
EMSA Integrated Maritime Data Environment [IMDate]

Geo-Registry (CGD) Interface Control Document [ICD]

IMDATE-TD-ACS-EMSA-0118-1

Issue: 1.5

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1.1 GEOREGISTRY WEB SERVICES

In this paragraph are described all services concerning Georegistry concepts.

IMDatE Module

imdate-georegistry-proxy

Methods summary

Name	Description
ows	Wrapper for wfs invocation

1.1.1 ows

Description

Wrapper for wfs invocation.

Action

`http://{host:port}/ovrws/populateProjectOvr?userId={string}`

Style

HTTP/POST

Input

The inputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
user	String	1..1	Username
POST CONTENT	Byte array	1..1	XML text the wfs invocation request

Output (JSON)

The outputs of this method are the arguments defined by the following table.

Argument	Type	Occurs	Description
response	String	1..1	XML response from wfs server

1.1.1.1 WFS Service specifications

Here are provided the schema informations about the content of the request and response for the service wrapped by the servlet described in this paragraph.

Schema GeoRegistrySchema.xsd

schema location: [GeoRegistrySchema.xsd](#)

attribute form default:

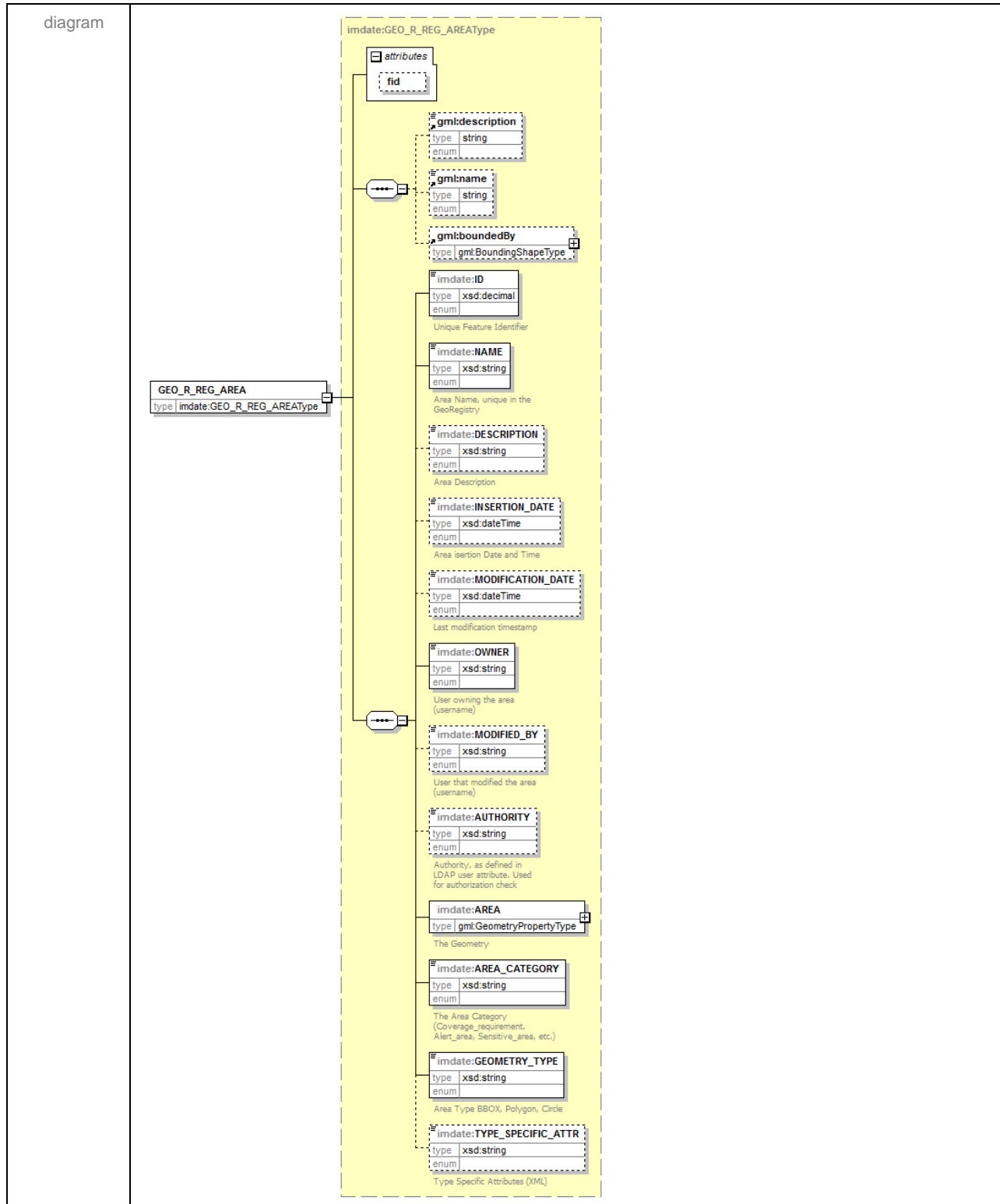
element form default: **qualified**

targetNamespace: **imdate**

Elements Complex types

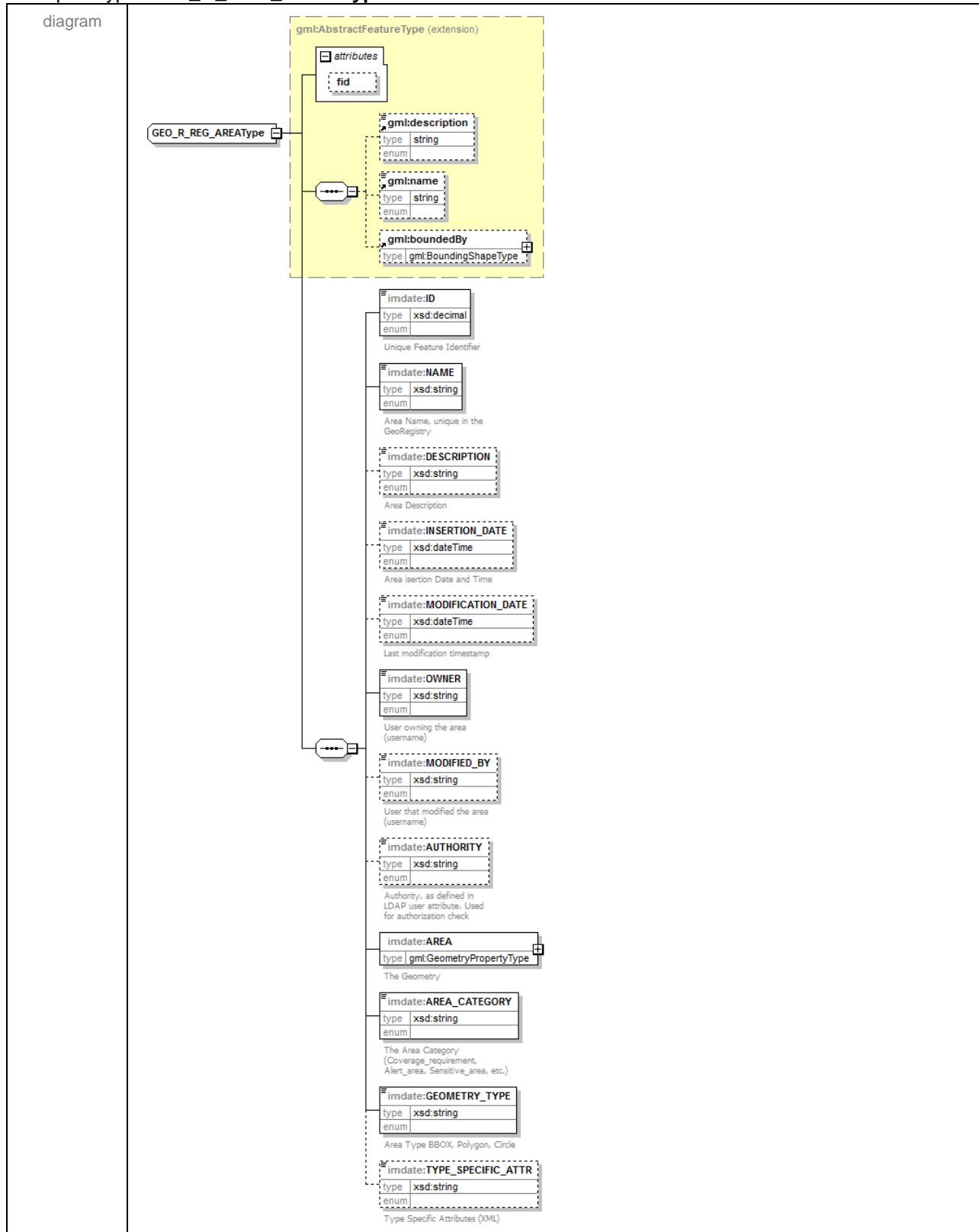
[GEO R REG AREA](#) [GEO R REG AREAType](#)

