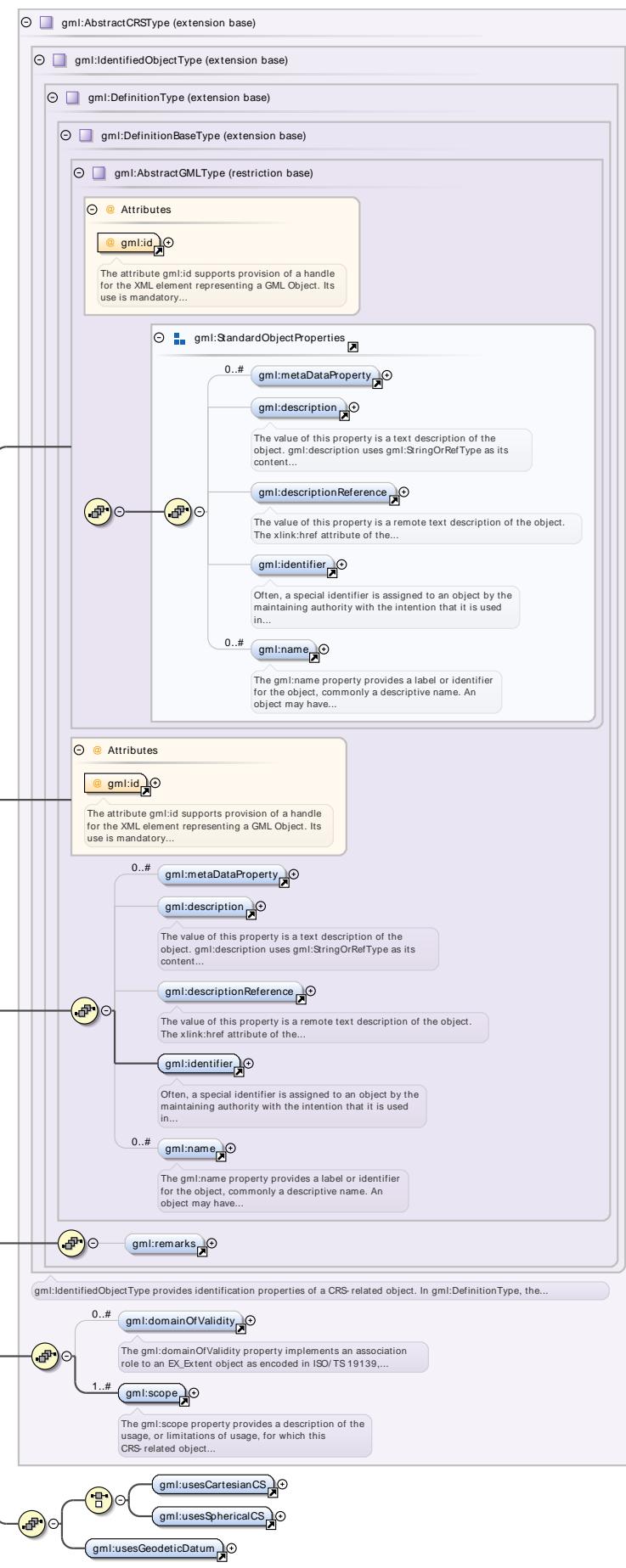
Namespace	http://www.opengis.net/gml/3.2					
Diagram						
Attributes	QName gml:remoteSchema nilReason xlink:actuate xlink:arcrole xlink:href	Type anyURI gml:NilReasonType xlink:actuateType xlink:arcroleType xlink:hrefType	Fixed 	Use optional optional optional optional optional		

QName	Type	Fixed	Use	
xlink:role	xlink:roleType		optional	
xlink:show	xlink:showType		optional	
xlink:title	xlink:titleAttrType		optional	
xlink:type	xlink:typeType	simple	optional	

Complex Type **gml:GeocentricCRSType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of <code>gml:AbstractCRSType</code>		
Attributes	QName <code>gml:id</code>	Type ID	Use required
	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.		

Complex Type `gml:GeocentricCRSPROPERTYType`

Namespace	http://www.opengis.net/gml/3.2			
Diagram				
Attributes	QName <code>gml:remoteSchema</code> <code>nilReason</code> <code>xlink:actuate</code> <code>xlink:arcrole</code> <code>xlink:href</code> <code>xlink:role</code> <code>xlink:show</code> <code>xlink:title</code> <code>xlink:type</code>	Type anyURI <code>gml:NilReasonType</code> <code>xlink:actuateType</code> <code>xlink:arcroleType</code> <code>xlink:hrefType</code> <code>xlink:roleType</code> <code>xlink:showType</code> <code>xlink:titleAttrType</code> <code>xlink:typeType</code>	Fixed simple	Use optional optional optional optional optional optional optional optional

Complex Type `gml:AngleChoiceType`

Namespace	http://www.opengis.net/gml/3.2			
Diagram				

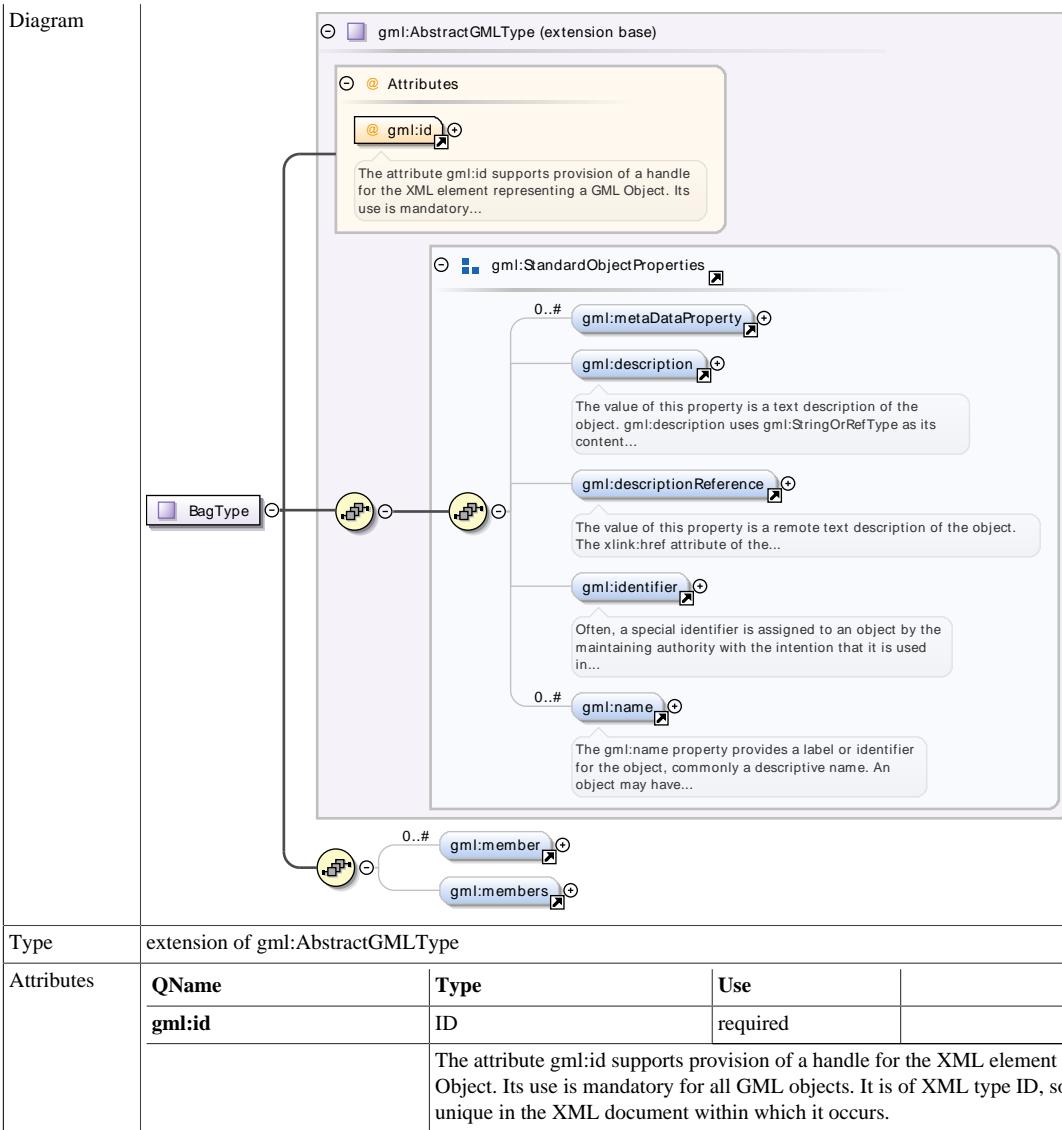
Complex Type `gml:ArrayAssociationType`

Namespace	http://www.opengis.net/gml/3.2			
Diagram				
Attributes	QName <code>owns</code>	Type boolean	Default false	Use optional

Complex Type `gml:BagType`

Namespace	http://www.opengis.net/gml/3.2			
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Diagram



Type extension of gm:AbstractGMLType

Attributes

QName

gm:id

Type

ID

Use

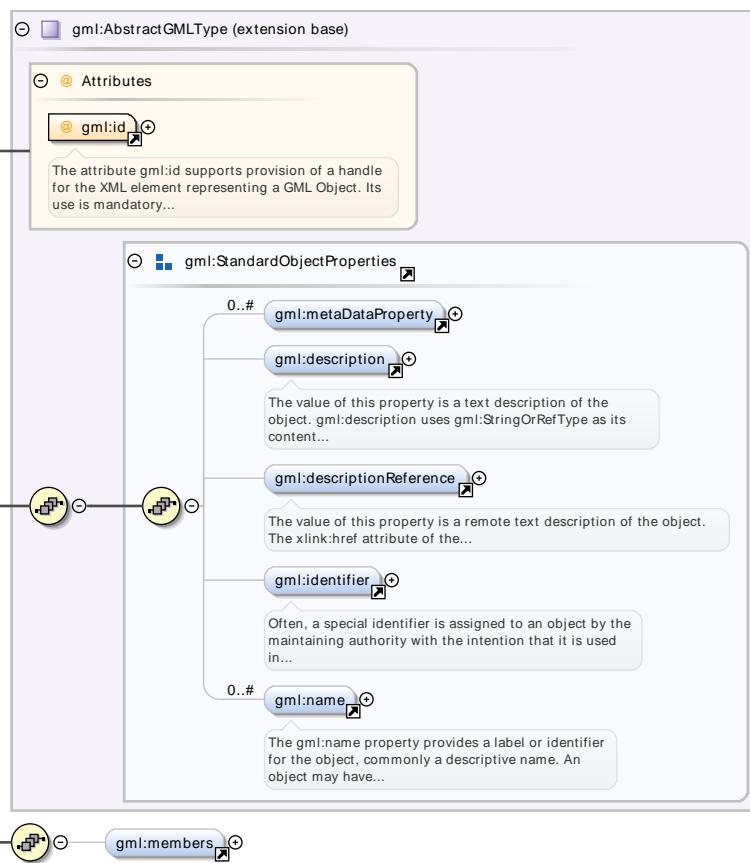
required

The attribute **gm:id** supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type gm:ArrayType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



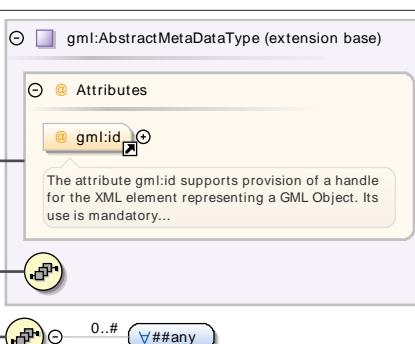
Type extension of `gml:AbstractGMLType`

Attributes	QName	Type	Use	
	<code>gml:id</code>	ID	required	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:GenericMetaDataType`

Namespace <http://www.opengis.net/gml/3.2>

Diagram



Type extension of `gml:AbstractMetaDataType`

Properties mixed: true

Attributes	QName	Type	Use	
	<code>gml:id</code>	ID	optional	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type **gml:PriorityLocationPropertyType**

Namespace	http://www.opengis.net/gml/3.2																																												
Diagram	<p>Diagram illustrating the structure of gml:PriorityLocationPropertyType:</p> <ul style="list-style-type: none"> Extension Base: gml:LocationPropertyType Attributes: <ul style="list-style-type: none"> gml:remoteSchema nilReason priority xlink:actuate xlink:arcrole xlink:href xlink:role xlink:show xlink:title xlink:type Associations: <ul style="list-style-type: none"> gml:AbstractGeometry gml:LocationKeyWord gml:LocationString gml:Null 																																												
Type	extension of gml:LocationPropertyType																																												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>priority</td> <td>string</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	priority	string		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																										
gml:remoteSchema	anyURI		optional																																										
nilReason	gml:NilReasonType		optional																																										
priority	string		optional																																										
xlink:actuate	xlink:actuateType		optional																																										
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xlink:title	xlink:titleAttrType		optional																																										
xlink:type	xlink:typeType	simple	optional																																										

