

Order of Work – Number 1 Elements

1	Title	1..1	1	1	free text
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Resource Title

Name (Number)	title (360) [UML]
Definition	name by which the cited resource is known
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	CharacterString
Domain	Free text

Meaning & Purpose The resource title is the official name used for the resource.

Where no formal name exists for the resource, a useful name for the resource should be assigned.

Guidance If the resource is a text document, use the full title as it appears on the title page; otherwise use a meaningful, plain language phrase for that resource (i.e. do not use the file name)

Title naming conventions should be consistently used for related resources (e.g. to facilitate discovery). To discriminate between duplicate titles, a reference to the version should be included in the title.

For identification purposes, it is important to carefully complete this element. Other users should easily understand the title.

If the resource is known by an alternate title, include this in the [alternatetitle](#) element (361).

Example

Explanation	The following XML example shows the title in context.
Value	New Zealand Geographic Place Name Database
XML	<pre> ... <gmd:CI_Citation> <gmd:title> <gco:CharacterString>New Zealand Geographic Place Name Database</gco:CharacterString> </gmd:title> ... </gmd:CI_Citation> ... </pre>

1	Date	1..*	1	N	class CI_Date
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Date Reference

Name (Number)	CI_Date (393) [UML]
Definition	reference date and event used to describe it
Obligation/Condition	Use obligation/condition from referencing object
Maximum Occurrence	Use maximum occurrence from referencing object
Data Type	Class <<Data Type>>
Domain	Lines 394-395

Meaning & Purpose The date reference contains the date and the type of event (creation, publication or revision) to which the date relates.

Guidance This contains no specific value in its own right. Example

Explanation	The following XML example shows a generic container for dates in context.
Value	
XML	<pre> ... <gmd:date> <gmd:CI_Date> <gmd:date> ... </gmd:date> <gmd:dateType> ... </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>

1	Date	1..1	1	1	date
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Resource Reference Date

Name (Number)	date (362) [UML]
Definition	reference date for the cited resource
Obligation/Condition	Mandatory
Maximum Occurrence	No maximum

Data Type	Class
Domain	CI_Date <<DateType>>

Meaning & Purpose The resource reference date contains details about the date and date type of the resource.

This element exists to supports the class [CI_Date](#).

Guidance This contains no specific value in its own right. Example

Explanation	The following XML example shows a generic container for dates.
Value	
XML	<pre> ... <gmd:CI_Citation> ... <gmd:date> <gmd:CI_Date> ... </gmd:CI_Date> </gmd:date> ... </gmd:CI_Citation> ... </pre>

Reference Date

Name (Number)	date (394) [UML]
Definition	reference date for the cited resource
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	Class
Domain	Date

Meaning & Purpose The reference date is the date that an event occurs.

Guidance Character encoding of a date is a string that conforms to the date format specified by ISO 8601: "YYYY-MM-DD", "YYYYMMDD", "YYYY-MM", "YYYY" and "YY" where Y, M and D are integer values representing the year, month and day respectively.

For other date and date/time formats, refer to Section: Externally Referenced Entities, ['Date and Date/Time'](#) .

Example

Explanation	The following XML example shows the date in context.
Value	2007-03-31
XML	<pre> ... <gmd:date> <gmd:CI_Date> <gmd:date> <gco>Date>2007-03-31</gco>Date> </gmd:date> </gmd:CI_Date> </gmd:date> ... </pre>

1	<i>Date type</i>	1..1	1	1	code CI_DateTypeCode
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Reference Date Type

Name (Number)	dateType (395) [UML]
Definition	event used for reference date
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	Class
Domain	CI_DateTypeCode <<CodeList>>

Meaning & Purpose The reference date type identifies the event that the date relates to.

Guidance The value of dateType is chosen from the controlled list [CI_DateTypeCode](#). Note this code list is extensible.

