INTERNATIONAL STANDARD ISO 19115:2003
TECHNICAL CORRIGENDUM 1

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Geographic information — Metadata

TECHNICAL CORRIGENDUM 1

Information géographique — Métadonnées

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 19115:2003 was prepared by Technical Committee ISO/TC 211, *Geographic information/Geomatics.* Annex A provides a list of changes.

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Page 2, Clause 3

Add the following Normative reference:

ISO 19119, *Geographic information — Services*

Page 7, subclause 5.5

Replace the list with the following:

CI	Citation (ISO 19115)
DQ	Data quality (ISO 19115)
DS	Dataset (ISO 19115)
EX	Extent (ISO 19115)
GF	General Feature (ISO 19109)
GM	Geometry (ISO 19107)
LI	Lineage (ISO 19115)
MD	Metadata (ISO 19115)

ICS 35.240.70

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RS   Reference System (ISO 19115)

SC   Spatial Coordinates (ISO 19111)

SV   Services (ISO 19119)

TM   Temporal (ISO 19108)

Page 8, subclause 6.2

Replace 6.2 with the following:

Figure 3 is a UML class diagram defining the classes of geographic information to which metadata applies. It specifies that a dataset (DS_DataSet) and aggregations of datasets (DS_Aggregate) must have one or more related Metadata entity sets (MD_Metadata). Metadata may optionally relate to a Feature, Feature Attribute, Feature Type, Feature Property Type (a Metaclass instantiated by Feature association role, Feature attribute type, and Feature operation). The method for relating metadata to feature and attribute instances is defined in ISO 19109. Dataset aggregations may be specified (subclassed) as a general association (DS_OtherAggregate), a dataset series (DS_Series), or a special activity (DS_Initiative). MD_Metadata also applies to other classes of information and services not shown in this diagram (see MD_ScopeCode, B.5.25).

Page 9, subclause 6.2
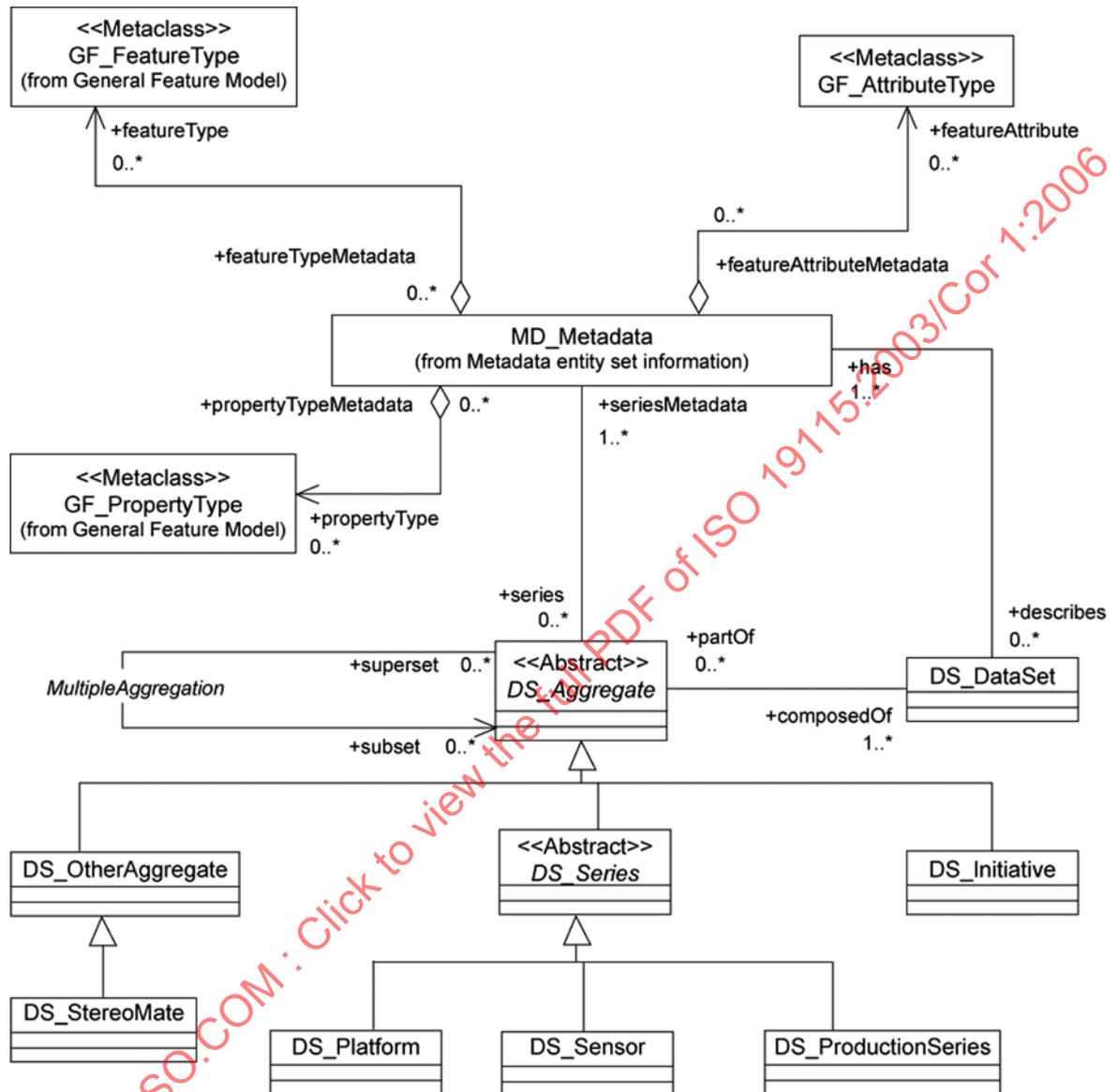
Replace Figure 3 with the following:

Figure 3 — Metadata application

Page 12, subclause 6.3.2.2

Replace the last paragraph with the following:

The characterSet element of MD_DataIdentification is conditional; it is documented if ISO/IEC 10646-1 is not used.

Page 13, subclause 6.3.2.7

Replace 6.3.2.7 with the following:

This package contains the identification of the spatial and temporal reference system(s) used in a dataset.
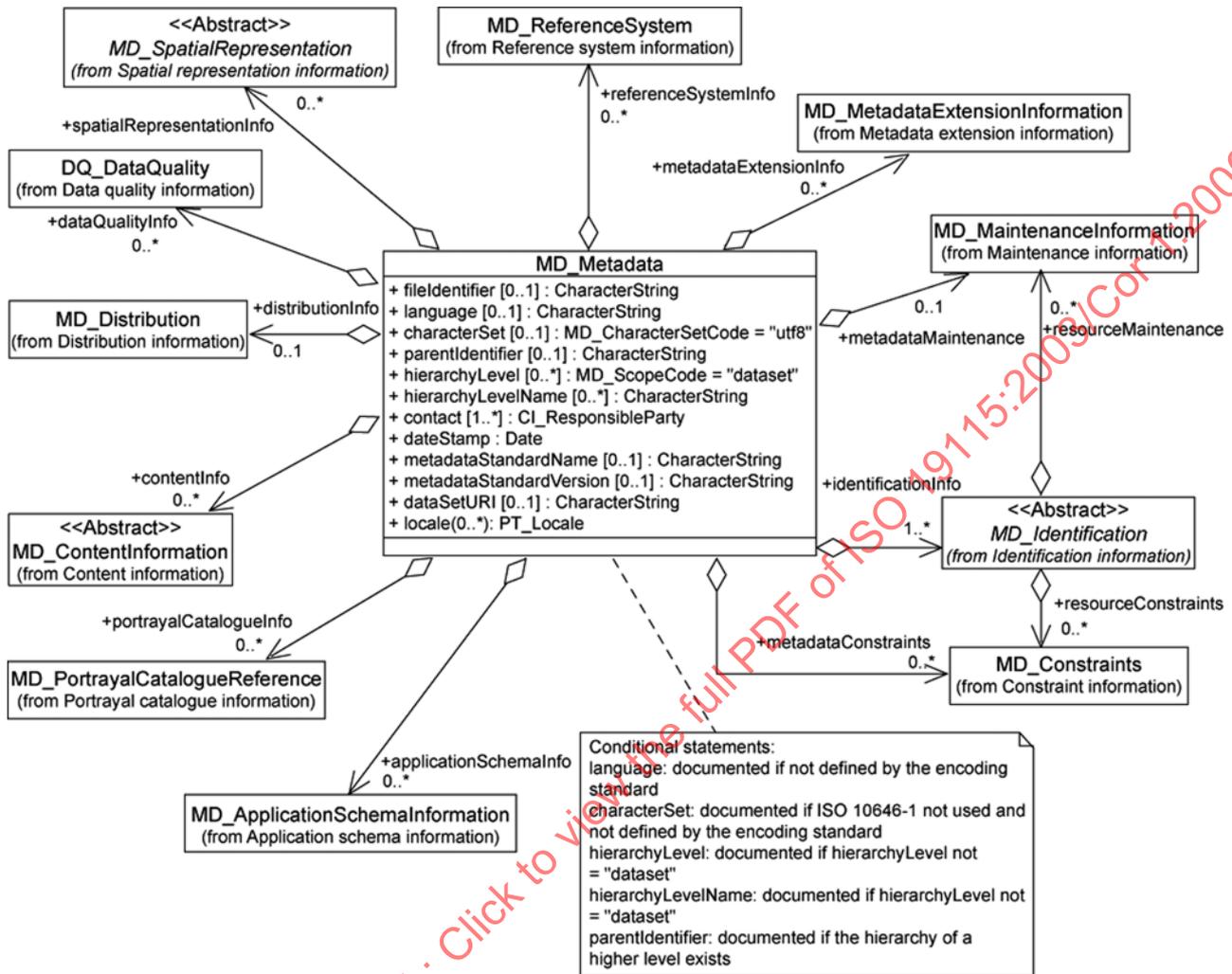
Page 19, subclause A.2.1

Replace Figure A.1 with the following:

Figure A.1 — Metadata entity set information

Page 19, subclause A.2.2

Replace Figure A.2 with the following:

Figure A.2 — Identification information

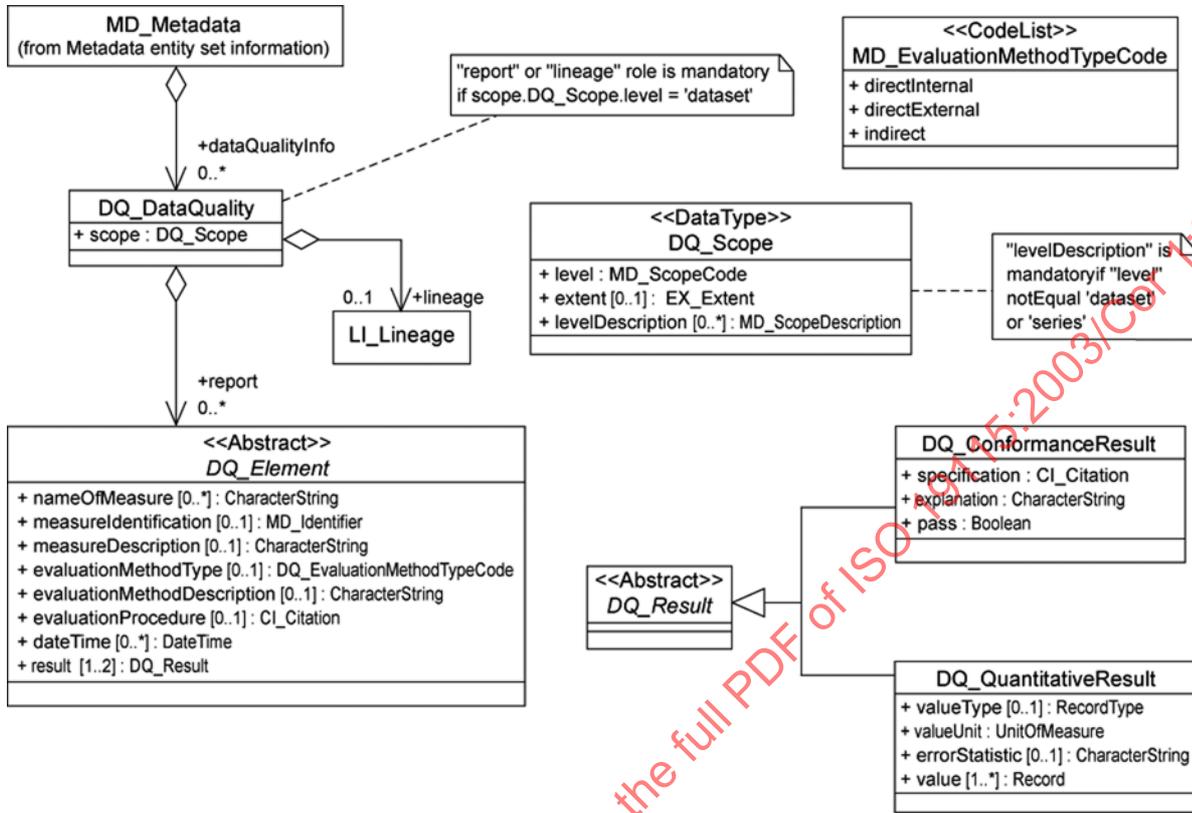*Page 22, subclause A.2.4.1*

Replace Figure A.4 with the following:

Figure A.4 — Data quality information

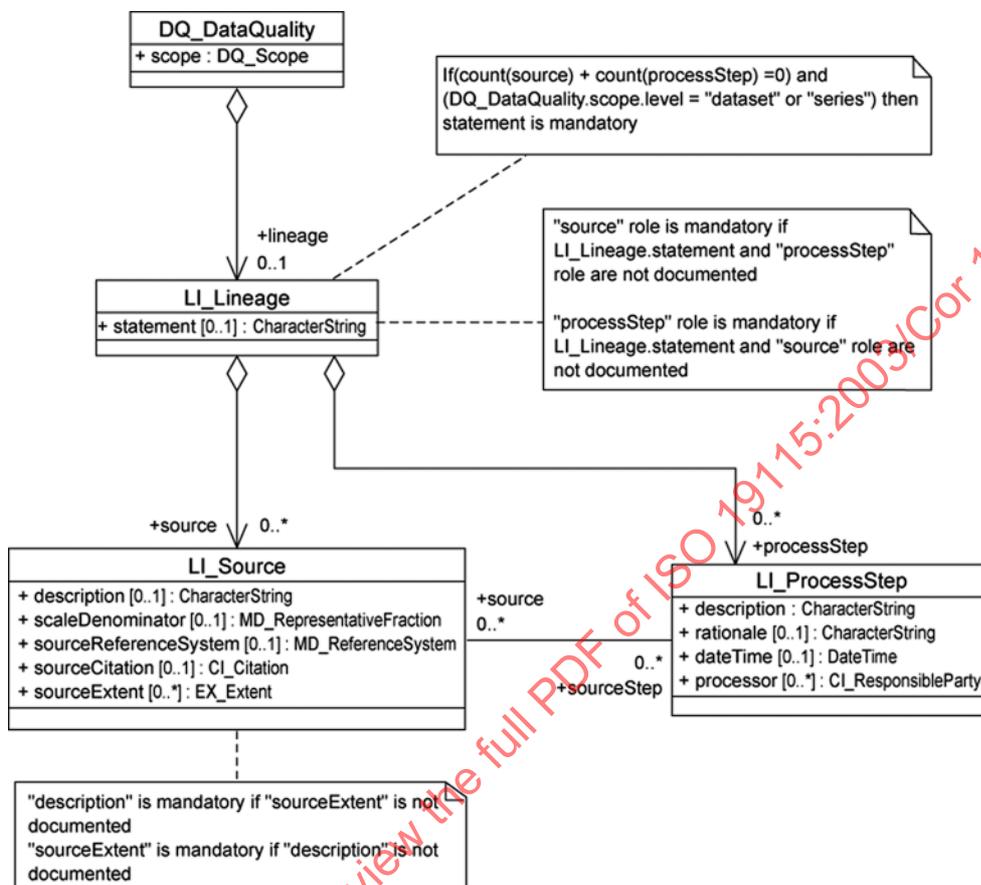*Page 23, subclause A.2.4.2*

Replace Figure A.5 with the following:

Figure A.5 — Lineage information

Page 24, subclause A.2.4.3

Replace Figure A.6 with the following:
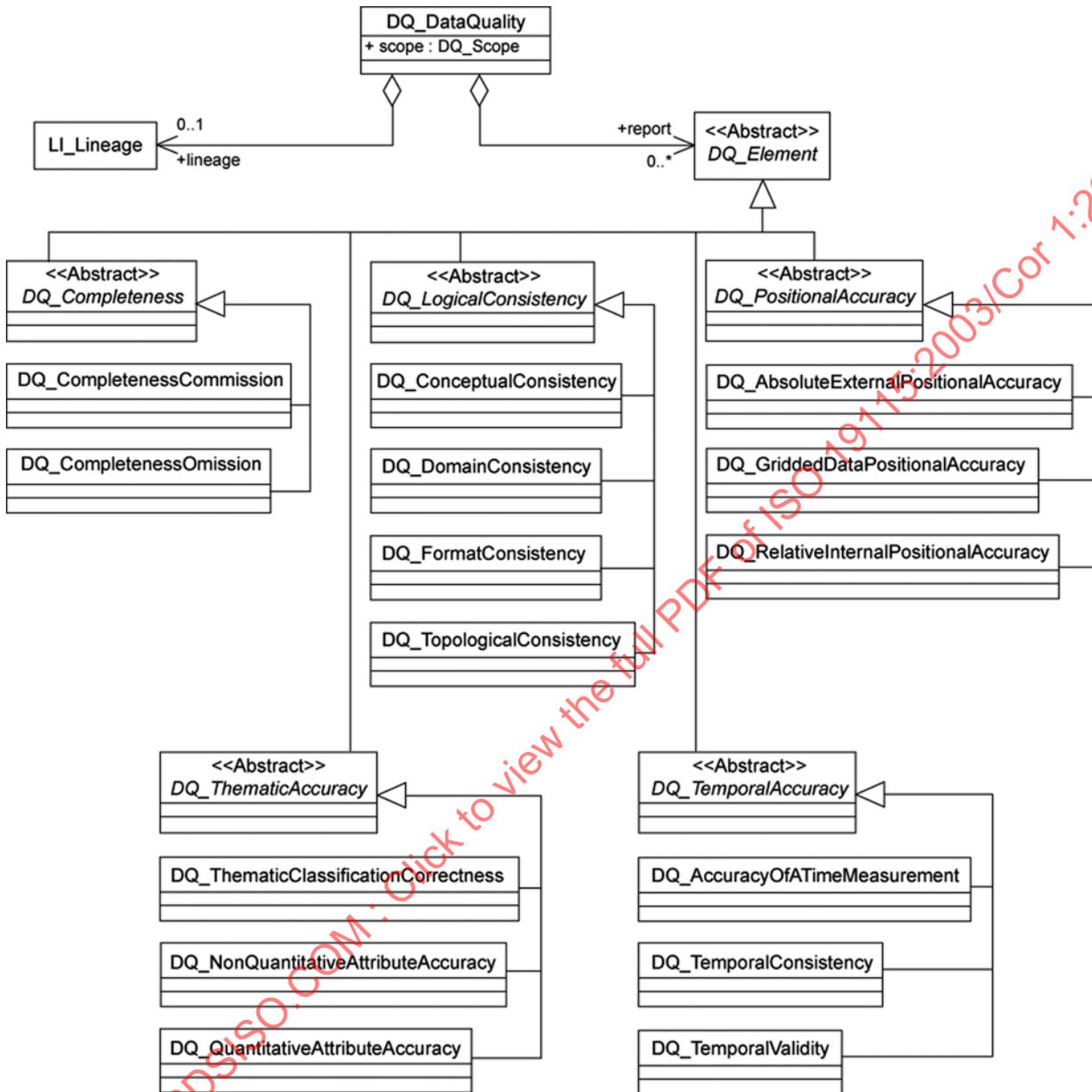
Figure A.6 — Data quality classes and subclasses

Page 25, subclause A.2.5

Replace Figure A.7 with the following:
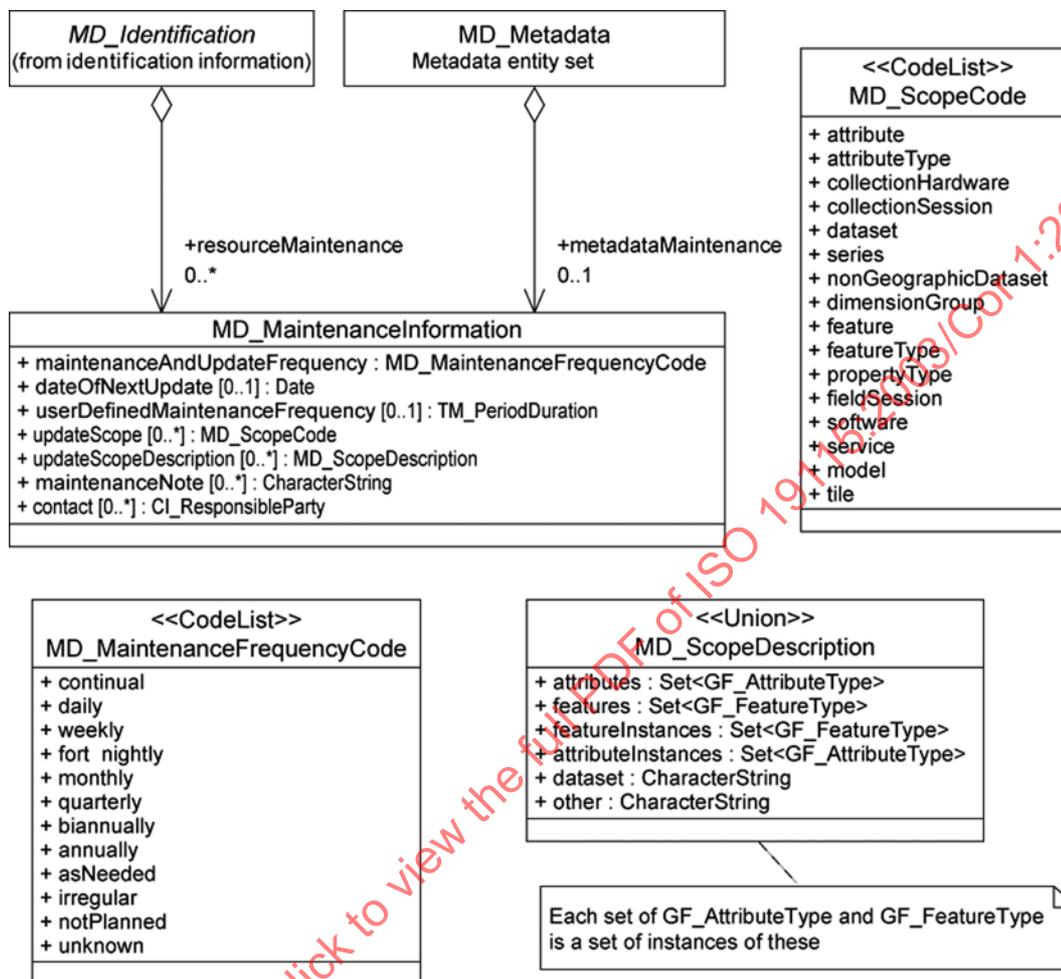
Figure A.7 — Maintenance information

