

# ASF radiometric terrain corrected products

## Product format specification

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ASF engineering

### ABSTRACT

This product format specification defines standard terrain corrected products generated at the Alaska Satellite Facility. It contains the definition for the ISO compliant XML metadata.



## Document Preparation

The document was prepared with contributions from  
Rudi Gens

## Document Change Log

Revision	Date	Page	Change Description	Reason for change
1.0 Draft	03/07/2014	all	Initial Draft	
1.1	07/01/2014	all	Added further parameters to the metadata. Moved parameters within the structure.	



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## **1 Document structure**

The document is structured as follows:

Chapter 1 introduces the structure and scope of the document.

Chapter 2 summarizes the product packaging.

Chapter 3 defines the elements of the ISO compliant XML metadata.



## 2 Product packaging

The naming convention for the RTC products follows as base name of this pattern:

AA\_BBBBBB\_CCC\_FDDDD\_RTE (e.g. AP\_26939\_FBS\_F3170\_RT1)

Component	Definition	Example
AA	mission	AP
BBBBB	orbit number of image	26939
CCC	beam mode of image	PLR
DDDD	frame number of image	3170
E	terrain correction resolution (1=high, 2=low)	1

All files are stored in a folder with the base name. The file extension used are:

Extension	Description	Example
_HH.tif _HV.tif _VH.tif _VV.tif	terrain corrected product stored in separate files for each available polarization in GeoTIFF format	AP_26939_PLR_F3170_RT1_HH.tif AP_26939_PLR_F3170_RT1_HV.tif AP_26939_PLR_F3170_RT1_VH.tif AP_26939_PLR_F3170_RT1_VV.tif
.iso.xml	ISO compliant metadata in XML format	AP_26939_PLR_F3170_RT1.iso.xml
.xsd	<i>future release will include XML schema to validate the XML metadata</i>	<i>rtc_iso.xsd</i>
.dem.tif	digital elevation model used for terrain correction in GeoTIFF format	AP_26939_PLR_F3170_RT1.dem.tif
.inc_map.tif	layover/shadow mask in GeoTIFF format	AP_26939_PLR_F3170_RT1.inc_map.tif
.ls_map.tif	layover/shadow mask in GeoTIFF format	AP_26939_PLR_F3170_RT1.ls_map.tif
.geo.jpg	browse image of the amplitude (including world and auxiliary file) in JPEG format	AP_26939_PLR_F3170_RT1.geo.jpg
.kmz	browse image in Google Earth format	AP_26939_PLR_F3170_RT1.kmz



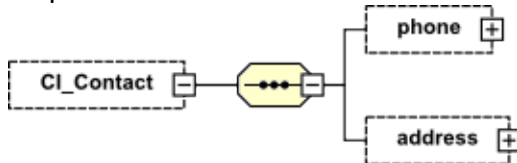
### 3 ISO XML metadata

The metadata is stored in an ISO metadata compliant XML format.

```
<?xml version="1.0" encoding="utf-8"?>
<DS_Series xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:gmd="http://www.isotc211.org/2005/gmd"
xmlns:gco="http://www.isotc211.org/2005/gco"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:eos="http://earthdata.nasa.gov/schema/eos"
xmlns:echo="http://www.echo.nasa.gov/ingest/schemas/operatations"
xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:gml="http://www.opengis.net/gml/3.2"
xmlns:gmi="http://www.isotc211.org/2005/gmi"
xsi:noNamespaceSchemaLocation="schema.no_ns.xsd">
  <composedOf>
    <DS_DataSet>
      <has>
        <MI_Metadata>
          <fileIdentifier>
            <CharacterString>AP_26939_PLR_F3170_RT1.iso.xml</CharacterString>
          </fileIdentifier>
          <language>
            <CharacterString>eng</CharacterString>
          </language>
          <characterSet>
            <MD_CharacterSetCode
codeList="http://www.isotc211.org/2005/resources/Codelist/gmxCodeLists.xml#
MD_CharacterSetCode" codeListValue="utf8">utf8</MD_CharacterSetCode>
          </characterSet>
          <hierarchyLevel>
            <MD_ScopeCode
codeList="http://www.isotc211.org/2005/resources/Codelist/gmxCodeLists.xml#
MD_ScopeCode" codeListValue="dataset">dataset</MD_ScopeCode>
          </hierarchyLevel>
        </MI_Metadata>
      </has>
    </DS_DataSet>
  </composedOf>
</DS_Series>
```

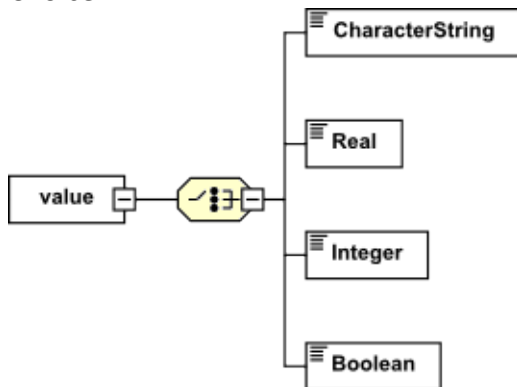
The graphical representation contains a number of compositors and components:

- Sequence



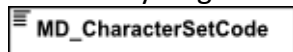
A sequence requires all child elements to be present in the given order, i.e. in this case the **phone** component needs to be in XML file before the **address** component.

- Choice



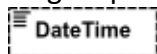
A choice allows only one of the child elements to be present, i.e. value can be a character string, floating point number, integer number or Boolean.

- Mandatory single element



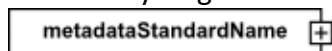
An element with solid border indicates that the element is required. The absence of a number range implies a minimum and maximum occurrence of the element of 1.

- Single optional element



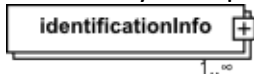
An element with dashed border indicates that the element is optional. The absence of a number range implies a minimum occurrence of 0 and a maximum occurrence of 1.

- Mandatory single element containing children



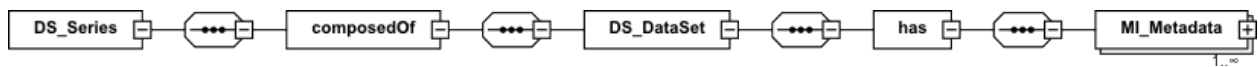
The solid border indicates a mandatory element. The plus sign means complex content, i.e. it contains at least one child element.

- Mandatory multiple element containing child elements



The solid border indicates a mandatory element. The plus sign means complex content, i.e. it contains at least one child element. The number range 1..∞ indicates a minimum occurrence of 1 and an unbounded maximum occurrence.

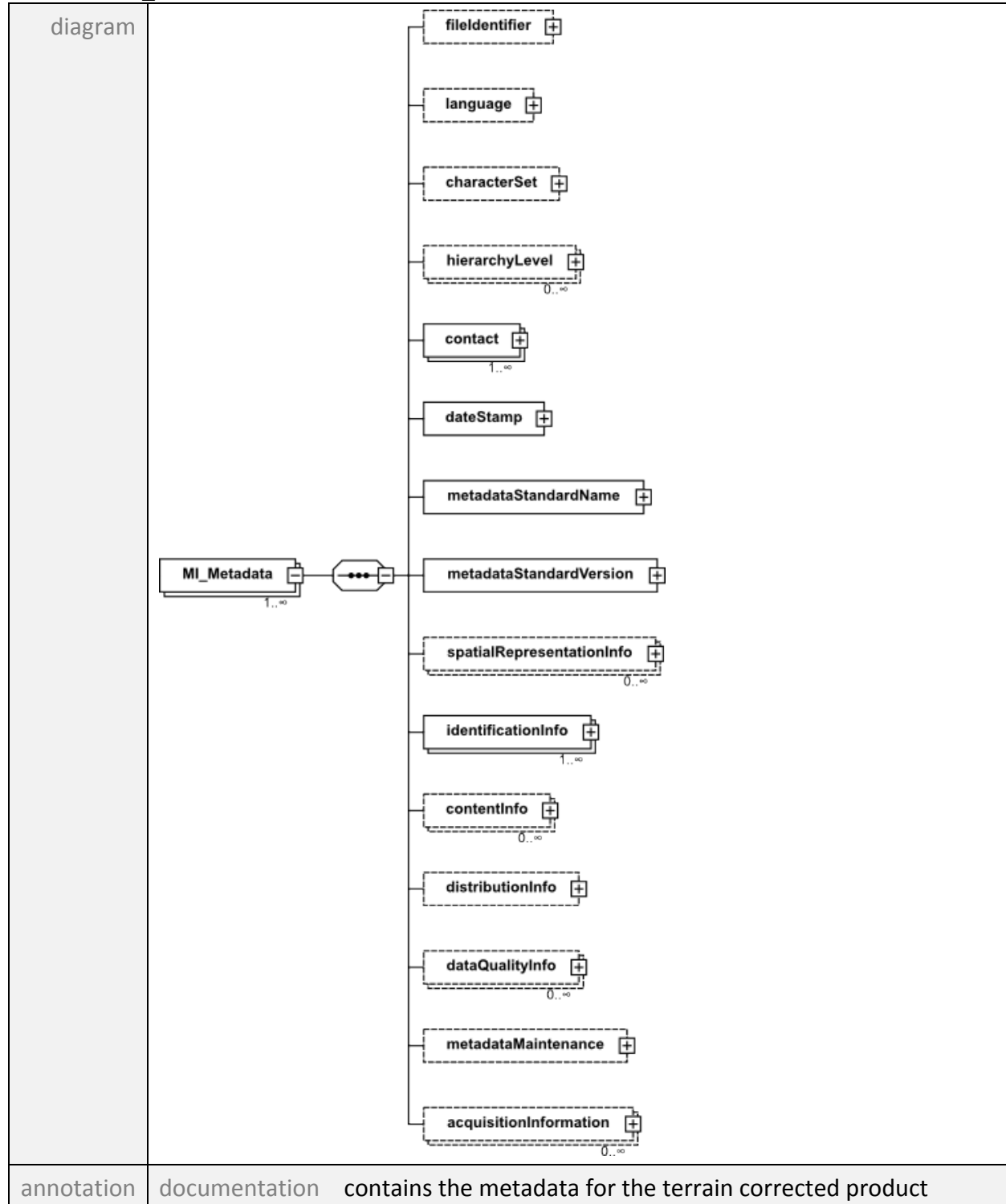
The structure is outlined in more detail below.





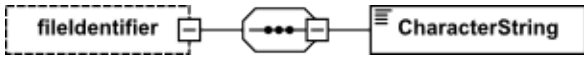
### 3.1 MI\_Metadata

#### element MI\_Metadata



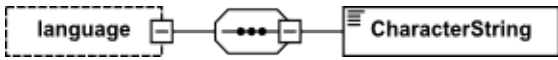
### 3.1.1 fileIdentifier

#### element MI\_Metadata/fileIdentifier

diagram	
type	<b>xs:string</b>
annotation	documentation file name of the terrain corrected product XML file

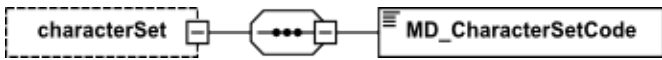
### 3.1.2 language

#### element MI\_Metadata/language

diagram	
type	<b>xs:string</b>
annotation	documentation language of the metadata record

### 3.1.3 characterSet

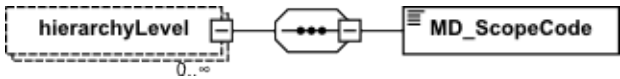
#### element MI\_Metadata/characterSet

diagram																											
type	<b>characterSetCode</b>																										
facets	<table border="0"> <tr><td>enumeration</td><td>ucs2</td></tr> <tr><td>enumeration</td><td>ucs4</td></tr> <tr><td>enumeration</td><td>utf7</td></tr> <tr><td>enumeration</td><td><b>utf8</b></td></tr> <tr><td>enumeration</td><td>utf16</td></tr> <tr><td>enumeration</td><td>8859part1</td></tr> <tr><td>enumeration</td><td>8859part2</td></tr> <tr><td>enumeration</td><td>8859part3</td></tr> <tr><td>enumeration</td><td>8859part4</td></tr> <tr><td>enumeration</td><td>8859part5</td></tr> <tr><td>enumeration</td><td>8859part6</td></tr> <tr><td>enumeration</td><td>8859part7</td></tr> <tr><td>enumeration</td><td>8859part8</td></tr> </table>	enumeration	ucs2	enumeration	ucs4	enumeration	utf7	enumeration	<b>utf8</b>	enumeration	utf16	enumeration	8859part1	enumeration	8859part2	enumeration	8859part3	enumeration	8859part4	enumeration	8859part5	enumeration	8859part6	enumeration	8859part7	enumeration	8859part8
enumeration	ucs2																										
enumeration	ucs4																										
enumeration	utf7																										
enumeration	<b>utf8</b>																										
enumeration	utf16																										
enumeration	8859part1																										
enumeration	8859part2																										
enumeration	8859part3																										
enumeration	8859part4																										
enumeration	8859part5																										
enumeration	8859part6																										
enumeration	8859part7																										
enumeration	8859part8																										

	enumeration	8859part9		
	enumeration	8859part10		
	enumeration	8859part11		
	enumeration	8859part12		
	enumeration	8859part13		
	enumeration	8859part14		
	enumeration	8859part15		
	enumeration	8859part16		
	enumeration	jis		
	enumeration	shiftJIS		
	enumeration	eucJP		
	enumeration	usAscii		
	enumeration	ebcdic		
	enumeration	eucKR		
	enumeration	big6		
	enumeration	GB2312		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_CharacterSetCode
	codeListValue	<b>characterSetCode</b>	required	value from code list
annotation	documentation	name of the character coding standard used in the resource		

### 3.1.4 hierarchyLevel

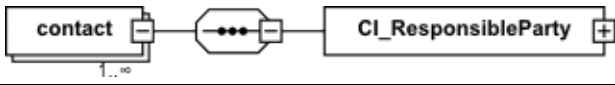
#### element MI\_Metadata/hierarchyLevel

diagram				
type	<b>scopeCode</b>			
facets	enumeration	attribute		
	enumeration	attributeType		
	enumeration	collectionHardware		
	enumeration	collectionSession		
	enumeration	<b>dataset</b>		
	enumeration	series		
	enumeration	nonGeographicDataset		