Example 1

Explanation	The following XML example shows the date type in context.
Value	Creation

XML	<pre> ... <gmd:date> <gmd:CI_Date> ... <gmd:dateType> <gmd:CI_DateTypeCode codeList= http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateT ypeCode codeListValue="creation" / </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>
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Example 2

Explanation	The following XML example shows the date type in context.
Value	publication
XML	<pre> ... <gmd:date> <gmd:CI_Date> ... <gmd:dateType> <gmd:CI_DateTypeCode codeList= http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateT ypeCode codeListValue="publication" /> </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>

Example 3

Explanation	The following XML example shows the date type in context.
Value	revision
XML	<pre> ... <gmd:date> <gmd:CI_Date> ... <gmd:dateType> <gmd:CI_DateTypeCode codeList= http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateT ypeCode codeListValue="revision"> revision</gmd:CI_DateTypeCode> </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>

1	cited responsible party	0...*	1	N	class CI_Responsibility
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Cited Responsible Party

Name (Number)	citedResponsibleParty (367) [UML]
Definition	name and position information for an individual or organization that is responsible for the resource
Obligation/Condition	Optional
Maximum Occurrence	No maximum
Data Type	Class
Domain	CI_ResponsibleParty <<DataType>>

Meaning & Purpose

Guidance

Example

1	<i>Role (author, publisher)</i>	1..1	1	1	code CI_RoleCode
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Role

Name (Number)	role (379) [UML]
Definition	function performed by the responsible party
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	Class
Domain	CI_RoleCode <<CodeList>>

Meaning & Purpose The role identifies the function that the individual, position and/or organisation performs in regards to the resource.

Guidance The value of role is chosen from the controlled list [CI_RoleCode](#). Note this code list is extensible.

Example

1	<i>Organisation name</i>	0..1	0	1	free text
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Responsible Party Organisation Name

Name (Number)	organisationName (376) [UML]
Definition	name of the responsible organization
Obligation/Condition	Conditional: mandatory if individualName and positionName not documented
Maximum Occurrence	1
Data Type	CharacterString
Domain	Free Text

Meaning & Purpose The name of the organisation responsible for the resource.

Guidance Organisation name is always given in full. Addition of the acronym or abbreviation could be useful. For government, the value is the name of the agency responsible for a particular role associated with the resource.

Example

Explanation	The following XML example shows the organisation name of the responsible party in context.
Value	Land Information New Zealand (LINZ)
XML	<pre> ... <gmd:CI_ResponsibleParty> ... <gmd:organisationName> <gco:CharacterString>Land Information New Zealand (LINZ) </gco:CharacterString> </gmd:organisationName> ... </gmd:CI_ResponsibleParty> ... </pre>

1	Abstract	1..1	1	1	free text
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Identification Abstract

Name (Number)	abstract (25) [UML]
Definition	brief narrative summary of the content of the resource(s)
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	CharacterString
Domain	Free text

Meaning & Purpose The identification abstract provides additional information about the resource. This may allow users to obtain a better appreciation of the resource and assist them to determine fitness for purpose.

Guidance The abstract should provide sufficient information, such as key words, to adequately describe the content of the resource. Careful consideration should be given when preparing an abstract as it is an important element for the assessment of a resource.

Example

Explanation	The following XML example shows the use of abstract in context.
Value	The Digital Cadastral Database (DCDB) is now a legacy digital map that contained a vector based representation of all land parcel boundaries and most other legal boundaries for all of New Zealand. In addition it contained a centreline representation of all legal roads. It reflected the current cadastral pattern and was maintained through the processing of new subdivision plans. The DCDB was completely replaced in July 2002 by the Landonline Survey and Title Service.
XML	<pre> ... </gmd:citation> <gmd:abstract> <gco:CharacterString>The Digital Cadastral Database (DCDB) is now a legacy digital map that contained a vector based representation of all land parcel boundaries and most other legal boundaries for all of New Zealand. In addition it contained a centreline representation of all legal roads. It reflected the current cadastral pattern and was maintained through the processing of new subdivision plans. The DCDB was completely replaced in July 2002 by the Landonline Survey and Title Service. </gco:CharacterString> </gmd:abstract> ... </pre>

1	Point of contact	0..*	2	N	class CI_Responsibility
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Responsible Party

Name (Number)	CI_ResponsibleParty (374) [UML]
Definition	identification of, and means of communication with, person(s) and organizations associated with the dataset
Obligation/Condition	Use obligation/condition from referencing object
Maximum Occurrence	Use maximum occurrence from referencing object
Data Type	Class <<DataType>>
Domain	Lines 375-379

Meaning & Purpose The responsible party provides information about who is responsible for a resource,

and can contain the identity of the person, position, organisation, their contact details and role.

The location of of the responsible person or organisation is defined in [CI_Address](#).

Please note: for the purpose of describing this element, the reference to 'dataset' in the definition applies to all 'resources'.

Guidance

This contains no specific value in its own right. The role and at least one of [individualName](#), [organisationName](#) or [positionName](#) elements must be provided

The metadata content creator is not required to record any information against this element.