element **GEO_R_REG_AREA**



namespace	imdate					
type	imdate:GEO_R_REG_AREAType					
properties	content	complex				
	substGrp	gml:_Feature				
children	gml:description gml:name gml:boundedBy imdate:ID imdate:NAME imdate:DESCRIPTION imdate:INSERTION_DATE imdate:MODIFICATION_DATE imdate:OWNER imdate:MODIFIED_BY imdate:AUTHORITY imdate:AREA imdate:AREA_CATEGORY imdate:GEOMETRY_TYPE imdate:TYPE_SPECIFIC_ATTR					
attributes	Name	Type	Use	Default	Fixed	annotation
	fid	xsd:ID	optional			
source	<xsd:element name="GEO_R_REG_AREA" type="imdate:GEO_R_REG_AREAType" substitutionGroup="gml:_Feature"/>					

complexType **GEO_R_REG_AREAType**



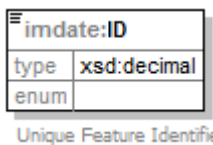
namespace	imdate					
type	extension of gml:AbstractFeatureType					
properties	base gml:AbstractFeatureType					
children	gml:description gml:name gml:boundedBy imdate:ID imdate:NAME imdate:DESCRIPTION imdate:INSERTION_DATE imdate:MODIFICATION_DATE imdate:OWNER imdate:MODIFIED_BY imdate:AUTHORITY imdate:AREA imdate:AREA_CATEGORY imdate:GEOMETRY_TYPE imdate:TYPE_SPECIFIC_ATTR					
used by	element GEO_R_REG_AREA					
attributes	Name	Type	Use	Default	Fixed	annotation
	fid	xsd:ID	optional			
source	<pre><xsd:complexType name="GEO_R_REG_AREAType"> <xsd:complexContent base="gml:AbstractFeatureType"> <xsd:extension base="gml:AbstractFeatureType"> <xsd:sequence> <xsd:element name="ID" type="xsd:decimal" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Unique Feature Identifier</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="NAME" type="xsd:string" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Area Name, unique in the GeoRegistry</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="DESCRIPTION" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Area Description</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="INSERTION_DATE" type="xsd:dateTime" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Area isertion Date and Time</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="MODIFICATION_DATE" type="xsd:dateTime" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Last modification timestamp</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="OWNER" type="xsd:string" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>User owning the area (username)</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="MODIFIED_BY" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>User that modified the area (username)</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="AUTHORITY" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Authority, as defined in LDAP user attribute. Used for authorization check</xsd:documentation> </xsd:annotation> </xsd:element> <xsd:element name="AREA" type="gml:GeometryPropertyType" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>The Geometry</xsd:documentation> </xsd:annotation> </xsd:element> </xsd:sequence> </xsd:extension> </xsd:complexContent> </xsd:complexType></pre>					

```

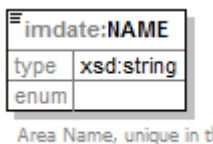
</xsd:annotation>
</xsd:element>
<xsd:element name="AREA_CATEGORY" type="xsd:string" nillable="false" minOccurs="1"
maxOccurs="1">
  <xsd:annotation>
    <xsd:documentation>The Area Category (Coverage_requirement, Alert_area, Sensitive_area,
etc.)</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element name="GEOMETRY_TYPE" type="xsd:string" nillable="false" minOccurs="1"
maxOccurs="1">
  <xsd:annotation>
    <xsd:documentation>Area Type BBOX, Polygon, Circle</xsd:documentation>
  </xsd:annotation>
</xsd:element>
<xsd:element name="TYPE_SPECIFIC_ATTR" type="xsd:string" nillable="true" minOccurs="0"
maxOccurs="1">
  <xsd:annotation>
    <xsd:documentation>Type Specific Attributes (XML)</xsd:documentation>
  </xsd:annotation>
</xsd:element>
</xsd:sequence>
</xsd:extension>
</xsd:complexContent>
</xsd:complexType>