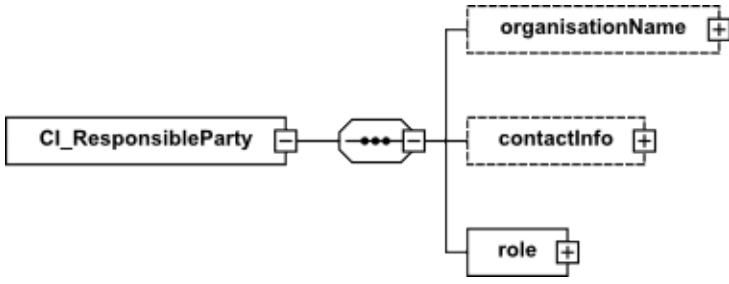
	enumeration	dimensionGroup		
	enumeration	feature		
	enumeration	featureType		
	enumeration	propertyType		
	enumeration	fieldSession		
	enumeration	software		
	enumeration	service		
	enumeration	model		
	enumeration	tile		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_ScopeCode
	codeListValue	<b>scopeCode</b>	required	value from code list
annotation	documentation	class of information to which the referencing entity applies		

### 3.1.5 contact

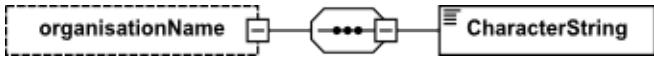
#### element **MI\_Metadata/contact**

diagram			
annotation	documentation	contact information	

#### element **MI\_Metadata/contact/CI\_ResponsibleParty**

diagram			
annotation	documentation	responsible party details	

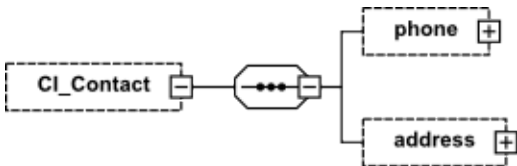
element MI\_Metadata/contact/CI\_ResponsibleParty/organisationName

diagram	
type	xs:string
annotation	documentation name of the responsible organization

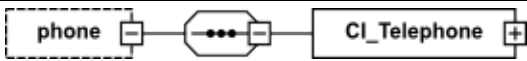
element MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo

diagram	
annotation	documentation contact information

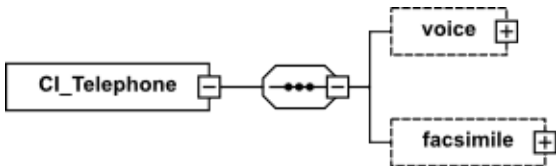
element MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact

diagram									
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>xs:string</td> <td>required</td> <td>ID for ASF contact information</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	id	xs:string	required	ID for ASF contact information
Name	Type	Use	Annotation						
id	xs:string	required	ID for ASF contact information						
annotation	documentation contact information details								

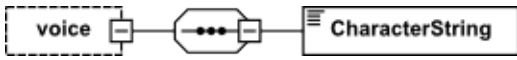
element MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone

diagram	
annotation	documentation contact phone information

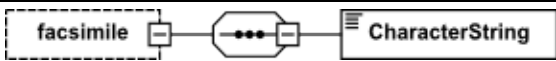
element MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/CI\_Telephone

diagram	
annotation	documentation contact telephone information details

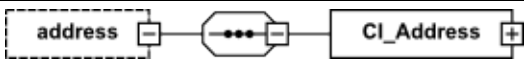
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/CI\_Telephone/voice**

diagram	
type	<b>xs:string</b>
annotation	documentation contact phone number

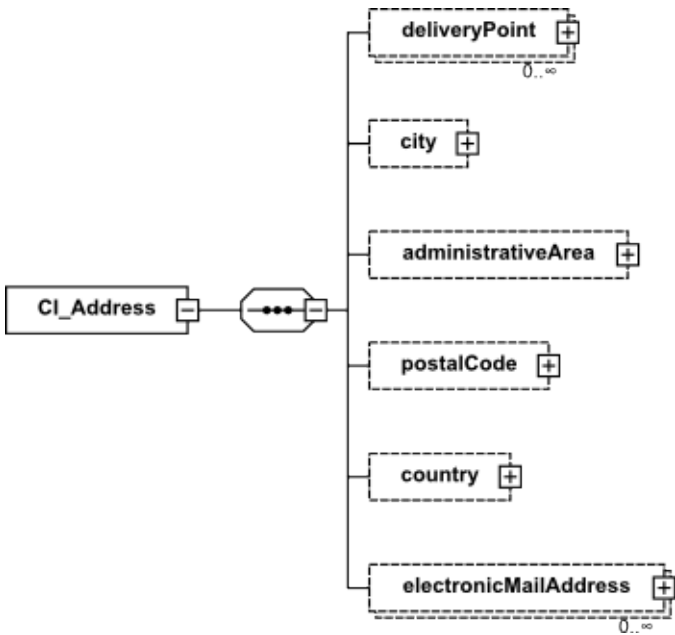
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/CI\_Telephone/facsimile**

diagram	
type	<b>xs:string</b>
annotation	documentation contact fax number

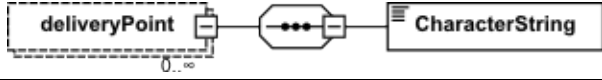
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address**

diagram	
annotation	documentation contract address

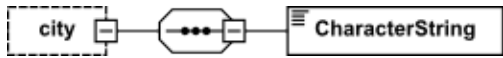
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address**

diagram	
annotation	documentation contact address details

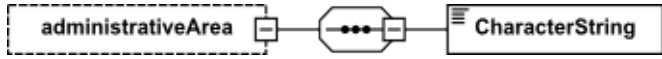
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/deliveryPoint**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: street

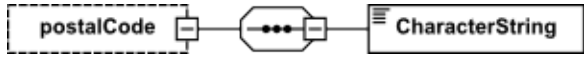
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/city**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: city

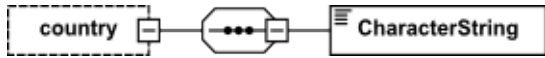
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/administrativeArea**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: administrative area

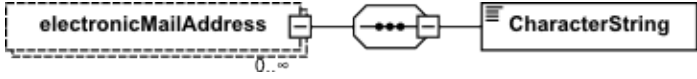
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/postalCode**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: postal code

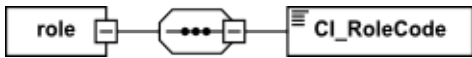
element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/country**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: country

element **MI\_Metadata/contact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/electronicMailAddress**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: email address

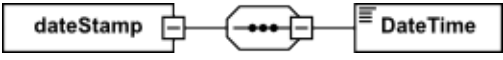
element **MI\_Metadata/contact/CI\_ResponsibleParty/role**

diagram																											
type	<b>roleCode</b>																										
facets	<table border="0"> <tr><td>enumeration</td><td>resourceProvider</td></tr> <tr><td>enumeration</td><td>custodian</td></tr> <tr><td>enumeration</td><td>owner</td></tr> <tr><td>enumeration</td><td>sponsor</td></tr> <tr><td>enumeration</td><td>user</td></tr> <tr><td>enumeration</td><td>distributor</td></tr> <tr><td>enumeration</td><td>originator</td></tr> <tr><td>enumeration</td><td><b>pointOfContact</b></td></tr> <tr><td>enumeration</td><td>principalInvestigator</td></tr> <tr><td>enumeration</td><td>processor</td></tr> <tr><td>enumeration</td><td>publisher</td></tr> <tr><td>enumeration</td><td>author</td></tr> <tr><td>enumeration</td><td>collaborator</td></tr> </table>	enumeration	resourceProvider	enumeration	custodian	enumeration	owner	enumeration	sponsor	enumeration	user	enumeration	distributor	enumeration	originator	enumeration	<b>pointOfContact</b>	enumeration	principalInvestigator	enumeration	processor	enumeration	publisher	enumeration	author	enumeration	collaborator
enumeration	resourceProvider																										
enumeration	custodian																										
enumeration	owner																										
enumeration	sponsor																										
enumeration	user																										
enumeration	distributor																										
enumeration	originator																										
enumeration	<b>pointOfContact</b>																										
enumeration	principalInvestigator																										
enumeration	processor																										
enumeration	publisher																										
enumeration	author																										
enumeration	collaborator																										
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>codeList</td> <td><b>xs:string</b></td> <td>required</td> <td>CI_RoleCode</td> </tr> <tr> <td>codeListValue</td> <td><b>roleCode</b></td> <td>required</td> <td>value from code list</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	codeList	<b>xs:string</b>	required	CI_RoleCode	codeListValue	<b>roleCode</b>	required	value from code list														
Name	Type	Use	Annotation																								
codeList	<b>xs:string</b>	required	CI_RoleCode																								
codeListValue	<b>roleCode</b>	required	value from code list																								
annotation	documentation function performed by the responsible party																										



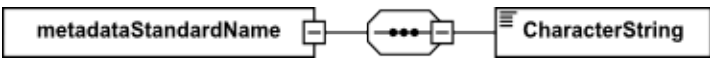
### 3.1.6 dateStamp

#### element MI\_Metadata/dateStamp

diagram	
type	xs:date
annotation	documentation date that the metadata was last updated

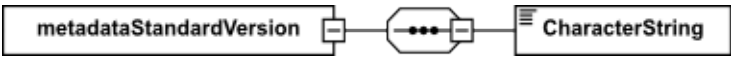
### 3.1.7 metadataStandardName

#### element MI\_Metadata/metadataStandardName

diagram	
type	xs:string
annotation	documentation name of the metadata standard

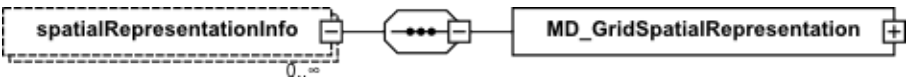
### 3.1.8 metadataStandardVersion

#### element MI\_Metadata/metadataStandardVersion


diagram	
type	xs:string
annotation	documentation version of the metadata standard

### 3.1.9 spatialRepresentationInfo

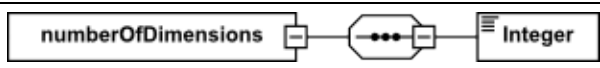
#### element MI\_Metadata/spatialRepresentationInfo

diagram	
annotation	documentation spatial representation information

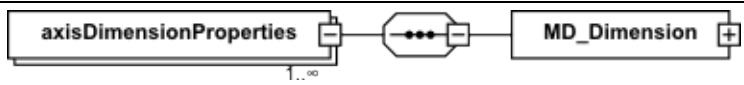
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation**

<p>diagram</p>	 <p>The diagram shows the structure of the <b>MD_GridSpatialRepresentation</b> element. It is a container element (rectangle with a minus sign) that contains a sequence container (hexagon with three dots) of other elements. The elements included are: <b>numberOfDimensions</b> (rectangle with a plus sign), <b>axisDimensionProperties</b> (rectangle with a plus sign and a multiplicity of 1..∞), <b>cellGeometry</b> (rectangle with a plus sign), <b>transformationParameterAvailability</b> (rectangle with a plus sign), <b>otherPropertyType</b> (rectangle with a plus sign), and <b>otherProperty</b> (rectangle with a plus sign).</p>
<p>annotation</p>	<p>documentation grid spatial representation details</p>

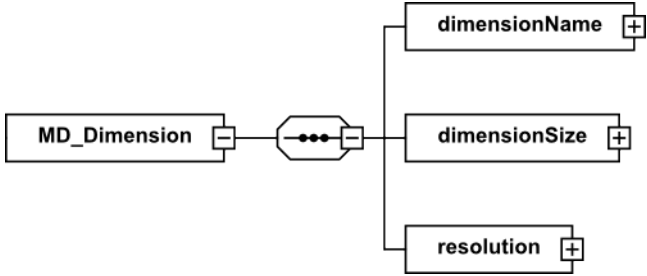
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/numberOfDimensions**

<p>diagram</p>	 <p>The diagram shows the structure of the <b>numberOfDimensions</b> element. It is a container element (rectangle with a minus sign) that contains a sequence container (hexagon with three dots) which in turn contains an <b>Integer</b> element (rectangle with a plus sign).</p>
<p>type</p>	<p><b>xs:int</b></p>
<p>annotation</p>	<p>documentation number of dimensions</p>

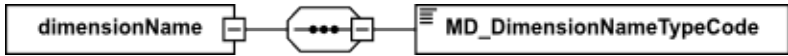
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/axisDimensionProperties**

<p>diagram</p>	 <p>The diagram shows the structure of the <b>axisDimensionProperties</b> element. It is a container element (rectangle with a minus sign) that contains a sequence container (hexagon with three dots) which in turn contains an <b>MD_Dimension</b> element (rectangle with a plus sign). The multiplicity of the <b>axisDimensionProperties</b> element is 1..∞.</p>
<p>annotation</p>	<p>documentation axis dimension properties</p>

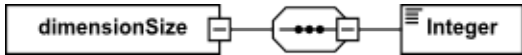
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/axisDimensionProperties/MD\_Dimension**

diagram	
annotation	documentation dimension details

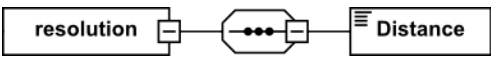
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/axisDimensionProperties/MD\_Dimension/dimensionName**

diagram													
type	<b>dimensionNameTypeCode</b>												
facets	enumeration <b>row</b> enumeration <b>column</b> enumeration vertical enumeration track enumeration crossTrack enumeration line enumeration sample enumeration time												
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>codeList</td> <td><b>xs:string</b></td> <td>required</td> <td>MD_DimensionNameTypeCode</td> </tr> <tr> <td>codeListValue</td> <td><b>dimensionName TypeCode</b></td> <td>required</td> <td>value of code list</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	codeList	<b>xs:string</b>	required	MD_DimensionNameTypeCode	codeListValue	<b>dimensionName TypeCode</b>	required	value of code list
Name	Type	Use	Annotation										
codeList	<b>xs:string</b>	required	MD_DimensionNameTypeCode										
codeListValue	<b>dimensionName TypeCode</b>	required	value of code list										
annotation	documentation name of the dimension												

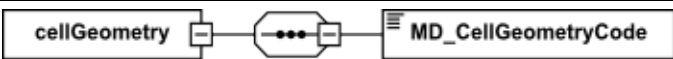
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/axisProperties/MD\_Dimension/dimensionSize**

diagram	
type	<b>xs:int</b>
annotation	documentation size of the dimension

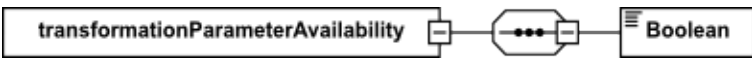
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/axisProperties/MD\_Dimension/resolution**

diagram	
type	<b>xs:float</b>
annotation	documentation resolution


element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/cellGeometry**

diagram													
type	<b>cellGeometryCode</b>												
facets	enumeration point enumeration <b>area</b>												
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>codeList</td> <td><b>xs:string</b></td> <td>required</td> <td>MD_CellGeometryCode</td> </tr> <tr> <td>codeListValue</td> <td><b>cellGeometryCode</b></td> <td>required</td> <td>value of code list</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	codeList	<b>xs:string</b>	required	MD_CellGeometryCode	codeListValue	<b>cellGeometryCode</b>	required	value of code list
Name	Type	Use	Annotation										
codeList	<b>xs:string</b>	required	MD_CellGeometryCode										
codeListValue	<b>cellGeometryCode</b>	required	value of code list										
annotation	documentation cell geometry												

element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/transformationParameterAvailability**

diagram	
type	<b>xs:Boolean</b>
annotation	documentation transformation parameter availability

element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherPropertyType**

diagram									
type	<b>xs:string</b>								
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>href</td> <td><b>xlink:href</b></td> <td>required</td> <td>EOS Additional Attributes</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	href	<b>xlink:href</b>	required	EOS Additional Attributes
Name	Type	Use	Annotation						
href	<b>xlink:href</b>	required	EOS Additional Attributes						
annotation	documentation other property type – EOS additional attributes								