Example

Explanation	The following XML example shows the generic container for responsible party
Value	
XML	<pre> ... <gmd:CI_ResponsibleParty> <gmd:individualName> ... </gmd:individualName> <gmd:organisationName> ... </gmd:organisationName> <gmd:positionName> ... </gmd:positionName> <gmd:contactInfo> ... </gmd:contactInfo> <gmd:role> ... </gmd:role> </gmd:CI_ResponsibleParty> ... </pre>

1	<i>Role (point of contact, custodian)</i>	0..*	1	N	code CI_RoleCode
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Role

Name (Number)	role (379) [UML]
Definition	function performed by the responsible party
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	Class

Domain	CI_RoleCode <<CodeList>>
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Meaning & Purpose The role identifies the function that the individual, position and/or organisation performs in regards to the resource.

Guidance The value of role is chosen from the controlled list [CI_RoleCode](#). Note this code list is extensible.

Example

1	<i>Organisation</i>	0..*	1	N	templated text
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Responsible Party Organisation Name

Name (Number)	organisationName (376) [UML]
Definition	name of the responsible organization
Obligation/Condition	Conditional: mandatory if individualName and positionName not documented
Maximum Occurrence	1
Data Type	CharacterString
Domain	Free Text

Meaning & Purpose The name of the organisation responsible for the resource.

Guidance Organisation name is always given in full. Addition of the acronym or abbreviation could be useful. For government, the value is the name of the agency responsible for a particular role associated with the resource.

Example

Explanation	The following XML example shows the organisation name of the responsible party in context.
Value	Land Information New Zealand (LINZ)
XML	<pre> ... <gmd:CI_ResponsibleParty> ... <gmd:organisationName> <gco:CharacterString>Land Information New Zealand (LINZ) </gco:CharacterString> </gmd:organisationName> ... </gmd:CI_ResponsibleParty> ... </pre>

1	ISO Topic categories	1..*	1	1	code MD_TopicCategoryCode
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Topic Category

Name (Number)	topicCategory (41) [UML]
Definition	main theme(s) of the dataset
Obligation/Condition	Conditional: Mandatory if hierarchyLevel equals "dataset" or "series"
Maximum Occurrence	No maximum
Data Type	Class
Domain	MD_TopicCategoryCode <<Enumeration>>

Meaning & Purpose This element allows a search to be restricted to resources pertaining to a particular theme or topic. For example "find all data resources to do with the environment".

As topic category is an important element for searching, careful consideration should be given to its completion when documenting a "dataset" or "series".

Guidance The topic category must be chosen from the enumeration list [MD_TopicCategoryCode](#), http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_TopicCategoryCode

It is acknowledged there are overlaps between general categories. The user is encouraged to select the one most appropriate.

Example

Explanation	Example (XML)
Value	imageryBaseMapsEarthCover
XML	<pre> ... <gmd:MD_DataIdentification> ... <gmd:topicCategory> <gmd:MD_TopicCategoryCode>imageryBaseMapsEarthCover </gmd:MD_TopicCategoryCode> </gmd:topicCategory> ... </pre>

1	Key words (for search)	0..*	2	N	class MD_Keywords
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Keywords

Name (Number)	MD_Keywords (52) [UML]
Definition	keywords, their type and reference source
Obligation/Condition	Use obligation from referencing object

Maximum Occurrence	Use maximum occurrence from referencing object
Data Type	Aggregated Class (MD_Identification)
Domain	Lines 53-55

Meaning & Purpose To facilitate searching.

Guidance

Example

1	<i>Legal constraints</i>	0..*	1	*	class MD_LegalConstraints
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Legal Constraints

Name (Number)	MD_LegalConstraints (69) [UML]
Definition	restrictions and legal prerequisites for accessing and using the resource or metadata
Obligation/ Condition	Use obligation from referencing object
Maximum Occurrence	No maximum
Data Type	Specified Class (MD_Constraints)
Domain	Lines 70-72 and 68

Meaning & Purpose

Guidance

Example

1	Spatial extent	0..*	0	N	package EX_Extent[geographicElement]
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Spatial Extent

Name (Number)	<i>Role name:</i> spatialExtent (353) [UML]
Definition	spatial extent component of composite spatial and temporal extent
Obligation/ Condition	Mandatory
Maximum Occurrence	No maximum
Data Type	Association
Domain	Ex_GeographicExtent <<Abstract>>

Meaning & Purpose

Guidance

Example

1	Lineage	0..*	1	N	package LI_Lineage
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Lineage

Name (Number)	LI_Lineage (82) [UML]
Definition	information about the events or source data used in constructing the data specified by the scope or lack of knowledge about lineage
Obligation/Condition	Use obligation from referencing object
Maximum Occurrence	Use maximum occurrence from referencing object
Data Type	Aggregated Class (DQ_DataQuality)
Domain	Lines 83-85

Meaning & Purpose Exists to support its children elements and does not contain values in its own right.

