

No	Section	Issue	Change
1	Chapter 6, App F and the metadata examples.	Incorrect classification of ESACompleteness – should be classified as Completeness/Omission (Not Completeness/Commission). Also some descriptions of the measure have incorrectly included the definition of Acceptable Quality Levels	Modify Relevant Quantitative Quality Information Table (Chap 6) Modify ESA AQL Table to reflect omission rather than commission (Chap 6) Modify Quality Measure Tables (Chap 6 & App F) Modify (XML) metadata example to reflect changes to Quality Measure Tables
2	Sec 8.1.1	ISO 19115 is now finalized and published	Update references to ISO 19115
3	Sec 8.1.1 & App B	Naming convention of UML Class Diagrams is unclear (A.1 to A.16)	Add footnote explaining series of UML diagrams
4	Sec 8.1.4	Out of date references to ISO/TC211 standards and documents	Update references to ISO/TC211 standards and documents
5	Sec 8	ISO 19115 is now finalized	Replace all references to ISO/FDIS 19115 to ISO 19115
6	Sec 8.3.2 and App B	2 character language code used in language element	Changed to 3 character code (“eng”) associated with ISO 639-2
7	Sec 8.3.3	NZ_Identifier datatype definition, an ESA extension (until now) unnecessary as values of the general datatype, RS_Identifier, as defined in 19115 and 19139(v0.8), can be constrained more simply to just accept NZ values.	Add rows to describe code (207) and codeSpace elements (208.1)
8	Sec 8.3	NZGMD extensions for keywords, mandate and audience are not described	Add further rows to describe NZGMD extension elements
9	Sec 8.3.4	NZGMD profile includes MD_Usage class	Add MD_Usage as row to table (Attribute details in App B)
10	Sec 8.3.9	The class MD_ScopeDescription is not implemented fully in ISO 19139	Add new attribute updateChanges to MD_MaintenanceInformation and remove maintenanceDataChanges from

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			updateScopeDescription structure.
11	App B UML Class Diagrams	The stereotype header on many of the classes are identifying the Class Objects as “Data Type” where the equivalent Class Objects in 19115 and 19139(v0.8) do not make this distinction and similarly several “Abstract” Classes are not shown as such	Align stereotype headers on all classes with those shown in 19115 and 19139(v0.8)
12	App B UML Class Diagram A.2	Obligation/attribute multiplicity on Class MD_AggregateInformation attributes aggregateDataSetName & aggregateDataSetIdentifier do not show that they are conditional ([0..1])	Show that Class MD_AggregateInformation attributes aggregateDataSetName & aggregateDataSetIdentifier are conditional by inserting “[0..1]”
13	App B UML Class Diagram A.7	19139(v0.8) does not implement MD_ScopeDescription and hence the ESA Extension Class MD_DataChanges cannot be implemented.	New attribute “updateChanges” created for MD_MaintenanceInformation and extension to MD_ScopeDescription; the attribute extend, has been removed.
14	App B UML Class Diagram A.9	NZ_Identifier datatype definition, an ESA extension (until now) unnecessary as values of the general datatype, RS_Identifier, as defined in 19115 and 19139(v0.8), can be constrained more simply to just accept NZ values.	Remove NZ_Identifier Class and likewise the extension codelist NZ_HeightDatums from this diagram. Revert to 19115/19139(v0.8) definition for referenceSystemIdentifier of RS_Identifier. Add constraining note that values must come from codelist NZ_ReferenceSystems Add MD_Identifier and RS_Identifier structure from 19115/19139(v0.8) omitting any optional attributes.
15	App B UML Class Diagram A.14	constraintLanguage attribute (of MD_ApplicationSchemaInformation) is defined in 19139(v0.8) as “nonNullString”.	Change datatype of attribute constraintLanguage to “nonNullString”.
16	App B UML Class Diagram A.15	NZ_Identifier datatype definition, an ESA extension (until now) unnecessary as values of the general datatype, RS_Identifier, as defined in 19115 and	Revert to 19115/19139(v0.8) definition for attribute datum of RS_Identifier. Add constraining note that values must come from