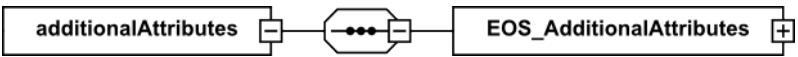
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty**

diagram	
annotation	documentation other property – additional attributes

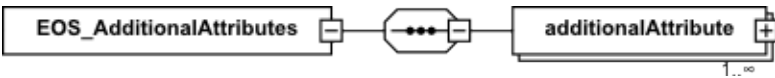
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record**

diagram	
annotation	documentation other property record

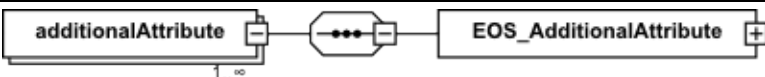
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes**

diagram	
annotation	documentation additional attributes

element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes**

diagram	
annotation	documentation EOS additional attributes

element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute**

diagram	
annotation	documentation additionalAttribute



element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AadditionalAttributes/additionalAttribute/EOS\_AadditionalAttribute**

diagram	
annotation	documentation EOS_AadditionalAttribute


element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AadditionalAttributes/additionalAttribute/EOS\_AadditionalAttribute/reference**

diagram	
annotation	documentation additional attribute reference

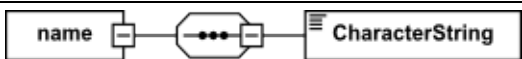
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AadditionalAttributes/additionalAttribute/EOS\_AadditionalAttribute/reference/EOS\_AadditionalAttributeDescription**

diagram	
annotation	documentation cell geometry


element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/type**

diagram				
type	<b>additionalAttributeTypeCode</b>			
facets	enumeration	<b>spatialInformation</b>		
	enumeration	<b>acquisitionInformation</b>		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	EOS_AdditionalAttributeTypeCode
	codeListValue	<b>EOS_AdditionalAttributeTypeCode</b>	required	value of code list
annotation	documentation	additional attribute: type		


element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/name**

diagram				
type	<b>xs:string</b>			
annotation	documentation	additional attribute: name		

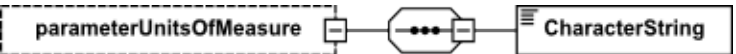
element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/description**

diagram				
type	<b>xs:string</b>			
annotation	documentation	additional attribute: description		

element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/dataType**

diagram				
type	<b>additionalAttributeDataTypeCode</b>			
facets	enumeration	STRING		
	enumeration	FLOAT		
	enumeration	INT		
	enumeration	BOOLEAN		
	enumeration	DATE		
	enumeration	TIME		
	enumeration	DATETIME		
	enumeration	DATE_STRING		
	enumeration	TIME_STRING		
	enumeration	DATETIME_STRING		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	EOS_AdditionalAttribute
		<b>additionalAttribute</b>		DataTypeCode
	codeListValue	<b>DataTypeCode</b>	required	value of code list
annotation	documentation	additional attribute: data type		

element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/parameterUnitsOfMeasure**

diagram				
type	<b>xs:string</b>			
annotation	documentation	additional attribute: parameter units of measure		



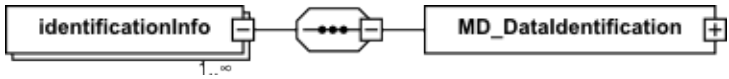


element **MI\_Metadata/spatialRepresentationInfo/MD\_GridSpatialRepresentation/  
otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/  
additionalAttribute/EOS\_AdditionalAttribute/value**

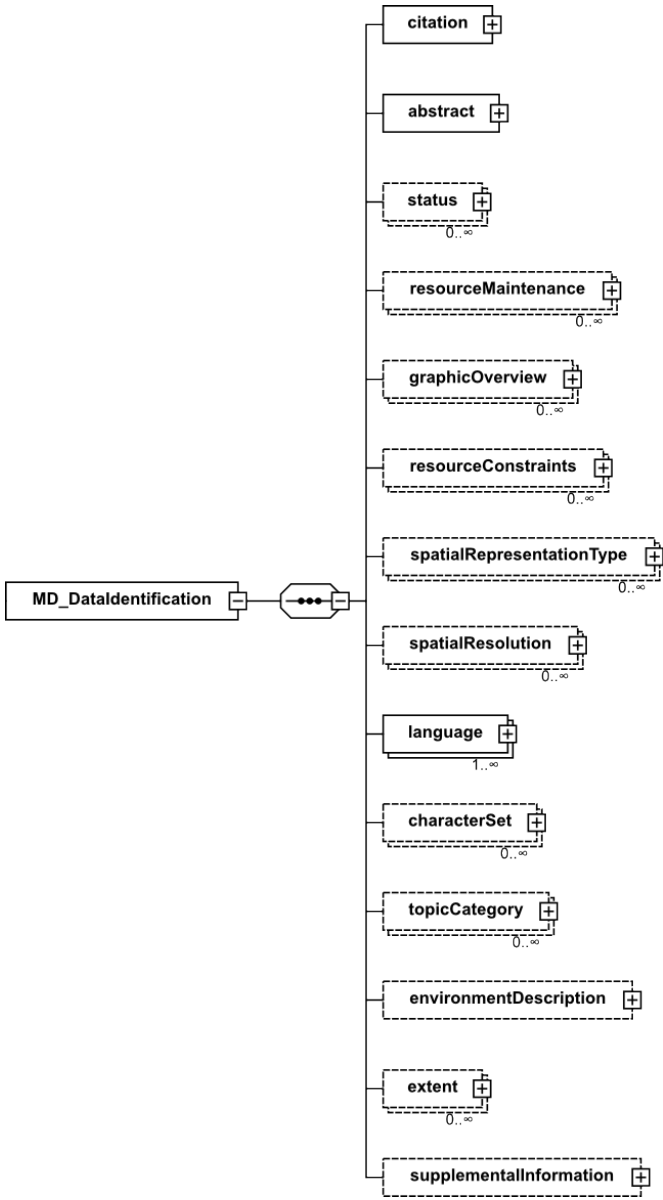
diagram	<p>The diagram illustrates the structure of the 'value' element. It is connected to a choice element (represented by a circle with three vertical bars) which branches into four possible data types: CharacterString, Real, Integer, and Boolean.</p>
type	<b>xs:string, xs:float, xs:int or xs:boolean</b>
annotation	documentation additional attribute: value

### 3.1.10 identificationInfo

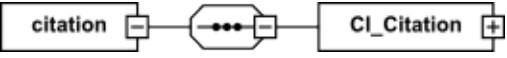
#### element MI\_Metadata/identificationInfo

diagram	
annotation	documentation dataset identification information

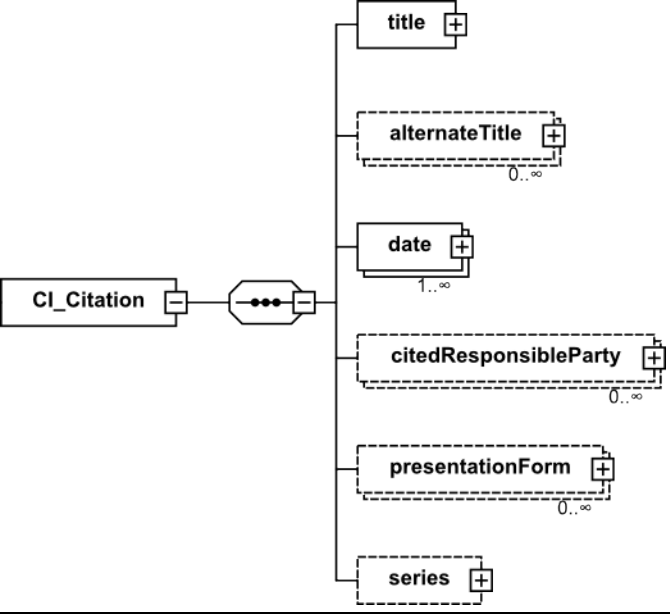
#### element MI\_Metadata/identificationInfo/MD\_DataIdentification

diagram	
annotation	documentation data identification details

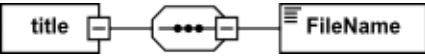
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation**

diagram	
annotation	documentation data citation

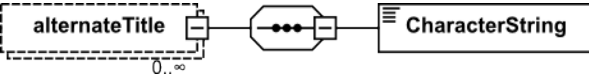
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation**

diagram	
annotation	documentation data citation details

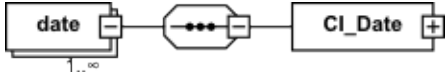
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/title**

diagram	
type	<b>xs:string</b>
annotation	documentation data citation: title

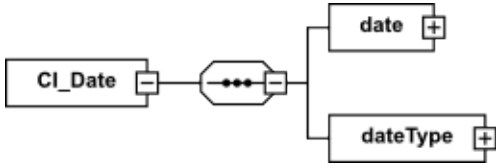
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/alternateTitle**

diagram	
type	<b>xs:string</b>
annotation	documentation data citation: alternateTitle

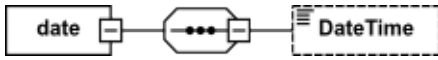
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/date**

diagram	
annotation	documentation data citation: date

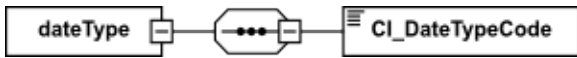
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/date/CI\_Date**

diagram	
annotation	documentation data citation: date details

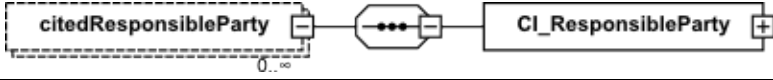
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/date/CI\_Date/date**

diagram	
type	<b>xs:date</b>
annotation	documentation date time stamp – e.g. 2014-01-29T23:47:03.000000Z

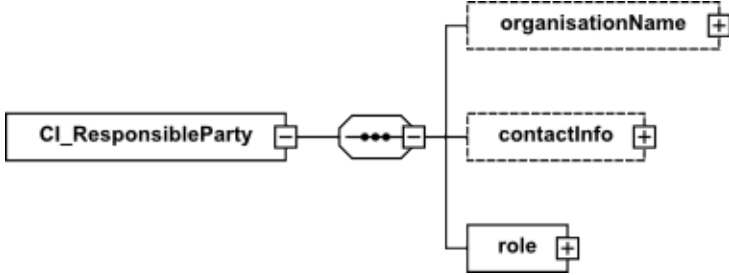
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/date/CI\_Date/dateType**

diagram													
type	<b>dateTypeCode</b>												
facets	enumeration <b>creation</b> enumeration publication enumeration revision												
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>codeList</td> <td><b>xs:string</b></td> <td>required</td> <td>CI_DateTypeCode</td> </tr> <tr> <td>codeListValue</td> <td><b>dataTypeCode</b></td> <td>required</td> <td>value of code list</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	codeList	<b>xs:string</b>	required	CI_DateTypeCode	codeListValue	<b>dataTypeCode</b>	required	value of code list
Name	Type	Use	Annotation										
codeList	<b>xs:string</b>	required	CI_DateTypeCode										
codeListValue	<b>dataTypeCode</b>	required	value of code list										
annotation	documentation type of date stamp												

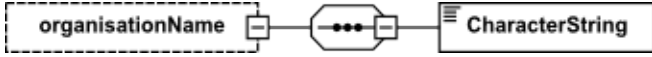
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty**

diagram	
annotation	documentation data citation: cited responsible party

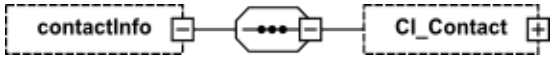
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty**

diagram	
annotation	documentation data citation: cited responsible party details

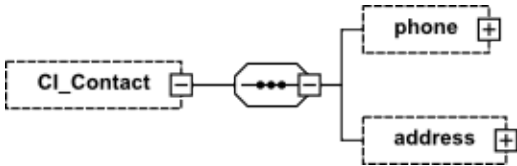
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/organisationName**

diagram	
type	xs:string
annotation	documentation name of the responsible organization


element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/contactInfo**

diagram	
annotation	documentation contact information

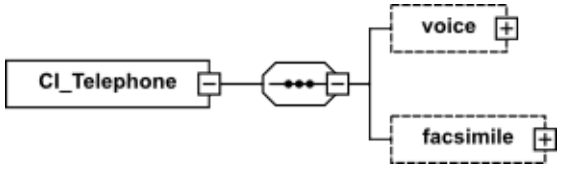
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact**

diagram	
annotation	documentation contact information details

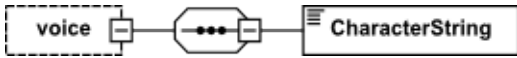
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone**

diagram	
annotation	documentation contact phone information

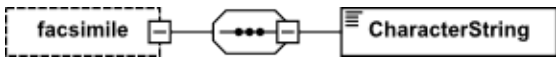
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/  
CI\_Telephone**

diagram	
annotation	documentation contact telephone information details

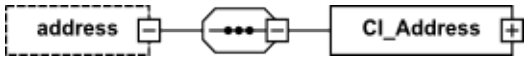
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/  
CI\_Telephone/voice**

diagram	
type	<b>xs:string</b>
annotation	documentation contact phone number

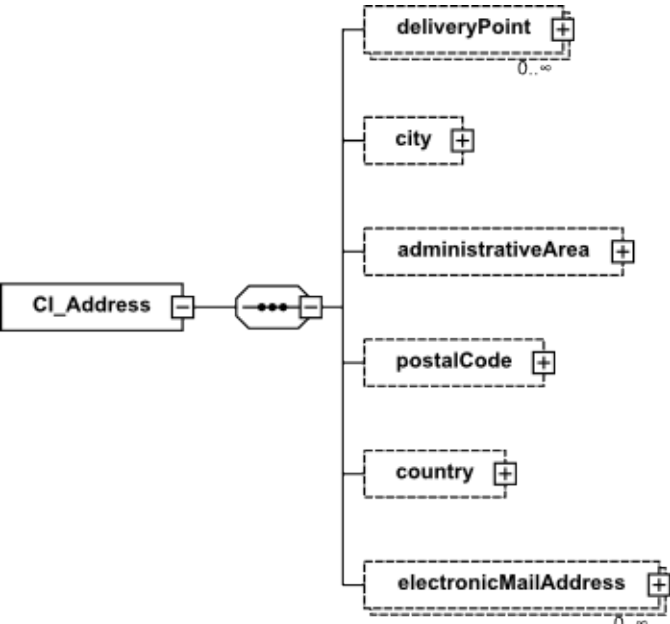
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/  
CI\_Telephone/facsimile**

diagram	
type	<b>xs:string</b>
annotation	documentation contact fax number

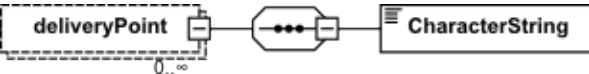
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address**

diagram	
annotation	documentation contact address information


element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address**

diagram	
annotation	documentation contact address information details

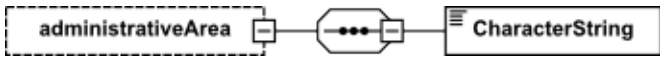
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/deliveryPoint**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: street