LI_Lineage element provides the structure that can contain a lineage statement, processing steps and source.

Guidance No value is required because the XML element LI_Lineage is an entity to store further information. It may contain statement, processStep and / or source elements.

The metadata content creator is not required to record any information against this element.

Example

Explanation	The following XML example shows LI_Lineage in context
Value	
XML	<pre>... <gmd:dataQualityInfo> <gmd:DQ_DataQuality> <gmd:scope> <gmd:DQ_Scope> ... </gmd:DQ_Scope> </gmd:scope> ... <gmd:lineage> <gmd:LI_Lineage> ... </gmd:LI_Lineage> </gmd:lineage> </gmd:DQ_DataQuality> </gmd:dataQualityInfo> ...</pre>

1	Statement	0..1	1	1	free text
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Statement

Name (Number)	statement (83) [UML]
Definition	general explanation of the data producer's knowledge about the lineage of a dataset
Obligation/Condition	Conditional: mandatory if DQ_Quality.scope.DQ_Scope.level = "dataset" or "series"
Maximum Occurrence	1
Data Type	CharacterString
Domain	Free text

Meaning & Purpose This element provides a statement of the history of the resource. It can also include a textual explanation of the processing steps and source of the resource, although these attributes would be better described in their specific elements.

Guidance The statement should be a free text description of the history of the resource but limited to the specified scope. It should contain as much information as is available.

Example

Explanation	The following XML example shows part of a lineage statement in context
Value	The land uses were collected during mid-1999 through updating and validating...
XML	<pre> ... <gmd:dataQualityInfo> <gmd:DQ_DataQuality> <gmd:scope> <gmd:DQ_Scope> ... </gmd:DQ_Scope> </gmd:scope> ... <gmd:lineage> <gmd:LI_Lineage> <gmd:statement> <gco:CharacterString>The land uses were collected during mid-1999 through updating and validating ... </gco:CharacterString> </gmd:statement> ... </gmd:LI_Lineage> </gmd:lineage> </gmd:DQ_DataQuality> </gmd:dataQualityInfo> ... </pre>

1	Resource language and character set	0..1	1	1	class PT_Locale
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Data Language

Name (Number)	language (39) [UML]
Short Name	dataLang
Definition	language(s) used within the dataset
Obligation/Condition	Mandatory
Maximum Occurrence	No maximum
Data Type	CharacterString
Domain	ISO 639-2 , other parts may be used

Meaning & Purpose The data language identifies the language used in the resource. This may differ from the language used within the metadata record.

Guidance Default is "eng".

The code list values from "[Codes for the Representation of Names of Languages](#)" must be used. Language values are chosen from a standard set. The 3-letter language code value "eng" should be used in preference to 2-letter codes. A full list of language codes is available at <http://lcweb.loc.gov/standards/iso639-2/langcodes.html>.

Only if there is a specialised language being used (e.g. dialects) then the 3-letter code should not be used. then combinations of language and country codes (e.g. "en-gb") may be used; e.g. "sp-ar".

Where a single resource contains more than one language, then record the predominant language used. Where a resource exists separately in a different language, it is treated as a separate resource.

Please note: for the purpose of describing this element, the reference to 'dataset' in the definition applies to all 'resources'.

Example 1

Explanation	The following XML example shows the use of language in context. (not using a code list - default)
Value	eng (English)
XML	<pre><gmd:language> <gco:CharacterString>eng</gco:CharacterString> </gmd:language></pre>

Example 2

Explanation	The following XML example shows the use of language in context. (not using a code list - default)
Value	mao (Maori)
XML	<pre><gmd:language> <gco:CharacterString>mao</gco:CharacterString> </gmd:language></pre>

Example 3

Explanation	The following XML example shows the use of language in context. (using a code list)
Value	eng (English)
XML	<pre><gmd:language> <gmd:LanguageCode codeList="http://www.isotc211.org/2005/resources/Codelist/ ML_gmxCodelists.xml#LanguageCode" codeListValue="eng"> English </gmd:LanguageCode> </gmd:language></pre>