```

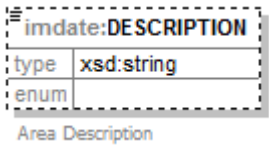

element **GEO_R_REG_AREAType/ID**

diagram	
namespace	imdate
type	xsd:decimal
properties	isRef 0 content simple nillable false
annotation	documentation Unique Feature Identifier
source	<pre><xsd:element name="ID" type="xsd:decimal" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Unique Feature Identifier</xsd:documentation> </xsd:annotation> </xsd:element></pre>

element **GEO_R_REG_AREAType/NAME**

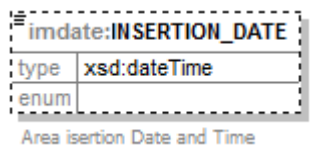
diagram	
namespace	imdate
type	xsd:string
properties	isRef 0 content simple nillable false
annotation	documentation Area Name, unique in the GeoRegistry
source	<pre><xsd:element name="NAME" type="xsd:string" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Area Name, unique in the GeoRegistry</xsd:documentation> </xsd:annotation> </xsd:element></pre>

element **GEO_R_REG_AREAType/DESCRIPTION**

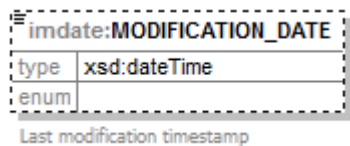
diagram	
namespace	imdate
type	xsd:string

properties	isRef 0 minOcc 0 maxOcc 1 content simple nillable true
annotation	documentation Area Description
source	<xsd:element name="DESCRIPTION" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Area Description</xsd:documentation> </xsd:annotation> </xsd:element>

element **GEO_R_REG_AREAType/INSERTION_DATE**

diagram	
namespace	imdate
type	xsd:dateTime
properties	isRef 0 minOcc 0 maxOcc 1 content simple nillable true
annotation	documentation Area insertion Date and Time
source	<xsd:element name="INSERTION_DATE" type="xsd:dateTime" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Area insertion Date and Time</xsd:documentation> </xsd:annotation> </xsd:element>

element **GEO_R_REG_AREAType/MODIFICATION_DATE**

diagram	
namespace	imdate
type	xsd:dateTime
properties	isRef 0 minOcc 0 maxOcc 1 content simple nillable true
annotation	documentation

	Last modification timestamp
source	<pre><xsd:element name="MODIFICATION_DATE" type="xsd:dateTime" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Last modification timestamp</xsd:documentation> </xsd:annotation> </xsd:element></pre>

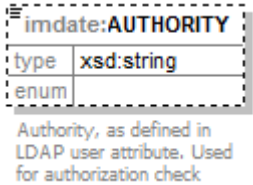
element **GEO_R_REG_AREAType/OWNER**

diagram	
namespace	imdate
type	xsd:string
properties	isRef 0 content simple nillable false
annotation	documentation User owning the area (username)
source	<pre><xsd:element name="OWNER" type="xsd:string" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>User owning the area (username)</xsd:documentation> </xsd:annotation> </xsd:element></pre>