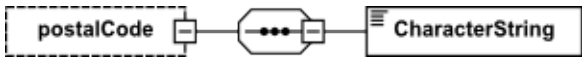
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/city**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: city

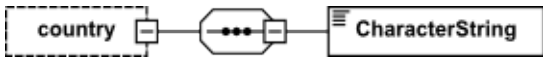
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/administrativeArea**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: administrative area

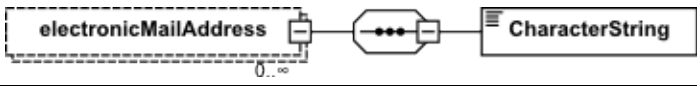
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/postalCode**

diagram	
type	<b>xs:string</b>
annotation	documentation contact address: postal code

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/country**


diagram	
type	<b>xs:string</b>
annotation	documentation contact address: country

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/electronicMailAddress**

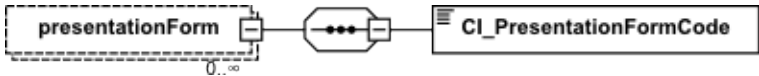
diagram	
type	<b>xs:string</b>
annotation	documentation contact address: email address



element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
citedResponsibleParty/CI\_ResponsibleParty/role**

diagram				
type	<b>roleCode</b>			
facets	enumeration	resourceProvider		
	enumeration	custodian		
	enumeration	owner		
	enumeration	sponsor		
	enumeration	user		
	enumeration	<b>distributor</b>		
	enumeration	<b>originator</b>		
	enumeration	pointOfContact		
	enumeration	principalInvestigator		
	enumeration	processor		
	enumeration	publisher		
	enumeration	author		
	enumeration	collaborator		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	CI_RoleCode
	codeListValue	<b>roleCode</b>	required	value from code list
annotation	documentation	function performed by the responsible party		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/  
presentationForm**

diagram				
type	<b>presentationFormCode</b>			
facets	enumeration	<b>documentDigital</b>		
	enumeration	documentHardcopy		
	enumeration	imageDigital		
	enumeration	imageHardcopy		
	enumeration	mapDigital		
	enumeration	mapHardcopy		
	enumeration	modelDigital		



	enumeration	modelHardcopy		
	enumeration	profileDigital		
	enumeration	profileHardcopy		
	enumeration	tableDigital		
	enumeration	tableHardcopy		
	enumeration	videoDigital		
	enumeration	videoHardcopy		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	require	CI_PresentationFormCode
	codeListValue	<b>presentationFormCode</b>	require	value of code list
annotation	documentation	presentation form		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/series**

diagram	
annotation	documentation series the dataset belongs to

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/series/CI\_Series**

diagram	
annotation	documentation series details

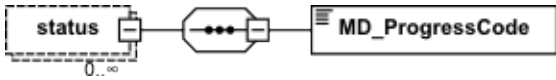
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/citation/CI\_Citation/series/CI\_Series/name**

diagram	
type	<b>xs:string</b>
annotation	documentation name of the data series

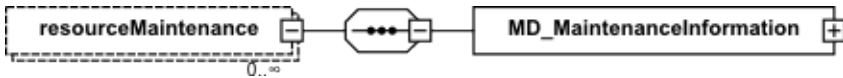
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/abstract**

diagram	
type	<b>xs:string</b>
annotation	documentation abstract describing the data

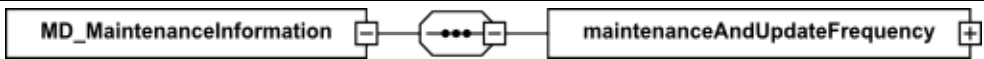
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/status**

diagram				
type	<b>progressCode</b>			
facets	enumeration	<b>completed</b>		
	enumeration	historicalArchive		
	enumeration	obsolete		
	enumeration	onGoing		
	enumeration	planned		
	enumeration	required		
	enumeration	underDevelopment		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_ProgressCode
	codeListValue	<b>progressCode</b>	required	value of code list
annotation	documentation	status of the dataset or progress of a review		

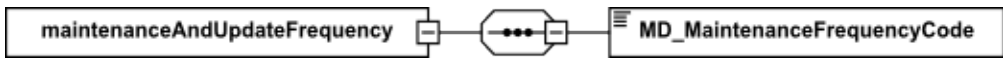
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceMaintenance**

diagram				
annotation	documentation	resource maintenance information		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceMaintenance/MD\_MaintenanceInformation**

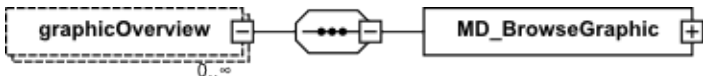
diagram				
annotation	documentation	metadata maintenance details		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceMaintenance/MD\_MaintenanceInformation/maintenanceAndUpdateFrequency**

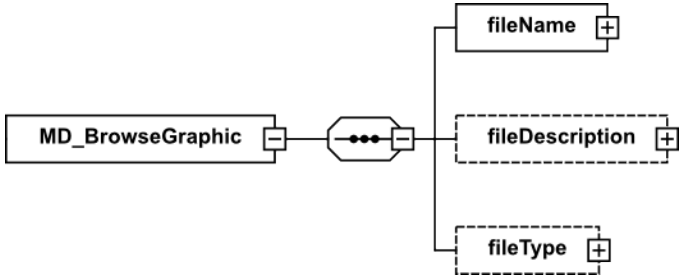
diagram				
type	<b>maintenanceFrequencyCode</b>			
facets	enumeration	continual		
	enumeration	daily		
	enumeration	weekly		

	enumeration	fortnightly		
	enumeration	monthly		
	enumeration	quarterly		
	enumeration	biannually		
	enumeration	annually		
	enumeration	<b>asNeeded</b>		
	enumeration	irregular		
	enumeration	notPlanned		
	enumeration	unknown		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_MaintenanceFrequencyCode
	codeListValue	<b>maintenance FrequencyCode</b>	required	value of code list
annotation	documentation	frequency with which modifications and deletions are made to the data after it is first produced		

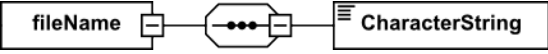
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/graphicOverview**

diagram			
annotation	documentation	browse image information	


element **MI\_Metadata/identificationInfo/MD\_DataIdentification/graphicOverview/MD\_BrowseGraphic**

diagram			
annotation	documentation	browse image information details	

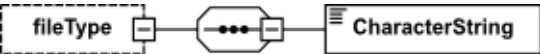
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/graphicOverview/MD\_BrowseGraphic/fileName**

diagram	
type	<b>xs:string</b>
annotation	documentation browse image information: file name

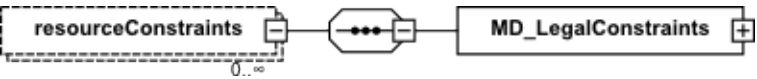
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/graphicOverview/MD\_BrowseGraphic/fileDescription**

diagram	
type	<b>xs:string</b>
annotation	documentation browse image information: file description

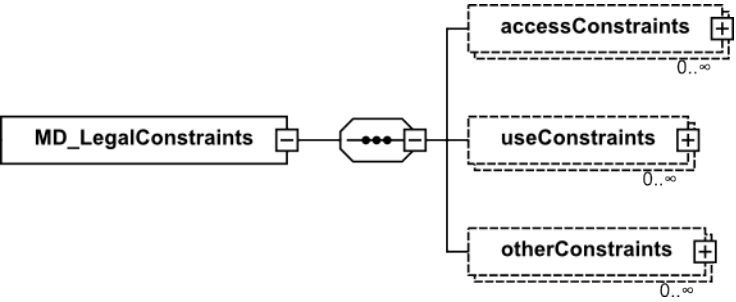
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/graphicOverview/MD\_BrowseGraphic/fileType**

diagram	
type	<b>xs:string</b>
annotation	documentation browse image information: file type

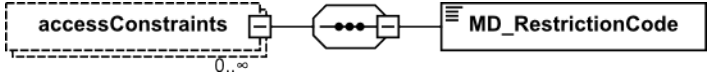
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceConstraints**

diagram	
annotation	documentation resource constraints

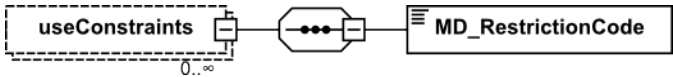
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceConstraints/MD\_LegalConstraints**

diagram	
annotation	documentation resource constraints details

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceConstraints/MD\_LegalConstraints/accessConstraints**

diagram				
type	<b>restrictionCode</b>			
facets	enumeration	copyright		
	enumeration	patent		
	enumeration	patentPending		
	enumeration	trademark		
	enumeration	license		
	enumeration	intellectualPropertyRights		
	enumeration	restricted		
	enumeration	<b>otherRestrictions</b>		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_RestrictionCode
	codeListValue	<b>restrictionCode</b>	required	value of code list
annotation	documentation	limitation(s) placed upon the access or use of the data		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceConstraints/MD\_LegalConstraints/useConstraints**

diagram				
type	<b>MD_RestrictionCode</b>			
facets	enumeration	copyright		
	enumeration	patent		
	enumeration	patentPending		
	enumeration	trademark		
	enumeration	license		
	enumeration	intellectualPropertyRights		
	enumeration	restricted		
	enumeration	<b>otherRestrictions</b>		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_RestrictionCode
	codeListValue	<b>restrictionCode</b>	required	value of code list



annotation	documentation	limitation(s) placed upon the access or use of the data
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element **MI\_Metadata/identificationInfo/MD\_DataIdentification/resourceConstraints/MD\_LegalConstraints/otherConstraints**

diagram		
type	<b>xs:string</b>	
annotation	documentation	resource constraints: other constraints

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/spatialRepresentationType**

diagram				
type	<b>spatialRepresentationTypeCode</b>			
facets	enumeration	vector		
	enumeration	<b>grid</b>		
	enumeration	textTable		
	enumeration	tin		
	enumeration	stereoModel		
	enumeration	video		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_SpatialRepresentationTypeCode
	codeListValue	<b>spatialRepresentationTypeCode</b>	required	value of code list
annotation	documentation	method used to represent geographic information in the dataset		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/language**

diagram		
type	<b>xs:language</b>	
annotation	documentation	language

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/characterSet**

diagram			
type	<b>characterSetCode</b>		
facets	enumeration	ucs2	
	enumeration	ucs4	
	enumeration	utf7	
	enumeration	<b>utf8</b>	
	enumeration	utf16	
	enumeration	8859part1	
	enumeration	8859part2	
	enumeration	8859part3	
	enumeration	8859part4	
	enumeration	8859part5	
	enumeration	8859part6	
	enumeration	8859part7	
	enumeration	8859part8	
	enumeration	8859part9	
	enumeration	8859part10	
	enumeration	8859part11	
	enumeration	8859part12	
	enumeration	8859part13	
	enumeration	8859part14	
	enumeration	8859part15	
	enumeration	8859part16	
	enumeration	jis	
	enumeration	shiftJIS	
	enumeration	eucJP	
	enumeration	usAscii	
	enumeration	ebcdic	
	enumeration	eucKR	
	enumeration	big6	
	enumeration	GB2312	
attribute	Name	Type	attribute Name



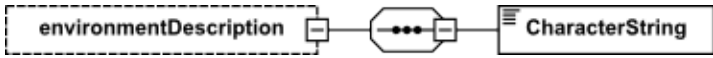


	codeList	<b>xs:string</b>	required	MD_CharacterSetCode
	codeListValue	<b>characterSetCode</b>	required	value of code list
annotation	documentation	name of the character coding standard used in the resource		

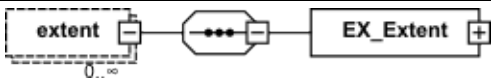
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/topicCategory**

diagram				
type	<b>topicCategoryCode</b>			
facets	enumeration	farming		
	enumeration	biota		
	enumeration	boundaries		
	enumeration	climatologyMeteorologyAtmosphere		
	enumeration	economy		
	enumeration	elevation		
	enumeration	environment		
	enumeration	<b>geoscientificInformation</b>		
	enumeration	health		
	enumeration	imageBaseMapsEarthCover		
	enumeration	intelligenceMilitary		
	enumeration	inlandWaters		
	enumeration	location		
	enumeration	oceans		
	enumeration	planningCadastre		
	enumeration	society		
	enumeration	structure		
	enumeration	transportation		
	enumeration	utilitiesCommunication		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_TopicCategoryCode
	codeListValue	<b>topicCategoryCode</b>	required	value of code list
annotation	documentation	high-level geographic data thematic classification to assist in the grouping and search of available geographic data sets. Can be used to group keywords as well. Listed examples are not exhaustive		