Data Character Set

Name (Number)	characterSet (40) [UML]
Short Name	dataChar
Definition	full name of the character coding standard used for the dataset
Obligation/Condition	Conditional: Mandatory if ISO/IEC 10646-1 not used
Maximum Occurrence	No maximum
Data Type	Class
Domain	MD_CharacterSetCode <<Codelist>>

Meaning & Purpose The data character set is the code for the character set used in the resource. This element does not describe the character set used within the metadata record (see [Metadata Character Set \(4\)](#))

Guidance The most commonly used character set is “utf8” which is part of ISO/IEC 10646-1. Hence if “utf8” is used then this element does not require content.

characterSet values are chosen from a standard code list as shown in [MD_CharacterSetCode](#). The namespace of this code list is http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCode.

Example

Please note: for the purpose of describing this element, the reference to 'dataset' in the definition applies to all 'resources'.

Explanation	Example (XML)
Value	UTF8
XML	<pre> </gmd:language> <gmd:characterSet> <gmd:MD_CharacterSetCode codeList=" http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD _CharacterSetCode codeListValue="utf8">UTF 8 </gmd:MD_CharacterSetCode> </gmd:characterSet> ... </pre>

1	Language	1..1	1	1	XML only
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Metadata Language

Name (Number)	language (3) [UML]
Definition	language used for documenting metadata
Obligation/Condition	Conditional: mandatory if not defined by encoding
Maximum Occurrence	1
Data Type	CharacterString
Domain	ISO 639-2 , other parts may be used

Meaning & Purpose The metadata language is the written language used for completing the metadata record. This element does not describe the language used within the resource itself (see [Data Language \(39\)](#)).

While this element is not intended to be a primary search point, it may a search to be restricted to resources where the metadata has been created in a specific language. For example, "find all metadata for Otago data resources where the metadata is published in Maori".

Guidance It is recommended that the language values be chosen from a standard set given in [ISO 639-2](#) (3 letter code); however, other parts of ISO 639 may be used (e.g. for multi-languages). A full list of language codes is available at http://www.loc.gov/standards/iso639-2/php/code_list.php.

Suggested default value is 'eng'

Explanation	where language is defined by encoding
Value	eng (English)
XML	<pre><gmd:MD_Metadata ... xmlns:language="eng" ...> ... </gmd:MD_Metadata></pre>

Example 2

Explanation	where language is not defined by encoding
Value	eng (English)
XML	<pre><gmd:MD_Metadata...> ... <gmd:language> <gco:CharacterString>eng</gco:CharacterString> </gmd:language> ... </gmd:MD_Metadata></pre>

Example 3

Explanation	where language is not defined by encoding
Value	mao (Maori)
XML	<pre><gmd:MD_Metadata...> ... <gmd:language> <gco:CharacterString>mao</gco:CharacterString> </gmd:language> ... </gmd:MD_Metadata></pre>

1	Character set	1..1	1	1	XML only
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Metadata Character Set

Name (Number)	characterSet (4) [UML]
Definition	full name of the character coding standard used for the metadata set
Obligation/Condition	Conditional: mandatory if ISO/IEC 10646-1 not used and not defined by encoding

Maximum Occurrence	1
Data Type	Class
Domain	MD_CharacterSetCode <<CodeList>>

Meaning & Purpose The metadata character set is the code for the character set used in the metadata record. This element does not describe the character set used within the resource itself (see [Data Character Set \(40\)](#))

Guidance characterSet values are chosen from a standard code list as shown in [MD_CharacterSetCode](#).

ANZLIC suggests a default value of 'utf8' (8-bit variable size UCS Transfer Format, based on ISO/IEC 10646) as it is one of the more commonly used character sets.

It is not necessary to complete this element if the encoding attribute is provided in the XML declaration.

Example 1

Explanation	defined by encoding
Value	Character set is set to utf8
XML	<pre><?xml encoding="UTF-8" ?></pre> <p>Note: in this example the XML declaration has an encoding value of 'utf8' and therefore there is no need for the characterSet element to exist.</p>

Example 2

Explanation	not defined by encoding
Value	Character set is set to utf8
XML	<pre><gmd:MD_Metadata...> ... <gmd:characterSet> <gmd:MD_CharacterSetCode codeList=" http://asdd.ga.gov.au/asdd/profileinfo/gmxCodeLists.xml#MD_CharacterSetCode " codeListValue="utf8">utf8</gmd:MD_CharacterSetCode> </gmd:characterSet> ... </gmd:MD_Metadata></pre>

1	Distribution information	0..*	0	N	class MD_Distribution
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Distribution Information

Name (Number)	Role name: distributionInfo (17) [UML]
Definition	provides information about the distributor of and options for obtaining the resource (s)
Obligation/Condition	Optional
Maximum Occurrence	1
Data Type	Association
Domain	MD_Distribution

Meaning & Purpose The distribution information provides the link to information about how to obtain the resource.