Page 26, subclause A.2.6

Replace Figure A.8 with the following:
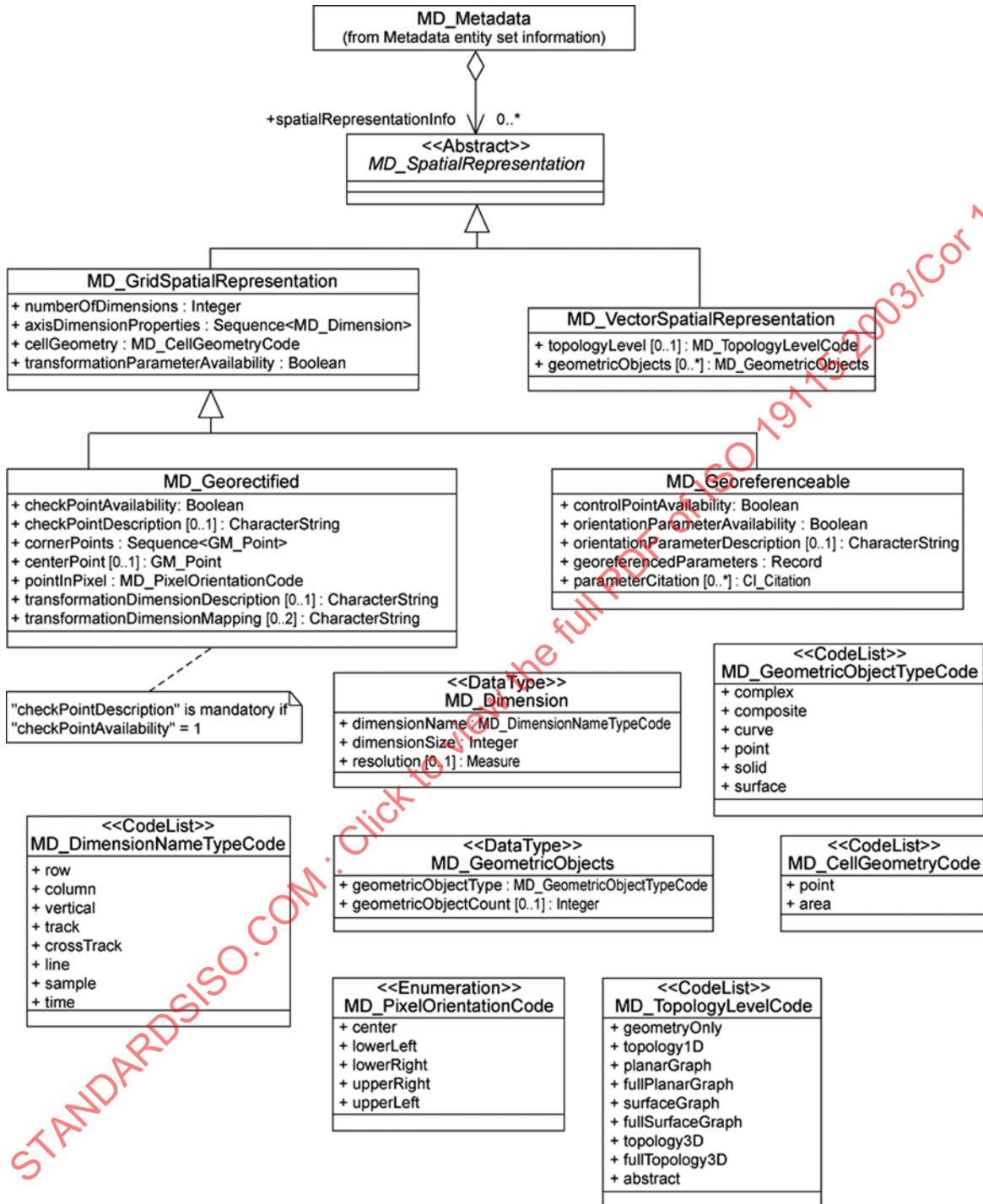
Figure A.8 — Spatial representation information

Page 27, subclause A.2.7

Replace Figure A.9 with the following:
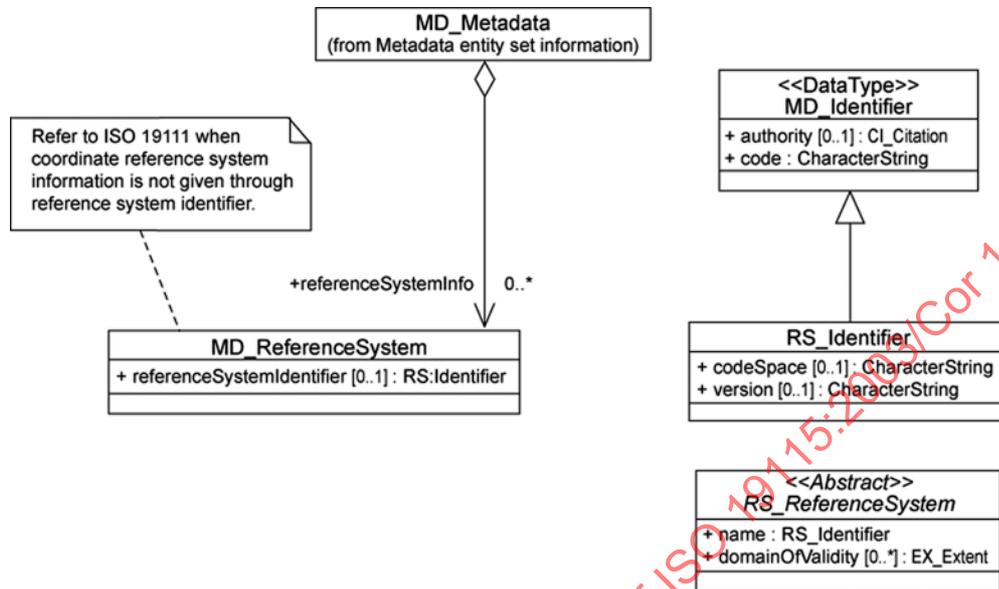
Figure A.9 — Reference system information