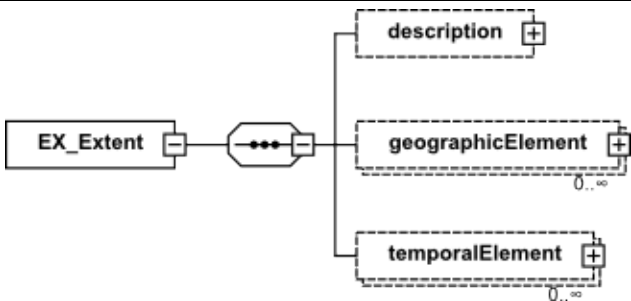
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/environmentDescription**

diagram	
type	<b>xs:string</b>
annotation	documentation description of the environment


element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent**

diagram	
annotation	documentation geographic extent of dataset

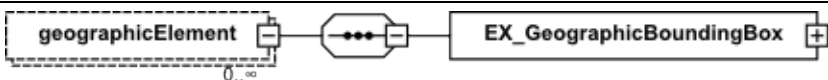
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent**

diagram	
annotation	documentation geographic extent details

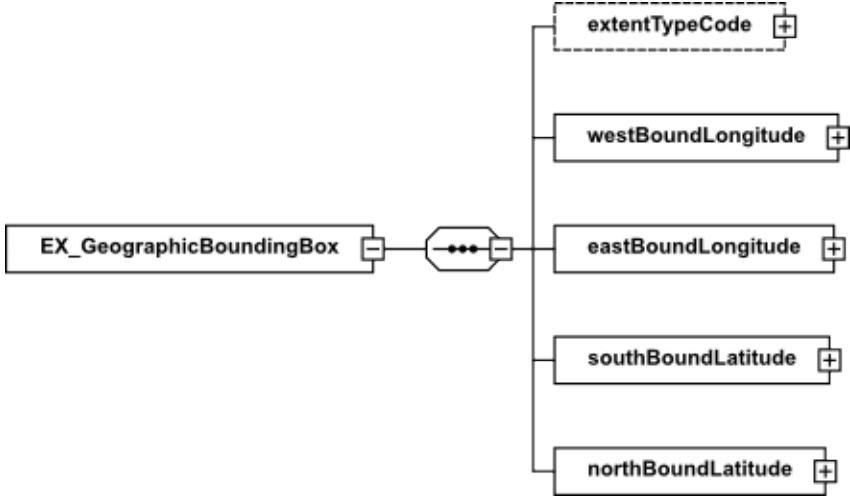
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/description**

diagram	
type	<b>xs:string</b>
annotation	documentation geographic extent: description

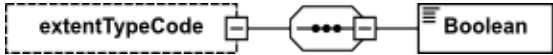
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/geographicElement**

diagram	
annotation	documentation geographic extent: geographic elements


element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/geographicElement/EX\_GeographicBoundingBox**

diagram	 <p>The diagram shows the structure of the EX_GeographicBoundingBox element. It is a container element (rectangle with a small square on the right) containing a sequence container (hexagon with three dots) which in turn contains five child elements: extentTypeCode (dashed box), westBoundLongitude, eastBoundLongitude, southBoundLatitude, and northBoundLatitude. Each child element has a small square on its right side and a plus sign (+) in a box, indicating they are optional or have a default value.</p>			
attribute	Name	Type	Use	Annotation
	id	xs:string	required	identifier
annotation	documentation	geographic extent: bounding box		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/geographicElement/EX\_GeographicBoundingBox/extentTypeCode**

diagram	 <p>The diagram shows the structure of the extentTypeCode element. It is a container element (rectangle with a small square on the right) containing a sequence container (hexagon with three dots) which contains a Boolean element (rectangle with a small square on the right and a plus sign in a box).</p>			
type	xs:Boolean			
annotation	documentation	geographic bounding box: extent type code		

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/geographicElement/EX\_GeographicBoundingBox/westBoundLongitude**

diagram	 <p>The diagram shows the structure of the westBoundLongitude element. It is a container element (rectangle with a small square on the right) containing a sequence container (hexagon with three dots) which contains a Decimal element (rectangle with a small square on the right and a plus sign in a box).</p>			
type	xs:decimal			
annotation	documentation	geographic bounding box: west bound longitude		



element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/  
geographicElement/EX\_GeographicBoundingBox/eastBoundLongitude**

diagram	
type	<b>xs:decimal</b>
annotation	documentation geographic bounding box: east bound longitude

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/  
geographicElement/EX\_GeographicBoundingBox/southBoundLatitude**

diagram	
type	<b>xs:decimal</b>
annotation	documentation geographic bounding box: south bound latitude

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/  
geographicElement/EX\_GeographicBoundingBox/northBoundLatitude**

diagram	
type	<b>xs:decimal</b>
annotation	documentation geographic bounding box: north bound latitude

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/  
temporalElement**

diagram	
annotation	documentation geographic extent: temporal element

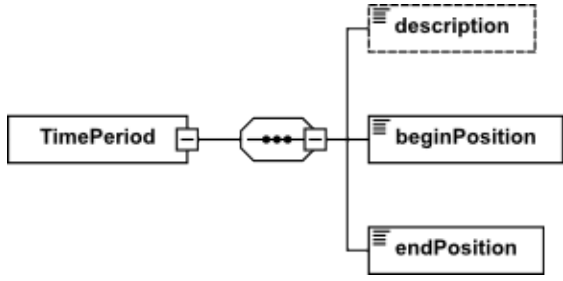
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/  
temporalElement/EX\_TemporalExtent**

diagram	
annotation	documentation temporal extent details

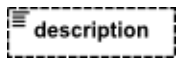
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/  
temporalElement/EX\_TemporalExtent/extent**

diagram	
annotation	documentation temporal extent


element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/temporalElement/EX\_TemporalExtent/extent/TimePeriod**

diagram	
type	<b>xs:string</b>
annotation	documentation time period details

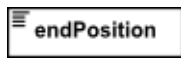
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/temporalElement/EX\_TemporalExtent/extent/TimePeriod/description**

diagram	
type	<b>xs:string</b>
annotation	documentation time period: description

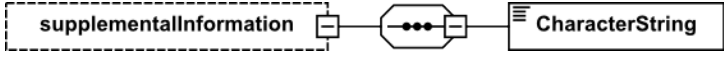
element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/temporalElement/EX\_TemporalExtent/extent/TimePeriod/beginPosition**

diagram	
type	<b>xs:string</b>
annotation	documentation time period: begin position

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/EX\_Extent/temporalElement/EX\_TemporalExtent/extent/TimePeriod/endTime**

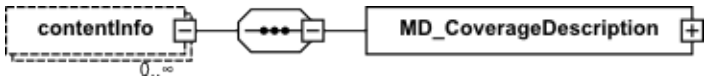
diagram	
type	<b>xs:string</b>
annotation	documentation time period: end position

element **MI\_Metadata/identificationInfo/MD\_DataIdentification/extent/supplementalInformation**

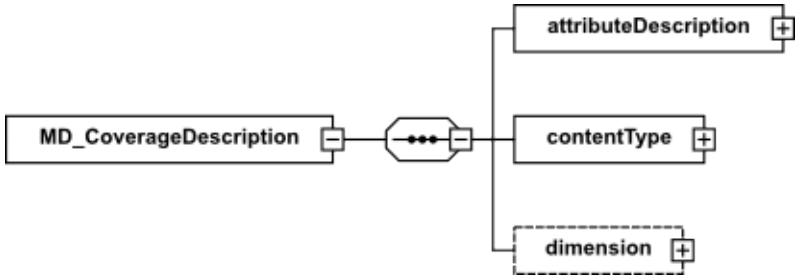
diagram	
annotation	documentation supplemental information

**3.1.11 contentInfo**

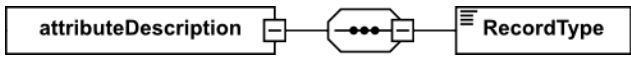
element **MI\_Metadata/contentInfo**

diagram	
annotation	documentation content information


element **MI\_Metadata/contentInfo/MD\_CoverageDescription**

diagram	
annotation	documentation coverage description

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/attributeDescription**

diagram	
type	<b>xs:string</b>
annotation	documentation attribute description

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/contentType**

diagram	
type	<b>coverageContentTypeCode</b>
facets	enumeration <b>image</b> enumeration thematicClassification enumeration physicalMeasurement enumeration referenceInformation

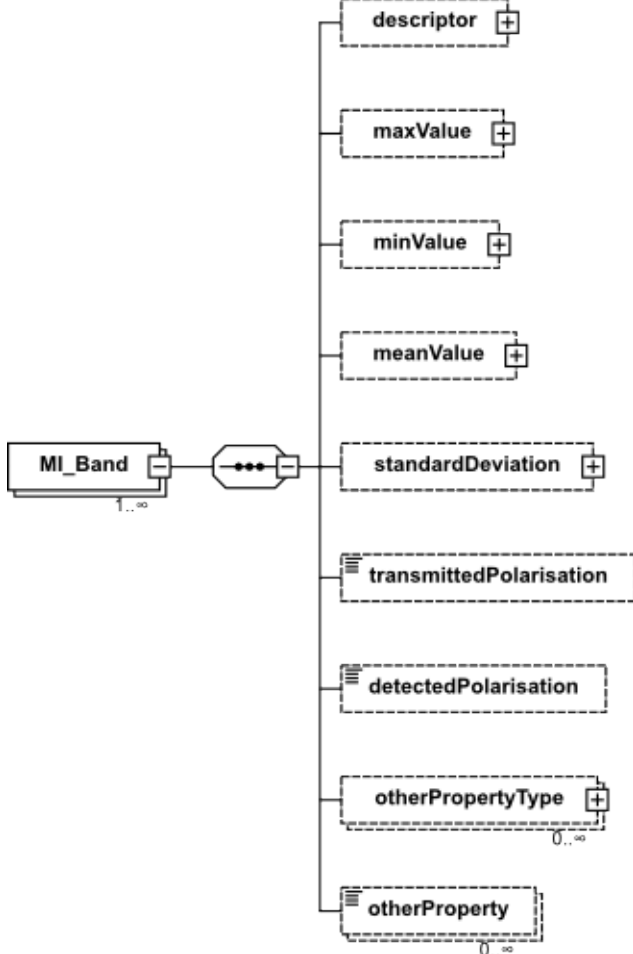


	enumeration	auxiliaryData		
	enumeration	qualityInformation		
	enumeration	modelResult		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_CoverageContent TypeCode
	codeListValue	<b>coverageContentTypeCode</b>	required	value of code list
annotation	documentation	specific type of information represented in the cell		


element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension**

diagram				
annotation	documentation	band information		

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band**

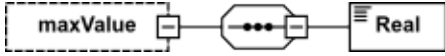
<p>diagram</p>	
<p>annotation</p>	<p>documentation band parameters</p>

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/descriptor**

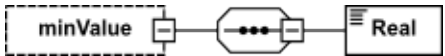
<p>diagram</p>	
<p>type</p>	<p><b>xs:string</b></p>
<p>annotation</p>	<p>documentation band parameters: descriptor</p>



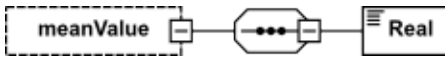
element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/  
maxValue**

diagram	
type	<b>xs:float</b>
annotation	documentation band parameters: maximum value

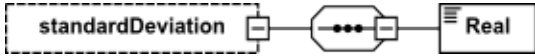
element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/  
minValue**

diagram	
type	<b>xs:float</b>
annotation	documentation band parameters: minimum value

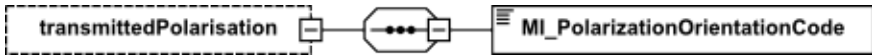
element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/  
meanValue**

diagram	
type	<b>xs:float</b>
annotation	documentation band parameters: mean value

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/  
standardDeviation**

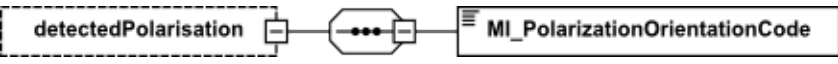
diagram	
type	<b>xs:float</b>
annotation	documentation band parameters: standard deviation

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/  
transmittedPolarisation**


diagram	
type	<b>polarizationOrientationCode</b>
facets	enumeration <b>horizontal</b> enumeration <b>vertical</b> enumeration leftCircular enumeration rightCircular

	enumeration	theta		
	enumeration	phi		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MI_PolarizationOrientationCode
	codeListValue	<b>polarizationOrientationCode</b>	required	value of code list
annotation	documentation	band parameters: polarization of the antenna relative to the waveform		

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/detectedPolarisation**

diagram				
type	<b>polarizationOrientationCode</b>			
facets	enumeration	<b>horizontal</b>		
	enumeration	<b>vertical</b>		
	enumeration	leftCircular		
	enumeration	rightCircular		
	enumeration	theta		
	enumeration	phi		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MI_PolarizationOrientationCode
	codeListValue	<b>polarizationOrientationCode</b>	required	value of code list
annotation	documentation	band parameters: polarization of the antenna relative to the waveform		

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherPropertyType**

diagram				
type	<b>xs:string</b>			
attribute	Name	Type	Use	Annotation
	href	<b>xlink:href</b>	required	EOS Additional Attributes
annotation	documentation	other property type – EOS additional attributes		

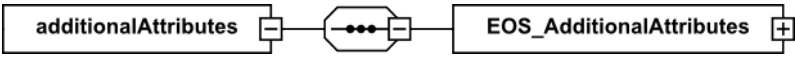
element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty**

diagram	
annotation	documentation other property – additional attributes

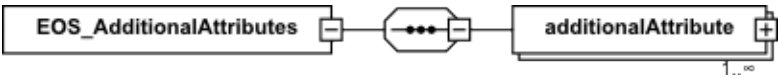
element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record**

diagram	
annotation	documentation other property record

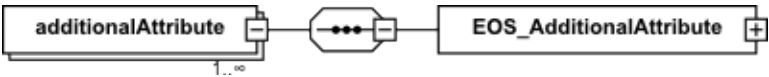
element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes**

diagram	
annotation	documentation additional attributes

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes**

diagram	
annotation	documentation EOS additional attributes

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute**

diagram	
annotation	documentation additionalAttribute



element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute**

diagram	
annotation	documentation EOS_AdditionalAttribute


element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference**

diagram	
annotation	documentation additional attribute reference

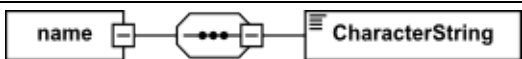
element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription**

diagram	
annotation	documentation cell geometry


element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/type**

diagram				
type	<b>additionalAttributeTypeCode</b>			
facets	enumeration	<b>spatialInformation</b>		
	enumeration	<b>acquisitionInformation</b>		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	EOS_AdditionalAttributeTypeCode
	codeListValue	<b>EOS_AdditionalAttributeTypeCode</b>	required	value of code list
annotation	documentation	additional attribute: type		


element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/name**

diagram				
type	<b>xs:string</b>			
annotation	documentation	additional attribute: name		

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/description**

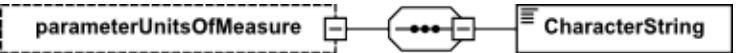
diagram				
type	<b>xs:string</b>			
annotation	documentation	additional attribute: description		