This element exists to support class [MD_Distribution](#) (270).

Guidance This contains no specific value in its own right.

The metadata content creator is not required to record any information against this element.

Note: only one distribution information can exist for each metadata record

Example

Explanation	the distribution class in context
Value	not applicable
XML	<pre> <gmd:MD_Metadata ...> ... <gmd:distributionInfo> <gmd:MD_Distribution> ... </gmd:MD_Distribution> </gmd:distributionInfo> ... </gmd:MD_Metadata> </pre>

1					package MD_Metadata
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7.1. Metadata

Name (Number)	MD_Metadata (1) [UML]
Definition	Root entity which defines metadata about a resource or resources.
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	Class

Domain	Line 2 to 22 .
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Meaning & Purpose Exists to support its children elements and does not contain values in its own right.

Guidance This will be the root element if it is a standalone metadata record. If it is the root element then the XML implementation will require certain attributes (see example). This element could be a sub-element of DS_Aggregate.

The metadata content creator is not required to record any information against this element.

Example

Explanation	This first line in the XML is necessary and must be the very first line in the XML document. The 'version' attribute defines the version of XML being used and the encoding attribute defines the character set that can be used in the XML.
Value	The default value for encoding is UTF-8.
XML	<pre><?xml version="1.0" encoding="UTF-8"?> <gmd:MD_Metadata xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gco="http://www.isotc211.org/2005/gco" xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:gts="http://www.isotc211.org/2005/gts" xmlns:gsr="http://www.isotc211.org/2005/gsr" xmlns:gss="http://www.isotc211.org/2005/gss" xmlns:gmx="http://www.isotc211.org/2005/gmx" xmlns:gml="http://www.opengis.net/gml" xmlns:xlink="http://www.w3.org/1999/xlink" xsi:schemaLocation=" http://www.isotc211.org/2005/gmd http://www.isotc211.org/2005/gmd/gmd.xsd http://www.opengis.net/gml http://www.opengis.net/gml/gml.xsd http://www.w3.org/1999/xlink http://www.w3.org/1999/xlink/xlinks.xsd"></pre>

1	metadata identifier	0..1	1	1	system generated text
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Metadata Identifier

Name (Number)	<<DataType>> MD_Identifier (205) [UML]
Definition	value uniquely identifying an object within a namespace
Obligation/Condition	Use obligation/condition from referencing object

Maximum Occurrence	Use maximum occurrence from referencing object
Data Type	Class
Domain	Lines 206–207

Meaning & Purpose Exists to support its children elements and does not contain values in its own right. The identifier enables accurate identification of specific objects using a code. This is used in many areas including citations and geographic extent names.

Guidance This contains no specific value in its own right.

 The metadata content creator is not required to record any information against this element.

Example 1

Explanation	The following XML example shows the use of MD_Identifier in context of geographicIdentifier .
Value	
XML	<pre> ... <gmd:geographicElement> <gmd:EX_GeographicDescription> ... <gmd:geographicIdentifier> <gmd:MD_Identifier> ... </gmd:MD_Identifier> </gmd:geographicIdentifier> </gmd:EX_GeographicDescription> </gmd:geographicElement> ... </pre>

Example 2

Explanation	The following XML example shows the use of MD_Identifier in context of CI_Citation .
Value	
XML	<pre> <gmd:CI_Citation> ... <gmd:identifier> <gmd:MD_Identifier> ... </gmd:MD_Identifier> </gmd:identifier> ... </gmd:CI_Citation> </pre>

1	metadata date stamp	1..*	1	N	class CI_Date
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Metadata Date Stamp

Name (Number)	dateStamp (9) [UML]
Definition	date that the metadata was created

Obligation/ Condition	Mandatory
Maximum Occurrence	1
Data Type	Class
Domain	Date

Meaning & Purpose The metadata date stamp provides the date that the metadata record was created, and not the date that the resource was created. It is not the date the metadata was last updated.

