

Nautical Publications – S-100 Features Schema

Schema **S100Feature.xsd**

Elements

[AbstractGenericApplicationPropertyOfS100Feature](#)
[AbstractS100Feature](#)
[AbstractS100InformationObject](#)
[aggregationAssociation](#)
[compositionAssociation](#)
[featureAssociation](#)
[informationAssociation](#)
[inv_aggregationAssociation](#)
[inv_compositionAssociation](#)
[inv_featureAssociation](#)
[inv_informationAssociation](#)

element **AbstractGenericApplicationPropertyOfS100Feature**

diagram	<p>The diagram shows the UML representation of the element. It consists of a main class box labeled "AbstractGenericApplicationPropertyOfS100Feature" with a note below it: "Element for S-100 attributesp". This class has a "type" attribute set to "xs:anyType". It also has two associations: "inv_featureAssociation" and "inv_informationAssociation", both of which point to "InformationProp..." objects. A dashed yellow box labeled "xs:anyType" represents the type of the "any" attribute, which is marked as "0..∞".</p>
type	xs:anyType
properties	content complex mixed true abstract true
attributes	Name Type Use Default Fixed Annotation
annotation	documentation Element for S-100 attributesp

element AbstractS100Feature

diagram	<p>The diagram illustrates the UML class AbstractS100Feature which inherits from gml:AbstractFeature. It defines several properties:</p> <ul style="list-style-type: none"> gml:id: A required attribute of type xs:ID. gml:metaDataProperty: A property of type gml:MetaDataProperty. gml:description: A property of type gml:StringOrRefType. gml:descriptionReference: A property of type gml:ReferenceType. gml:identifier: A property of type gml:CodeWithAuthor. gml:name: A property of type gml:CodeType. gml:boundedBy: A property of type gml:BoundingShape. gml:location: A property of type gml:LocationProperty, which includes priorityLocation (type gml:PriorityLocation) and gml:location (type gml:location). featureAssociation: A property of type FeaturePropertyType. informationAssociation: A property of type InformationPropertyType. <p>Annotations provide detailed descriptions for each property.</p>									
type	AbstractS100FeatureType									
substitution group	gml:AbstractFeature									
properties	content complex abstract true									
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name gml:boundedBy gml:location featureAssociation informationAssociation									
attributes	<table> <tr> <td>Name</td><td>gml:id</td> <td>Type</td><td>xs:ID</td> <td>Use</td><td>required</td> <td>Default</td><td>Fixed</td> <td>Annotation documentation</td> </tr> </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, we're constrained to be unique in the XML document within which it occurs.</p>	Name	gml:id	Type	xs:ID	Use	required	Default	Fixed	Annotation documentation
Name	gml:id	Type	xs:ID	Use	required	Default	Fixed	Annotation documentation		

	<p>handle for the XML element representing a GML Object. Its use is mandatory 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>
annotation	<p>documentation Element for S-100 features - needed as head of substitution group</p>

element **AbstractS100InformationObject**

diagram	<pre> classDiagram class AbstractS100InformationType { gm:id gm:metaDataProperties gm:description gm:descriptionReference gm:identifier gm:name } class InformationAssociation { InformationPropertyT } class Imv_informationAssociation { InformationProp AbstractGeneral } AbstractS100InformationType "0..1" --> "1..1" InformationAssociation AbstractS100InformationType "0..1" --> "1..1" Imv_informationAssociation InformationAssociation "*" --> "1..1" Imv_informationAssociation </pre> <p>The diagram shows the UML class AbstractS100InformationType with the following attributes:</p> <ul style="list-style-type: none"> gm:id: Type <code>gm:ID</code>, <code>gm:required</code>. gm:metaDataProperties: Type <code>gm:MetaDataProperties</code>. gm:description: Type <code>gm:StringOrRefType</code>. Description: The value of this property is a full description of the object. <code>gm:description</code> uses <code>gm: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>gm:description</code> to reference an external description has been deprecated and replaced by the <code>gm:descriptionReference</code> property. gm:descriptionReference: Type <code>gm:ReferenceType</code>. Description: The value of this property is a remote text description of the object. The slick <code>text</code> attribute of the <code>gm:descriptionReference</code> property references the external description. gm:identifier: Type <code>gm:CodeWithAuthor</code>. Description: 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 <code>codeSpace</code> shall be provided. That identifier is usually unique either globally or within an application domain. <code>gm:identifier</code> is a pre-defined property for such identifiers. gm:name: Type <code>gm:CodeType</code>. Description: The <code>gm:name</code> property provides a label or identifier for the object, commonly a descriptive name. An object may have several names, typically assigned by different authorities. <code>gm:name</code> uses the <code>gm:CodeType</code> content model. The authority for a name is indicated by the value of its (optional) <code>codeSpace</code> 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. In a processing application may select the name from its preferred codeSpace. <p>Relationships:</p> <ul style="list-style-type: none"> AbstractS100InformationType has multiplicity 0..1 to 1..1 with InformationAssociation. AbstractS100InformationType has multiplicity 0..1 to 1..1 with Imv_informationAssociation. InformationAssociation has multiplicity * to 1..1 with Imv_informationAssociation.
type	AbstractS100InformationType