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		19139(v0.8), can be constrained more simply to just accept NZ values. (Refer SC_VerticalDatum class)	codelist NZ_HeightDatums Add MD_Identifier and RS_Identifier structure from 19115/19139(v0.8) omitting any optional attributes. Add extension codelist NZ_HeightDatums to diagram
17	App B UML Class Diagram A.2	Class MD_Usage (from NZ Geospatial Metadata Profile) not included in ESA metadata specification	Add class MD_Usage with attributes specificUsage, userDeterminedLimitations and userContactInfo Add conditional anchor notes for resourceSpecificUsage and userDeterminedLimitations
18	App B UML Class Diagram A.5	Anchor notes from iso19115 describing conditions not valid as profile changes obligation values	Remove anchor notes re conditions
19	App B A.16 Citation & Resp Party UML Class Diagram	Anchor note references to “objects” ambiguous	Refine anchor notes on NZGM conditions
20	App B – A.2 cont diagram	NZGMD profile includes ANZLIC search words and EPI strand as keywords	Change UML Class diagram to add these as two additional recognized thesaurus
21	App B A.2 & A.16 and XML extensions	XML MD_Keywords structure is unnecessarily different from 19115/139 [Have retained need to constrain values to FONZ, SONZ, ANZLIC & EPI but have done this by the same validation step that checks codelist values rather than the initial XML validation step	Revert thesaurusName to CI_Citation (as per 19115/19139) Add anchor note to A.16 Move NZ_RecognisedThesaurus from A.2 to A.16
22	APP B A.16	CI_Citation ISBN and ISSN have incorrect Domain	Change ISBN and ISSN domain to “CharacterString”
23	App B UML Class Diag A.12 and Sec 4 Table Definitions	ISO 19139 makes the relationship of format to distributor and does not allow for the relationship format to distribution (as has been followed on earlier versions of the profile)	Remove distributionFormat association from both UML Class diagram and Table definitions Change association from MD_Format to MD_Distributor labeled distributorFormat (UML Class diagrams)

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			Add table definition for distributorFormat
24.	App B A.8	Anomalies in UML Class diagram including discrepancies when compared to latest versions of 19115 and 19139. Similarly for table definitions	Correct georeferencedParameters, dimensionName, cornerPoints, axisDimensionProperties in both UML Class diagrams and tables
25.	App B	Description and examples for graphicsFile element (Application Schema) are confused and not compatible with original element descriptions in 19115 and 19139	Remove graphicsFile element from UML class diagram and table definitions and xml illustrations
26.	App B	Mandatory obligation of mediumNote (MD_Medium – Distribution class diagram) is inappropriate	Add further description to table definition of mediumNote Change UML class diagram to change obligation (to [0..1]) in Distribution class diagram and add further condition note
27	App B & XML illustrations	Authoritative namespace of thesaurus needs to be recorded to allow for conformance testing of keyword values	Add otherCitationDetails to profile in UML class diagrams A.16 including new condition constraint Add eg in XML instance for otherCitationDetails Add metadata extension to XML instance
28	App B (A.2)	Two UML class diagrams are no longer necessary	Amalgamate A.2 & A.2 (Other Details) into single Class diagram
29	App B (A.4 Class diagram)	Implications of iso/PDTS 19103 with respect to how to record unit type of measurements taken to ensure data quality measures have been met. Highlighted when creating a XML instance document	Add UnitOfMeasure, UoMLength (sub-class) and ISOStandardUnits (codelist) to A.5 Class diagram from UML Class diagram in iso/pdts 19103 Add explanatory note to A.5 Class diagram
30	App B A.12 Class Diagram,	With 19139 limitations on MD_Distribution to MD_Format association, it also appears that the association “transferOptions” should be removed and the association “distributorTransferOptions” utilized instead	Delete transferOptions association Add distributorTransferOption association and make mandatory Reflect changes in metadata extensions (App

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31	App C	There are significant changes (in a large part as a result of the latest version of ISO 19139) in the XML implementation including additional steps to test conformance	Appendix C has been rewritten to describe the new XML implementation and new XML examples.
32	App D	Confusion as to what "B.5" (initial header for appendix) refers to	Footnote added
33	LINZ comment	Footnote 4 in section 8.2 is missing	Footnote removed
34	LINZ comment	I had some difficulty in tying together diagram A.1, sections 8.3.x and diagrams A.2 onwards. I wrote onto my hardcopy of A.1 which classes corresponded to 8.3.x and A.2 onwards. It would be helpful if this was done in diagram A.1	Comments added to all diagrams in App B
35	LINZ comment	In 8.1.1 diagram A.1 refers to MD_ApplicationSchemaInformation. There is no section 8.3.x that refers to this.	New Sec 8.3.6 added
36	LINZ comment	There is section 8.3.8 MD_Constraints but no reference to this in diagram A.1. The association of MD_Constraints to MD_Identification should be shown in A.1	No change – See A.2
37	LINZ comment	Section 8.3.8 refers to MD_Constraints (plural), but A.2 and A.3 (in App B) refer to MD_Constraint (singular).	Changed to MD_Constraints (as per ISO 19115)
38	LINZ comment	Diagram A.3 has some attributes in singular and some in plural. Are they correct ? (They should all be singular in my mind, as each occurrence is a single constraint).	Changed to plural (as per ISO 19115)
39	LINZ comment	A.16 Citation Information refers to attributes such as alternateTitle, editionDate, etc but these are not mentioned in the Informative Tables under	Rows added to tables under MD_Identification

