

LINENO	Detailed Mapping of DDI 2.1 elements and attributes to 3.0 (not including global attributes ID, xml:lang, source)						
1		all ID's map to @id for identifiable elements		Path assumes all parts will be in a single document headed by a StudyUnit			NOTE: Highlighted fields are either OtherMaterial or Notes which should be handled according to DDI 2.1 to 3.0 Translation Notes
	XML Schema		Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version 2.1						
3	3.0.0	codeBook	WRAP	NA			
4	4	version	WRAP	NA			
5	1.0	docDescr	WRAP	NA			
6	1.1	citation?	WRAP	NA			This is the bibliographic information for the DDI Instance. Alternatively this may go into StudyUnit Citation if it is an original publication rather than an XML version of a source document.
7		MARCLURI	attribute	NA			
8	1.1.1	uriStm?	WRAP	NA			
9	1.1.1.1	uri	PCDATA	ddi:DDIInstance/Citation/r:Title	r:Title	r:InternationalStringType	xml:lang attribute r:Citation > r:Language
10	1.1.1.2	subTitle	PCDATA	ddi:DDIInstance/Citation/r:SubTitle	r:SubTitle	r:InternationalStringType	
11	1.1.1.3	altTitle	PCDATA	ddi:DDIInstance/Citation/r:AlternateTitle	r:AlternateTitle	r:InternationalStringType	
12	1.1.1.4	parTitle	PCDATA	ddi:DDIInstance/Citation/r:Title	r:Title	r:InternationalStringType	By DDI 2.1 definition this is the title in an alternate language. Transfer xml:lang attribute information
13	1.1.1.5	IDNo*	PCDATA	s:StudyUnit/Archive/ArchiveSpecific/Item/CallNumber	a:CallNumber	xs:string	If agency is an International Identifier (ISSN, ISBN, etc.) then ddi:DDIInstance/Citation/InternationalIdentifier with @type
14		agency	attribute	s:StudyUnit/Archive/ArchiveSpecific/Item/LocationInArchive	a:LocationInArchive	r:InternationalStringType	
15		level	attribute (study file)				If "study" then decision can be made to make this a parent item or collection. If "file" then decision can be made to make this a nested item.
16	1.1.2	rspStm?	WRAP	NA			
17	1.1.2.1	AuthEnty*	PCDATA	ddi:DDIInstance/Citation/r:Creator	r:Creator	r:InternationalStringType	It is recommended to add the creator to the OrganizationScheme as either Organization or Individual to allow for inclusion of affiliation and role information
18		affiliation	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:OrganizationReference OR a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
19	1.1.2.2	othid*	PCDATA	ddi:DDIInstance/Citation/r:Contributor	r:Contributor	r:InternationalStringType	It is recommended to add the all othid contributors to the OrganizationScheme as either Organization or Individual to allow for inclusion of affiliation and role information
20		type	attribute				Content of @type is not defined in DDI 2.1
21		role	attribute	ddi:DDIInstance/Citation/r:Contributor@role	r:Contributor@role	xs:string	
22		affiliation	attribute	ddi:DDIInstance/Citation/r:Contributor@affiliation	r:Contributor@affiliation	xs:string	
23	1.1.3	prodStm?	WRAP	NA			
24	1.1.3.1	producer*	PCDATA	ddi:DDIInstance/Citation/r:Publisher	r:Publisher	r:InternationalStringType	
25		abbr	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/Nickname OR a:IndividualReference OR a:IndividualReference	a:Nickname	r:InternationalStringType	Requires creation of the affiliated organization or individual internally or externally in order to reference
26		affiliation	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:OrganizationReference OR a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
27		role	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	
28	1.1.3.2	copyright?	PCDATA	ddi:DDIInstance/Citation/r:Keyword	a:Keyword	r:InternationalStringType	enter "Producer"
29	1.1.3.3	prodDate*	PCDATA	ddi:DDIInstance/Citation/r:Copyright	r:Copyright	r:InternationalStringType	
30		date	attribute	ddi:DDIInstance/Citation/r:PublicationDate/r:HistoricalDate			The non-ISO date will need to be translated if not available from the data attribute
31	1.1.3.4	prodPlac*	PCDATA	ddi:DDIInstance/Citation/r:PublicationDate/r:Simple OR (r:Start and r:End)	r:Simple, r:Start, r:End	r:BaseDateType	ISO format
32	1.1.3.5	software*	PCDATA	s:StudyUnit/Archive/Archive/Individual/Relation/Name OR a:IndividualReference	a:Name	r:InternationalStringType	The instance as a whole is XML and is non-proprietary in terms of software. Individual items (data files or instruments) may require software and they should be listed in the relevant locations.