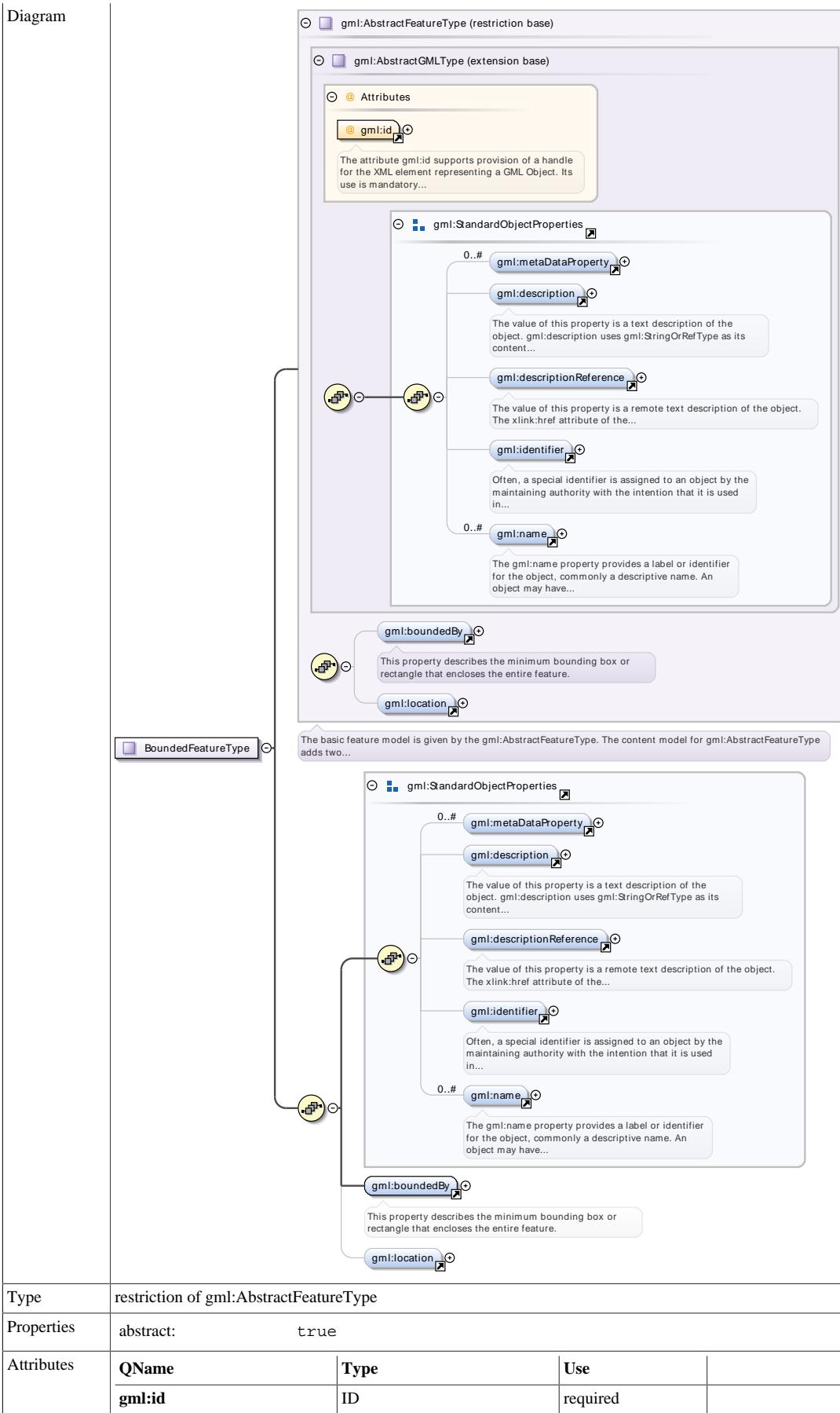
Complex Type **gml:FeatureArrayPropertyType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>Diagram illustrating the structure of gml:FeatureArrayPropertyType:</p> <ul style="list-style-type: none"> Extension Base: gml:AbstractFeature Multiplicity: 0..#

Complex Type **gml:BoundedFeatureType**

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	restriction of <code>gml:AbstractFeatureType</code>		
Properties	abstract: true		
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

QName	Type	Use
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	

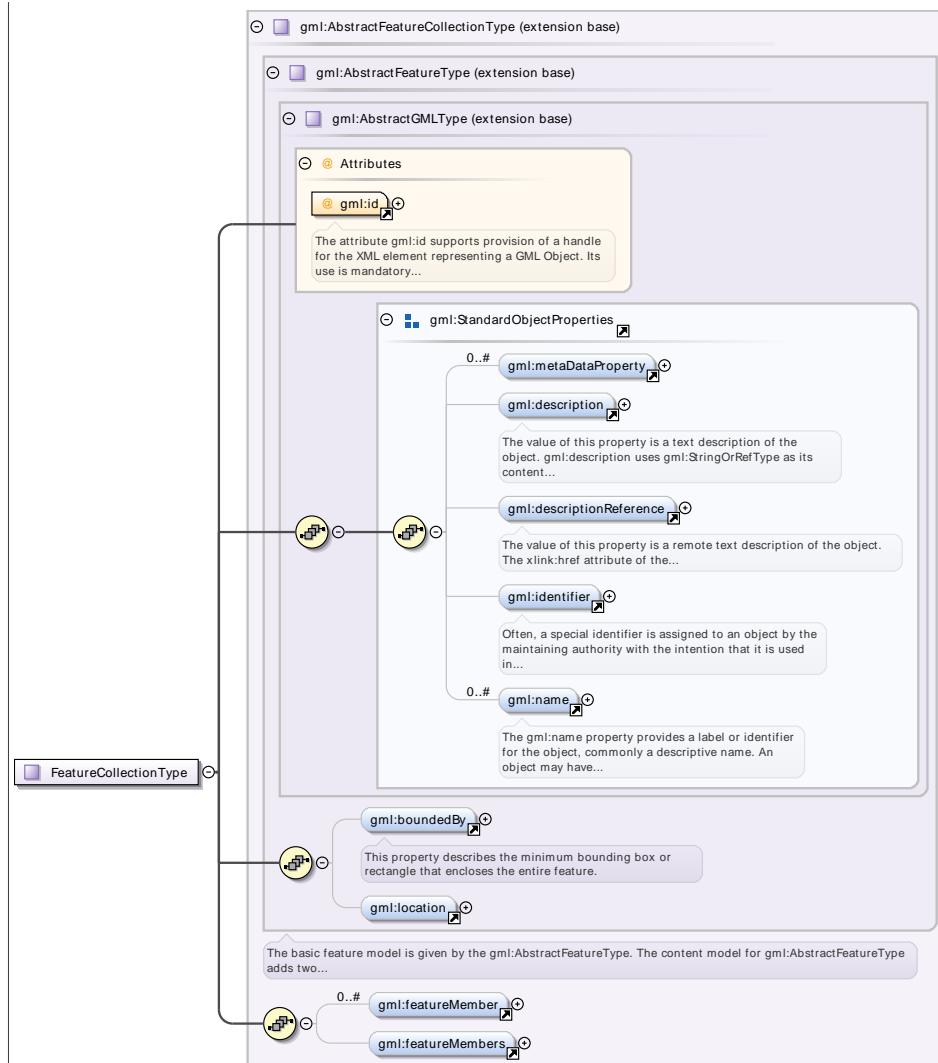
Complex Type gml:AbstractFeatureCollectionType

Namespace	http://www.opengis.net/gml/3.2									
Diagram	<pre> classDiagram class gml:AbstractFeatureType { <<extension base>> } class gml:AbstractGMLType { <<extension base>> } class gml:StandardObjectProperties { <<extension base>> gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name } class gml:AbstractFeatureCollectionType { <<extension of gml:AbstractFeatureType>> gml:id gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name gml:boundedBy gml:location gml:featureMember } gml:AbstractFeatureType < -- gml:AbstractGMLType gml:AbstractGMLType < -- gml:StandardObjectProperties gml:AbstractFeatureCollectionType < -- gml:AbstractFeatureType </pre>									
Type	extension of gml:AbstractFeatureType									
Properties	abstract: true									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:id</td> <td>ID</td> <td>required</td> </tr> <tr> <td></td> <td>The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.</td> <td></td> </tr> </tbody> </table>	QName	Type	Use	gml:id	ID	required		The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.	
QName	Type	Use								
gml:id	ID	required								
	The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.									

Complex Type gml:FeatureCollectionType

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type extension of `gml:AbstractFeatureCollectionType`

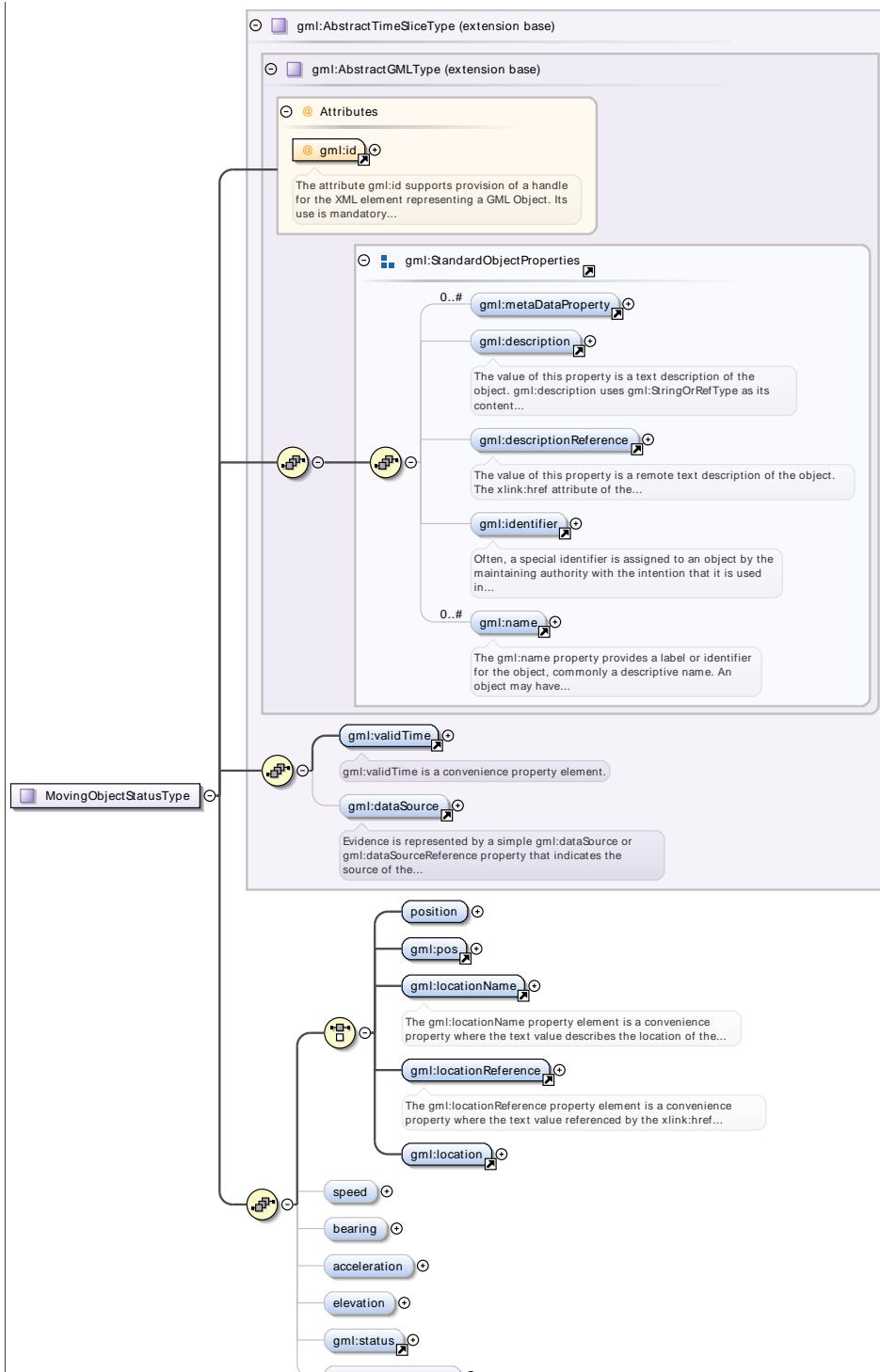
Attributes	QName	Type	Use
	<code>gml:id</code>	ID	required

The attribute `gml:id` supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Complex Type `gml:MovingObjectStatusType`

Namespace	http://www.opengis.net/gml/3.2
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Diagram



Type	extension of gml:AbstractTimeSliceType
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Attributes	QName	Type	Use
	gml:id	ID	required

The attribute gml:id supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.

Simple Type(s)

Simple Type gml:NilReasonType

Namespace	http://www.opengis.net/gml/3.2
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Annotations	gml:NilReasonType defines a content model that allows recording of an explanation for a void value or other exception. gml:NilReasonType is a union of the following enumerated values: - inapplicable there is no value - missing the correct value is not readily available to the sender of this data. Furthermore, a correct value may not exist - template the value will be available later - unknown the correct value is not known to, and not computable by, the sender of this data. However, a correct value probably exists - withheld the value is not divulged - other:text other brief explanation, where text is a string of two or more characters with no included spaces and - anyURI which should refer to a resource which describes the reason for the exception. A particular community may choose to assign more detailed semantics to the standard values provided. Alternatively, the URI method enables a specific or more complete explanation for the absence of a value to be provided elsewhere and indicated by-reference in an instance document. gml:NilReasonType is used as a member of a union in a number of simple content types where it is necessary to permit a value from the NilReasonType union as an alternative to the primary type.
Diagram	<pre> classDiagram class gml NilReasonType class gml NilReasonEnumeration class anyURI gml NilReasonType "0..1" -- "1..1" gml NilReasonEnumeration gml NilReasonType "0..1" -- "1..1" anyURI </pre> <p>gml:NilReasonType defines a content model that allows recording of an explanation for a void value or other exception....</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>
Type	union of(gml:NilReasonEnumeration, anyURI)

Simple Type gml:NCNameList

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	<pre> classDiagram class NCNameList class NCName NCNameList "0..1" -- "1..1" NCName </pre> <p>A type for a list of values of the respective simple type.</p> <p>Built-in derived type. NCName represents XML "non- colonized" Names. The base type of NCName is Name.</p>
Type	list of NCName

Simple Type gml:doubleList

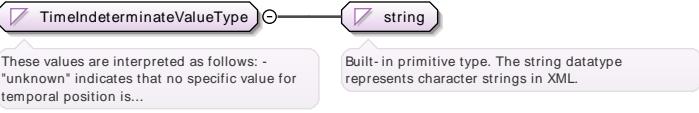
Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	<pre> classDiagram class doubleList class double doubleList "0..1" -- "1..1" double </pre> <p>A type for a list of values of the respective simple type.</p> <p>Built-in primitive type. The double datatype corresponds to IEEE double-precision 64-bit floating point type [IEEE...]</p>
Type	list of double