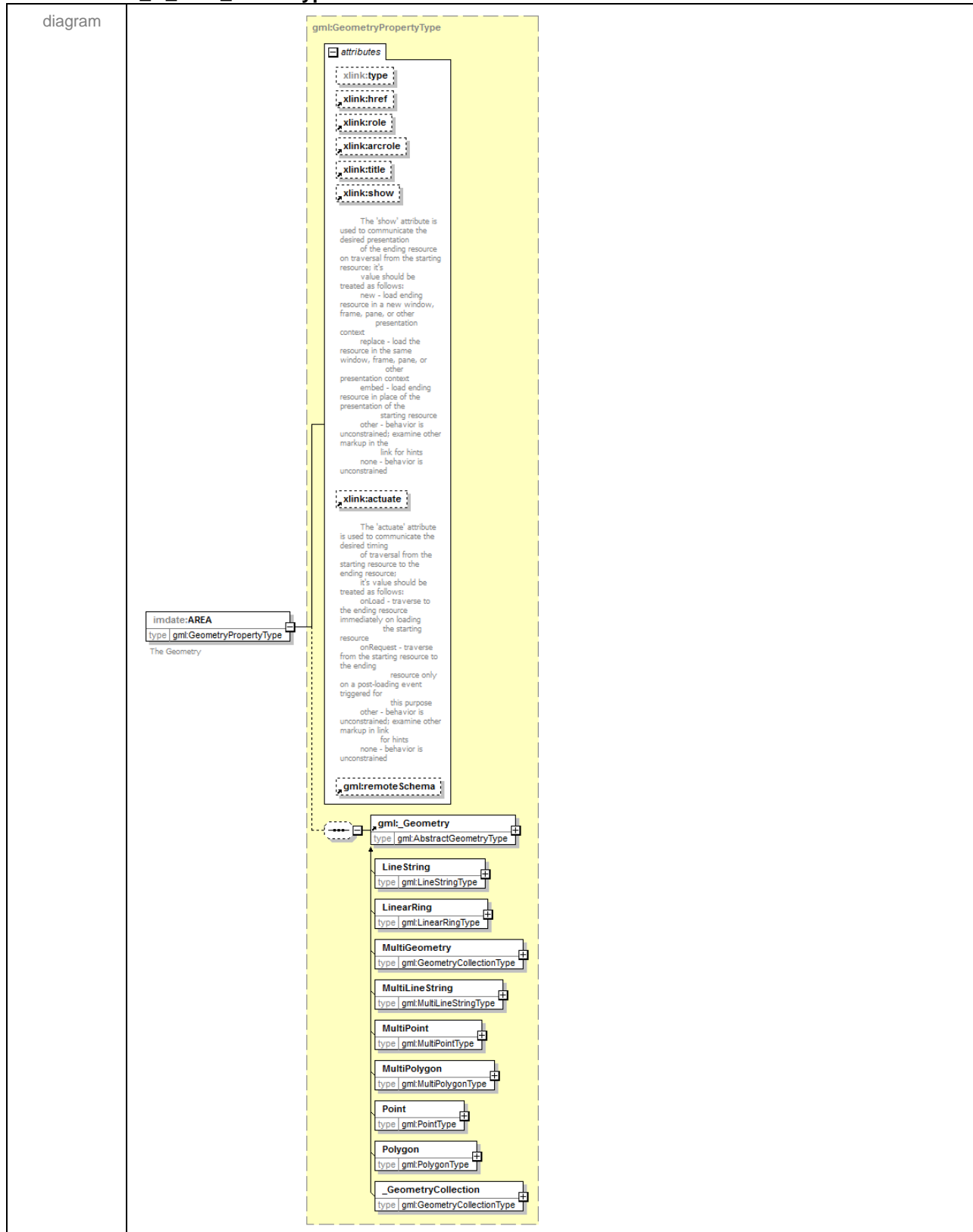
element **GEO_R_REG_AREAType/MODIFIED_BY**

diagram	
namespace	imdate
type	xsd:string
properties	isRef 0 minOccurs 0 maxOccurs 1 content simple nillable true
annotation	documentation User that modified the area (username)
source	<pre><xsd:element name="MODIFIED_BY" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>User that modified the area (username)</xsd:documentation> </xsd:annotation> </xsd:element></pre>

element **GEO_R_REG_AREAType/AUTHORITY**

diagram	 <p>Authority, as defined in LDAP user attribute. Used for authorization check</p>										
namespace	imdate										
type	xsd:string										
properties	<table> <tr><td>isRef</td><td>0</td></tr> <tr><td>minOcc</td><td>0</td></tr> <tr><td>maxOcc</td><td>1</td></tr> <tr><td>content</td><td>simple</td></tr> <tr><td>nillable</td><td>true</td></tr> </table>	isRef	0	minOcc	0	maxOcc	1	content	simple	nillable	true
isRef	0										
minOcc	0										
maxOcc	1										
content	simple										
nillable	true										
annotation	<p>documentation</p> <p>Authority, as defined in LDAP user attribute. Used for authorization check</p>										
source	<pre><xsd:element name="AUTHORITY" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Authority, as defined in LDAP user attribute. Used for authorization check</xsd:documentation> </xsd:annotation> </xsd:element></pre>										