Page 28, subclause A.2.8

Replace Figure A.10 with the following:
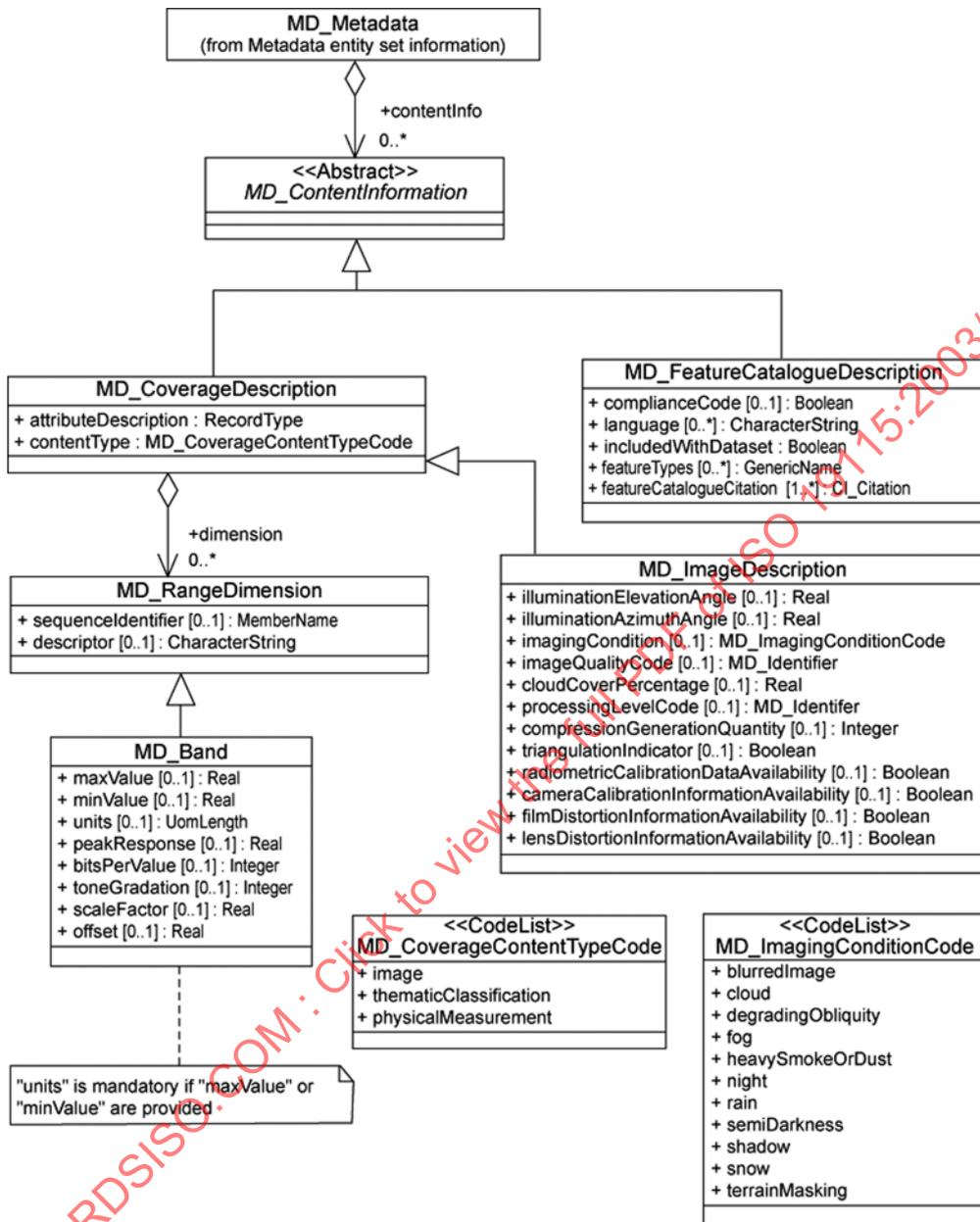
Figure A.10 — Content information

Page 30, subclause A.2.10

Replace Figure A.12 with the following:
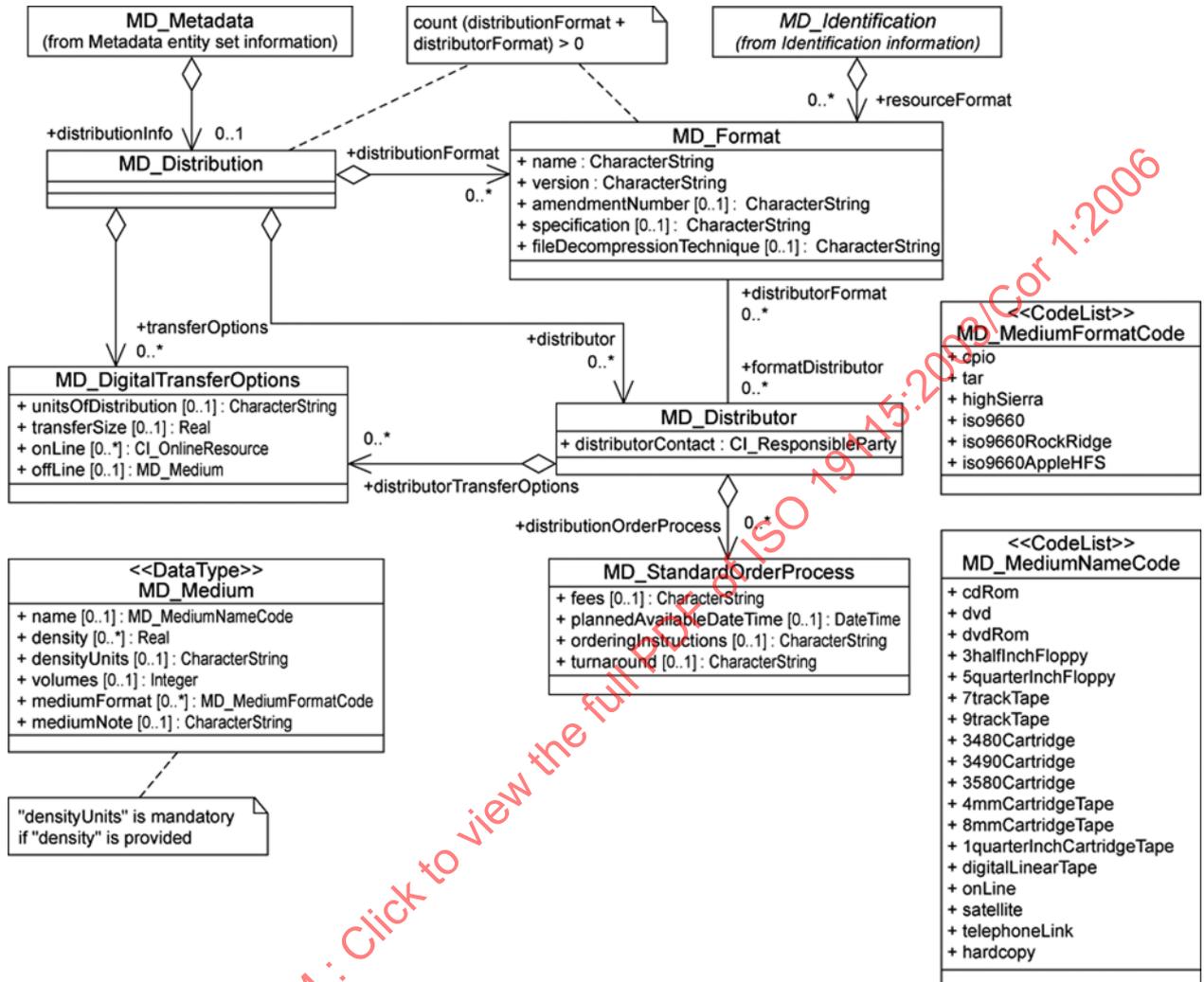
Figure A.12 — Distribution information

Page 31, subclause A.2.11

Replace Figure A.13 with the following:

Figure A.13 — Metadata extension information

Page 33, subclause A.3.1
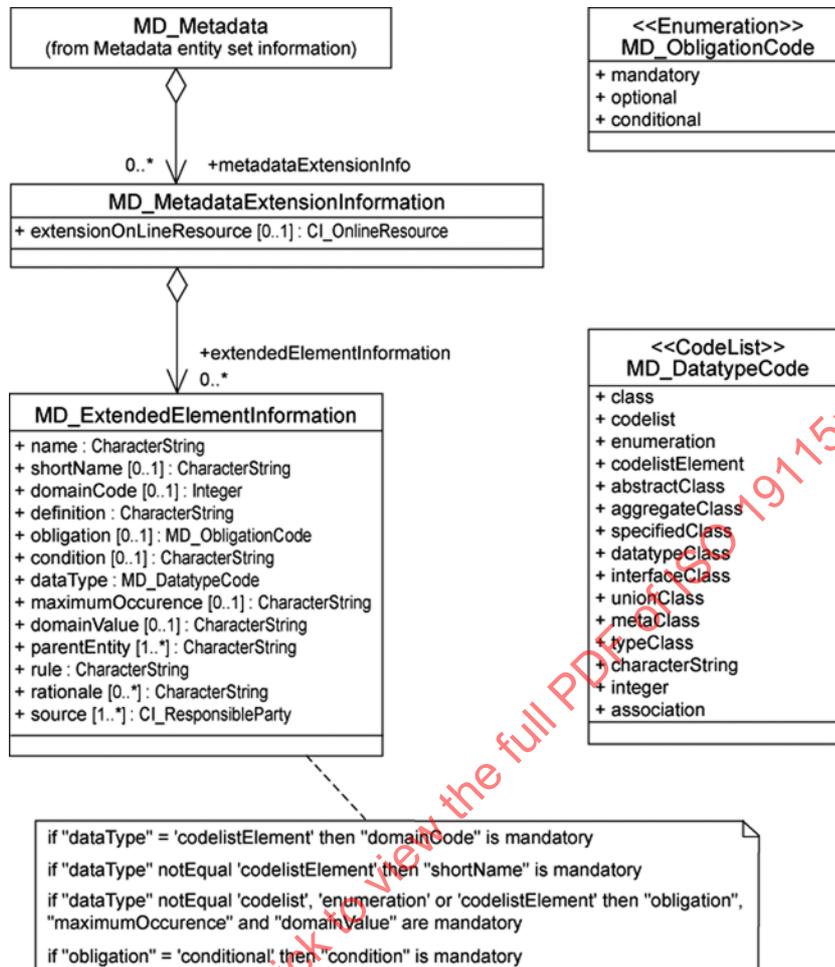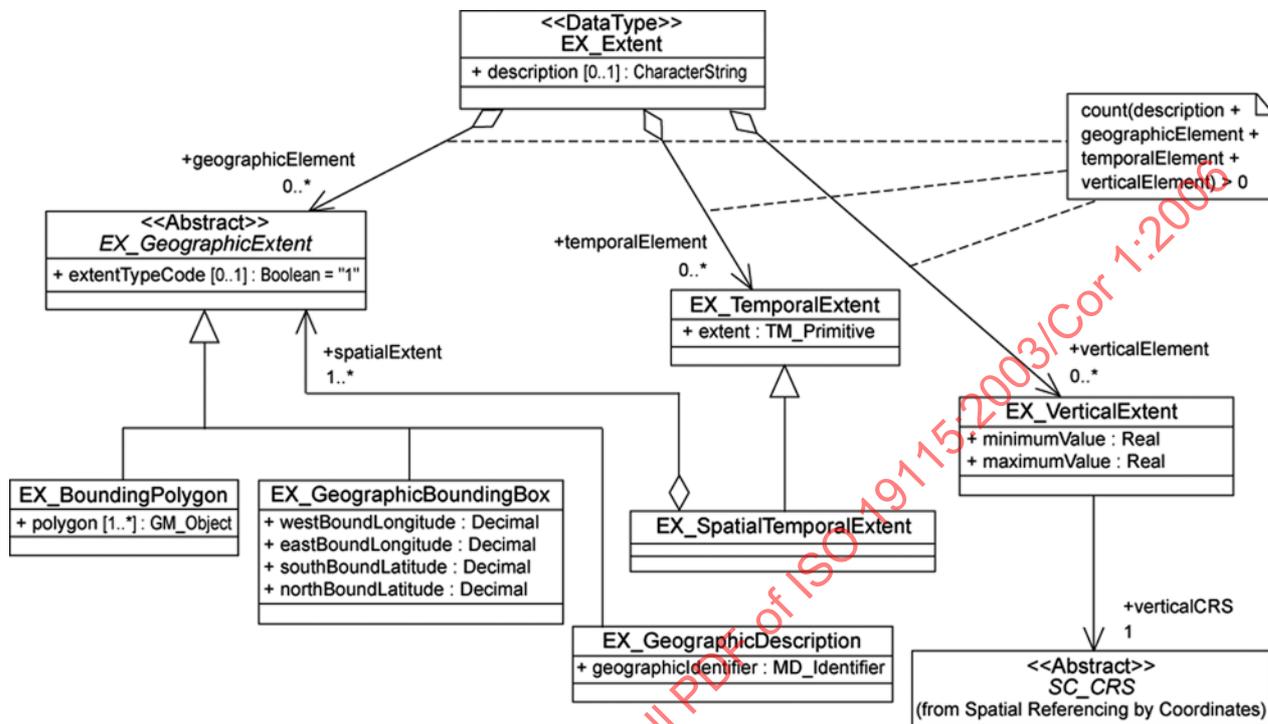
Replace Figure A.15 with the following:

Figure A.15 — Extent information

Page 34, subclause A.3.2

Replace Figure A.16 with the following:
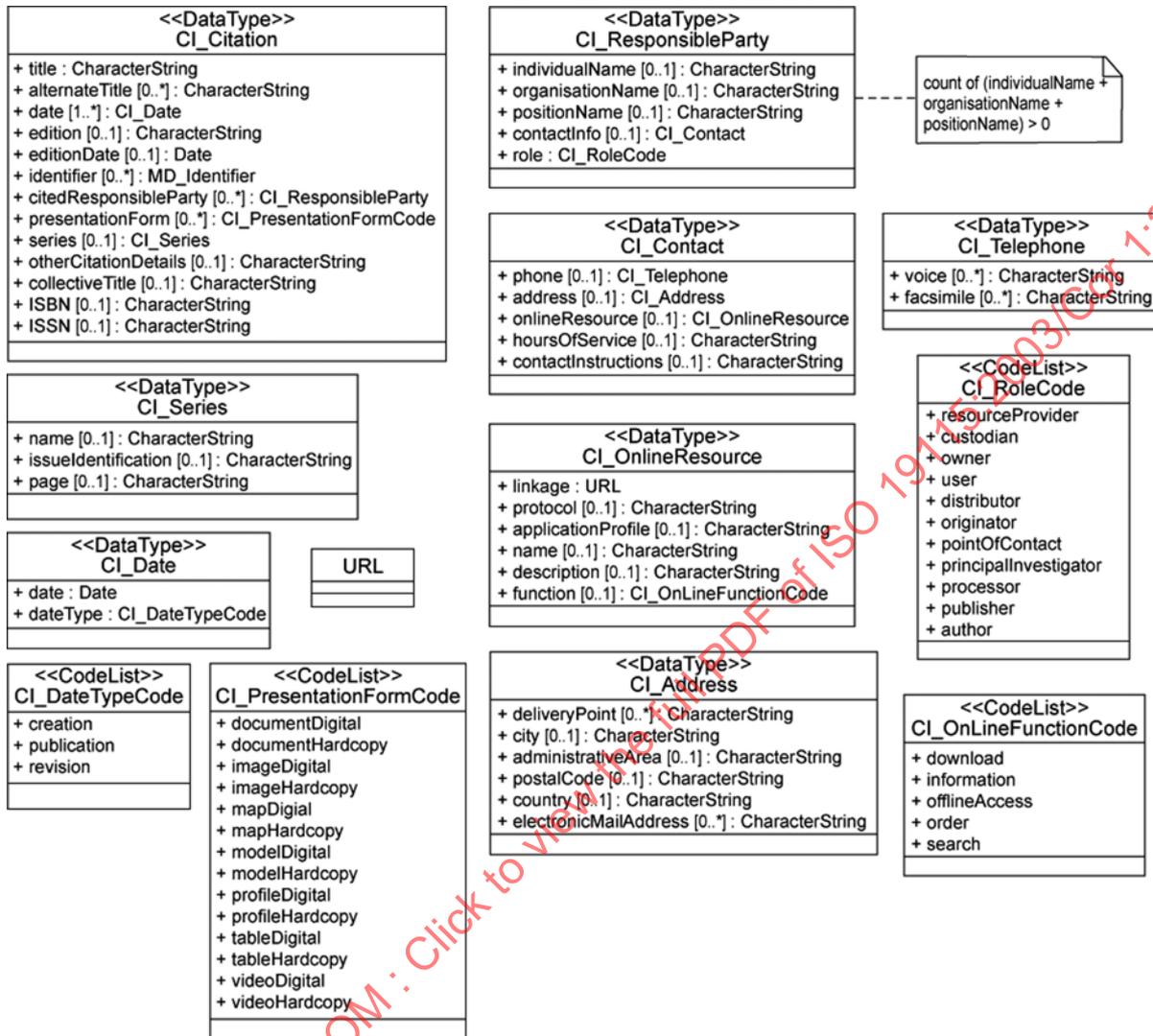
Figure A.16 — Citation and responsible party information