Simple Type gml:TimePositionUnion

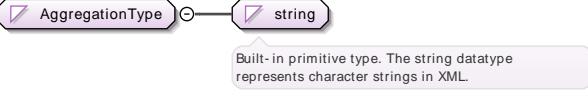
Namespace	http://www.opengis.net/gml/3.2
Annotations	The simple type gml:TimePositionUnion is a union of XML Schema simple types which instantiate the subtypes for temporal position described in ISO 19108. An ordinal era may be referenced via URI. A decimal value may be used to indicate the distance from the scale origin. time is used for a position that recurs daily (see ISO 19108:2002 5.4.4.2). Finally, calendar and clock forms that support the representation of time in systems based on years, months, days, hours, minutes and seconds, in a notation following ISO 8601, are assembled by gml:CalDate
Diagram	<pre> classDiagram class gml CalDate class time class dateTime class anyURI class decimal TimePositionUnion "0..1" -- "1..1" gml CalDate TimePositionUnion "0..1" -- "1..1" time TimePositionUnion "0..1" -- "1..1" dateTime TimePositionUnion "0..1" -- "1..1" anyURI TimePositionUnion "0..1" -- "1..1" decimal class gml NilReasonType class gml NilReasonEnumeration class anyURI gml NilReasonType "0..1" -- "1..1" gml NilReasonEnumeration gml NilReasonType "0..1" -- "1..1" anyURI </pre> <p>The simple type gml:TimePositionUnion is a union of XML Schema simple types which instantiate the subtypes for temporal...</p> <p>Built-in primitive type. The time datatype represents an instant of time that recurs every day.</p> <p>Built-in primitive type. The dateTime datatype represents a specific instant of time.</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p> <p>Built-in primitive type. The decimal datatype represents arbitrary precision decimal numbers.</p>

Type	union of(gml:CalDate, time, dateTime, anyURI, decimal)
------	--

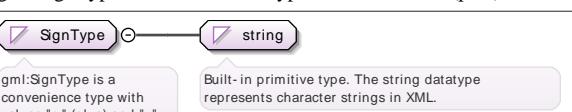
Simple Type gml:TimeIndeterminateValueType

Namespace	http://www.opengis.net/gml/3.2
Annotations	These values are interpreted as follows: - "unknown" indicates that no specific value for temporal position is provided. - "now" indicates that the specified value shall be replaced with the current temporal position whenever the value is accessed. - "before" indicates that the actual temporal position is unknown, but it is known to be before the specified value. - "after" indicates that the actual temporal position is unknown, but it is known to be after the specified value. A value for indeterminatePosition may - be used either alone, or - qualify a specific value for temporal position.
Diagram	 <p>These values are interpreted as follows: - "unknown" indicates that no specific value for temporal position is...</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	restriction of string

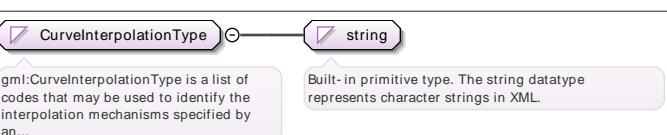
Simple Type gml:AggregationType

Namespace	http://www.opengis.net/gml/3.2
Diagram	 <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	restriction of string
Properties	final: restriction, list, union

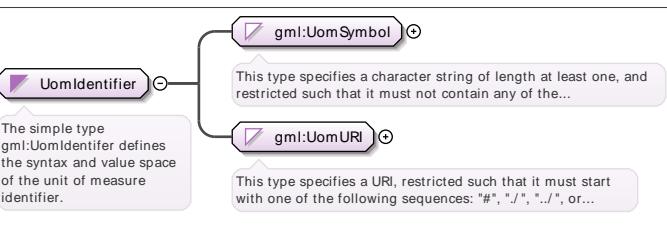
Simple Type gml:SignType

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:SignType is a convenience type with values "+" (plus) and "-" (minus).
Diagram	 <p>gml:SignType is a convenience type with values "+" (plus) and "-" (minus).</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	restriction of string

Simple Type gml:CurveInterpolationType

Namespace	http://www.opengis.net/gml/3.2
Annotations	gml:CurveInterpolationType is a list of codes that may be used to identify the interpolation mechanisms specified by an application schema.
Diagram	 <p>gml:CurveInterpolationType is a list of codes that may be used to identify the interpolation mechanisms specified by an...</p> <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	restriction of string

Simple Type gml:UomIdentifier

Namespace	http://www.opengis.net/gml/3.2
Annotations	The simple type gml:UomIdentifier defines the syntax and value space of the unit of measure identifier.
Diagram	 <p>The simple type gml:UomIdentifier defines the syntax and value space of the unit of measure identifier.</p> <p>This type specifies a character string of length at least one, and restricted such that it must not contain any of the...</p> <p>This type specifies a URI, restricted such that it must start with one of the following sequences: "#", "/", "../", or...</p>
Type	union of(gml:UomSymbol, gml:UomURI)

Simple Type `gml:KnotTypesType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	This enumeration type specifies values for the knots' type (see ISO 19107:2003, 6.4.25).
Diagram	
Type	restriction of string

Simple Type `gml:SurfaceInterpolationType`

Namespace	http://www.opengis.net/gml/3.2
Annotations	<code>gml:SurfaceInterpolationType</code> is a list of codes that may be used to identify the interpolation mechanisms specified by an application schema.
Diagram	
Type	restriction of string

Simple Type `gml:NilReasonEnumeration`

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	union of(restriction of string, restriction of string)

Simple Type `gml:booleanOrNilReason`

Namespace	http://www.opengis.net/gml/3.2
Annotations	Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple type or a reason for a nil value.
Diagram	
Type	union of(gml:NilReasonEnumeration, boolean, anyURI)

Simple Type `gml:doubleOrNilReason`

Namespace	http://www.opengis.net/gml/3.2
Annotations	Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple type or a reason for a nil value.
Diagram	

Type	union of(gml:NilReasonEnumeration, double, anyURI)
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Simple Type gml:integerOrNilReason

Namespace	http://www.opengis.net/gml/3.2
Annotations	Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple type or a reason for a nil value.
Diagram	<p>Built-in derived type. The integer datatype is derived from decimal by fixing the value of fractionDigits to be 0. This...</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>
Type	union of(gml:NilReasonEnumeration, integer, anyURI)

Simple Type gml:NameOrNilReason

Namespace	http://www.opengis.net/gml/3.2
Annotations	Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple type or a reason for a nil value.
Diagram	<p>Built-in derived type. Name represents XML Names. The base type of Name is token.</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>
Type	union of(gml:NilReasonEnumeration, Name, anyURI)

Simple Type gml:stringOrNilReason

Namespace	http://www.opengis.net/gml/3.2
Annotations	Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple type or a reason for a nil value.
Diagram	<p>Built-in primitive type. The string datatype represents character strings in XML.</p> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>
Type	union of(gml:NilReasonEnumeration, string, anyURI)

Simple Type gml:UomSymbol

Namespace	http://www.opengis.net/gml/3.2
Annotations	This type specifies a character string of length at least one, and restricted such that it must not contain any of the following characters: ":" (colon), " " (space), (newline), (carriage return), (tab). This allows values corresponding to familiar abbreviations, such as "kg", "m/s", etc. It is recommended that the symbol be an identifier for a unit of measure as specified in the "Unified Code of Units of Measure" (UCUM) (http://aurora.regenstrief.org/UCUM). This provides a set of symbols and a grammar for constructing identifiers for units of measure that are unique, and may be easily entered with a keyboard supporting the limited character set known as 7-bit ASCII. ISO 2955 formerly provided a specification with this scope, but was withdrawn in 2001. UCUM largely follows ISO 2955 with modifications to remove ambiguities and other problems.

Diagram	
Type	restriction of string

Simple Type `gml:UomURI`

Namespace	http://www.opengis.net/gml/3.2
Annotations	This type specifies a URI, restricted such that it must start with one of the following sequences: "#", "./", "../", or a string of characters followed by a ":". These patterns ensure that the most common URI forms are supported, including absolute and relative URIs and URIs that are simple fragment identifiers, but prohibits certain forms of relative URI that could be mistaken for unit of measure symbol . NOTE It is possible to re-write such a relative URI to conform to the restriction (e.g. "./m/s"). In an instance document, on elements of type <code>gml:MeasureType</code> the mandatory uom attribute shall carry a value corresponding to either - a conventional unit of measure symbol, - a link to a definition of a unit of measure that does not have a conventional symbol, or when it is desired to indicate a precise or variant definition.
Diagram	
Type	restriction of anyURI

Simple Type `gml:booleanList`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	
Type	list of boolean

Simple Type `gml:integerList`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	
Type	list of integer

Simple Type `gml:NameList`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	
Type	list of Name

Simple Type `gml:QNameList`

Namespace	http://www.opengis.net/gml/3.2
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Annotations	A type for a list of values of the respective simple type.
Diagram	<p>A type for a list of values of the respective simple type.</p> <p>Built-in primitive type. QName represents XML qualified names.</p>
Type	list of QName

Simple Type **gml:booleanOrNilReasonList**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	<p>A type for a list of values of the respective simple type.</p> <p>Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple...</p>
Type	list of gml:booleanOrNilReason

Simple Type **gml:NameOrNilReasonList**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	<p>A type for a list of values of the respective simple type.</p> <p>Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple...</p>
Type	list of gml:NameOrNilReason

Simple Type **gml:doubleOrNilReasonList**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	<p>A type for a list of values of the respective simple type.</p> <p>Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple...</p>
Type	list of gml:doubleOrNilReason

Simple Type **gml:integerOrNilReasonList**

Namespace	http://www.opengis.net/gml/3.2
Annotations	A type for a list of values of the respective simple type.
Diagram	<p>A type for a list of values of the respective simple type.</p> <p>Extension to the respective XML Schema built-in simple type to allow a choice of either a value of the built-in simple...</p>
Type	list of gml:integerOrNilReason

Simple Type **gml:TimeUnitType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	<p>TimeUnitType</p> <p>restricts: string</p> <p>restricts: string</p>
Type	union of(restriction of string, restriction of string)

Simple Type **gml:CalDate**

Namespace	http://www.opengis.net/gml/3.2
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Diagram	
Type	union of(date, gYearMonth, gYear)

Simple Type `gml:CompassPointEnumeration`

Namespace	http://www.opengis.net/gml/3.2
Annotations	These directions are necessarily approximate, giving direction with a precision of 22.5°. It is thus generally unnecessary to specify the reference frame, though this may be detailed in the definition of a GML application language.
Diagram	
Type	restriction of string

Simple Type `gml:SequenceRuleEnumeration`

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of string

Simple Type `gml:IncrementOrder`

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of string

Simple Type `gml:AxisDirectionList`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The different values in a <code>gml:AxisDirectionList</code> indicate the incrementation order to be used on all axes of the grid. Each axis shall be mentioned once and only once.
Diagram	
Type	list of <code>gml:AxisDirection</code>

Simple Type `gml:AxisDirection`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The value of a <code>gml:AxisDirection</code> indicates the incrementation order to be used on an axis of the grid.
Diagram	

Type	restriction of string
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Simple Type **gml:CountExtentType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of gml:integerOrNilReasonList

Simple Type **gml:DegreeValueType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of nonNegativeInteger

Simple Type **gml:DecimalMinutesType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of decimal

Simple Type **gml:ArcMinutesType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of nonNegativeInteger

Simple Type **gml:ArcSecondsType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of decimal

Simple Type **gml:SuccessionType**

Namespace	http://www.opengis.net/gml/3.2
Diagram	
Type	restriction of string

Attribute(s)

Attribute **@gml:id**

Namespace	http://www.opengis.net/gml/3.2
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Annotations	The attribute <code>gml:id</code> supports provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
Type	ID
Properties	content: simple

Attribute @gml:remoteSchema

Namespace	http://www.opengis.net/gml/3.2
Type	anyURI
Properties	content: simple

Attribute @gml:uom

Namespace	http://www.opengis.net/gml/3.2
Type	anyURI
Properties	content: simple

Element Group(s)

Element Group gml:standardObjectProperties

Namespace	http://www.opengis.net/gml/3.2
Diagram	

Element Group gml:dynamicProperties

Namespace	http://www.opengis.net/gml/3.2
Annotations	A convenience group. This allows an application schema developer to include dynamic properties in a content model in a standard fashion.
Diagram	

Element Group `gml:geometricPositionGroup`

Namespace	http://www.opengis.net/gml/3.2
Annotations	GML supports two different ways to specify a geometric position: either by a direct position (a data type) or a point (a geometric object). pos elements are positions that are "owned" by the geometric primitive encapsulating this geometric position. pointProperty elements contain a point that may be referenced from other geometry elements or reference another point defined elsewhere (reuse of existing points).
Diagram	<p>The diagram illustrates the inheritance structure for the <code>gml:geometricPositionGroup</code> element. It is shown as a box with a blue icon and the text "gml:geometricPositionGroup". An inheritance arrow points from this box to a yellow circle containing a blue icon with two squares. From this yellow circle, two arrows point to two separate boxes: one labeled "gml:pos" and another labeled "gml:pointProperty". Each of these boxes has a small "⊕" symbol in its top right corner, indicating they are optional.</p>

Element Group `gml:PointGrid`

Namespace	http://www.opengis.net/gml/3.2
Annotations	A <code>gml:PointGrid</code> group contains or references points or positions which are organised into sequences or grids. All rows shall have the same number of positions (columns).
Diagram	<p>The diagram illustrates the inheritance structure for the <code>gml:PointGrid</code> element. It is shown as a box with a blue icon and the text "gml:PointGrid". An inheritance arrow points from this box to a yellow circle containing a blue icon with two squares. From this yellow circle, an arrow points to a box labeled "rows".</p>

Element Group `gml:geometricPositionListGroup`

Namespace	http://www.opengis.net/gml/3.2
Annotations	GML supports two different ways to specify a list of geometric positions: either by a sequence of geometric positions (by reusing the group definition) or a sequence of direct positions (element posList). The posList element allows for a compact way to specify the coordinates of the positions, if all positions are represented in the same coordinate reference system.
Diagram	<p>The diagram illustrates the inheritance structure for the <code>gml:geometricPositionListGroup</code> element. It is shown as a box with a blue icon and the text "gml:geometricPositionListGroup". An inheritance arrow points from this box to a yellow circle containing a blue icon with two squares. From this yellow circle, an arrow points to a box labeled "gml:posList". Another inheritance arrow points from the "gml:posList" box to a yellow circle containing a blue icon with two squares. From this yellow circle, an arrow points to a box labeled "gml:geometricPositionGroup". The "gml:geometricPositionGroup" box has a multiplicity "1..#".</p>