substitution group	gml:AbstractGML					
properties	content complex abstract true					
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name informationAssociation inv informationAssociation					
attributes	Name gml:id	Type xs:ID	Use required	Default	Fixed	Annotation documentation 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.
annotation	documentation Element for S-100 info types - needed as head of substitution group.					

element aggregationAssociation

diagram	<p>The diagram illustrates the structure of the <code>Information.PropertyType</code> element. It shows a tree of attributes and their types. The <code>aggregationAssociation</code> child element is highlighted.</p> <pre> <?xml version="1.0" encoding="UTF-8"?> <xs:complexType name="Information.PropertyType"> <!-- ... other attributes and children ... --> <xs:attribute name="aggregationAssociation" type="Information.PropertyType" /> </xs:complexType> </pre> <p>aggregationAssociation (type: <code>Information.PropertyType</code>)</p> <p>Aggregate feature association - prototype, static development</p> <p>Information.PropertyType</p> <ul style="list-style-type: none"> Attributes <ul style="list-style-type: none"> <code>gml:id</code> (type: <code>xs:ID</code>, use: required) <code>xlink:type</code> (type: <code>xlink:typeType</code>) <code>xlink:href</code> (type: <code>xlink:hrefType</code>) <code>xlink:role</code> (type: <code>xlink:roleType</code>) <code>xlink:arcrole</code> (type: <code>xlink:arcroleType</code>) <code>xlink:title</code> (type: <code>xlink:titleAltType</code>) <code>xlink:show</code> (type: <code>xlink:showType</code>) <code>xlink:actuate</code> (type: <code>xlink:actuateType</code>) <code>nillable</code> (type: <code>gml:NillableType</code>) <code>gml:remoteSchema</code> (type: <code>anyURI</code>) gml:metaDataProperty (type: <code>gml:metaDataPropertyType</code>) <ul style="list-style-type: none"> gml:description (type: <code>gml:StringOrRefType</code>) <p>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, comment, 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.</p> gml:descriptionReference (type: <code>gml:ReferenceType</code>) <p>The value of this property is a remote text description of the object. The <code>targetObject</code> attribute of the <code>gml:descriptionReference</code> property references the external description.</p> gml:identifier (type: <code>gml:CodeWithAuthorType</code>) <p>Often, a specific identifier is assigned to an object by the managing authority with the intention that it is used in references to the object. For such cases, the <code>codeSpace</code> shall be provided. That identifier is usually unique either globally or within an application domain. <code>gml:identifier</code> is a pre-defined property for such identifiers.</p> gml:name (type: <code>gml:NameType</code>) <p>The <code>gml:name</code> property provides a label or identifier for the object, commonly a descriptive name. An object may have several names, typically assigned by different authorities. <code>gml:name</code> uses the <code>gml:CodeType</code> content model. The authority for a name is indicated by the value of its (optional) <code>codeSpace</code> attribute. The name may or may not be unique, as determined by the rules of the organization responsible for the code space. In common usage there will be one name per authority, so a processing application may select the name from its preferred code space.</p> 												
type	Information.PropertyType												
properties	content complex												
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name												
used by	complexType AbstractS100CollectionFeatureType												
attributes	<table border="1"> <thead> <tr> <th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td><code>gml:id</code></td><td><code>xs:ID</code></td><td>required</td><td></td><td></td><td>documentation The attribute <code>gml:id</code> supports</td></tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<code>gml:id</code>	<code>xs:ID</code>	required			documentation The attribute <code>gml:id</code> supports
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		provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
xlink:type	xlink:typeType	simple
xlink:href	xlink:hrefType	
xlink:role	xlink:roleType	
xlink:arcrole	xlink:arcroleType	
xlink:title	xlink:titleAttrType	
xlink:show	xlink:showType	
xlink:actuate	xlink:actuateType	
nilReason	gml:NilReasonType	
gml:remoteSchema	xs:anyURI	appinfo deprecated
annotation	documentation Aggregate feature association - prototype, under development	