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/dataType**

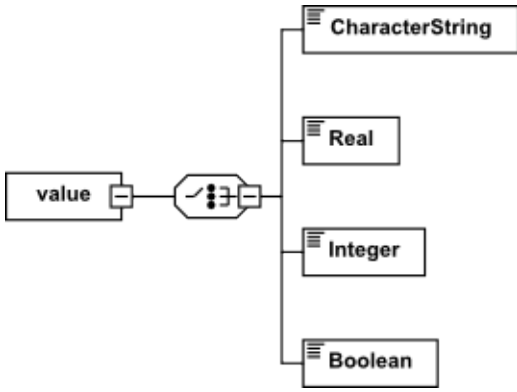
diagram		
type	<b>additionalAttributeDataTypeCode</b>	
facets	enumeration	STRING
	enumeration	FLOAT
	enumeration	INT
	enumeration	BOOLEAN
	enumeration	DATE
	enumeration	TIME
	enumeration	DATETIME
	enumeration	DATE_STRING
	enumeration	TIME_STRING
	enumeration	DATETIME_STRING

attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	EOS_AdditionalAttribute DataTypeCode
	codeListValue	<b>DataTypeCode</b>	required	value of code list
annotation	documentation	additional attribute: data type		

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/reference/EOS\_AdditionalAttributeDescription/parameterUnitsOfMeasure**

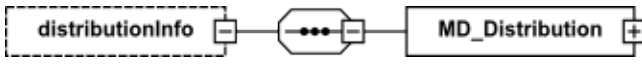
diagram		
type	<b>xs:string</b>	
annotation	documentation	additional attribute: parameter units of measure

element **MI\_Metadata/contentInfo/MD\_CoverageDescription/dimension/MI\_Band/otherProperty/Record/additionalAttributes/EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/value**

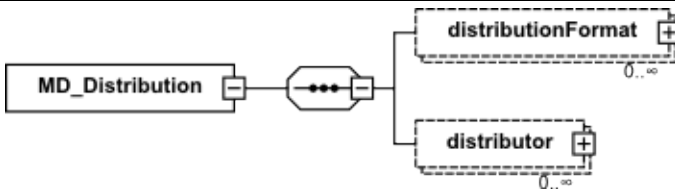
diagram	
type	xs:string, xs:float, xs:int or xs:Boolean
annotation	documentation additional attribute: value

### 3.1.12 distributionInfo

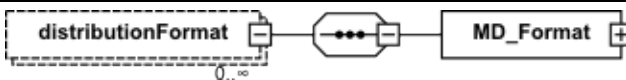
element **MI\_Metadata/distributionInfo**

diagram	
annotation	documentation distribution information

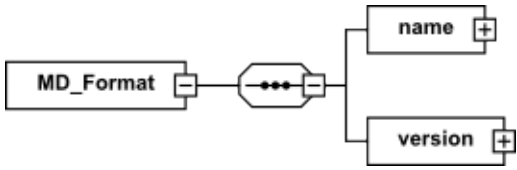
element **MI\_Metadata/distributionInfo/MD\_Distribution**

diagram	
annotation	documentation distribution information details

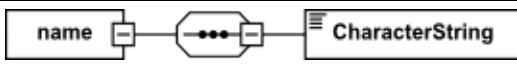
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributionFormat**

diagram	
annotation	documentation distribution format

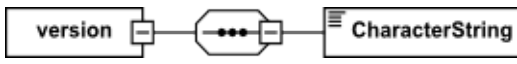
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributionFormat/MD\_Format**

diagram	 <p>The diagram shows a box labeled 'MD_Format' connected to a container with three dots. This container branches into two boxes: 'name' and 'version', each with a '+' sign in its top right corner.</p>
annotation	documentation distribution format details

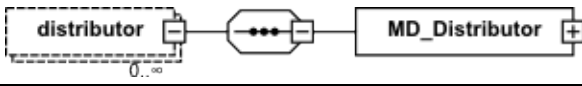
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributionFormat/MD\_Format/name**

diagram	 <p>The diagram shows a box labeled 'name' connected to a container with three dots, which is then connected to a box labeled 'CharacterString'.</p>
type	<b>xs:string</b>
annotation	documentation name of the data format

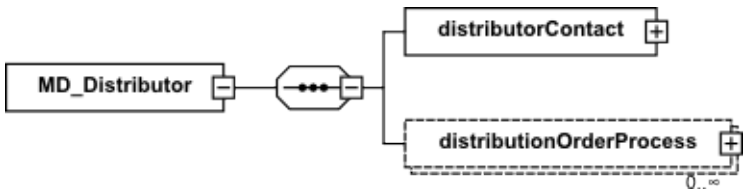
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributionFormat/MD\_Format/version**

diagram	 <p>The diagram shows a box labeled 'version' connected to a container with three dots, which is then connected to a box labeled 'CharacterString'.</p>
type	<b>xs:string</b>
annotation	documentation version of the data format

element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor**

diagram	 <p>The diagram shows a dashed box labeled 'distributor' with '0..∞' below it, connected to a container with three dots, which is then connected to a box labeled 'MD_Distributor' with a '+' sign in its top right corner.</p>
annotation	documentation distributor information

element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor**

diagram	 <p>The diagram shows a box labeled 'MD_Distributor' connected to a container with three dots. This container branches into two boxes: 'distributorContact' and 'distributionOrderProcess'. The 'distributionOrderProcess' box is enclosed in a dashed box with '0..∞' below it, and has a '+' sign in its top right corner.</p>
annotation	documentation distributor information details



element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact**

diagram	
annotation	documentation distribution contact information

element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty**

diagram	
annotation	documentation distribution: responsible party

element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/organisationName**

diagram	
type	<b>xs:string</b>
annotation	documentation distribution: name of organization


element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo**

diagram	
annotation	documentation distribution contact information

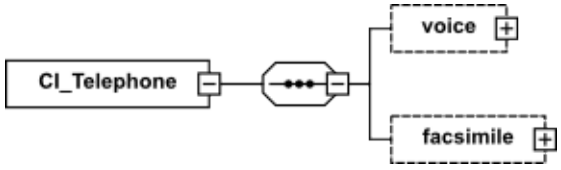
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact**

diagram	
annotation	documentation distribution contact information details

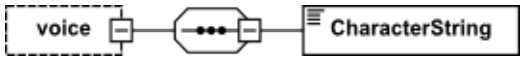
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone**

diagram	
annotation	documentation distribution contact: phone information

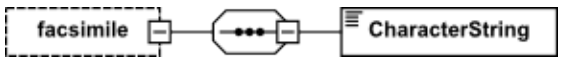
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/CI\_Telephone**

diagram	
annotation	documentation distribution contact: telephone information details

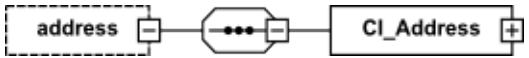
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/CI\_Telephone/voice**

diagram	
type	xs:string
annotation	documentation distribution contact: phone number

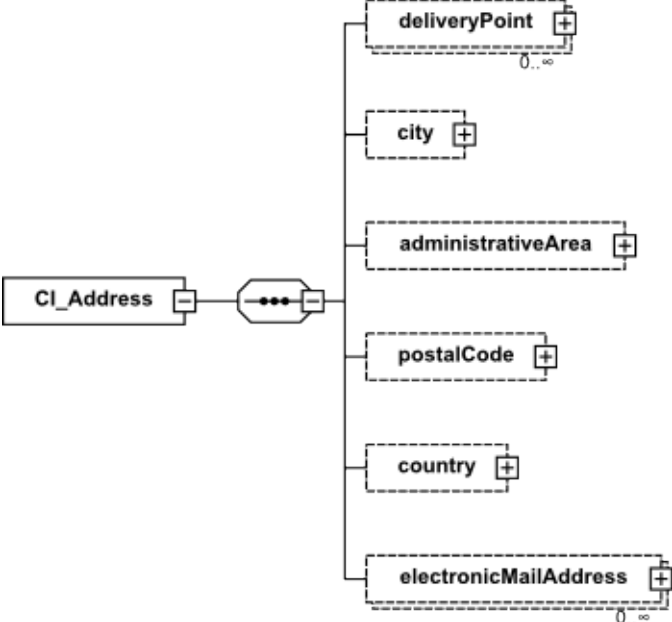
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/phone/CI\_Telephone/facsimile**

diagram	
type	xs:string
annotation	documentation distribution contact: fax number

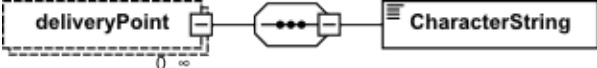
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address**

diagram	
annotation	documentation distribution contact: address information


element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address**

diagram	
annotation	documentation distribution contact: address information details

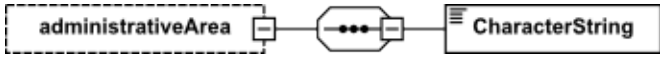
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/deliveryPoint**

diagram	
type	<b>xs:string</b>
annotation	documentation distribution contact: physical address

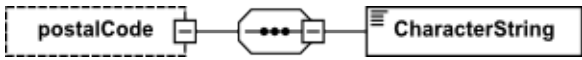
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/city**

diagram	
type	<b>xs:string</b>
annotation	documentation distribution contact: city

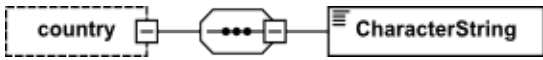
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/administrativeArea**

diagram	
type	<b>xs:string</b>
annotation	documentation distribution contact: administrative area

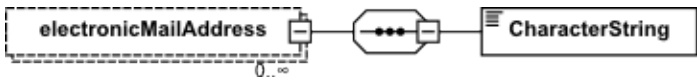
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/postalCode**

diagram	
type	<b>xs:string</b>
annotation	documentation distribution contact: postal code


element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/country**

diagram	
type	<b>xs:string</b>
annotation	documentation distribution contact: country

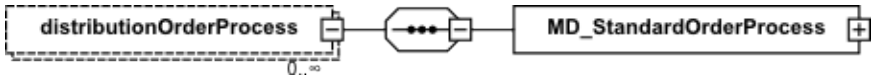
element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/contactInfo/CI\_Contact/address/CI\_Address/electronicMailAddress**

diagram	
type	<b>xs:string</b>
annotation	documentation distribution contact: email address


element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributorContact/CI\_ResponsibleParty/role**

diagram				
type	<b>roleCode</b>			
facets	enumeration	resourceProvider		
	enumeration	custodian		
	enumeration	owner		
	enumeration	sponsor		
	enumeration	user		
	enumeration	<b>distributor</b>		
	enumeration	originator		
	enumeration	pointOfContact		
	enumeration	principalInvestigator		
	enumeration	processor		
	enumeration	publisher		
	enumeration	author		
	enumeration	collaborator		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	CI_RoleCode
	codeListValue	<b>roleCode</b>	required	value from code list
annotation	documentation	function performed by the responsible party		


element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributionOrderProcess**

diagram				
annotation	documentation	distribution order process information		

element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributionOrderProcess/MD\_StandardOrderProcess**

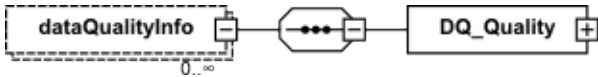
diagram				
annotation	documentation	distribution order process details		

element **MI\_Metadata/distributionInfo/MD\_Distribution/distributor/MD\_Distributor/distributionOrderProcess/MD\_StandardOrderProcess/fees**

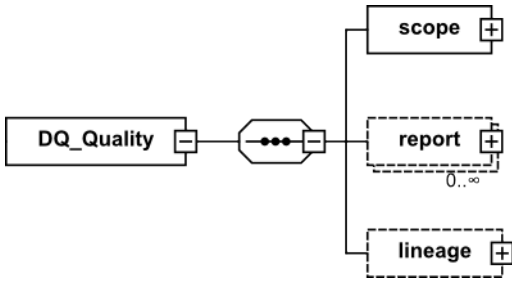
diagram	
type	<b>xs:string</b>
annotation	documentation distribution order process: fees

### 3.1.13 dataQualityInfo

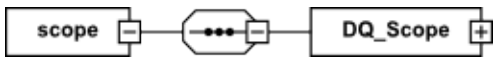
element **MI\_Metadata/dataQualityInfo**

diagram	
annotation	documentation data quality information

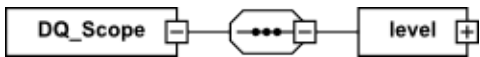
element **MI\_Metadata/dataQualityInfo/DQ\_Quality**

diagram	
annotation	documentation data quality information details

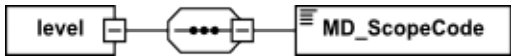
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/scope**

diagram	
annotation	documentation data quality: scope

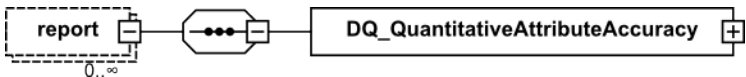
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/scope/DQ\_Scope**

diagram	
annotation	documentation data quality: scope details

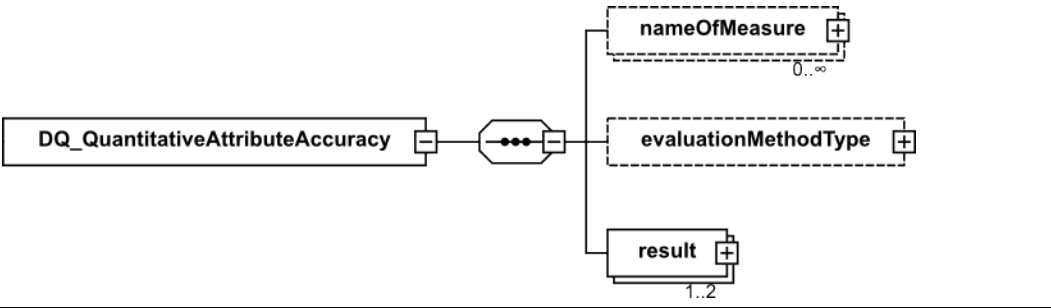
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/scope/DQ\_Scope/level**

diagram				
type	<b>scopeCode</b>			
facets	enumeration	attribute		
	enumeration	attributeType		
	enumeration	collectionHardware		
	enumeration	collectionSession		
	enumeration	<b>dataset</b>		
	enumeration	series		
	enumeration	nonGeographicDataset		
	enumeration	dimensionGroup		
	enumeration	feature		
	enumeration	featureType		
	enumeration	propertyType		
	enumeration	fieldSession		
	enumeration	software		
	enumeration	service		
	enumeration	model		
	enumeration	tile		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_ScopeCode
	codeListValue	<b>scopeCode</b>	required	value from code list
annotation	documentation	class of information to which the referencing entity applies		

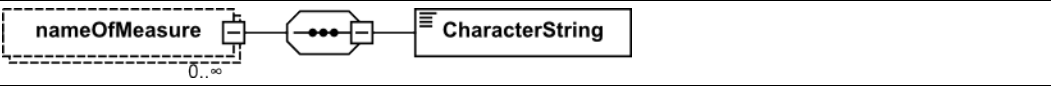
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report**

diagram				
annotation	documentation	data quality report		


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy**

<p>diagram</p>	
<p>annotation</p>	<p>documentation quantitative attribute accuracy details</p>