33		date	attribute				
34		version	attribute				
35	1.1.3.6	fundAg*	PCDATA	s:StudyUnit/Archive/Archive/Individual/Relation/Name OR a:IndividualReference	a:Name	r:InternationalStringType	Reference this entry from s:StudyUnit/Archive/Archive/Individual/Relation/AgencyOrganizationReference
36		abbr	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/Nickname OR a:IndividualReference	a:Nickname	r:InternationalStringType	
37		role	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	
38	1.1.3.7	grantNo*	PCDATA	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	Note: Following attributes may simply replicate above information
39		agency	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	Reference this entry from s:StudyUnit/Archive/Archive/Individual/Relation/AgencyOrganizationReference
40		role	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	
41	1.1.4	distStm?	WRAP	NA			
42	1.1.4.1	distbr*	PCDATA	ddi:DDIInstance/Citation/r:Contributor	r:Contributor	r:InternationalStringType	It is recommended to add the all othid contributors to the OrganizationScheme as either Organization or Individual to allow for inclusion of affiliation and role information. Use Keyword "Distributor"
43		abbr	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/Name OR a:IndividualReference	a:Name	r:InternationalStringType	
44		affiliation	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
45		URI	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	
46	1.1.4.2	contact*	PCDATA	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	Nest in organization
47		affiliation	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	
48		URI	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
49		email	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	
50	1.1.4.3	depositr*	PCDATA	ddi:DDIInstance/Citation/r:Contributor	r:Contributor	r:InternationalStringType	It is recommended to add the all othid contributors to the OrganizationScheme as either Organization or Individual to allow for inclusion of affiliation and role information. Use Keyword "Depositor"
51		abbr	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/Name OR a:IndividualReference	a:Name	r:InternationalStringType	
52		affiliation	attribute	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
53	1.1.4.4	depDate*	PCDATA	s:StudyUnit/Archive/Archive/Individual/Relation/IndividualReference OR a:IndividualReference	a:IndividualReference	r:ReferenceType	"DepositDate", add reference to Depositor Organization at r:LifeCycleEvent/AgencyOrganizationReference

XML Schema XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element/@attribute)	Element/attribute	Element/attribute type	Comments
2 Version2.1					
54	date	attribute	s:StudyUnit/Archive/LifeCycleInformation/ReleaseDate	r:Simple, r:Start, r:End	BaseDateType ISO format
55 1.1.4.5	distDate?	PCDATA	s:StudyUnit/Archive/LifeCycleInformation/ReleaseDate	r:EventType@otherValue	xs:string "ReleaseDate", add reference to Distributor Organization at r:LifeCycleEvent/AgencyOrganizationReference
56	date	attribute	s:StudyUnit/Archive/LifeCycleInformation/ReleaseDate	r:Simple, r:Start, r:End	BaseDateType ISO format
57 1.1.5	serStm?	WRAP	NA		
58	URI	attribute	s:StudyUnit/SeriesStatement/SeriesRepositoryLocation	r:SeriesRepositoryLocation	xs:anyURI
59 1.1.5.1	serName	PCDATA	s:StudyUnit/SeriesStatement/Name	r:Name	r:InternationalStringType
60	abbr	attribute	s:StudyUnit/SeriesStatement/Abbreviation	r:Abbreviation	xs:string
61 1.1.5.2	serInfo	PCDATA	s:StudyUnit/SeriesStatement/Description	r:SeriesDescription	r:StructuredStringType
62 1.1.6	verStm?	WRAP	NA		
63 1.1.6.1	version?	PCDATA	ddi:DDInstance@version	ddi:DDInstance@version	restricted xs:string BaseDateType
64	date	attribute	ddi:DDInstance@versionDate	ddi:DDInstance@versionDate	BaseDateType
65	type	attribute	ddi:DDInstance/VersionRationale	r:VersionRationale	r:InternationalStringType
66 1.1.6.2	verResp?	PCDATA	ddi:DDInstance/VersionResponsibility	r:VersionResponsibility	xs:string
67	affiliation	attribute	ddi:DDInstance@agency	ddi:DDInstance@agency	NCName VersionResponsibility If it is the maintenance agency place in attribute agency. Otherwise put in See Common Items for detailed instructions for translation of notes content.