Guidance The dateStamp value will never change for a particular metadata record. See section '[Date and Date/Time](#)' for ISO 8601 valid formats.

Example 1

Explanation	The following XML example shows dateStamp using dashes between the year, month and day (as shown below for 22 March 2006)
Value	2006-03-22
XML	<pre><gmd:MD_Metadata...> ... <gmd:dateStamp> <gco:Date>2006-03-22</gco:Date> </gmd:dateStamp> ... </gmd:MD_Metadata></pre>

Example 2

Explanation	The following XML example shows dateStamp format without dashes (as shown below for 22 March 2006)
Value	20060322
XML	<pre><gmd:MD_Metadata...> ... <gmd:dateStamp> <gco:Date>20060322</gco:Date> </gmd:dateStamp> ... </gmd:MD_Metadata></pre>

Example 3

Explanation	The following XML example shows dateStamp format for March 2006
Value	2006-03

XML	<pre> <gmd:MD_Metadata...> ... <gmd:dateStamp> <gco:Date>2006-03</gco:Date> </gmd:dateStamp> ... </gmd:MD_Metadata> </pre>
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Example 4

Explanation	The following XML example shows dateStamp format for Year only - 2006
Value	2006
XML	<pre> <gmd:MD_Metadata...> ... <gmd:dateStamp> <gco:Date>2006</gco:Date> </gmd:dateStamp> ... </gmd:MD_Metadata> </pre>

Example 5

Explanation	The following XML example shows dateStamp format for 21st century
Value	20
XML	<pre> <gmd:MD_Metadata...> ... <gmd:dateStamp> <gco:Date>20</gco:Date> </gmd:dateStamp> ... </gmd:MD_Metadata> </pre>

Date Reference

Name (Number)	CI_Date (393) [UML]
Definition	reference date and event used to describe it
Obligation/Condition	Use obligation/condition from referencing object
Maximum Occurrence	Use maximum occurrence from referencing object
Data Type	Class <<Data Type>>
Domain	Lines 394-395

Meaning & Purpose The date reference contains the date and the type of event (creation, publication or revision) to which the date relates.

Guidance

This contains no specific value in its own right. Example

Explanation	The following XML example shows a generic container for dates in context.
Value	
XML	<pre> ... <gmd:date> <gmd:CI_Date> <gmd:date> ... </gmd:date> <gmd:dateType> ... </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>

1	'date' or 'date & time'	1..1	1	1	date or dateTime
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Date & Time

Name (Number)	dateTime (89) [UML]
Definition	date and time or range of date and time on or over which the process step occurred
Obligation/Condition	Optional
Maximum Occurrence	1
Data Type	Class
Domain	DateTime (B.4.2)

Meaning & Purpose

Guidance

Example

1	Date type (from list e.g. creation, publication, revision, adopted, superseded, etc.)	1..1	1	1	code CI_DateTypeCode
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Reference Date Type

Name (Number)	dateType (395) [UML]
Definition	event used for reference date
Obligation/Condition	Mandatory
Maximum Occurrence	1
Data Type	Class
Domain	CI_DateTypeCode <<CodeList>>

Meaning & Purpose The reference date type identifies the event that the date relates to.

Guidance The value of dateType is chosen from the controlled list [CI_DateTypeCode](#). Note this code list is extensible.

Example 1

Explanation	The following XML example shows the date type in context.
Value	Creation
XML	<pre> ... <gmd:date> <gmd:CI_Date> ... <gmd:dateType> <gmd:CI_DateTypeCode codeList= http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateT ypeCode codeListValue="creation" / </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>

Example 2

Explanation	The following XML example shows the date type in context.
Value	publication

XML	<pre> ... <gmd:date> <gmd:CI_Date> ... <gmd:dateType> <gmd:CI_DateTypeCode codeList= http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateT ypeCode codeListValue="publication"/> </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>
-----	---

Example 3

Explanation	The following XML example shows the date type in context.
Value	revision
XML	<pre> ... <gmd:date> <gmd:CI_Date> ... <gmd:dateType> <gmd:CI_DateTypeCode codeList= http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#CI_DateT ypeCode codeListValue="revision"> revision</gmd:CI_DateTypeCode> </gmd:dateType> </gmd:CI_Date> </gmd:date> ... </pre>

1	metadata point of contact	1..*	1	1	class CI_Responsibility
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Metadata Point of Contact

Name (Number)	contact (8) [UML]
Definition	party responsible for the metadata information
Obligation/Condition	Mandatory
Maximum Occurrence	No maximum
Data Type	Class
Domain	CI_ResponsibleParty<<Data Type>>

Meaning & Purpose The metadata contact contains details about the individual, organisation and/or position associated with the metadata information.