element compositionAssociation

diagram	<p>The diagram illustrates the structure of the compositionAssociation element, which is a subtype of InformationPropertyType. The compositionAssociation element is shown with a line connecting it to the InformationPropertyType complex type. The InformationPropertyType complex type is defined by the following attributes:</p> <ul style="list-style-type: none"> gml:id: Type xs: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 it is constrained to be unique in the XML document within which it occurs. xlink:type: Type xlink:typeType. Default simple. xlink:href: Type xlink:hrefType. xlink:role: Type xlink:roleType. xlink:arcrole: Type xlink:arcroleType. xlink:title: Type xlink:titleType. xlink:show: Type xlink:showType. xlink:actuate: Type xlink:actuateType. nilReason: Type gmlNilReasonType. gml:remoteSchema: Type anyURI. gml:metaDataProperty: Type gml:metaDataPropertyType. gml:description: Type gml:StringOrRefType. The value of this property is a text description of the object. gml:description uses gml:StringOrRefType as its content model, so it may contain a simple text string, content, or carry a reference to an external description. The use of gml:description to reference an external description has been deprecated and replaced by the gml:descriptionReference property. gml:descriptionReference: Type gml:ReferenceType. The value of this property is a remote text description of the object. The external attribute of the gml:descriptionReference property references the external description. gml:identifier: Type gml:CodeWithAuthor. Often, a special identifier is assigned to an object by the managing authority with the constraint 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. gml:name: Type gml:CodeType. 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:naming 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. 												
type	Information.PropertyType												
properties	content complex												
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name												
used by	complexType AbstractS100CollectionFeatureType												
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		provision of a handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
xlink:type	xlink:typeType	simple
xlink:href	xlink:hrefType	
xlink:role	xlink:roleType	
xlink:arcrole	xlink:arcroleType	
xlink:title	xlink:titleAttrType	
xlink:show	xlink:showType	
xlink:actuate	xlink:actuateType	
nilReason	gml:NilReasonType	
gml:remoteSchema	xs:anyURI	appinfo deprecated
annotation	documentation Composition feature association - prototype, under development	

element featureAssociation

diagram	<pre> <xs:complexType name="FeaturePropertyType"> <xs:attribute name="gml:id" type="xs:ID" use="required"/> <xs:attribute name="xlink:type" type="xlink:typeType"/> <xs:attribute name="xlink:href" type="xlink:hrefType"/> <xs:attribute name="xlink:role" type="xlink:roleType"/> <xs:attribute name="xlink:arcrole" type="xlink:arcroleType"/> <xs:attribute name="xlink:title" type="xlink:titleAttrType"/> <xs:attribute name="xlink:show" type="xlink:showType"/> <xs:attribute name="xlink:actuate" type="xlink:actuateType"/> <xs:attribute name="nilReason" type="gml:NILReasonType"/> <xs:attribute name="gml:remoteSchemas" type="anyURI"/> <xs:element name="gml:metaDataProperty" type="gml:MetaDataPropertyType"/> <xs:element name="gml:description" type="gml:StringOrRefType"/> <xs:element name="gml:descriptionReference" type="gml:ReferenceType"/> <xs:element name="gml:identifier" type="gml:CodeWithAuthorType"/> <xs:element name="gml:name" type="gml:CodeType"/> </xs:complexType> </pre> <p>Element for IS-100 feature associations</p>												
type	FeaturePropertyType												
properties	content complex												
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name												
used by	complexTypes AbstractS100CollectionFeatureType AbstractS100FeatureType												
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	d	n
		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.
	xlink:type xlink:href xlink:role xlink:arcrole xlink:title xlink:show xlink:actuate nilReason gml:remoteSchema	xlink:typeType xlink:hrefType xlink:roleType xlink:arcroleType xlink:titleAttrType xlink:showType xlink:actuateType gml:NilReasonType xs:anyURI
annotation	documentation Element for S-100 feature associations	appinfo deprecated

element informationAssociation

diagram	<p>The diagram shows the UML class InformationAssociation which is a complex type (InformationPropertyType). It includes attributes for various XML links and meta-data properties.</p>												
type	Information.PropertyType												
properties	content complex												
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name												
used by	complexTypes AbstractS100CollectionFeatureType AbstractS100FeatureType AbstractS100InformationType												
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	d	n
		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.
xlink:type	xlink:typeType	simple
xlink:href	xlink:hrefType	
xlink:role	xlink:roleType	
xlink:arcrole	xlink:arcroleType	
xlink:title	xlink:titleAttrType	
xlink:show	xlink:showType	
xlink:actuate	xlink:actuateType	
nilReason	gml:NilReasonType	
gml:remoteSchema	xs:anyURI	appinfo deprecated
annotation	documentation Element for S-100 information associations	