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy/nameOfMeasure**

<p>diagram</p>	
<p>annotation</p>	<p>documentation name of the test</p>

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy/evaluationMethodType**

<p>diagram</p>													
<p>type</p>	<p><b>evaluationMethodTypeCode</b></p>												
<p>facets</p>	<p>enumeration <b>directInternal</b>  enumeration directExternal  enumeration indirect</p>												
<p>attribute</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>codeList</td> <td><b>xs:string</b></td> <td>required</td> <td>DQ_EvaluationMethodTypeCode</td> </tr> <tr> <td>codeListValue</td> <td><b>evaluationMethodTypeCode</b></td> <td>required</td> <td>Code value from code list</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	codeList	<b>xs:string</b>	required	DQ_EvaluationMethodTypeCode	codeListValue	<b>evaluationMethodTypeCode</b>	required	Code value from code list
Name	Type	Use	Annotation										
codeList	<b>xs:string</b>	required	DQ_EvaluationMethodTypeCode										
codeListValue	<b>evaluationMethodTypeCode</b>	required	Code value from code list										
<p>annotation</p>	<p>documentation type or method for evaluating an identified data quality measure</p>												





element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy/result**

diagram	
annotation	documentation test results

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy/result/DQ\_QuantitativeResult**

diagram	
annotation	documentation quantitative results

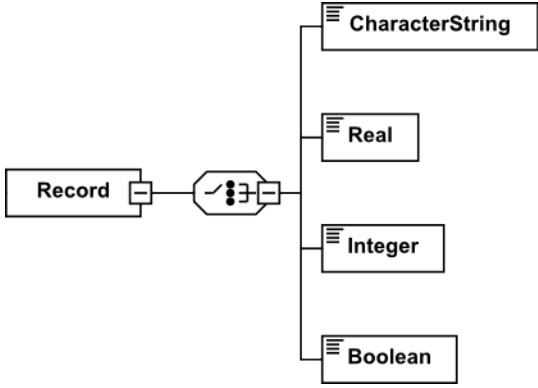
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy/result/DQ\_QuantitativeResult/valueUnit**

diagram	
annotation	documentation quantitative results: value unit

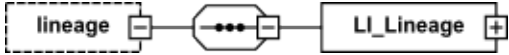
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy/result/DQ\_QuantitativeResult/value**

diagram	
annotation	documentation quantitative results: value

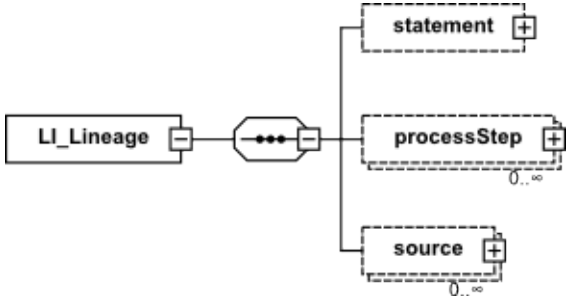
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/report/DQ\_QuantitativeAttributeAccuracy/result/DQ\_QuantitativeResult/value/Record**

diagram	
annotation	documentation quantitative results: value record details

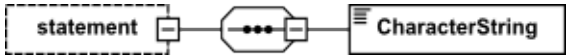
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage**

diagram	
annotation	documentation lineage information

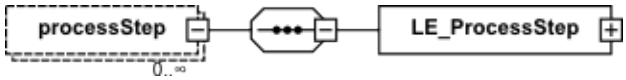
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage**

diagram	
annotation	documentation lineage information details

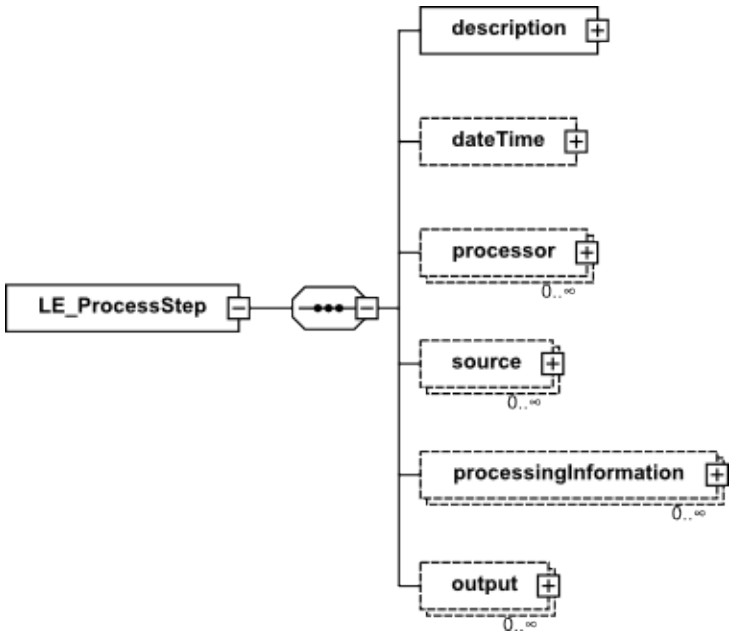
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/statement**

diagram	
type	<b>xs:string</b>
annotation	documentation lineage: statement

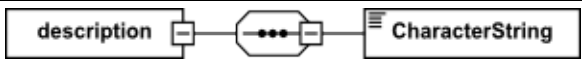
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep**

diagram	
annotation	documentation lineage: processing step information


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep**

diagram	
annotation	documentation lineage: processing step information details

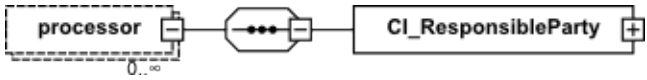
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/description**

diagram	
type	<b>xs:string</b>
annotation	documentation processing step: description

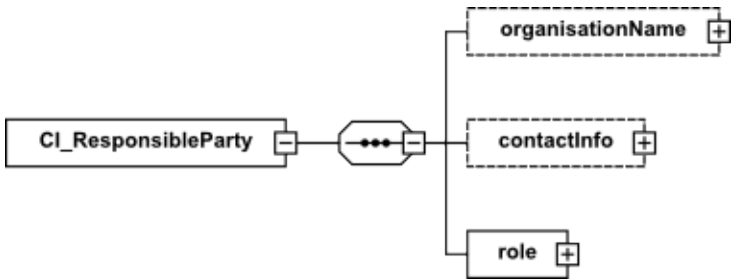
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/dateTime**

diagram	
type	<b>xs:date</b>
annotation	documentation processing step: time stamp

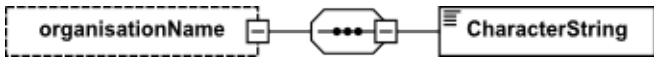
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processor**

diagram	
annotation	documentation processing step: processor

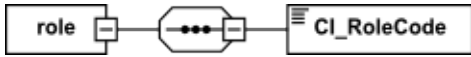
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processor/CI\_ResponsibleParty**

diagram	
annotation	documentation processing step: responsible party

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processor/CI\_ResponsibleParty/organisationName**

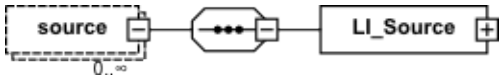
diagram	
type	<b>xs:string</b>
annotation	documentation

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processor/CI\_ResponsibleParty/role**


diagram															
type	<b>roleCode</b>														
facets	<table border="0"> <tr><td>enumeration</td><td>resourceProvider</td></tr> <tr><td>enumeration</td><td>custodian</td></tr> <tr><td>enumeration</td><td>owner</td></tr> <tr><td>enumeration</td><td>sponsor</td></tr> <tr><td>enumeration</td><td>user</td></tr> <tr><td>enumeration</td><td>distributor</td></tr> <tr><td>enumeration</td><td>originator</td></tr> </table>	enumeration	resourceProvider	enumeration	custodian	enumeration	owner	enumeration	sponsor	enumeration	user	enumeration	distributor	enumeration	originator
enumeration	resourceProvider														
enumeration	custodian														
enumeration	owner														
enumeration	sponsor														
enumeration	user														
enumeration	distributor														
enumeration	originator														

	enumeration	pointOfContact		
	enumeration	principalInvestigator		
	enumeration	<b>processor</b>		
	enumeration	publisher		
	enumeration	author		
	enumeration	collaborator		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	CI_RoleCode
	codeListValue	<b>roleCode</b>	required	value from code list
annotation	documentation	function performed by the responsible party		

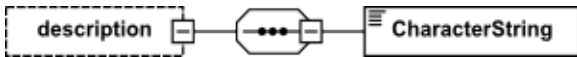
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/source**

diagram				
annotation	documentation	processing step: source		

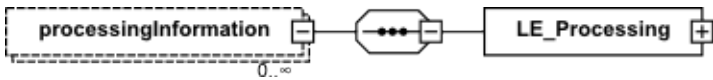
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/source/LI\_Source**

diagram				
annotation	documentation	processing step: source details		

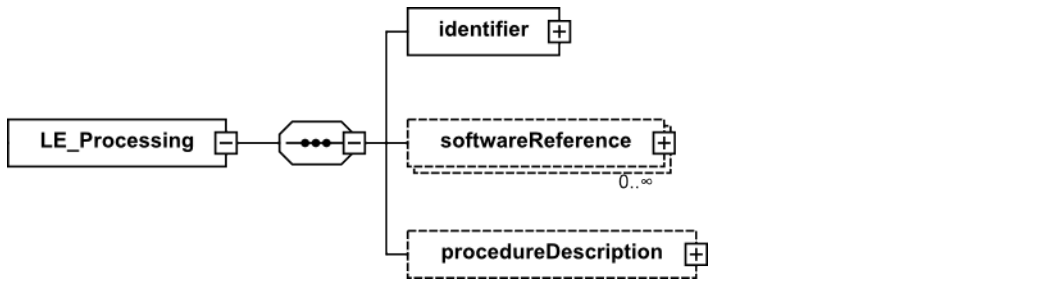
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/source/LI\_Source/description**

diagram				
type	<b>xs:string</b>			
annotation	documentation	processing step: source description		


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation**

diagram				
annotation	documentation	processing step: processing information		


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing**

diagram	
annotation	documentation processing step: processing information details


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/identifier**

diagram	
annotation	documentation processing information: identifier

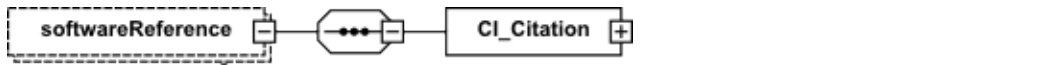
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/identifier/MD\_Identifier**

diagram	
annotation	documentation processing information: identifier details

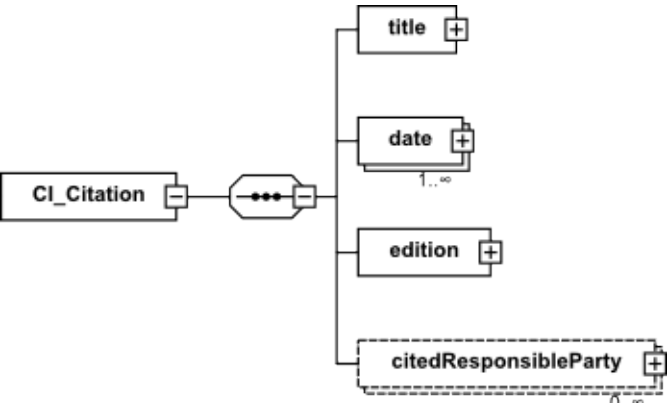
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/identifier/MD\_Identifier/code**

diagram	
type	<b>xs:string</b>
annotation	documentation processing information: identifier code


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference**

diagram	
annotation	documentation software reference


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation**

diagram	 <p>The diagram shows the structure of the CI_Citation element. It consists of a root box labeled 'CI_Citation' connected to a container box with three dots. This container box is connected to four child boxes: 'title', 'date', 'edition', and 'citedResponsibleParty'. The 'date' and 'citedResponsibleParty' boxes have a '1..∞' cardinality indicator. The 'citedResponsibleParty' box is enclosed in a dashed border.</p>
annotation	documentation source citation information


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation/title**

diagram	 <p>The diagram shows the structure of the CI_Citation/title element. It consists of a root box labeled 'title' connected to a container box with three dots, which is then connected to a box labeled 'CharacterString'.</p>
type	<b>xs:string</b>
annotation	documentation software reference: title

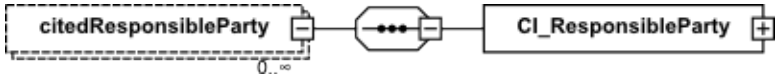
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation/date**

diagram	 <p>The diagram shows the structure of the CI_Citation/date element. It consists of a root box labeled 'date' connected to a container box with three dots, which is then connected to a dashed box labeled 'DateTime'.</p>
type	<b>xs:date</b>
annotation	documentation software reference: time stamp

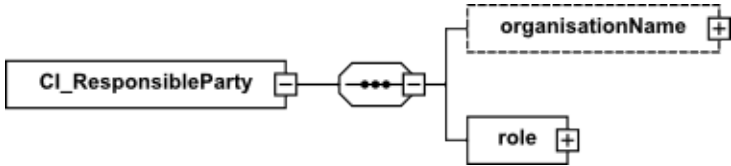
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation/edition**

diagram	 <p>The diagram shows the structure of the CI_Citation/edition element. It consists of a root box labeled 'edition' connected to a container box with three dots, which is then connected to a box labeled 'CharacterString'.</p>
type	<b>xs:string</b>
annotation	documentation software reference: edition

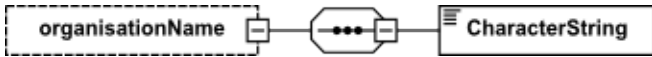
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation/citedResponsibleParty**

diagram	
annotation	documentation software reference: responsible party

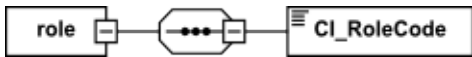
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty**

diagram	
annotation	documentation software reference: responsible party details

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/organisationName**

diagram	
type	<b>xs:string</b>
annotation	documentation software reference: name of responsible organization


element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/softwareReference/CI\_Citation/citedResponsibleParty/CI\_ResponsibleParty/role**

diagram	
type	<b>roleCode</b>
facets	enumeration resourceProvider enumeration custodian enumeration owner enumeration sponsor enumeration user enumeration distributor




	enumeration	<b>originator</b>		
	enumeration	pointOfContact		
	enumeration	principalInvestigator		
	enumeration	processor		
	enumeration	publisher		
	enumeration	author		
	enumeration	collaborator		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	CI_RoleCode
	codeListValue	<b>roleCode</b>	required	value from code list
annotation	documentation	function performed by the responsible party		