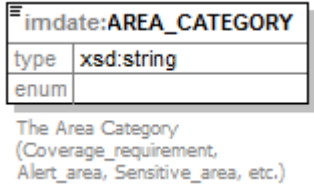
element **GEO_R_REG_AREAType/AREA**



namespace	imdate					
type	gml:GeometryPropertyType					
properties	isRef	0				
	content	complex				
	nillable	false				
children	gml:_Geometry					
attributes	Name	Type	Use	Default	Fixed	annotation
	xlink:type	xsd:string			simple	
	href		optional			
	role		optional			
	arcrole		optional			
	title		optional			
	show		optional			documentation
						The 'show' attribute is used to communicate the desired presentation of the ending resource on traversal from the starting resource; it's value should be treated as follows: new - load ending resource in a new window, frame, pane, or other presentation context replace - load the resource in the same window, frame, pane, or other presentation context embed - load ending resource in place of the presentation of the starting resource other - behavior is unconstrained; examine other markup in the link for hints none - behavior is unconstrained
	actuate		optional			documentation
						The 'actuate'

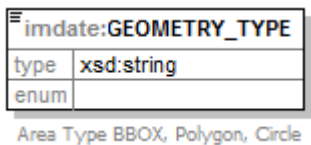
		<p>attribute is used to communicate the desired timing of traversal from the starting resource to the ending resource; it's value should be treated as follows:</p> <ul style="list-style-type: none"> onLoad - traverse to the ending resource immediately on loading the starting resource onRequest - traverse from the starting resource to the ending resource only on a post-loading event triggered for this purpose other - behavior is unconstrained; examine other markup in link for hints none - behavior is unconstrained
	remoteSchema optional	
annotation	documentation The Geometry	
source	<pre><xsd:element name="AREA" type="gml:GeometryPropertyType" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>The Geometry</xsd:documentation> </xsd:annotation> </xsd:element></pre>	

element **GEO_R_REG_AREAType/AREA_CATEGORY**

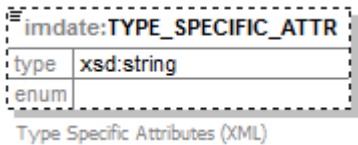
diagram	
namespace	imdate
type	xsd:string

properties	isRef 0 content simple nillable false
annotation	documentation The Area Category (Coverage_requirement, Alert_area, Sensitive_area, etc.)
source	<pre> <xsd:element name="AREA_CATEGORY" type="xsd:string" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>The Area Category (Coverage_requirement, Alert_area, Sensitive_area, etc.)</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element **GEO_R_REG_AREAType/GEOMETRY_TYPE**

diagram	
namespace	imdate
type	xsd:string
properties	isRef 0 content simple nillable false
annotation	documentation Area Type BBOX, Polygon, Circle
source	<pre> <xsd:element name="GEOMETRY_TYPE" type="xsd:string" nillable="false" minOccurs="1" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Area Type BBOX, Polygon, Circle</xsd:documentation> </xsd:annotation> </xsd:element> </pre>

element **GEO_R_REG_AREAType/TYPE_SPECIFIC_ATTR**

diagram	
namespace	imdate
type	xsd:string
properties	isRef 0 minOccurs 0 maxOccurs 1 content simple nillable true
annotation	documentation

	Type Specific Attributes (XML)
source	<pre> <xsd:element name="TYPE_SPECIFIC_ATTR" type="xsd:string" nillable="true" minOccurs="0" maxOccurs="1"> <xsd:annotation> <xsd:documentation>Type Specific Attributes (XML)</xsd:documentation> </xsd:annotation> </xsd:element> </pre>