Element Group `gml:timeLength`

Namespace	http://www.opengis.net/gml/3.2
Annotations	The length of a time period.
Diagram	<p>The diagram illustrates the inheritance structure for the <code>gml:timeLength</code> element. It is shown as a box with a blue icon and the text "gml:timeLength". An inheritance arrow points from this box to a yellow circle containing a blue icon with two squares. From this yellow circle, two arrows point to two separate boxes: one labeled "gml:duration" and another labeled "gml:timeInterval". Each of these boxes has a small "⊕" symbol in its top right corner, indicating they are optional.</p>

Element Group `gml:value`

Namespace	http://www.opengis.net/gml/3.2
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Annotations	This is a convenience choice group which unifies generic values defined in this Clause with spatial and temporal objects and the measures described above, so that any of these may be used within aggregate values.
Diagram	<pre> graph TD Value((Value)) --> AbstractValue(gml:AbstractValue) AbstractValue --> AbstractGeometry(gml:AbstractGeometry) AbstractValue --> AbstractTimeObject(gml:AbstractTimeObject) AbstractValue --> Null(gml:Null) </pre> <p>This is a convenience choice group which unifies generic values defined in this Clause with spatial and temporal...</p> <p>gml:AbstractValue is an abstract element which acts as the head of a substitution group which contains...</p> <p>The AbstractGeometry element is the abstract head of the substitution group for all geometry elements of GML. This...</p> <p>gml:AbstractTimeObject acts as the head of a substitution group for all temporal primitives and complexes.</p> <p>gml:Null</p>

Attribute Group(s)

Attribute Group **gml:AssociationAttributeGroup**

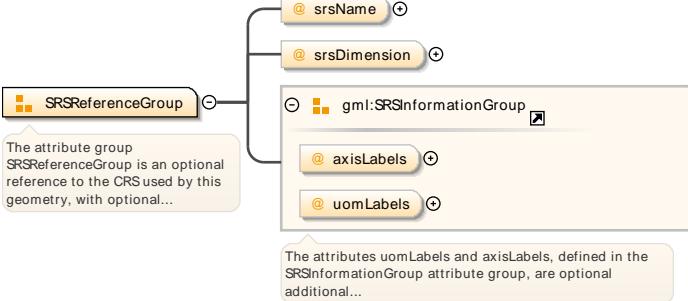
Namespace	http://www.opengis.net/gml/3.2																																								
Annotations	XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group, gml:AssociationAttributeGroup , is provided to support the use of Xlinks as the method for indicating the value of a property by reference in a uniform manner in GML.																																								
Diagram	<pre> graph TD AssociationAttributeGroup((AssociationAttributeGroup)) --> xlinkSimpleAttrs(xlink:simpleAttrs) xlinkSimpleAttrs --> xlinkTypeAttr[@xlink:type] xlinkSimpleAttrs --> xlinkHrefAttr[@xlink:href] xlinkSimpleAttrs --> xlinkRoleAttr[@xlink:role] xlinkSimpleAttrs --> xlinkArcroleAttr[@xlink:arcrole] xlinkSimpleAttrs --> xlinkTitleAttr[@xlink:title] xlinkSimpleAttrs --> xlinkShowAttr[@xlink:show] xlinkSimpleAttrs --> xlinkActuateAttr[@xlink:actuate] xlinkSimpleAttrs --> nilReasonAttr[@nilReason] xlinkSimpleAttrs --> gmlRemoteSchemaAttr[@gml:remoteSchema] </pre> <p>XLink components are the standard method to support hypertext referencing in XML. An XML Schema attribute group...</p>																																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>gml:remoteSchema</td> <td>anyURI</td> <td></td> <td>optional</td> </tr> <tr> <td>nilReason</td> <td>gml:NilReasonType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:href</td> <td>xlink:hrefType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>simple</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	gml:remoteSchema	anyURI		optional	nilReason	gml:NilReasonType		optional	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:href	xlink:hrefType		optional	xlink:role	xlink:roleType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	simple	optional
QName	Type	Fixed	Use																																						
gml:remoteSchema	anyURI		optional																																						
nilReason	gml:NilReasonType		optional																																						
xlink:actuate	xlink:actuateType		optional																																						
xlink:arcrole	xlink:arcroleType		optional																																						
xlink:href	xlink:hrefType		optional																																						
xlink:role	xlink:roleType		optional																																						
xlink:show	xlink:showType		optional																																						
xlink:title	xlink:titleAttrType		optional																																						
xlink:type	xlink:typeType	simple	optional																																						

Attribute Group **gml:OwnershipAttributeGroup**

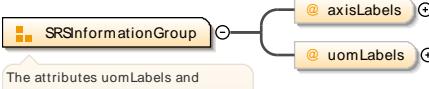
Namespace	http://www.opengis.net/gml/3.2
Annotations	Encoding a GML property inline vs. by-reference shall not imply anything about the "ownership" of the contained or referenced GML Object, i.e. the encoding style shall not imply any "deep-copy" or "deep-delete" semantics. To express ownership over the contained or referenced GML Object, the gml:OwnershipAttributeGroup attribute group may be added to object-valued property elements. If the attribute group is not part of the content model of such a property element, then the value may not be "owned". When the value of the owns attribute is "true", the existence of inline or referenced object(s) depends upon the existence of the parent object.

Diagram									
<p>Encoding a GML property inline vs. by-reference shall not imply anything about the "ownership" of the contained or...</p>									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>owns</td> <td>boolean</td> <td>false</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Default	Use	owns	boolean	false	optional
QName	Type	Default	Use						
owns	boolean	false	optional						

Attribute Group **gml:SRSReferenceGroup**

Namespace	http://www.opengis.net/gml/3.2																	
Annotations	<p>The attribute group SRSReferenceGroup is an optional reference to the CRS used by this geometry, with optional additional information to simplify the processing of the coordinates when a more complete definition of the CRS is not needed. In general the attribute srsName points to a CRS instance of gml:AbstractCoordinateReferenceSystem. For well-known references it is not required that the CRS description exists at the location the URI points to. If no srsName attribute is given, the CRS shall be specified as part of the larger context this geometry element is part of.</p>																	
Diagram	 <p>The attribute group SRSReferenceGroup is an optional reference to the CRS used by this geometry, with optional...</p> <p>The attributes uomLabels and axisLabels, defined in the SRSInformationGroup attribute group, are optional additional...</p>																	
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>axisLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> <tr> <td>srsDimension</td> <td>positiveInteger</td> <td>optional</td> </tr> <tr> <td>srsName</td> <td>anyURI</td> <td>optional</td> </tr> <tr> <td>uomLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	axisLabels	gml:NCNameList	optional	srsDimension	positiveInteger	optional	srsName	anyURI	optional	uomLabels	gml:NCNameList	optional		
QName	Type	Use																
axisLabels	gml:NCNameList	optional																
srsDimension	positiveInteger	optional																
srsName	anyURI	optional																
uomLabels	gml:NCNameList	optional																

Attribute Group **gml:SRSInformationGroup**

Namespace	http://www.opengis.net/gml/3.2											
Annotations	<p>The attributes uomLabels and axisLabels, defined in the SRSInformationGroup attribute group, are optional additional and redundant information for a CRS to simplify the processing of the coordinate values when a more complete definition of the CRS is not needed. This information shall be the same as included in the complete definition of the CRS, referenced by the srsName attribute. When the srsName attribute is included, either both or neither of the axisLabels and uomLabels attributes shall be included. When the srsName attribute is omitted, both of these attributes shall be omitted. The attribute axisLabels is an ordered list of labels for all the axes of this CRS. The gml:axisAbbrev value should be used for these axis labels, after spaces and forbidden characters are removed. When the srsName attribute is included, this attribute is optional. When the srsName attribute is omitted, this attribute shall also be omitted. The attribute uomLabels is an ordered list of unit of measure (uom) labels for all the axes of this CRS. The value of the string in the gml:catalogSymbol should be used for this uom labels, after spaces and forbidden characters are removed. When the axisLabels attribute is included, this attribute shall also be included. When the uomLabels attribute is omitted, this attribute shall also be omitted.</p>											
Diagram	 <p>The attributes uomLabels and axisLabels, defined in the SRSInformationGroup attribute group, are optional additional...</p>											
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>axisLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> <tr> <td>uomLabels</td> <td>gml:NCNameList</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	axisLabels	gml:NCNameList	optional	uomLabels	gml:NCNameList	optional		
QName	Type	Use										
axisLabels	gml:NCNameList	optional										
uomLabels	gml:NCNameList	optional										

Attribute Group **gml:AggregationAttributeGroup**

Namespace	http://www.opengis.net/gml/3.2		
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Annotations	A GML Object Collection is any GML Object with a property element in its content model whose content model is derived by extension from <code>gml:AbstractMemberType</code> . In addition, the complex type describing the content model of the GML Object Collection may also include a reference to the attribute group <code>gml:AggregationAttributeGroup</code> to provide additional information about the semantics of the object collection. This information may be used by applications to group GML objects, and optionally to order and index them. The allowed values for the <code>aggregationType</code> attribute are defined by <code>gml:AggregationType</code> . See 8.4 of ISO/IEC 11404:1996 for the meaning of the values in the enumeration.						
Diagram							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>aggregationType</code></td> <td><code>gml:AggregationType</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	<code>aggregationType</code>	<code>gml:AggregationType</code>	optional
QName	Type	Use					
<code>aggregationType</code>	<code>gml:AggregationType</code>	optional					

Attribute Group `gml:referenceSystem`

Namespace	http://www.opengis.net/gml/3.2									
Diagram										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td><code>codeSpace</code></td> <td>anyURI</td> <td>optional</td> </tr> <tr> <td><code>uom</code></td> <td><code>gml:UomIdentifier</code></td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	<code>codeSpace</code>	anyURI	optional	<code>uom</code>	<code>gml:UomIdentifier</code>	optional
QName	Type	Use								
<code>codeSpace</code>	anyURI	optional								
<code>uom</code>	<code>gml:UomIdentifier</code>	optional								

Namespace: "<http://www.w3.org/1999/xlink>"

Schema(s)

Imported schema `xlink.xsd`

Namespace	http://www.w3.org/1999/xlink
Annotations	This schema document provides attribute declarations and attribute group, complex type and simple type definitions which can be used in the construction of user schemas to define the structure of particular linking constructs, e.g. <code><xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xl="http://www.w3.org/1999/xlink"> <xs:import namespace="http://www.w3.org/1999/xlink" location="http://www.w3.org/1999/xlink.xsd"> <xs:element name="mySimple"> <xs:complexType> ... <xs:attributeGroup ref="xl:simpleAttrs"/> ... <xs:complexType> </xs:element> ... </xs:schema></code>
Properties	attribute form default: unqualified element form default: unqualified

Element(s)

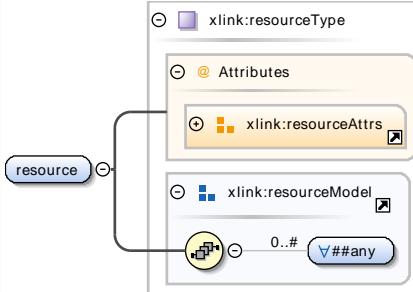
Element `xlink:title`

Namespace	http://www.w3.org/1999/xlink
Diagram	
Type	<code>xlink:titleElType</code>
Properties	content: complex abstract: true

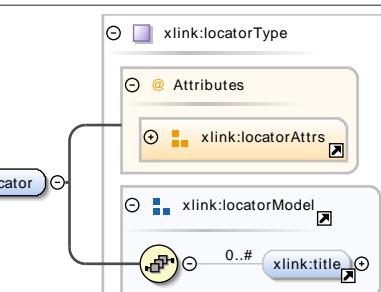
		mixed:	true		
Attributes	QName	Type	Fixed	Use	
	xlink:type	xlink:typeType	title	required	
	xml:lang	union of(xs:language, restriction of xs:string)		optional	

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 RFC 3066 at <http://www.ietf.org/rfc/rfc3066.txt> and the IANA registry at <http://www.iana.org/assignments/lang-tag-apps.htm> for further information. The union allows for the 'un-declaration' of xml:lang with the empty string.