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		MD_Identification	
40	LINZ comment	There needs to be an explanation of the prefixes: MD_, EX_, NZ_, SC_, CI_ etc ?	Footnote added in App B
41	LINZ comment	Define “codelist” and point out equivalence to “controlled value list” in XML	Footnote added to App D
42	LINZ comment	For all codelists (including NZ_ReferenceSystems) where are the meanings of the codes explained ? eg what is NZ_HeightDatums value “MSL”	No Change – See App D
43	LINZ comment	Change Control #13: In A.7 MD_MaintenanceInformation refers to MD_ScopeDescription, yet it has been removed. Also MD_ChangeIndicator refers to MD_ScopeDescription, yet it has been removed.	No Change – See A.4 in App B
44	LINZ comment	Change Control #13: In A.7 MD_MaintenanceInformation refers to updateExtent[0..*]. There needs to be an explanation why it is not [0..1]. (How can there be multiple extents ?)	No Change – there can be multiple reference systems (and this is compatible with ISO 19115)
45	LINZ comment	Change Control #13: In A.9 MD_ScopeDescription referred to attributes and features. Surely these are still required ?	Agree, but no change required – see A.4
46	LINZ comment	Change Control #14: How will the Height Datum be referenced now that it has been removed from A.9 ?	See conditional note in A.9. No change
47	LINZ comment	Change Control #15: Change control does not explain why graphicsFile has been removed from A.14 Aah, but Change Control #25 does explain !	No Change
48	LINZ comment	In diag A.14 why is applicationSchemaInfo	No Change – there could be various App Schema for

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		multiplicity = 1..* ? (How can there be more than one ?)	different components
49	LINZ comment	Change Control #16: In A.15 NZ_HeightDatums should be singular (NZ_HeightDatum).	Changed to NZ_HeightDatum
50	LINZ comment	In A.15 what is data type "surface" ? If it is a multipolygon, then why is polygon of multiplicity 1..* ?	No Change – follows ISO 19115
51	LINZ comment	Change Control #17: In A.2 shouldn't userDeterminedLimitations be of multiplicity [0..*] ?	No Change – follows ISO 19115
52	LINZ comment	Change Control #17: In A.2 the conditional statement refers to resourceSpecificUsage. There is no such attribute (in MD_Usage).	No Change – refers to association
53	LINZ comment	Change Control #18: there is no change to the anchor note	Changed as suggested
54	LINZ comment	Change Control #19: In App B diag A.16 the conditional statements have ...if... but no ...then...	Changed as suggested
55	LINZ comment	In diagram A.9 there is reference to NZTM. This could be confusing when the NZ geodetic datum changes epoch (say, in 2010). Dave Mole and Graeme Blick agree that when the datum changes the new NZTM projection will have the epoch year appended to it, eg NZTM2010. So "reference system NZTM" means "projection NZTM on NZGD2000". Please add a note explaining this.	No change
56	LINZ comment	In A.9 the multiplicity of MD_Reference_systems is 1..*. What is the meaning of * ? Shouldn't it be 1..1 ?	No change – agree it is usually 1:1 but not always
57	LINZ comment	Change Control #7: doesn't make sense. 8.3.7 did not and does not refer to NZ_Identifier. Should this	Changed as suggested

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		be 8.3.3 ? Correct misspelling of "Vallue" in 8.3.3.	
58	LINZ comment	In 8.3.9 "There are two new metadata entities..." - what does "new" refer to ? remove "new"	Changed as suggested
59	LINZ comment	Change Control #9: In 8.3.4 include attributes with your best guess. I am unclear as to just what this is, and having it expanded out will make it clearer. We can then change it if needed.	Changed as suggested
60	LINZ comment	Change Control #1: In 6.3.3 and App F measureDescription should be "... that are missed" (instead of "not missed")	Changed as suggested plus XML instance documents
61	LINZ comment	In 6.3.3 reference to "Metadata must be included with any ESA dataset (Section Error! Reference source not found.)" should be "Metadata must be included with any ESA dataset (Section 8)." There are similar problems later in this section.	Changed as suggested
62	LINZ comment	Change Control #21: NZ_RecognisedThesaurus is still in A.2, yet is not referenced there.	Removed from A.2
63	LINZ comment	In A.16 what is "videoHardcopy" ?	No change – described in App D
64	LINZ comment	Change Control #29 refers to diagram A.5. It should refer to diagram A.4.	Changed as suggested
65	LINZ comment	Check and update all hyperlinks	Changed as suggested
66	LINZ comment	Refer to NZ Geospatial Metadata Standard	Changed as suggested
67	LINZ comment	Reproduce diagram A.1 from chapter 8 into App B	Changed as suggested