This element exists to supports the class [CI_ResponsibleParty](#).

Guidance This contains no specific value in its own right.

The metadata content creator is not required to record any information against this element.

Example

Explanation	Example (XML)
Value	contact
XML	<pre> <gmd:MD_Metadata...> ... <gmd:contact> <gmd:CI_ResponsibleParty> ... </gmd:CI_ResponsibleParty> </gmd:contact> ... </gmd:MD_Metadata> </pre>

1	Metadata language and character set	C..1	1	1	class PT_Locale
---	-------------------------------------	------	---	---	-----------------

Metadata Language

Name (Number)	language (3) [UML]
Definition	language used for documenting metadata
Obligation/Condition	Conditional: mandatory if not defined by encoding
Maximum Occurrence	1
Data Type	CharacterString
Domain	ISO 639-2 , other parts may be used

Meaning & Purpose The metadata language is the written language used for completing the metadata record. This element does not describe the language used within the resource itself (see [Data Language \(39\)](#)).

While this element is not intended to be a primary search point, it may a search to be restricted to resources where the metadata has been created in a specific language. For example, "find all metadata for Otago data resources where the metadata is published in Maori".

Guidance It is recommended that the language values be chosen from a standard set given in [ISO 639-2](#) (3 letter code); however, other parts of ISO 639 may be used (e.g. for multi-languages). A full list of language codes is available at

http://www.loc.gov/standards/iso639-2/php/code_list.php.

Suggested default value is 'eng'

Example 1

Explanation	where language is defined by encoding
Value	eng (English)
XML	<pre><gmd:MD_Metadata ... xmlns:language="eng" ...> ... </gmd:MD_Metadata></pre>

Example 2

Explanation	where language is not defined by encoding
Value	eng (English)
XML	<pre><gmd:MD_Metadata...> ... <gmd:language> <gco:CharacterString>eng</gco:CharacterString> </gmd:language> ... </gmd:MD_Metadata></pre>

Example 3

Explanation	where language is not defined by encoding
Value	mao (Maori)
XML	<pre><gmd:MD_Metadata...> ... <gmd:language> <gco:CharacterString>mao</gco:CharacterString> </gmd:language> ... </gmd:MD_Metadata></pre>

Metadata Character Set

Name (Number)	characterSet (4) [UML]
Definition	full name of the character coding standard used for the metadata set
Obligation/Condition	Conditional: mandatory if ISO/IEC 10646-1 not used and not defined by encoding
Maximum Occurrence	1

Data Type	Class
Domain	MD_CharacterSetCode <<CodeList>>

Meaning & Purpose The metadata character set is the code for the character set used in the metadata record. This element does not describe the character set used within the resource itself (see [Data Character Set \(40\)](#))

Guidance characterSet values are chosen from a standard code list as shown in [MD_CharacterSetCode](#).

ANZLIC suggests a default value of 'utf8' (8-bit variable size UCS Transfer Format, based on ISO/IEC 10646) as it is one of the more commonly used character sets.

It is not necessary to complete this element if the encoding attribute is provided in the XML declaration.

Example 1

Explanation	defined by encoding
Value	Character set is set to utf8
XML	<pre><?xml encoding="UTF-8"?></pre> <p>Note: in this example the XML declaration has an encoding value of 'utf8' and therefore there is no need for the characterSet element to exist.</p>

Example 2

Explanation	not defined by encoding
Value	Character set is set to utf8
XML	<pre><gmd:MD_Metadata...> ... <gmd:characterSet> <gmd:MD_CharacterSetCode codeList=" http://asdd.ga.gov.au/asdd/profileinfo/gmxCodelists.xml#MD_CharacterSetCode " codeListValue="utf8">utf8</gmd:MD_CharacterSetCode> </gmd:characterSet> ... </gmd:MD_Metadata></pre>

1	Metadata Constraints	0..*	1	1	package
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Metadata Constraints

Name (Number)	<i>Role name:</i> metadataConstraints (20) [UML]
Definition	provides restrictions on the access and use of metadata
Obligation/ Condition	Optional
Maximum Occurrence	No maximum
Data Type	Association
Domain	MD_Constraints

Meaning & Purpose

Guidance

Example