Element **xlink:resource**

Namespace	http://www.w3.org/1999/xlink			
Diagram				
Type	xlink:resourceType			
Properties	content: complex abstract: true mixed: true			
Attributes	QName	Type	Fixed	Use
	xlink:label	xlink:labelType		optional
	xlink:role	xlink:roleType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	resource	required

Element **xlink:locator**

Namespace	http://www.w3.org/1999/xlink			
Diagram				
Type	xlink:locatorType			
Properties	content: complex abstract: true			
Attributes	QName	Type	Fixed	Use
	xlink:href	xlink:hrefType		required
	xlink:label	xlink:labelType		optional
	xlink:role	xlink:roleType		optional
	xlink:title	xlink:titleAttrType		optional

QName	Type	Fixed	Use	
xlink:type	xlink:typeType	locator	required	

Element `xlink:arc`

Namespace	http://www.w3.org/1999/xlink																																			
Diagram	<pre> classDiagram class xlink:arcType { @Attributes +xlink:arcAttrs +xlink:arcModel 0..# xlink:title } </pre>																																			
Type	xlink:arcType																																			
Properties	<p>content: complex</p> <p>abstract: true</p>																																			
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>xlink:actuate</td> <td>xlink:actuateType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:arcrole</td> <td>xlink:arcroleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:from</td> <td>xlink:fromType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:show</td> <td>xlink:showType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:to</td> <td>xlink:toType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>arc</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:from	xlink:fromType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:to	xlink:toType		optional	xlink:type	xlink:typeType	arc	required			
QName	Type	Fixed	Use																																	
xlink:actuate	xlink:actuateType		optional																																	
xlink:arcrole	xlink:arcroleType		optional																																	
xlink:from	xlink:fromType		optional																																	
xlink:show	xlink:showType		optional																																	
xlink:title	xlink:titleAttrType		optional																																	
xlink:to	xlink:toType		optional																																	
xlink:type	xlink:typeType	arc	required																																	

Simple Type(s)

Simple Type `xlink:typeType`

Namespace	http://www.w3.org/1999/xlink	
Diagram	<pre> classDiagram class typeType { --> xs:token } </pre> <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p>	
Type	restriction of xs:token	

Simple Type `xlink:hrefType`

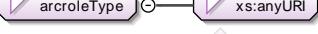
Namespace	http://www.w3.org/1999/xlink	
Diagram	<pre> classDiagram class hrefType { --> xs:anyURI } </pre> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>	
Type	xs:anyURI	

Simple Type `xlink:roleType`

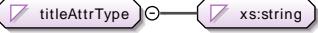
Namespace	http://www.w3.org/1999/xlink	
Diagram	<pre> classDiagram class roleType { --> xs:anyURI } </pre> <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>	

Type	restriction of xs:anyURI
------	--------------------------

Simple Type xlink:arcroleType

Namespace	http://www.w3.org/1999/xlink
Diagram	 <p>Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).</p>
Type	restriction of xs:anyURI

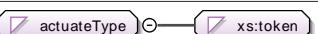
Simple Type xlink:titleAttrType

Namespace	http://www.w3.org/1999/xlink
Diagram	 <p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string

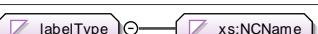
Simple Type xlink:showType

Namespace	http://www.w3.org/1999/xlink
Diagram	 <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p>
Type	restriction of xs:token

Simple Type xlink:actuateType

Namespace	http://www.w3.org/1999/xlink
Diagram	 <p>Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.</p>
Type	restriction of xs:token

Simple Type xlink:labelType

Namespace	http://www.w3.org/1999/xlink
Diagram	 <p>Built-in derived type. NCName represents XML "non-colonized" Names. The base type of NCName is Name.</p>
Type	xs:NCName

Simple Type xlink:fromType

Namespace	http://www.w3.org/1999/xlink
Diagram	 <p>Built-in derived type. NCName represents XML "non-colonized" Names. The base type of NCName is Name.</p>
Type	xs:NCName

Simple Type xlink:toType

Namespace	http://www.w3.org/1999/xlink
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Diagram	<p>Built-in derived type. NCName represents XML "non-colonized" Names. The base type of NCName is Name.</p>
Type	xs:NCName

Complex Type(s)

Complex Type `xlink:simple`

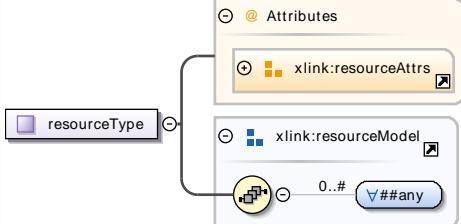
Namespace	http://www.w3.org/1999/xlink			
Annotations	Intended for use as the type of user-declared elements to make them simple links.			
Diagram	<p>Intended for use as the type of user-declared elements to make them simple links.</p>			
Properties	mixed: true			
Attributes	QName	Type	Fixed	Use
	xlink:actuate	xlink:actuateType		optional
	xlink:arcrole	xlink:arcroleType		optional
	xlink:href	xlink:hrefType		optional
	xlink:role	xlink:roleType		optional
	xlink:show	xlink:showType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	simple	optional

Complex Type `xlink:titleElType`

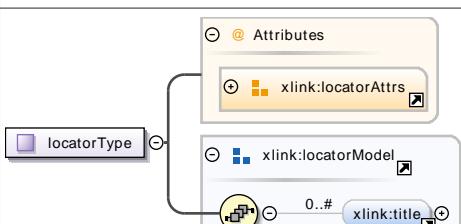
Namespace	http://www.w3.org/1999/xlink			
Diagram				
Properties	mixed: true			
Attributes	QName	Type	Fixed	Use
	xlink:type	xlink:typeType	title	required
	xml:lang	union of(xs:language, restriction of xs:string)		optional
Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going to be a realistic possibility. See RFC 3066 at http://www.ietf.org/rfc/rfc3066.txt and the IANA registry at http://www.iana.org/assignments/lang-tag-apps.htm for further information. The union allows for the 'un-declaration' of xml:lang with the empty string.				

Complex Type `xlink:resourceType`

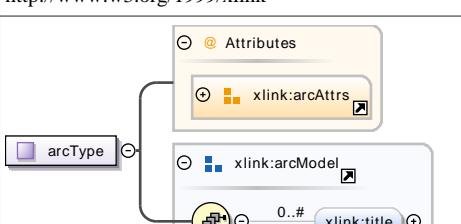
Namespace	http://www.w3.org/1999/xlink			
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Diagram																					
Properties	mixed: true																				
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>xlink:label</td><td>xlink:labelType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>resource</td><td>required</td></tr> </tbody> </table>	QName	Type	Fixed	Use	xlink:label	xlink:labelType		optional	xlink:role	xlink:roleType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	resource	required
QName	Type	Fixed	Use																		
xlink:label	xlink:labelType		optional																		
xlink:role	xlink:roleType		optional																		
xlink:title	xlink:titleAttrType		optional																		
xlink:type	xlink:typeType	resource	required																		

Complex Type xlink:locatorType

Namespace	http://www.w3.org/1999/xlink																								
Diagram																									
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>xlink:href</td><td>xlink:hrefType</td><td></td><td>required</td></tr> <tr> <td>xlink:label</td><td>xlink:labelType</td><td></td><td>optional</td></tr> <tr> <td>xlink:role</td><td>xlink:roleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>locator</td><td>required</td></tr> </tbody> </table>	QName	Type	Fixed	Use	xlink:href	xlink:hrefType		required	xlink:label	xlink:labelType		optional	xlink:role	xlink:roleType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	locator	required
QName	Type	Fixed	Use																						
xlink:href	xlink:hrefType		required																						
xlink:label	xlink:labelType		optional																						
xlink:role	xlink:roleType		optional																						
xlink:title	xlink:titleAttrType		optional																						
xlink:type	xlink:typeType	locator	required																						

Complex Type xlink:arcType

Namespace	http://www.w3.org/1999/xlink																																
Diagram																																	
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Use</th></tr> </thead> <tbody> <tr> <td>xlink:actuate</td><td>xlink:actuateType</td><td></td><td>optional</td></tr> <tr> <td>xlink:arcrole</td><td>xlink:arcroleType</td><td></td><td>optional</td></tr> <tr> <td>xlink:from</td><td>xlink:fromType</td><td></td><td>optional</td></tr> <tr> <td>xlink:show</td><td>xlink:showType</td><td></td><td>optional</td></tr> <tr> <td>xlink:title</td><td>xlink:titleAttrType</td><td></td><td>optional</td></tr> <tr> <td>xlink:to</td><td>xlink:toType</td><td></td><td>optional</td></tr> <tr> <td>xlink:type</td><td>xlink:typeType</td><td>arc</td><td>required</td></tr> </tbody> </table>	QName	Type	Fixed	Use	xlink:actuate	xlink:actuateType		optional	xlink:arcrole	xlink:arcroleType		optional	xlink:from	xlink:fromType		optional	xlink:show	xlink:showType		optional	xlink:title	xlink:titleAttrType		optional	xlink:to	xlink:toType		optional	xlink:type	xlink:typeType	arc	required
QName	Type	Fixed	Use																														
xlink:actuate	xlink:actuateType		optional																														
xlink:arcrole	xlink:arcroleType		optional																														
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xlink:show	xlink:showType		optional																														
xlink:title	xlink:titleAttrType		optional																														
xlink:to	xlink:toType		optional																														
xlink:type	xlink:typeType	arc	required																														

Complex Type xlink:extended

Namespace	http://www.w3.org/1999/xlink
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Annotations	Intended for use as the type of user-declared elements to make them extended links. Note that the elements referenced in the content model are all abstract. The intention is that by simply declaring elements with these as their substitutionGroup, all the right things will happen.																
Diagram	<pre> classDiagram class extended { <<Intended for use as the type of user-declared elements to make them extended links. Note that the elements referenced...>> } class Attributes { <<@ Attributes>> <<xlink:extendedAttrs>> } class xlink { <<xlink:extendedModel>> <<xlink:title>> <<xlink:resource>> <<xlink:locator>> <<xlink:arc>> } extended < -- xlink:extendedModel Attributes < -- xlink:extendedAttrs </pre>																
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>xlink:role</td> <td>xlink:roleType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:title</td> <td>xlink:titleAttrType</td> <td></td> <td>optional</td> </tr> <tr> <td>xlink:type</td> <td>xlink:typeType</td> <td>extended</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Fixed	Use	xlink:role	xlink:roleType		optional	xlink:title	xlink:titleAttrType		optional	xlink:type	xlink:typeType	extended	required
QName	Type	Fixed	Use														
xlink:role	xlink:roleType		optional														
xlink:title	xlink:titleAttrType		optional														
xlink:type	xlink:typeType	extended	required														

Attribute(s)

Attribute @xlink:type

Namespace	http://www.w3.org/1999/xlink
Type	xlink:typeType
Properties	content: simple

Attribute @xlink:href

Namespace	http://www.w3.org/1999/xlink
Type	xlink:hrefType
Properties	content: simple

Attribute @xlink:role

Namespace	http://www.w3.org/1999/xlink
Type	xlink:roleType
Properties	content: simple

Attribute @xlink:arcrole

Namespace	http://www.w3.org/1999/xlink
Type	xlink:arcroleType
Properties	content: simple

Attribute @xlink:title

Namespace	http://www.w3.org/1999/xlink
Type	xlink:titleAttrType
Properties	content: simple

Attribute @xlink:show

Namespace	http://www.w3.org/1999/xlink
Type	xlink:showType

Properties	content: simple
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Attribute @xlink:actuate

Namespace	http://www.w3.org/1999/xlink
Type	xlink:actuateType
Properties	content: simple

Attribute @xlink:label

Namespace	http://www.w3.org/1999/xlink
Type	xlink:labelType
Properties	content: simple

Attribute @xlink:from

Namespace	http://www.w3.org/1999/xlink
Type	xlink:fromType
Properties	content: simple

Attribute @xlink:to

Namespace	http://www.w3.org/1999/xlink
Type	xlink:toType
Properties	content: simple

Element Group(s)

Element Group xlink:simpleModel

Namespace	http://www.w3.org/1999/xlink
Diagram	

Element Group xlink:extendedModel

Namespace	http://www.w3.org/1999/xlink
Diagram	

Element Group xlink:titleModel

Namespace	http://www.w3.org/1999/xlink
Diagram	

Element Group xlink:resourceModel

Namespace	http://www.w3.org/1999/xlink
Diagram	

Element Group xlink:locatorModel

Namespace	http://www.w3.org/1999/xlink
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Element Group xlink:arcModel

Namespace	http://www.w3.org/1999/xlink
Diagram	

Attribute Group(s)

Attribute Group xlink:simpleAttrs

Namespace	http://www.w3.org/1999/xlink				
Diagram					
Attributes	QName	Type	Fixed	Use	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:href	xlink:hrefType		optional	
	xlink:role	xlink:roleType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	simple	optional	

Attribute Group xlink:extendedAttrs

Namespace	http://www.w3.org/1999/xlink				
Diagram					
Attributes	QName	Type	Fixed	Use	
	xlink:role	xlink:roleType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:type	xlink:typeType	extended	required	

Attribute Group xlink:titleAttrs

Namespace	http://www.w3.org/1999/xlink				
Diagram					
Attributes	QName	Type	Fixed	Use	
	xlink:type	xlink:typeType	title	required	

QName	Type	Fixed	Use	
xml:lang	union of(xs:language, restriction of xs:string)		optional	
	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 RFC 3066 at http://www.ietf.org/rfc/rfc3066.txt and the IANA registry at http://www.iana.org/assignments/lang-tag-apps.htm for further information. The union allows for the 'un-declaration' of xml:lang with the empty string.			