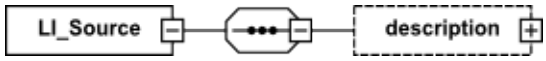
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/processingInformation/LE\_Processing/procedureDescription**

diagram	
annotation	documentation

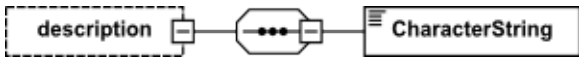
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/output**

diagram	
annotation	documentation

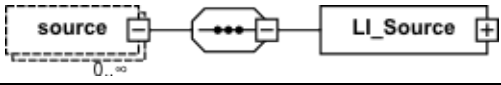
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/output/LE\_Source**

diagram	
annotation	documentation processing step: source details

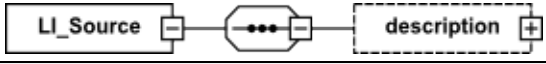
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/processStep/LE\_ProcessStep/output/LE\_Source/description**

diagram	
type	<b>xs:string</b>
annotation	documentation processing step: source description

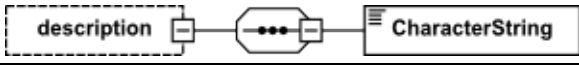
element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/source**

diagram	
annotation	documentation lineage: source

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/source/LI\_Source**

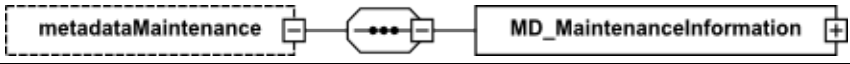
diagram	
annotation	documentation lineage: source details

element **MI\_Metadata/dataQualityInfo/DQ\_Quality/lineage/LI\_Lineage/source/LI\_Source/description**

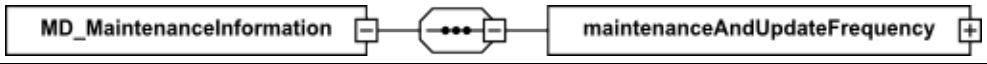
diagram	
type	<b>xs:string</b>
annotation	documentation lineage: source description

**3.1.14 metadataMaintenance**


element **MI\_Metadata/metadataMaintenance**

diagram	
annotation	documentation metadata maintenance information

element **MI\_Metadata/metadataMaintenance/MD\_MaintenanceInformation**

diagram	
annotation	documentation metadata maintenance details

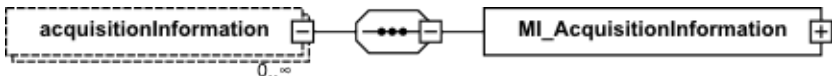
element **MI\_Metadata/metadataMaintenance/MD\_MaintenanceInformation/maintenanceAndUpdateFrequency**

diagram	
type	<b>maintenanceFrequencyCode</b>
facets	enumeration continual enumeration daily enumeration weekly

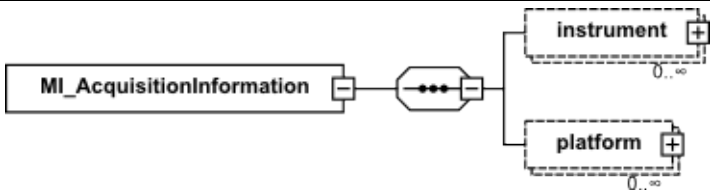
	enumeration	fortnightly		
	enumeration	monthly		
	enumeration	quarterly		
	enumeration	biannually		
	enumeration	annually		
	enumeration	<b>asNeeded</b>		
	enumeration	irregular		
	enumeration	notPlanned		
	enumeration	unknown		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	MD_MaintenanceFrequencyCode
	codeListValue	<b>maintenance FrequencyCode</b>	required	value of code list
annotation	documentation	frequency with which modifications and deletions are made to the data after it is first produced		

### 3.1.15 acquisitionInformation

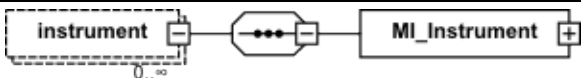
#### element MI\_Metadata/acquisitionInformation

diagram			
annotation	documentation	acquisition information	

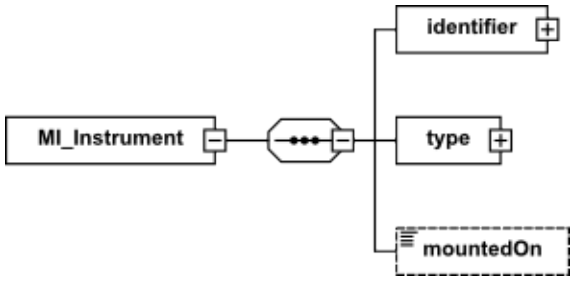
#### element MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation

diagram			
annotation	documentation	acquisition information details	

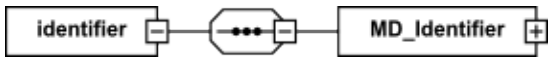
#### element MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/instrument

diagram			
annotation	documentation	acquisition information: instrument	

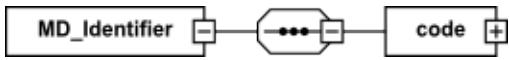
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/instrument/MI\_Instrument**

diagram				
attribute	Name	Type	Use	Annotation
	id	xs:string	required	instrument ID
annotation	documentation	acquisition information: instrument details		

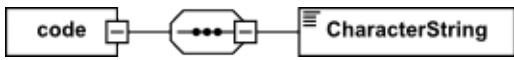
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/instrument/MI\_Instrument/identifier**

diagram				
annotation	documentation	instrument: identifier		


element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/instrument/MI\_Instrument/identifier/MD\_Identifier**

diagram				
annotation	documentation	instrument: identifier details		

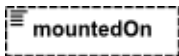
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/instrument/MI\_Instrument/identifier/MD\_Identifier/code**

diagram				
type	xs:string			
annotation	documentation	instrument: code		

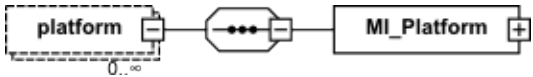
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/instrument/MI\_Instrument/type**

diagram	
type	<b>xs:string</b>
annotation	documentation instrument: type

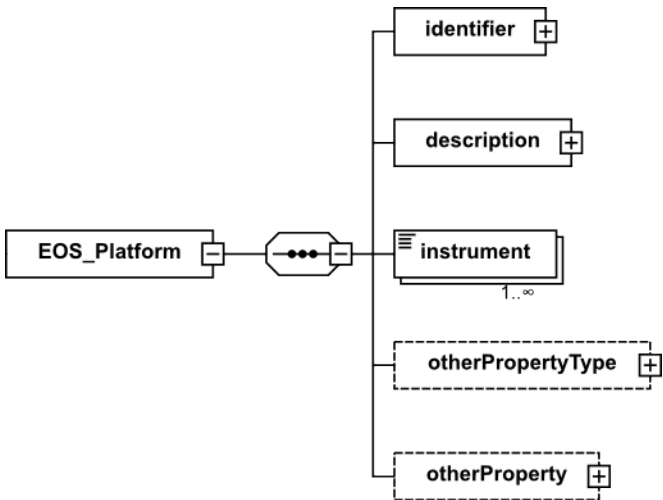
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/instrument/MI\_Instrument/mountedOn**

diagram									
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>href</td> <td><b>xs:string</b></td> <td>required</td> <td>link to platform ID</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	href	<b>xs:string</b>	required	link to platform ID
Name	Type	Use	Annotation						
href	<b>xs:string</b>	required	link to platform ID						
annotation	documentation instrument: mounted on								

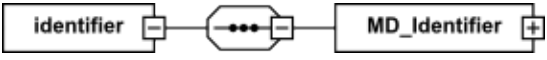
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/platform**

diagram	
annotation	documentation acquisition information: platform

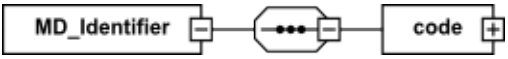
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/platform/EOS\_Platform**

diagram									
attribute	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>id</td> <td><b>xs:string</b></td> <td>required</td> <td>platform ID</td> </tr> </tbody> </table>	Name	Type	Use	Annotation	id	<b>xs:string</b>	required	platform ID
Name	Type	Use	Annotation						
id	<b>xs:string</b>	required	platform ID						
annotation	documentation acquisition information: platform details								

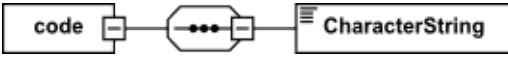
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/platform/  
EOS\_Platform/identifier**

diagram	
annotation	documentation platform: identifier

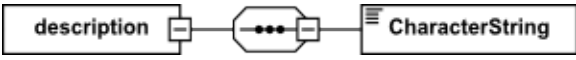
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/platform/  
EOS\_Platform/identifier/MD\_Identifier**

diagram	
annotation	documentation platform: identifier details

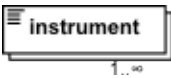
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/platform/  
EOS\_Platform/identifier/MD\_Identifier/code**

diagram	
type	<b>xs:string</b>
annotation	documentation platform: identifier code

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/platform/  
EOS\_Platform/description**

diagram	
type	<b>xs:string</b>
annotation	documentation platform: description

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/platform/  
EOS\_Platform/instrument**

diagram				
attribute	Name	Type	Use	Annotation
	href	<b>xs:string</b>	required	link to instrument ID
annotation	documentation platform: link to instrument			



element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherPropertyType**

diagram				
type	<b>xs:string</b>			
attribute	Name	Type	Use	Annotation
	href	<b>xlink:href</b>	required	EOS Additional Attributes
annotation	documentation	other property type – EOS additional attributes		

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty**

diagram				
annotation	documentation	other property – additional attributes		

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
otherProperty/Record**

diagram				
annotation	documentation	other property record		

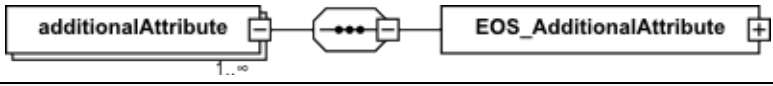
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes**

diagram				
annotation	documentation	additional attributes		

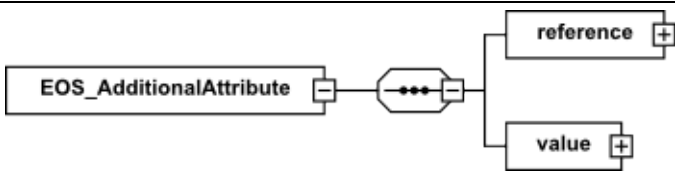
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes**

diagram				
annotation	documentation	EOS additional attributes		

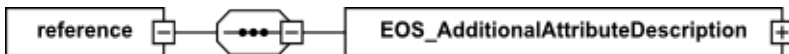
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute**

diagram	
annotation	documentation additionalAttribute

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute**

diagram	
annotation	documentation EOS_AdditionalAttribute

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/  
reference**

diagram	
annotation	documentation additional attribute reference





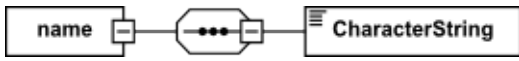
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/  
reference/EOS\_AdditionalAttributeDescription**

diagram	
annotation	documentation cell geometry

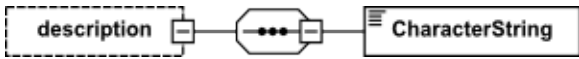
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/  
reference/EOS\_AdditionalAttributeDescription/type**

diagram				
type	<b>additionalAttributeTypeCode</b>			
facets	enumeration	<b>spatialInformation</b>		
	enumeration	<b>acquisitionInformation</b>		
attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b>	required	EOS_AdditionalAttribute TypeCode
	codeListValue	<b>EOS_Additional AttributeTypeCode</b>	required	value of code list
annotation	documentation additional attribute: type			

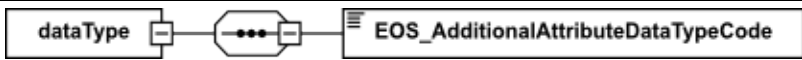
element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/  
reference/EOS\_AdditionalAttributeDescription/name**

diagram	
type	<b>xs:string</b>
annotation	documentation additional attribute: name

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/  
reference/EOS\_AdditionalAttributeDescription/description**

diagram	
type	<b>xs:string</b>
annotation	documentation additional attribute: description

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/  
reference/EOS\_AdditionalAttributeDescription/dataType**

diagram																					
type	<b>additionalAttributeDataTypeCode</b>																				
facets	<table border="0"> <tr><td>enumeration</td><td>STRING</td></tr> <tr><td>enumeration</td><td>FLOAT</td></tr> <tr><td>enumeration</td><td>INT</td></tr> <tr><td>enumeration</td><td>BOOLEAN</td></tr> <tr><td>enumeration</td><td>DATE</td></tr> <tr><td>enumeration</td><td>TIME</td></tr> <tr><td>enumeration</td><td>DATETIME</td></tr> <tr><td>enumeration</td><td>DATE_STRING</td></tr> <tr><td>enumeration</td><td>TIME_STRING</td></tr> <tr><td>enumeration</td><td>DATETIME_STRING</td></tr> </table>	enumeration	STRING	enumeration	FLOAT	enumeration	INT	enumeration	BOOLEAN	enumeration	DATE	enumeration	TIME	enumeration	DATETIME	enumeration	DATE_STRING	enumeration	TIME_STRING	enumeration	DATETIME_STRING
enumeration	STRING																				
enumeration	FLOAT																				
enumeration	INT																				
enumeration	BOOLEAN																				
enumeration	DATE																				
enumeration	TIME																				
enumeration	DATETIME																				
enumeration	DATE_STRING																				
enumeration	TIME_STRING																				
enumeration	DATETIME_STRING																				



attribute	Name	Type	Use	Annotation
	codeList	<b>xs:string</b> <b>additionalAttribute</b>	required	EOS_AdditionalAttribute DataTypeCode
	codeListValue	<b>DataTypeCode</b>	required	value of code list
annotation	documentation	additional attribute: data type		

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/  
reference/EOS\_AdditionalAttributeDescription/parameterUnitsOfMeasure**

diagram	
type	<b>xs:string</b>
annotation	documentation additional attribute: parameter units of measure

element **MI\_Metadata/acquisitionInformation/MI\_AcquisitionInformation/  
EOS\_Platform/otherProperty/Record/additionalAttributes/  
EOS\_AdditionalAttributes/additionalAttribute/EOS\_AdditionalAttribute/value**

diagram	
type	<b>xs:string, xs:float, xs:int or xs:Boolean</b>
annotation	documentation additional attribute: value