Page 38, subclause B.2.1

Replace row 5 with the following:

5	parentIdentifier	mdParentID	the identifier of the metadata to which this metadata is a subset (child)	C / If there is an upper hierarchy level	1	CharacterString	Free text

Replace row 11 with the following:

11	metadataStandardVersion	mdStanVer	version of the metadata standard (version of the profile) used	O	1	CharacterString	Free text

Add new row 11.2:

11.2	locate	loc	Provides information about an alternatively used localized character string for a linguistic extension	O	N	Class	PT_Locale

Page 42, subclause B.2.2.1

Replace row 47 with the following:

47.	SV_ServiceIdentification	SerIdent	identification of capabilities which a service provider makes available to a service user through a set of interfaces that define a behaviour – See ISO 19119 for further information	Use obligation from referencing object	Use maximum occurrence from referencing object	Specified Class (MD_Identification)	Lines 24-35.1

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Page 58, subclause B.2.5.2

Replace rows 150 and 151 with the following:

No.	Name	Short name	Definition	Obligation / Condition	Maximum occurrence	Data type
150.	attributes	attribSet	instances of attribute types to which the information applies	C / features, featureInstances, attributeInstances, dataset and other not documented?	1	Set (B.4.7)	GF_AttributeType (B.4.4)
151.	features	featSet	instances of feature types to which the information applies	C / attributes, featureInstances, attributeInstances, dataset and other not documented?	1	Set (B.4.7)	GF_FeatureType (B.4.4)

Page 60, subclause B.2.6.1

Replace row 165 with the following:

No.	Name	Short name	Definition	Obligation / Condition	Maximum occurrence	Data type
165.	cornerPoints	cornerPts	earth location in the coordinate system defined by the Spatial Reference System and the grid coordinate of the cells at opposite ends of grid coverage along two diagonals in the grid spatial dimensions. There are four corner points in a georectified grid; at least two corner points along one diagonal are required. The first corner point corresponds to the origin of the grid.	M	1	Sequence (B.4.7)	GM_Point <<Type>> (B.4.6)

Page 63, subclause B.2.7.1

Replace the contents of B.2.7.1 with the following:

- UML model shown in Figure A.9

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
186.	MD_ReferenceSystem	RefSystem	information about the reference system	Use obligation/condition from referencing object	Use maximum occurrence from referencing object	Aggregated Class (MD_Metadata)	Line 187
187.	referenceSystemIdentifier	refSysId	name of reference system	Refer to SC_CRS in ISO 19111 when coordinate reference system information is not given through reference system identifier	1	Class	RS_Identifier (B.2.7.3)
188.	intentionally left blank						
189.	intentionally left blank						
190.	intentionally left blank						
191.	intentionally left blank						
192.	intentionally left blank						
193.	intentionally left blank						
194.	intentionally left blank						
195.	RS_ReferenceSystem	RefSys	description of the spatial and temporal reference systems used in the dataset	Use obligation/condition from referencing object	Use maximum occurrence from referencing object	Class <<Abstract>>	Lines 196-197
196.	name	refSysName	name of reference system used	M	1	Class	RS_Identifier (B.2.7.3)
197.	domainOfValidity	domOValid	range which is valid for the reference system	O	N	Class	EX_Extent <<DataType>> (B.3.1)
198.	intentionally left blank						
199.	intentionally left blank						
200.	intentionally left blank						

Page 64, subclause B.2.7.2

Replace the contents of B.2.7.2 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
201.	intentionally left blank						
202.	intentionally left blank						
203.	intentionally left blank						
204.	intentionally left blank						

Page 65, subclause B.2.7.3

Replace row 205 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
205.	<<DataType>> MD_Identifier	MdIdent	value uniquely identifying an object within a namespace	Use obligation/condition from referencing object	Use maximum occurrence from referencing object	Class	Lines 206-207

Page 65, subclause B.2.7.4

Replace the contents of B.2.7.4 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
209.	intentionally left blank						
210.	intentionally left blank						
211.	intentionally left blank						

Page 66, subclause B.2.7.5

Replace the contents of B.2.7.5 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
212.	intentionally left blank						
213.	intentionally left blank						
214.	intentionally left blank						

Page 66, subclause B.2.7.5

Replace the contents of B.2.7.6 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
215.	intentionally left blank						
216.	intentionally left blank						
217.	intentionally left blank						
218.	intentionally left blank						
219.	intentionally left blank						
220.	intentionally left blank						
221.	intentionally left blank						
222.	intentionally left blank						
223.	intentionally left blank						
224.	intentionally left blank						
225.	intentionally left blank						
226.	intentionally left blank						
227.	intentionally left blank						
228.	intentionally left blank						
229.	intentionally left blank						

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
230.	intentionally left blank						
231.	intentionally left blank						

Page 70, subclause B.2.8.1

Replace row 243 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
243.	MD_ImageDescription	ImgDesc	information about an image's suitability for use	Use obligation/ condition from referencing object	Use maximum occurrence from referencing object	Specified Class (MD_Coverage Description)	Lines 244-255 and 240-242

Page 76, subclause B.2.10.5

Replace row 295 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
295.	volumes	medVol	number of items in the media identified	O	1	Integer	>0

Page 82, subclause B.3.1.2

Replace row 342 with the following:

	Name / Role Name	Short Name	Definition	Obligation / Condition	Maximum occurrence	Data type	Domain
342.	polygon	polygon	sets of points defining the bounding polygon	M	N	Class	GM_Object (B.4.6)

Page 83, subclause B.3.1.2
Replace rows 344, 345, 346 and 347 with the following:

344.	westBoundLongitude	westBL	western-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east)	M	1	Decimal	-180,0 <= West Bounding Longitude Value <= 180,0
345.	eastBoundLongitude	eastBL	eastern-most coordinate of the limit of the dataset extent, expressed in longitude in decimal degrees (positive east)	M	1	Decimal	-180,0 <= East Bounding Longitude Value <= 180,0
346.	southBoundLatitude	southBL	southern-most coordinate of the limit of the dataset extent, expressed in latitude in decimal degrees (positive north)	M	1	Decimal	-90,0 <= South Bounding Latitude Value <= 90,0; South Bounding Latitude Value <= North bounding Latitude Value
347.	northBoundLatitude	northBL	northern-most, coordinate of the limit of the dataset extent expressed in latitude in decimal degrees (positive north)	M	1	Decimal	-90,0 <= North Bounding Latitude Value <= 90,0; North Bounding Latitude Value >= South Bounding Latitude Value

Page 85, subclause B.3.1.4
Replace rows 357 and 358 with the following:

357.	intentionally left blank						
358.	*role name:* verticalCRS	vertCRS	provides information about the vertical coordinate reference system to which the maximum and minimum elevation values are measured. The CRS identification includes unit of measure.	M	1	Association	SC_CRS (B.4.9)

Page 87, subclause B.3.2.2
Replace row 385 with the following:

385.	country	country	country of the physical address	O	1	CharacterString	Free text

Page 92, subclause B.4.9

Replace B.4.9 with the following:

B.4.9   Vertical coordinate reference system information

SC_CRS: set of parameters describing the relation of gravity-related heights to the Earth. This class is fully documented in ISO 19111.