Attribute Group **xlink:resourceAttrs**

Namespace	http://www.w3.org/1999/xlink			
Diagram	<pre> graph TD resourceAttrs[xlink:resourceAttrs] --> typeAttr[@xlink:type] resourceAttrs --> roleAttr[@xlink:role] resourceAttrs --> titleAttr[@xlink:title] resourceAttrs --> labelAttr[@xlink:label] </pre>			
Attributes	QName	Type	Fixed	Use
	xlink:label	xlink:labelType		optional
	xlink:role	xlink:roleType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	resource	required

Attribute Group **xlink:locatorAttrs**

Namespace	http://www.w3.org/1999/xlink			
Diagram	<pre> graph TD locatorAttrs[xlink:locatorAttrs] --> typeAttr[@xlink:type] locatorAttrs --> hrefAttr[@xlink:href] locatorAttrs --> roleAttr[@xlink:role] locatorAttrs --> titleAttr[@xlink:title] locatorAttrs --> labelAttr[@xlink:label] </pre> <p>label is not required, but locators have no particular XLink function if they are not labeled.</p>			
Attributes	QName	Type	Fixed	Use
	xlink:href	xlink:hrefType		required
	xlink:label	xlink:labelType		optional
	xlink:role	xlink:roleType		optional
	xlink:title	xlink:titleAttrType		optional
	xlink:type	xlink:typeType	locator	required

Attribute Group **xlink:arcAttrs**

Namespace	http://www.w3.org/1999/xlink			
Diagram	<pre> graph TD arcAttrs[xlink:arcAttrs] --> typeAttr[@xlink:type] arcAttrs --> arcroleAttr[@xlink:arcrole] arcAttrs --> titleAttr[@xlink:title] arcAttrs --> showAttr[@xlink:show] arcAttrs --> actuateAttr[@xlink:actuate] arcAttrs --> fromAttr[@xlink:from] arcAttrs --> toAttr[@xlink:to] </pre> <p>from and to have default behavior when values are missing</p>			
Attributes	QName	Type	Fixed	Use
	xlink:type	xlink:typeType		
	xlink:arcrole	xlink:arcroleType		
	xlink:title	xlink:titleAttrType		
	xlink:show	xlink:showType		
	xlink:actuate	xlink:actuateType		
	xlink:from	xlink:fromType		
	xlink:to	xlink:toType		

Attributes	QName	Type	Fixed	Use	
	xlink:actuate	xlink:actuateType		optional	
	xlink:arcrole	xlink:arcroleType		optional	
	xlink:from	xlink:fromType		optional	
	xlink:show	xlink:showType		optional	
	xlink:title	xlink:titleAttrType		optional	
	xlink:to	xlink:toType		optional	
	xlink:type	xlink:typeType	arc	required	

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

Schema(s)

Imported schema `xml.xsd`

Namespace	http://www.w3.org/XML/1998/namespace
Annotations	<p>See http://www.w3.org/XML/1998/namespace.html and http://www.w3.org/TR/REC-xml for information about this namespace. This schema document describes the XML namespace, in a form suitable for import by other schema documents. Note that local names in this namespace are intended to be defined only by the World Wide Web Consortium or its subgroups. The following names are currently defined in this namespace and should not be used with conflicting semantics by any Working Group, specification, or document instance: 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. 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. 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. 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. 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</p> <p>This schema defines attributes and an attribute group suitable for use by schemas wishing to allow <code>xml:base</code>, <code>xml:lang</code>, <code>xml:space</code> or <code>xml:id</code> attributes on elements they define. To enable this, such a schema must import this schema for the XML namespace, e.g. as follows: <code><schema ...> ... <import namespace="http://www.w3.org/XML/1998/namespace" schemaLocation="http://www.w3.org/2001/xml.xsd"/></code> Subsequently, qualified reference to any of the attributes or the group defined below will have the desired effect, e.g. <code><type ...> ... <attributeGroup ref="xml:specialAttrs"/></code> will define a type which will schema-validate an instance element with any of those attributes</p> <p>In keeping with the XML Schema WG's standard versioning policy, this schema document will persist at http://www.w3.org/2007/08/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/2007/08/xml.xsd will not change.</p>
Properties	<p>attribute form default: unqualified</p> <p>element form default: unqualified</p>

Attribute(s)

Attribute `@xml:lang`

Namespace	http://www.w3.org/XML/1998/namespace
Annotations	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 RFC 3066 at http://www.ietf.org/rfc/rfc3066.txt and the IANA registry at http://www.iana.org/assignments/lang-tag-apps.htm for further information. The union allows for the 'un-declaration' of <code>xml:lang</code> with the empty string.
Type	union of(xs:language, restriction of xs:string)
Properties	content: simple

Attribute `@xml:space`

Namespace	http://www.w3.org/XML/1998/namespace
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Type	restriction of xs:NCName
Properties	content: simple

Attribute @xml:base

Namespace	http://www.w3.org/XML/1998/namespace
Annotations	See http://www.w3.org/TR/xmlbase/ for information about this attribute.
Type	xs:anyURI
Properties	content: simple

Attribute @xml:id

Namespace	http://www.w3.org/XML/1998/namespace
Annotations	See http://www.w3.org/TR/xml-id/ for information about this attribute.
Type	xs:ID
Properties	content: simple

Attribute Group(s)

Attribute Group xml:specialAttrs

Namespace	http://www.w3.org/XML/1998/namespace																																		
Diagram																																			
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>xml:base</td> <td>xs:anyURI</td> <td>optional</td> <td></td> </tr> <tr> <td></td> <td colspan="3">See http://www.w3.org/TR/xmlbase/ for information about this attribute.</td></tr> <tr> <td>xml:id</td> <td>xs:ID</td> <td>optional</td> <td></td> </tr> <tr> <td></td> <td colspan="3">See http://www.w3.org/TR/xml-id/ for information about this attribute.</td></tr> <tr> <td>xml:lang</td> <td>union of(xs:language, restriction of xs:string)</td> <td>optional</td> <td></td> </tr> <tr> <td></td> <td colspan="3">Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going...</td></tr> <tr> <td>xml:space</td> <td>restriction of xs:NCName</td> <td>optional</td> <td></td> </tr> </tbody> </table>			QName	Type	Use		xml:base	xs:anyURI	optional			See http://www.w3.org/TR/xmlbase/ for information about this attribute.			xml:id	xs:ID	optional			See http://www.w3.org/TR/xml-id/ for information about this attribute.			xml:lang	union of(xs:language, restriction of xs:string)	optional			Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going...			xml:space	restriction of xs:NCName	optional	
QName	Type	Use																																	
xml:base	xs:anyURI	optional																																	
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xml:lang	union of(xs:language, restriction of xs:string)	optional																																	
	Attempting to install the relevant ISO 2- and 3-letter codes as the enumerated possible values is probably never going...																																		
xml:space	restriction of xs:NCName	optional																																	

Namespace: "http://www.apiisim.fr/common/1.0/site"

Schema(s)

Imported schema site.xsd

Namespace	http://www.apiisim.fr/common/1.0/site
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Properties	attribute form default: unqualified element form default: unqualified version: 0.10
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Complex Type(s)

Complex Type TripStopPlaceType

Namespace	http://www.apiisim.fr/common/1.0/site												
Annotations	Structure qui décrit un point de passage générique sur l'itinéraire (adresse, arrêt, commune, etc...) ainsi que la relation hiérarchique avec un autre point de passage.												
Diagram													
Type	extension of PlaceType												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>required</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Identifiant du point de passage</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		id	xs:string	required				Identifiant du point de passage	
QName	Type	Use											
id	xs:string	required											
		Identifiant du point de passage											

Complex Type PlaceType

Namespace	http://www.apiisim.fr/common/1.0/site
Annotations	Structure qui décrit un point de passage générique sur l'itinéraire (adresse, arrêt, commune, etc...). Cette structure ne décrit pas de relation hiérarchique avec d'autres points de passage.

Diagram													
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> <th></th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>required</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Identifier du point de passage</td> <td></td> </tr> </tbody> </table>	QName	Type	Use		id	xs:string	required				Identifier du point de passage	
QName	Type	Use											
id	xs:string	required											
		Identifier du point de passage											

Complex Type PlaceTypeExtensionType

Namespace	http://www.apiiim.fr/common/1.0/site
Diagram	

Namespace: "http://www.netex.org.uk/netex"

Schema(s)

Imported schema PublicationDeliverySimplified.xsd

Namespace	http://www.netex.org.uk/netex
Properties	attribute form default: unqualified element form default: qualified

Element(s)

Element LocationStructure / Longitude

Namespace	http://www.netex.org.uk/netex
Diagram	

Element LocationStructure / Latitude

Namespace	http://www.netex.org.uk/netex
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Diagram

Latitude

Element PublicationDeliveryType / dataObjects

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR dataObjects((dataObjects)) -- "0..1" --> frameValidityConditions((frameValidityConditions)) frameValidityConditions -- "0..1" --> CompositeFrame((CompositeFrame)) </pre>
Properties	content: complex minOccurs: 0

Element PublicationDeliveryType / dataObjects / frameValidityConditions

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR frameValidityConditions((frameValidityConditions)) -- "0..1" --> SimpleValidityCondition((SimpleValidityCondition)) SimpleValidityCondition -- "0..1" --> CompositeFrame((CompositeFrame)) </pre>
Properties	content: complex minOccurs: 0

Element PublicationDeliveryType / dataObjects / frameValidityConditions / SimpleValidityCondition

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR SimpleValidityCondition((SimpleValidityCondition)) -- "0..1" --> FromDate((FromDate)) SimpleValidityCondition -- "0..1" --> ToDate((ToDate)) FromDate -- "0..1" --> CompositeFrame((CompositeFrame)) ToDate -- "0..1" --> CompositeFrame </pre>
Properties	content: complex

Element PublicationDeliveryType / dataObjects / frameValidityConditions / SimpleValidityCondition / FromDate

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR FromDate((FromDate)) -- "0..1" --> xsdateTime(xs:dateTime) </pre> <p>Built-in primitive type. The dateTime datatype represents a specific instant of time.</p>
Type	xs:dateTime
Properties	content: simple

Element PublicationDeliveryType / dataObjects / frameValidityConditions / SimpleValidityCondition / ToDate

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR ToDate((ToDate)) -- "0..1" --> xsdateTime(xs:dateTime) </pre> <p>Built-in primitive type. The dateTime datatype represents a specific instant of time.</p>
Type	xs:dateTime
Properties	content: simple

Element PublicationDeliveryType / dataObjects / CompositeFrame

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR CompositeFrame((CompositeFrame)) -- "0..1" --> frames(frames) </pre>

Properties	content:	complex
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Element PublicationDeliveryType / dataObjects / CompositeFrame / frames

Namespace	http://www.netex.org.uk/netex
Diagram	
Properties	content: complex

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame

Namespace	http://www.netex.org.uk/netex
Diagram	
Properties	content: complex

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces

Namespace	http://www.netex.org.uk/netex
Diagram	
Properties	content: complex

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces / StopPlace

Namespace	http://www.netex.org.uk/netex								
Diagram									
Properties	content: complex maxOccurs: unbounded								
Attributes	<table border="1"> <tr> <td>QName</td> <td>Type</td> <td>Use</td> <td></td> </tr> <tr> <td>id</td> <td>xs:normalizedString</td> <td>required</td> <td></td> </tr> </table>	QName	Type	Use		id	xs:normalizedString	required	
QName	Type	Use							
id	xs:normalizedString	required							

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces / StopPlace / ParentZoneRef

Namespace	http://www.netex.org.uk/netex
Diagram	
Type	xs:normalizedString
Properties	content: simple minOccurs: 0

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces / StopPlace / placeTypes

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR placeTypes((placeTypes)) -- "0..1" --> TypeOfPlaceRef((TypeOfPlaceRef)) </pre>
Properties	content: complex minOccurs: 0

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces / StopPlace / placeTypes / TypeOfPlaceRef

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR TypeOfPlaceRef((TypeOfPlaceRef)) -- "0..1" --> xsString(xs:normalizedString) </pre> <p>Built-in derived type. The normalizedString datatype represents white space normalized strings. The base type of...</p>
Type	xs:normalizedString
Properties	content: simple minOccurs: 1 maxOccurs: 1

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces / StopPlace / quays

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> graph LR quays((quays)) -- "1..#" --> Quay((Quay)) </pre>
Properties	content: complex minOccurs: 0

Element PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces / StopPlace / quays / Quay

Namespace	http://www.netex.org.uk/netex
Diagram	<pre> classDiagram class QuayType { @ QuayType @ Attributes @ id @ version Name Description PrivateCode Centroid PostalAddress TransportMode QuayType } Quay < -- QuayType </pre>
Type	QuayType
Properties	content: complex maxOccurs: unbounded

Attributes	QName	Type	Use
	id	xs:NMTOKEN	required
	version	xs:integer	required

Element QuayType / Name

Namespace	http://www.netex.org.uk/netex
Diagram	<p>Built-in derived type. The normalizedString datatype represents white space normalized strings. The base type of...</p>
Type	xs:normalizedString
Properties	content: simple

Element QuayType / Description

Namespace	http://www.netex.org.uk/netex
Diagram	<p>Built-in derived type. The normalizedString datatype represents white space normalized strings. The base type of...</p>
Type	xs:normalizedString
Properties	content: simple

Element QuayType / PrivateCode

Namespace	http://www.netex.org.uk/netex
Diagram	<p>Built-in derived type. The normalizedString datatype represents white space normalized strings. The base type of...</p>
Type	xs:normalizedString
Properties	content: simple

Element QuayType / Centroid

Namespace	http://www.netex.org.uk/netex
Diagram	
Properties	content: complex

Element QuayType / Centroid / Location

Namespace	http://www.netex.org.uk/netex
Diagram	
Type	LocationStructure
Properties	content: complex

Element QuayType / PostalAddress

Namespace	http://www.netex.org.uk/netex
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Diagram													
Properties	<p>content: complex</p> <p>minOccurs: 0</p>												
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>created</td> <td>xs:dateTime</td> <td>optional</td> </tr> <tr> <td>id</td> <td>xs:normalizedString</td> <td>optional</td> </tr> <tr> <td>version</td> <td>xs:normalizedString</td> <td>optional</td> </tr> </tbody> </table>	QName	Type	Use	created	xs:dateTime	optional	id	xs:normalizedString	optional	version	xs:normalizedString	optional
QName	Type	Use											
created	xs:dateTime	optional											
id	xs:normalizedString	optional											
version	xs:normalizedString	optional											

Element QuayType / PostalAddress / CountryRef

Namespace	http://www.netex.org.uk/netex								
Diagram									
Properties	<p>content: complex</p> <p>minOccurs: 0</p>								
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>ref</td> <td>xs:normalizedString</td> <td>required</td> </tr> </tbody> </table>			QName	Type	Use	ref	xs:normalizedString	required
QName	Type	Use							
ref	xs:normalizedString	required							

Element QuayType / PostalAddress / AddressLine1

Namespace	http://www.netex.org.uk/netex		
Diagram			
Type	xs:string		
Properties	<p>content: simple</p> <p>minOccurs: 0</p>		

Element QuayType / PostalAddress / PostCode

Namespace	http://www.netex.org.uk/netex		
Diagram			
Type	xs:string		
Properties	content: simple		

Element QuayType / TransportMode

Namespace	http://www.netex.org.uk/netex		
Diagram			

Type	VehicleModeEnumeration
Properties	content: simple minOccurs: 0

Element QuayType / QuayType

Namespace	http://www.netex.org.uk/netex
Diagram	
Type	QuayTypeEnumeration
Properties	content: simple minOccurs: 0

Complex Type(s)

Complex Type LocationStructure

Namespace	http://www.netex.org.uk/netex
Diagram	

Complex Type PublicationDeliveryType

Namespace	http://www.netex.org.uk/netex						
Diagram							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>version</td> <td>xs:NMTOKEN</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	version	xs:NMTOKEN	required
QName	Type	Use					
version	xs:NMTOKEN	required					

