INSPIRE theme specific metadata element	Definition	Multiplicity	ISO 19115					Multiplicity considering theme specific metadata	Condition / remarks	Where does the information come from?
				Name / rolename EN	Definition EN	Domain	Multiplicity			
Maintenance information	Information about the scope and frequency of updating	[0..1]	30	*Role name:* resourceMaintenance	provides information about the frequency of resource updates, and the scope of those updates	MD_MaintenanceInformation (B.2.5)	[0..*]	[0..1]		Data specification
			142	MD_MaintenanceInformation	information about the scope and frequency of updating	Lines 143, 146, 148				Data specification
			143	maintenanceAndUpdateFrequency	frequency with which changes and additions are made to the resource after the initial resource is completed	MD_MaintenanceFrequency Code <<CodeList>> (B.5.18)	[1..1]	[1..1]		Data specification: "At least the following elements should be used …"
			146	updateScope	scope of data to which maintenance is applied	MD_ScopeCode <<CodeList>> (B.5.25)	[0..*]	[1..*]		Data specification: "At least the following elements should be used …"
			148	maintenanceNote	information regarding specific requirements for maintaining the resource	free text	[0..*]	[1..*]		Data specification: "At least the following elements should be used …"
Spatial representation information	Digital representation of spatial information in the dataset	[0..*]	12	*Role name:* spatialRepresentationInfo	digital representation of spatial information in the dataset	MD_SpatialRepresentation <<Abstract>> (B.2.6)	[0..*]	[0..*]		Data specification
			156	MD_SpatialRepresentation	digital mechanism used to represent spatial information	<<Abstract>>			MD_SpatialRepresentation can be expressed as MD_GridSpatialRepresentation, MD_Georectified, MD_Georeferenceable or MD_VectorSpatialRepresentation. See ISO 19115 for further information.	Data specification
Supplemental information	Any other descriptive information about the dataset	[0..1]	46	supplementalInformation	any other descriptive information about the dataset	free text	[0..1]	[0..1]		Data specification
Process step	Information about an event or transformation in the life of a dataset including the process used to maintain the dataset	[0..*]	84	*Role name:* processStep	information about events in the life of a dataset specified by the scope	LI_ProcessStep (B.2.4.2.2)	[C..*]	[0..*]		Data specification
			86	LI_ProcessStep	description of the event, including related parameters or tolerances	Line 87				Data specification
			87	description	description of the event, including related parameters or tolerances	free text	[1..1]	[1..1]		following ISO, explicitly named only in DS orthoimagery
Data source	Information about the source data used in creating the data specified by the scope	[0..*]	85	*Role name:* source	information about the source data used in creating the data specified by the scope	LI_Source (B.2.4.2.3)	[C..*]	[0..*]		Data specification
			92	LI_Source	information about the source data used in creating the data specified by the scope	Lines 93, 97				Data specification
			93	description	detailed description of the level of the source data	free text	[C..1]	[C..1]	"Either the description (CharacterString) or the sourceExtent (EX_Extent) elements shall be provided."	Data specification
			97	sourceExtent	information about the spatial, vertical and temporal extent of the source data	EX_Extent (B.3.1)	[C..*]	[C..1]	"Either the description (CharacterString) or the sourceExtent (EX_Extent) elements shall be provided."	Data specification
Browse graphic information	Graphic that provides an illustration of the dataset (should include a legend for the graphic)	[0..*]	31	*Role name:* graphicOverview	provides a graphic that illustrates the resource(s) (should include a legend for the graphic)	MD_BrowseGraphic (B.2.2.2)	[0..*]	[0..*]		Data specification
			48	MD_BrowseGraphic	graphic that provides an illustration of the dataset (should include a legend for the graphic)	Line 49				Data specification
			49	fileName	name of the file that contains a graphic that provides an illustration of the dataset	free text	[1..1]	[1..1]		Data specification
Image description	Information about an image's suitability for use	[0..*]	16	*Role name:* contentInfo	provides information about the feature catalogue and describes the coverage and image data characteristics	MD_ContentInformation <<Abstract>> (B.2.8)	[0..*]	[0..*]		Data specification
			243	*MD_ContentInformation =* MD_ImageDescription	information about an image's suitability for use	Lines 240, 241, 248				Data specification
			240	attributeDescription	description of the attribute described by the measurement value	RecordType (B.4.3) --> ISO/TS 19103	[1..1]	[1..1]		following ISO
			241	contentType	type of information represented by the cell value	MD_CoverageContentTypeCode <<CodeList>> (B.5.12)	[1..1]	[1..1]		following ISO
			248	cloudCoverPercentage	area of the dataset obscured by clouds, expressed as a percentage of the spatial extent	0,00 to 100	[0..1]	[1..1]		Data specification

Category	Description	Mult.	#	Element	Definition	Type/Value	Mult.1	Mult.2	Notes	Comment
Content information	description of the content of a dataset	[0..1]	16	*Role name:* contentInfo	provides information about the feature catalogue and describes the coverage and image data characteristics	MD_ContentInformation <<Abstract>> (B.2.8)	[0..*]	[0..*]		following ISO
			233	*MD_ContentInformation =* MD_FeatureCatalogueDescription	information identifying the feature catalogue or the conceptual schema	Lines 236, 238				Data specification