Page 96, subclause B.5.10

Replace row 18 with the following:

18.	(reserved for future use)	017	a future ISO/IEC 8-bit single-byte coded graphic character set (e.g. possibly ISO/IEC 8859-12)

Page 101, subclause B.5.25

Replace row 2 with the following:

2.	attribute	001	information applies to the attribute value

Replace row 7 with the following:

7.	series	006	information applies to the series
			Note: "series" applies to any DS_Aggregate.

Page 112, subclause E.2
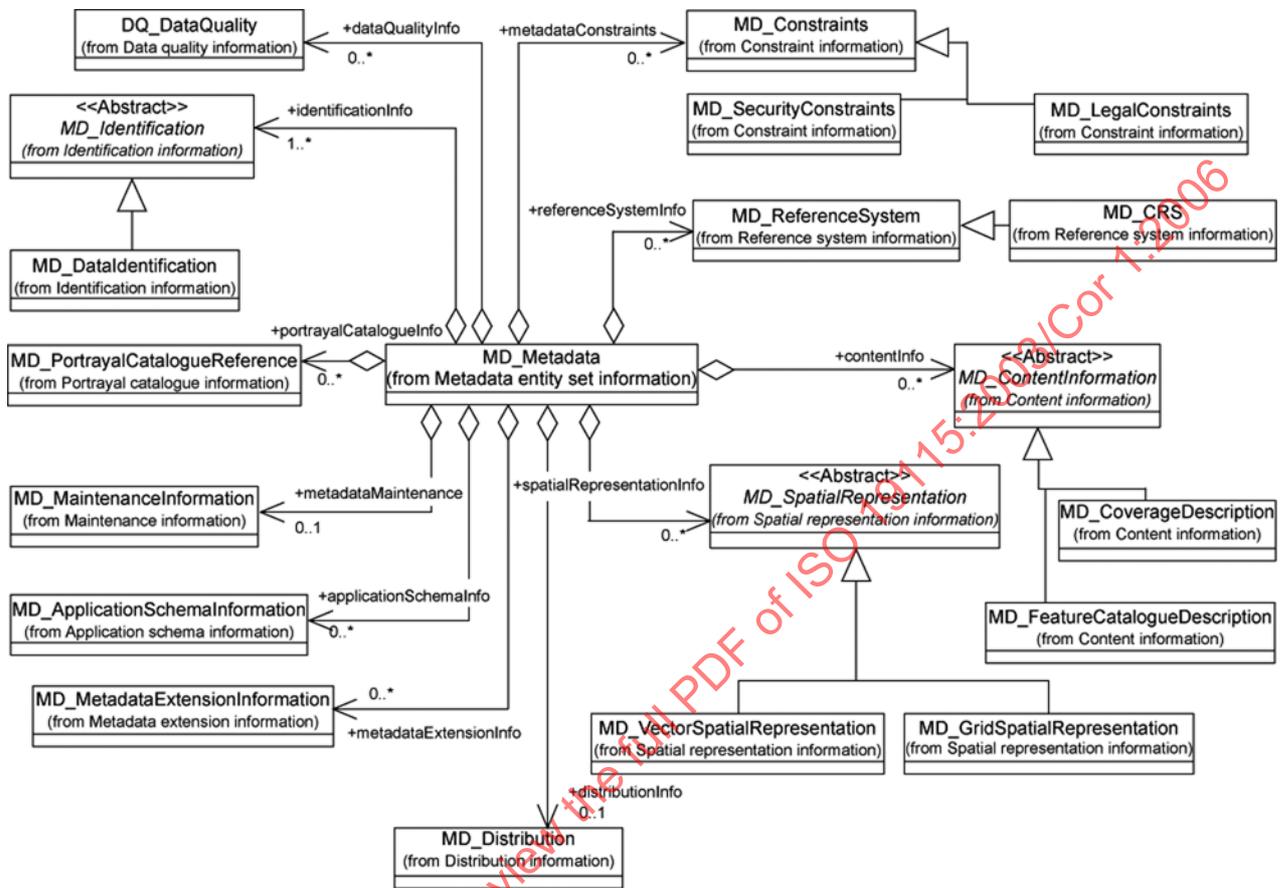
Replace Figure E.1 with the following:

Figure E.1 — Comprehensive dataset metadata profile

Page 114, subclause F.4

Replace list item III with the following:
    III) Go to Stage 9.

Page 117, subclause F.10

Replace paragraph three with the following:
Seven possible types of extensions may be documented:

- Definition of a new metadata section.

- Definition of new metadata codelist to replace a "free text" domain.

- Definition of additional metadata codelist elements.

- Definition of a new metadata element.

- Definition of new metadata entity.

- Definition of more stringent metadata obligation.

- Definition of a restricted metadata domain.

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Page 126, subclause I.2

Replace the example in I.2 with the following:
MD_Metadata
+identificationInfo
    MD_DataIdentification
    citation:
    . CI_Citation
    . title: Exploration Licences for Minerals
    . date:
    .   CI_Date
    .   date: 193001
    .   dateType: 001
    abstract: Location of all current mineral Exploration Licences issued under the Mining Act, 1971. Exploration Licences provide exclusive tenure rights to explore for mineral resources for up to a maximum of 5 years. Comment is sought on applications for Exploration Licences from numerous sources before granting. Exploration programs are subject to strict environmental and heritage conditions. Exploitation of identified resources must be made under separate mineral production leases.
    status: 004
    pointOfContact:
    . CI_ResponsibleParty
    ..contactInfo:
    ..   CI_Contact
    ..   phone:
    ..   ….CI_Telephone
    ..   ….voice: 61 8 8463 3306
    ..   ….facsimile: 61 8 8463 3268
    ..   address:
    ..   ….CI_Address
    ..   ….deliveryPoint: GPO Box 167
    ..   ….city: Adelaide
    ..   ….administrativeArea: South Australia
    ..   ….postalCode: 5001
    ..   ….country: Australia
    ..   ….electronicMailAddress: pirsa.spatial@saugov.sa.gov.au
    ..   onlineResource:
    ..   ….CI_OnlineResource
    ..   ….linkage: http://www.pir.sa.gov.au
    ..role: 007
    ..organisationName: Department of Primary Industries and Resources SA
    ..positionName: GIS Coordinator
    +resourceConstraints
    ..MD_Constraints
    ..useLimitation: The data should not be used at a scale larger than 1:50 000.
    +resourceFormat
    ..MD_Format
    ..name: ArcInfo Export
    ..version: 8.0.2
    +resourceFormat
    ..MD_Format
    ..name: MapInfo
    ..version: 6.0
    +resourceFormat
    ..MD_Format
    ..name: DXF
    ..version: 14
    +resourceFormat
    ..MD_Format
    ..name: Plotted Maps