Complex Type QuayType

Namespace	http://www.netex.org.uk/netex						
Diagram							
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:NMTOKEN</td> <td>required</td> </tr> </tbody> </table>	QName	Type	Use	id	xs:NMTOKEN	required
QName	Type	Use					
id	xs:NMTOKEN	required					

QName	Type	Use
version	xs:integer	required

Simple Type(s)

Simple Type AccessModeEnumeration

Namespace	http://www.netex.org.uk/netex
Annotations	Allowed values for Access MODEs for SITES.
Diagram	
Type	restriction of xs:string

Simple Type vehicleModeEnumeration

Namespace	http://www.netex.org.uk/netex
Annotations	Allowed values for MODEs of Public Transport applicable to timetabled public transport.
Diagram	
Type	restriction of xs:NMTOKEN

Simple Type QuayTypeEnumeration

Namespace	http://www.netex.org.uk/netex
Annotations	Allowed values for QUAY Component Types.
Diagram	
Type	restriction of xs:string

Namespace: "http://www.apiisim.fr/common/1.0/itinerary-request"

Schema(s)

Imported schema ItineraryRequest.xsd

Namespace	http://www.apiisim.fr/common/1.0/itinerary-request
Properties	attribute form default: unqualified element form default: unqualified version: 0.10

Complex Type(s)

Complex Type LocationPointType

Namespace	http://www.apiisim.fr/common/1.0/itinerary-request
Annotations	Structure décrivant un point de départ ou de destination pour un calcul d'itinéraire
Diagram	

Complex Type SelfDriveConditionType

Namespace	http://www.apiisim.fr/common/1.0/itinerary-request
Annotations	Structure qui décrit dans quelle mesure le voyageur peut envisager un rabattement d'un mode vélo ou voiture (au un autre mode pour lequel le voyageur assure lui-même son déplacement) vers un mode de transport collectif.
Diagram	

Simple Type(s)

Simple Type AlgorithmTypeEnumeration

Namespace	http://www.apiisim.fr/common/1.0/itinerary-request
Annotations	Type d'optimisation pour le calcul d'itinéraires
Diagram	
Type	restriction of xs:string

Element Group(s)

Element Group ItineraryRequestParametersGroup

Namespace	http://www.apiisim.fr/common/1.0/itinerary-request
Annotations	Groupe de critères pour une recherche d'itinéraire
Diagram	

Namespace: "http://www.apiisim.fr/mis-generic/1.0/location-time"

Schema(s)

Imported schema MisLocationTime.xsd

Namespace	http://www.apiisim.fr/mis-generic/1.0/location-time
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Properties	attribute form default: unqualified element form default: qualified
------------	--

Element(s)

Element LocationContextType / AccessTime

Namespace	http://www.apiiSIM.fr/mis-generic/1.0/location-time
Annotations	Temps d'accès au point de départ (ou destination)
Diagram	<p>Temps d'accès au point de départ (ou destination)</p> <p>Built-in primitive type. The duration datatype represents a duration of time.</p>
Type	xs:duration
Properties	content: simple

Complex Type(s)

Complex Type LocationContextType

Namespace	http://www.apiiSIM.fr/mis-generic/1.0/location-time
Annotations	Structure décrivant un point de départ ou destination d'itinéraire. Lorsque la position est décrite par une référence (PlaceTypeId) cela suppose qu'elle ait été fournie par le service de collecte des arrêts du SIM auquel s'adresse la recherche.
Diagram	<p>Structure décrivant un point de départ ou destination d'itinéraire. Lorsque la position est décrite par une référence...</p> <p>Structure décrivant un point de départ ou de destination pour un calcul d'itinéraire</p> <p>Temps d'accès au point de départ (ou destination)</p>
Type	extension of LocationPointType

Namespace: ""

Element(s)

Element LocationPointType / PlaceTypeId

Namespace	No namespace
Annotations	Identifiant de lieu d'arrêt (n'importe identifiant de PlaceType proposé en réponse de SearchPointsNotificationResponse)
Diagram	<p>Identifiant de lieu d'arrêt (n'importe identifiant de PlaceType proposé en réponse de SearchPointsNotificationResponse)</p>

Element LocationPointType / Position

Namespace	No namespace
Annotations	Position géographique

Diagram	
Type	LocationStructure
Properties	content: complex

Element ItineraryRequestParametersGroup / DepartureTime

Namespace	No namespace
Annotations	Date et heure pour un départ au plus tard
Diagram	<p>DepartureTime → xs:dateTime</p> <p>Date et heure pour un départ au plus tard</p> <p>Built-in primitive type. The dateTime datatype represents a specific instant of time.</p>
Type	xs:dateTime
Properties	content: simple

Element ItineraryRequestParametersGroup / ArrivalTime

Namespace	No namespace
Annotations	Date et heure pour une arrivée au plus tôt
Diagram	<p>ArrivalTime → xs:dateTime</p> <p>Date et heure pour une arrivée au plus tôt</p> <p>Built-in primitive type. The dateTime datatype represents a specific instant of time.</p>
Type	xs:dateTime
Properties	content: simple

Element ItineraryRequestParametersGroup / Algorithm

Namespace	No namespace
Annotations	Sélection d'un algorithme de recherche
Diagram	<p>Algorithm → AlgorithmTypeEnumeration</p> <p>Selection d'un algorithme de recherche</p>
Type	restriction of AlgorithmTypeEnumeration
Properties	<p>content: simple</p> <p>minOccurs: 0</p>

Element ItineraryRequestParametersGroup / modes

Namespace	No namespace
Annotations	Mode de transport souhaité
Diagram	<p>modes → itinerary:TransportModeEnumeration</p> <p>Mode de transport souhaité</p> <p>Enumeration des modes de transport</p>
Type	TransportModeEnumeration
Properties	<p>content: simple</p> <p>minOccurs: 0</p>

maxOccurs:	unbounded
------------	-----------

Element **ItineraryRequestParametersGroup / selfDriveConditions**

Namespace	No namespace						
Annotations	Liste des contraintes à respecter pour les éventuels rabattements sur des modes où le voyageur assume son déplacement (orientation et moyen de transport éventuel).						
Diagram	<pre> graph LR SDCT[SelfDriveConditionType] --> SDM[SelfDriveMode] SDCT --> TP[TripPart] SDM --- Note1[Mode de transport pour le rabattement] TP --- Note2[Position du rabattement par rapport au trajet global] Note3[Structure qui décrit dans quelle mesure le voyageur peut envisager un rabattement d'un mode vélo ou voiture (au un...)] --- SDCT </pre>						
Type	SelfDriveConditionType						
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>unbounded</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	unbounded
content:	complex						
minOccurs:	0						
maxOccurs:	unbounded						

Element **SelfDriveConditionType / SelfDriveMode**

Namespace	No namespace		
Annotations	Mode de transport pour le rabattement		
Diagram	<pre> graph LR SDM[SelfDriveMode] --> AME[AccessModeEnumeration] Note1[Mode de transport pour le rabattement] --- SDM Note2[Allowed values for Access MODEs for SITEs.] --- AME </pre>		
Type	AccessModeEnumeration		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> </table>	content:	simple
content:	simple		

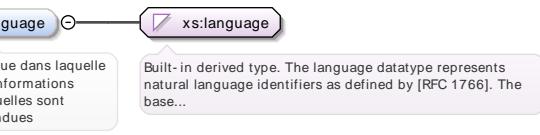
Element **SelfDriveConditionType / TripPart**

Namespace	No namespace				
Annotations	Position du rabattement par rapport au trajet global				
Diagram	<pre> graph LR TP[TripPart] --> TPE[TripPartEnumeration] Note1[Position du rabattement par rapport au trajet global] --- TP Note2[Début ou fin d'itinéraire] --- TPE </pre>				
Type	TripPartEnumeration				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				

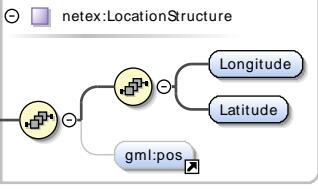
Element **ItineraryRequestParametersGroup / AccessibilityConstraint**

Namespace	No namespace				
Annotations	Indicateur pour exiger l'accessibilité des solutions d'itinéraire proposées				
Diagram	<pre> graph LR AC[AccessibilityConstraint] --> XB[xs:boolean] Note1[Indicateur pour exiger l'accessibilité des solutions d'itinéraire proposées] --- AC Note2[Built-in primitive type. It defines the boolean values true and false.] --- XB </pre>				
Type	xs:boolean				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

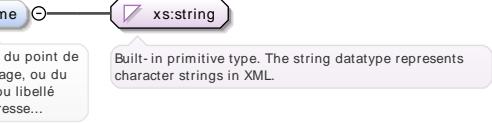
Element **ItineraryRequestParametersGroup / Language**

Namespace	No namespace				
Annotations	Langue dans laquelle les informations textuelles sont attendues				
Diagram					
Type	xs:language				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

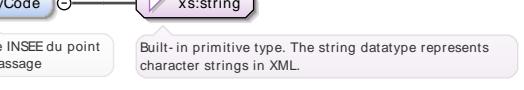
Element **PlaceType / Position**

Namespace	No namespace				
Annotations	Position géographique du point de passage				
Diagram					
Type	LocationStructure				
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	complex	minOccurs:	0
content:	complex				
minOccurs:	0				

Element **PlaceType / Name**

Namespace	No namespace				
Annotations	Nom du point de passage, ou du POI ou libellé d'adresse...				
Diagram					
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element **PlaceType / CityCode**

Namespace	No namespace				
Annotations	Code INSEE du point de passage				
Diagram					
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element **PlaceType / CityName**

Namespace	No namespace
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Annotations	Nom de la commune où se situe le point de passage
Diagram	<p>CityName (xs:string) Nom de la commune où se situe le point de passage Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

Element PlaceType / POITypeName

Namespace	No namespace
Annotations	Catégorie de POI, lorsque le lieu décrit un POI
Diagram	<p>POITypeName (xs:string) Catégorie de POI, lorsque le lieu décrit un POI Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

Element PlaceType / Language

Namespace	No namespace
Annotations	Langue utilisée pour l'ensemble des informations textuelles
Diagram	<p>Language (xs:string) Langue utilisée pour l'ensemble des informations textuelles Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

Element PlaceType / TypeOfPlaceRef

Namespace	No namespace
Annotations	Référence Netex du type de lieu
Diagram	<p>TypeOfPlaceRef (xs:string) Référence Netex du type de lieu Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	xs:string
Properties	content: simple

Element PlaceType / Extension

Namespace	No namespace
Diagram	<p>Extension (PlaceTypeExtensionType)</p>
Type	PlaceTypeExtensionType
Properties	content: complex minOccurs: 0

Element **TripStopPlaceType / Parent**

Namespace	No namespace									
Annotations	Référence vers le lieu de niveau hiérarchique supérieur									
Diagram	<pre> classDiagram class PlaceType { @id Position Name CityCode CityName POITypeName Language TypeOfPlaceRef Extension } PlaceType "1" -- "0..1" Parent : Parent note over PlaceType: Structure qui décrit un point de passage générique sur l'itinéraire (adresse, arrêt, commune, etc...). Cette structure... </pre>									
Type	PlaceType									
Properties	<p>content: complex</p> <p>minOccurs: 0</p>									
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>required</td> </tr> <tr> <td></td> <td></td> <td>Identifiant du point de passage</td> </tr> </tbody> </table>	QName	Type	Use	id	xs:string	required			Identifiant du point de passage
QName	Type	Use								
id	xs:string	required								
		Identifiant du point de passage								

Attribute(s)

Attribute **AbstractRequestType / @id**

Namespace	No namespace
Annotations	Identifiant de la structure de requête. Cet identifiant est fourni par le client du service. L'identifiant est rappelé dans la ou les réponses du service (sous forme d'élément RequestId).
Type	xs:string
Properties	content: simple

Attribute **ServiceDefaultsType / geographicOverviewFormats / GeographicOverviewFormat / @default**

Namespace	No namespace
Annotations	Indique s'il s'agit du format par défaut dans l'ensemble de la réponse du service

Type	xs:boolean
Properties	content: simple

Attribute PlaceType / @id

Namespace	No namespace
Annotations	Identifiant du point de passage
Type	xs:string
Properties	use: required

Attribute LineType / @id

Namespace	No namespace
Annotations	Identifiant de la ligne
Type	xs:string
Properties	content: simple

Attribute LineType / @companyRef

Namespace	No namespace
Annotations	Identifiant du transporteur de la ligne (inutile si la structure Company est fournie)
Type	xs:string
Properties	content: simple

Attribute LineType / @ptNetworkRef

Namespace	No namespace
Annotations	Identifiant du réseau de la ligne (inutile si la structure ptNetwork est fournie)
Type	xs:string
Properties	content: simple

Attribute LineType / @groupOfLineRef

Namespace	No namespace
Annotations	Identifiant du groupe de ligne associé à la ligne (inutile si la structure GroupOfLine est fournie)
Type	xs:string
Properties	content: simple

Attribute GroupOfLineType / @id

Namespace	No namespace
Annotations	Identifiant du groupe de ligne
Type	xs:string
Properties	content: simple

Attribute PTNetworkType / @id

Namespace	No namespace
Annotations	Identifiant du réseau de transport
Type	xs:string
Properties	content: simple

Attribute CompanyType / @id

Namespace	No namespace
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Annotations	Identifiant du transporteur
Type	xs:string
Properties	content: simple

Attribute `gml:AssociationAttributeGroup` / `@nilReason`

Namespace	No namespace
Type	gml:NilReasonType
Properties	content: simple

Attribute `gml:MetaDataPropertyType` / `@about`

Namespace	No namespace
Type	anyURI
Properties	content: simple

Attribute `gml:OwnershipAttributeGroup` / `@owns`

Namespace	No namespace
Type	boolean
Properties	default: false

Attribute `gml:CodeType` / `@codeSpace`

Namespace	No namespace
Type	anyURI
Properties	content: simple

Attribute `gml:CodeWithAuthorityType` / `@codeSpace`

Namespace	No namespace
Type	anyURI
Properties	use: required

Attribute `gml:SRSReferenceGroup` / `@srsName`

Namespace	No namespace
Type	anyURI
Properties	content: simple

Attribute `gml:SRSReferenceGroup` / `@srsDimension`

Namespace	No namespace
Type	positiveInteger
Properties	content: simple

Attribute `gml:SRSInformationGroup` / `@axisLabels`

Namespace	No namespace
Type	gml:NCNameList
Properties	content: simple

Attribute `gml:SRSInformationGroup` / `@uomLabels`

Namespace	No namespace
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Type	gml:NCNameList
Properties	content: simple

Attribute gml:CoordinatesType / @decimal

Namespace	No namespace
Type	string
Properties	default: .