			236	includedWithDataset	indication of whether or not the feature catalogue is included with the dataset	0=no 1=yes	[1..1]	[1..1]		following ISO
			238	featureCatalogueCitation	complete bibliographic reference to one or more external feature catalogues	CI_Citation (B.3.2)	[1..*]	[1..1]		following ISO
Digital transfer options information	Technical means and media by which a resource is obtained from the distributor	[0..*]	273	*Role name:* transferOptions	provides information about technical means and media by which a resource is obtained from the distributor	MD_DigitalTransferOptions (B.2.10.2)	[0..*]	[0..*]		Data specification
			274	MD_DigitalTransferOptions	technical means and media by which a resource is obtained from the distributor	Lines 275, 276, 278				Data specification
			275	unitsOfDistribution	tiles, layers, geographic areas,etc., in which data is available	free text	[0..1]	[C..1]		"At least the following elements should be used …" (Data specification **elevation** and **orthoimagery**)
			276	transferSize	estimated size of a unit in the specified transfer format, expressed in megabytes. The transfer size is > 0.0	Real > 0,0	[0..1]	[C..1]		"At least the following elements should be used …" (Data specification **hydrography**)
			278	offLine	information about offline media on which the resource can be obtained	MD_Medium (B.2.10.5)	[0..1]	[C..1]	MD_Medium itself contains several optional elements. See ISO 19115 for further information.	"At least the following elements should be used …" (Data specification **elevation** and **orthoimagery**)
Identification – Extent	In addition to the Geographic bounding box the following element should be used to provide a common "name" for the extent	[0..*]	45	extent	extent information including the bounding box, bounding polygon, vertical, and temporal extent of the dataset	EX_Extent (B.3.1)	[C..*]	[0..*]		Data specification
			334	EX_Extent	information about horizontal, vertical, and temporal extent	Line 335				Data specification
			335	description	spatial and temporal extent for the referring object	free text	[C..1]	[0..1]		Data specification
Data Quality – QUANTITATIVE RESULTS	Several, theme specific aspects of Data Quality - See corresponding Data Specfication for further information	[C..*]	80	*Role name:* report	quantitative quality information for the data specified by the scope	DQ_Element (B.2.4.3)	[C..*]	[C..*]	Mandatory if the data set includes types from the Generic Network Model and does not assure centreline topology (connectivity of centrelines) for the network.	For reporting **quantitative** results only!
			115	*DQ_Element =* DQ_TopologicalConsistency	correctness of the explicitly encoded topological characteristics of the dataset as described by the scope	Lines 100, 103, 104, 106, 107				following ISO 19115
			100	nameOfMeasure	name of the test applied to the data	free text	[0..*]	[0..*]		Data specification: corresponding element in ISO 19157 is given in implementing instructions if reporting quantitative results
			103	evaluationMethodType	type of method used to evaluate quality of the dataset	DQ_EvaluationMethod TypeCode <<CodeList>> (B.5.6)	[0..1]	[0..1]		Data specification: corresponding element in ISO 19157 is given in implementing instructions if reporting quantitative results
			104	evaluationMethodDescription	description of the evaluation method	free text	[0..1]	[0..1]		Data specification: corresponding element in ISO 19157 is given in implementing instructions if reporting quantitative results
			106	dateTime	date or range of dates on which a data quality measure was applied	DateTime --> ISO/TS 19103	[0..*]	[0..*]		Data specification: corresponding element in ISO 19157 is given in implementing instructions if reporting quantitative results
			107	result	value (or set of values) obtained from applying a data quality measure or the outcome of evaluating the obtained value (or set of values) against a specified acceptable conformance quality level	DQ_Result (B.2.4.4)	[1..2]	[1..2]		following ISO 19115
			133	*DQ_Result =* DQ_QuantitativeResult	the values or information about the value(s) (or set of values) obtained from applying a data quality measure	Lines 135, 137			required in case of reporting quantitative results only	Data specification: corresponding element in ISO 19157 is given in implementing instructions if reporting quantitative results

			135	valueUnit	value unit for reporting a data quality result	UnitOfMeasure --> ISO/TS 19103	[1..1]	[1..1]	required in case of reporting quantitative results only	following ISO 19115
			137	value	quantitative value or values, content determined by the evaluation procedure used	Record --> ISO/TS 19103	[1..*]	[1..*]		Data specification: corresponding element in ISO 19157 is given in implementing instructions if reporting quantitative results
Data Quality – DESCRIPTIVE RESULTS	Several, theme specific aspects of Data Quality - See corresponding Data Specfication for further information	[C..*]	81	*Role name:* lineage	non-quantitative quality information about the lineage of the data specified by the scope	LI_Lineage (B.2.4.2)	[C..1]	[C..1]	Mandatory if the data set includes types from the Generic Network Model and does not assure centreline topology (connectivity of centrelines) for the network.	For reporting **descriptive** results only!
			82	LI_Lineage	information about the events or source data used in constructing the data specified by the scope or lack of knowledge about lineage	Line 83				following ISO 19115
			83	statement	general explanation of the data producer.s knowledge about the lineage of a dataset	free text	[C..1]	[1..1]		following ISO 19116