element `inv_aggregationAssociation`

diagram	<p>The diagram illustrates the inverse association between the <code>InformationPropertyType</code> element and the <code>inv_aggregationAssociation</code> element. The <code>InformationPropertyType</code> element is shown with its attributes: <code>gml:id</code>, <code>gml:type</code>, <code>gml:href</code>, <code>gml:role</code>, <code>gml:arcrole</code>, <code>gml:site</code>, <code>gml:show</code>, <code>gml:actuate</code>, <code>nilReason</code>, <code>gml:remoteSchema</code>, <code>gml:metaDataProperty</code>, <code>gml:description</code>, <code>gml:descriptionReference</code>, <code>gml:identifier</code>, and <code>gml:name</code>. A dashed line connects the <code>gml:type</code> attribute to the <code>InformationPropertyT</code> type definition.</p>												
type	InformationPropertyType												
properties	content complex												
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name												
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		handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
	xlink:type xlink:href xlink:role xlink:arcrole xlink:title xlink:show xlink:actuate nilReason gml:remoteSchema	xlink:typeType xlink:hrefType xlink:roleType xlink:arcroleType xlink:titleAttrType xlink:showType xlink:actuateType gml:NilReasonType xs:anyURI
annotation	documentation Inverse association - XML convenience type, under development	simple appinfo deprecated

element `inv_compositionAssociation`

diagram													
type	Information.PropertyType												
properties	content complex												
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name												
attributes	<table border="1"> <thead> <tr> <th>Name</th><th>Type</th><th>Use</th><th>Default</th><th>Fixed</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>gml:id</td><td>xs:ID</td><td>required</td><td></td><td></td><td>documentation 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 it is constrained to be unique in the XML document section which it occurs.</td></tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	gml:id	xs:ID	required			documentation 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 it is constrained to be unique in the XML document section which it occurs.
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		handle for the XML element representing a GML Object. Its use is mandatory for all GML objects. It is of XML type ID, so is constrained to be unique in the XML document within which it occurs.
	xlink:type xlink:href xlink:role xlink:arcrole xlink:title xlink:show xlink:actuate nilReason gml:remoteSchema	xlink:typeType xlink:hrefType xlink:roleType xlink:arcroleType xlink:titleAttrType xlink:showType xlink:actuateType gml:NilReasonType xs:anyURI
annotation	documentation Inverse association - XML convenience type, under development	simple appinfo deprecated

element `inv_featureAssociation`

diagram	<pre> classDiagram class InformationPropertyType { gml:id xlink:type xlink:href xlink:role xlink:arcrole xlink:title xlink:show xlink:actuate nilReason gml:remoteSchema gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name } class inv_featureAssociation { <<InformationPropertyType>> <<AbstractGenericApplicationPropertyOfS100Feature>> <<AbstractGenericApplicationPropertyOfS100Feature>> } InformationPropertyType "1" -- "1" inv_featureAssociation </pre>						
type	InformationPropertyType						
substitution group	AbstractGenericApplicationPropertyOfS100Feature						
properties	content complex						
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name						
attributes	<table> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> </table>	Name	Type	Use	Default	Fixed	Annotation
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	gml:id	xs:ID	required	t documentatio n 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.
	xlink:type xlink:href xlink:role xlink:arcrole xlink:title xlink:show xlink:actuate nilReason gml:remoteSchem a	xlink:typeType xlink:hrefType xlink:roleType xlink:arcroleType xlink:titleAttrType xlink:showType xlink:actuateType gml:NilReasonTy pe xs:anyURI	simple	appinfo deprecated

element `inv_informationAssociation`

diagram	<pre> classDiagram class InformationPropertyType { gml:id xlink:type xlink:href xlink:role xlink:arcrole xlink:title xlink:show xlink:actuate nilReason gml:remoteSchema gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name } class inv_informationAssociate { type InformationPropertyType substitGroup AbstractGenericApplicationPropertyOfS100Feature } inv_informationAssociate < -- InformationPropertyType InformationPropertyType < -- gml:metaDataProperty InformationPropertyType < -- gml:description InformationPropertyType < -- gml:descriptionReference InformationPropertyType < -- gml:identifier InformationPropertyType < -- gml:name </pre>
type	InformationPropertyType
substitution group	AbstractGenericApplicationPropertyOfS100Feature
properties	content complex
children	gml:metaDataProperty gml:description gml:descriptionReference gml:identifier gml:name
used by	complexType AbstractS100InformationType

attributes	Name	Type	Use	Default	Fixed	Annotation
	gml:id	xs:ID	required			documentation 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.
	xlink:type	xlink:typeType			simple	
	xlink:href	xlink:hrefType				
	xlink:role	xlink:roleType				
	xlink:arcrole	xlink:arcroleType				
	xlink:title	xlink:titleAttrType				
	xlink:show	xlink:showType				
	xlink:actuate	xlink:actuateType				
	nilReason	gml:NilReasonType				
	gml:remoteSchema	xs:anyURI				appinfo deprecated