Attribute gml:CoordinatesType / @cs

Namespace	No namespace
Type	string
Properties	default: ,

Attribute gml:CoordinatesType / @ts

Namespace	No namespace
Type	string
Properties	default: :

Attribute gml:DirectPositionListType / @count

Namespace	No namespace
Type	positiveInteger
Properties	content: simple

Attribute StepType / @id

Namespace	No namespace
Annotations	Identifiant de la section de transport en commun
Type	xs:string
Properties	content: simple

Attribute PTRideType / @lineRef

Namespace	No namespace
Annotations	Identifiant de la ligne empruntée par le PTRide
Type	xs:string
Properties	content: simple

Attribute PTRideType / @companyRef

Namespace	No namespace
Annotations	Identifiant du transporteur associé à la ligne empruntée par le PTRide
Type	xs:string
Properties	content: simple

Attribute PTRideType / @ptNetworkRef

Namespace	No namespace
Annotations	Identifiant du réseau associé à la ligne empruntée par le PTRide
Type	xs:string
Properties	content: simple

Attribute PTRideType / @vehicleJourneyRef

Namespace	No namespace
Annotations	Identifiant du véhicule associé à la ligne empruntée par le PTRide
Type	xs:string
Properties	content: simple

Attribute PTRideType / @groupOfLineRef

Namespace	No namespace
Annotations	Identifiant du groupe de ligne associé à la ligne empruntée par le PTRide
Type	xs:string
Properties	content: simple

Attribute PathLinkType / @id

Namespace	No namespace
Annotations	Identifiant du cheminement
Type	xs:string
Properties	content: simple

Attribute TripType / @id

Namespace	No namespace
Annotations	Cet identifiant permet de bien distinguer les Trip issus des différentes notifications successives.
Type	xs:string
Properties	use: required

Attribute gml:RelatedTimeType / @relativePosition

Namespace	No namespace
Type	restriction of string
Properties	content: simple

Attribute gml:BoundingShapeType / @nilReason

Namespace	No namespace
Type	gml:NilReasonType
Properties	content: simple

Attribute gml:TimePositionType / @frame

Namespace	No namespace
Type	anyURI
Properties	default: #ISO-8601

Attribute gml:TimePositionType / @calendarEraName

Namespace	No namespace
Type	string
Properties	content: simple

Attribute gml:TimePositionType / @indeterminatePosition

Namespace	No namespace
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Type	gml:TimeIndeterminateValueType
Properties	content: simple

Attribute `gml:EnvelopeWithTimePeriodType` / `@frame`

Namespace	No namespace
Type	anyURI
Properties	default: #ISO-8601

Attribute `gml:AggregationAttributeGroup` / `@aggregationType`

Namespace	No namespace
Type	gml:AggregationType
Properties	content: simple
	final: restriction, list, union

Attribute `gml:AbstractCurveSegmentType` / `@numDerivativesAtStart`

Namespace	No namespace
Type	integer
Properties	default: 0

Attribute `gml:AbstractCurveSegmentType` / `@numDerivativesAtEnd`

Namespace	No namespace
Type	integer
Properties	default: 0

Attribute `gml:AbstractCurveSegmentType` / `@numDerivativeInterior`

Namespace	No namespace
Type	integer
Properties	default: 0

Attribute `gml:OrientableCurveType` / `@orientation`

Namespace	No namespace
Type	gml:SignType
Properties	default: +

Attribute `gml:LineStringSegmentType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: linear

Attribute `gml:ArcStringType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: circularArc3Points

Attribute `gml:ArcStringType` / `@numArc`

Namespace	No namespace
-----------	--------------

Type	integer
Properties	content: simple

Attribute `gml:ArcType` / `@numArc`

Namespace	No namespace
Type	integer
Properties	fixed: 1

Attribute `gml:ArcStringByBulgeType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: circularArc2PointWithBulge

Attribute `gml:ArcStringByBulgeType` / `@numArc`

Namespace	No namespace
Type	integer
Properties	content: simple

Attribute `gml:ArcByBulgeType` / `@numArc`

Namespace	No namespace
Type	integer
Properties	fixed: 1

Attribute `gml:MeasureType` / `@uom`

Namespace	No namespace
Type	gml:UomIdentifier
Properties	use: required

Attribute `gml:ArcByCenterPointType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: circularArcCenterPointWithRadius

Attribute `gml:ArcByCenterPointType` / `@numArc`

Namespace	No namespace
Type	integer
Properties	use: required
	fixed: 1

Attribute `gml:CubicSplineType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: cubicSpline

Attribute `gml:CubicSplineType` / `@degree`

Namespace	No namespace
Type	integer

Properties	fixed:	3
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Attribute `gml:BSplineType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	default: polynomialSpline

Attribute `gml:BSplineType` / `@isPolynomial`

Namespace	No namespace
Type	boolean
Properties	content: simple

Attribute `gml:BSplineType` / `@knotType`

Namespace	No namespace
Type	gml:KnotTypesType
Properties	content: simple

Attribute `gml:BezierType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: polynomialSpline

Attribute `gml:BezierType` / `@isPolynomial`

Namespace	No namespace
Type	boolean
Properties	fixed: true

Attribute `gml:BezierType` / `@knotType`

Namespace	No namespace
Type	gml:KnotTypesType
Properties	use: prohibited

Attribute `gml:ClothoidType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: clothoid

Attribute `gml:GeodesicStringType` / `@interpolation`

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: geodesic

Attribute `gml:OrientableSurfaceType` / `@orientation`

Namespace	No namespace
Type	gml:SignType
Properties	default: +

Attribute `gml:PolygonPatchType` / `@interpolation`

Namespace	No namespace
Type	<code>gml:SurfaceInterpolationType</code>
Properties	fixed: planar

Attribute `gml:TriangleType` / `@interpolation`

Namespace	No namespace
Type	<code>gml:SurfaceInterpolationType</code>
Properties	fixed: planar

Attribute `gml:RectangleType` / `@interpolation`

Namespace	No namespace
Type	<code>gml:SurfaceInterpolationType</code>
Properties	fixed: planar

Attribute `gml:AbstractGriddedSurfaceType` / `@rows`

Namespace	No namespace
Type	integer
Properties	content: simple

Attribute `gml:AbstractGriddedSurfaceType` / `@columns`

Namespace	No namespace
Type	integer
Properties	content: simple

Attribute `gml:ConeType` / `@horizontalCurveType`

Namespace	No namespace
Type	<code>gml:CurveInterpolationType</code>
Properties	fixed: circularArc3Points

Attribute `gml:ConeType` / `@verticalCurveType`

Namespace	No namespace
Type	<code>gml:CurveInterpolationType</code>
Properties	fixed: linear

Attribute `gml:CylinderType` / `@horizontalCurveType`

Namespace	No namespace
Type	<code>gml:CurveInterpolationType</code>
Properties	fixed: circularArc3Points

Attribute `gml:CylinderType` / `@verticalCurveType`

Namespace	No namespace
Type	<code>gml:CurveInterpolationType</code>
Properties	fixed: linear

Attribute `gml:SphereType` / `@horizontalCurveType`

Namespace	No namespace
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Type	gml:CurveInterpolationType
Properties	fixed: circularArc3Points

Attribute gml:SphereType / @verticalCurveType

Namespace	No namespace
Type	gml:CurveInterpolationType
Properties	fixed: circularArc3Points

Attribute gml:UnitOfMeasureType / @uom

Namespace	No namespace
Type	gml:UomIdentifier
Properties	use: required

Attribute gml:DerivationUnitTermType / @exponent

Namespace	No namespace
Type	integer
Properties	content: simple

Attribute gml:CodeListType / @codeSpace

Namespace	No namespace
Type	anyURI
Properties	content: simple

Attribute gml:CodeOrNilReasonListType / @codeSpace

Namespace	No namespace
Type	anyURI
Properties	content: simple

Attribute gml:MeasureListType / @uom

Namespace	No namespace
Type	gml:UomIdentifier
Properties	use: required

Attribute gml:MeasureOrNilReasonListType / @uom

Namespace	No namespace
Type	gml:UomIdentifier
Properties	use: required

Attribute gml:AbstractTimeGeometricPrimitiveType / @frame

Namespace	No namespace
Type	anyURI
Properties	default: #ISO-8601

Attribute gml:TimeIntervalLengthType / @unit

Namespace	No namespace
Type	gml:TimeUnitType

Properties	use:	required
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Attribute `gml:TimeIntervalLengthType` / `@radix`

Namespace	No namespace
Type	positiveInteger
Properties	content: simple

Attribute `gml:TimeIntervalLengthType` / `@factor`

Namespace	No namespace
Type	integer
Properties	content: simple

Attribute `gml:DirectedFacePropertyType` / `@orientation`

Namespace	No namespace
Type	gml:SignType
Properties	default: +

Attribute `gml:TopoSolidType` / `@universal`

Namespace	No namespace
Annotations	A gml:TopoSolid must indicate whether it is a universal topo-solid or not, to ensure a lossless topology representation as defined by Kuijpers, et. al. (see OGC 05-102 Topology IPR). The optional universal attribute of type boolean is used to indicate this and the default is fault. NOTE The universal topo-solid is normally not part of any feature, and is used to represent the unbounded portion of the data set. Its interior boundary (it has no exterior boundary) would normally be considered the exterior boundary of the data set.
Type	boolean
Properties	use: optional default: false

Attribute `gml:DirectedNodePropertyType` / `@orientation`

Namespace	No namespace
Type	gml:SignType
Properties	default: +

Attribute `gml:DirectedEdgePropertyType` / `@orientation`

Namespace	No namespace
Type	gml:SignType
Properties	default: +

Attribute `gml:DirectedTopoSolidPropertyType` / `@orientation`

Namespace	No namespace
Type	gml:SignType
Properties	default: +

Attribute `gml:FaceType` / `@universal`

Namespace	No namespace
Annotations	If the topological representation exists an unbounded manifold (e.g. Euclidean plane), a gml:Face must indicate whether it is a universal face or not, to ensure a lossless topology representation as defined by Kuijpers, et. al. (see OGC 05-102 Topology IPR). The optional universal attribute of type boolean is used to indicate this. NOTE The universal face is normally not part of any feature, and is used to represent the unbounded portion of the data set. Its interior boundary (it has no exterior boundary) would normally be considered the exterior boundary of the map represented by the data set.

Type	boolean
Properties	use: optional default: false

Attribute `gml:TopoComplexType` / `@isMaximal`

Namespace	No namespace
Type	boolean
Properties	default: false

Attribute `gml:referenceSystem` / `@codeSpace`

Namespace	No namespace
Type	anyURI
Properties	content: simple

Attribute `gml:referenceSystem` / `@uom`

Namespace	No namespace
Type	gml:UomIdentifier
Properties	content: simple

Attribute `gml:SequenceRuleType` / `@order`

Namespace	No namespace
Type	gml:IncrementOrder
Properties	content: simple

Attribute `gml:SequenceRuleType` / `@axisOrder`

Namespace	No namespace
Type	gml:AxisDirectionList
Properties	content: simple

Attribute `gml:Boolean` / `@nilReason`

Namespace	No namespace
Type	gml:NilReasonType
Properties	content: simple

Attribute `gml:Category` / `@nilReason`

Namespace	No namespace
Type	gml:NilReasonType
Properties	content: simple

Attribute `gml:Count` / `@nilReason`

Namespace	No namespace
Type	gml:NilReasonType
Properties	content: simple

Attribute `gml:Quantity` / `@nilReason`

Namespace	No namespace
Type	gml:NilReasonType

Properties	content:	simple
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Attribute `gml:GridType` / `@dimension`

Namespace	No namespace
Type	positiveInteger
Properties	use: required

Attribute `gml:CoordinateSystemAxisType` / `@uom`

Namespace	No namespace
Annotations	The uom attribute provides an identifier of the unit of measure used for this coordinate system axis. The value of this coordinate in a coordinate tuple shall be recorded using this unit of measure, whenever those coordinates use a coordinate reference system that uses a coordinate system that uses this axis.
Type	<code>gml:UomIdentifier</code>
Properties	use: required

Attribute `gml:DegreesType` / `@direction`

Namespace	No namespace
Type	restriction of string
Properties	content: simple

Attribute `gml:PriorityLocationPropertyType` / `@priority`

Namespace	No namespace
Type	string
Properties	content: simple

Attribute `QuayType` / `PostalAddress` / `CountryRef` / `@ref`

Namespace	No namespace
Type	<code>xs:normalizedString</code>
Properties	use: required

Attribute `QuayType` / `PostalAddress` / `@created`

Namespace	No namespace
Type	<code>xs:dateTime</code>
Properties	use: optional

Attribute `QuayType` / `PostalAddress` / `@id`

Namespace	No namespace
Type	<code>xs:normalizedString</code>
Properties	use: optional

Attribute `QuayType` / `PostalAddress` / `@version`

Namespace	No namespace
Type	<code>xs:normalizedString</code>
Properties	use: optional

Attribute `QuayType` / `@id`

Namespace	No namespace
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Type	xs:NMTOKEN
Properties	use: required

Attribute QuayType / @version

Namespace	No namespace
Type	xs:integer
Properties	use: required

Attribute PublicationDeliveryType / dataObjects / CompositeFrame / frames / SiteFrame / stopPlaces / StopPlace / @id

Namespace	No namespace
Type	xs:normalizedString
Properties	use: required

Attribute PublicationDeliveryType / @version

Namespace	No namespace
Type	xs:NMTOKEN
Properties	use: required