68 1.1.6.3	notes*	PCDATA	ddi:DDInstance/Note	r:Note	Complex element
69	type	attribute			
70	subject	attribute			
71	level	attribute			
72	resp	attribute			
73	sdatrefs	attribute			
74 1.1.7	tblClt?	PCDATA	NA		This is a structured repetition of the citation information and has been removed
75	format	attribute	NA		
76 1.1.8	holdings	PCDATA	NA		
77	location	attribute	s:StudyUnit/Archive/ArchiveSpecific/Item/LocationInArchive	a:LocationInArchive	r:InternationalStringType
78	callno	attribute	s:StudyUnit/Archive/ArchiveSpecific/Item/CallNumber	a:CallNumber	xs:string
79	URI	attribute	s:StudyUnit/Archive/ArchiveSpecific/Item/URI	a:URI	xs:anyURI
80	media	attribute	s:StudyUnit/Archive/ArchiveSpecific/Item/Media	a:Media	r:InternationalStringType
81 1.1.9	notes*	PCDATA	Instance/Note	r:Note	Complex element See Common Items for detailed instructions for translation of notes content.
82	type	attribute			
83	subject	attribute			
84	level	attribute			
85	resp	attribute			
86	sdatrefs	attribute			
87 1.2	guide?	PCDATA	s:StudyUnit/LogicalProduct/DataRelationship/Description	r:Description	r:StructuredStringType Initial home will need to be parsed
88 1.3	docStatus?	PCDATA	s:StudyUnit/VersionRationale	r:VersionRationale	r:InternationalStringType
89 1.4	MARCURI	WRAP	s:StudyUnit/OtherMaterial	r:OtherMaterial	Complex element Use general instructions for OtherMaterial content.
90	URI	attribute			
91 1.4.1	title	WRAP			
92 1.4.1.1	title	PCDATA			
93 1.4.1.2	subTitle	PCDATA			
94 1.4.1.3	altTitle	PCDATA			
95 1.4.1.4	part	PCDATA			
96 1.4.1.5	idno	PCDATA			
97	agency	attribute			
98	level	attribute (study title)			
99 1.4.2	respStm?	WRAP			
100 1.4.2.1	affiliation	PCDATA			
101	affiliation	attribute			
102 1.4.2.2	other	PCDATA			
103	type	attribute			
104	role	attribute			
105	affiliation	attribute			
106 1.4.3	prodStm?	WRAP			
107 1.4.3.1	producer	PCDATA			
108	abbr	attribute			
109	affiliation	attribute			
110	role	attribute			
111 1.4.3.2	copyright?	PCDATA			
112 1.4.3.3	prodDate	PCDATA			
113	date	attribute			
114 1.4.3.4	prodPlace	PCDATA			
115 1.4.3.5	software	PCDATA			
116	date	attribute			
117	version	attribute			
118 1.4.3.6	fundAcq	PCDATA			
119	abbr	attribute			
120	role	attribute			
121 1.4.3.7	grantNo	PCDATA			
122	agency	attribute			
123	role	attribute			
124 1.4	distStm?	WRAP			
125 1.4.4.1	distrib	PCDATA			
126	abbr	attribute			
127	affiliation	attribute			
128	URI	attribute			
129 1.4.4.2	contact	PCDATA			
130	affiliation	attribute			
131	URI	attribute			
132	email	attribute			
133 1.4.4.3	deposit	PCDATA			
134	abbr	attribute			
135	affiliation	attribute			
136 1.4.4.4	depDate	PCDATA			
137	date	attribute			
138 1.4.4.5	distDate?	PCDATA			
139	date	attribute			
140 1.4.5	serStm?	WRAP			

XML Schema XML Schema Outline	Version 2.1	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
141	URI	attribute				
142	1.4.5.1	serName*	PCDATA			
143		abbr	attribute			
144	1.4.5.2	serInfo*	PCDATA			
145	1.4.6	verStrm?	WRAP			
146	1.4.6.1	version?	PCDATA			
147		date	attribute			
148		type	attribute			
149	1.4.6.2	verResp?	PCDATA			
150		affiliation	attribute			
151	1.4.6.3	notes*	PCDATA	s:StudyUnit/r:Note	r:Note	Complex element
152		type	attribute			See Common Items for detailed instructions for translation of notes content.
153		subject	attribute			
154		level	attribute			
155		resp	attribute			
156		sdatrefs	attribute			
157	1.4.7	bibCitr?	PCDATA			See OtherMaterial translation instructions
158		format	attribute			
159	1.4.8	holdings*	PCDATA			See OtherMaterial translation instructions
160		location	attribute			
161		calmo	attribute			
162		URI	attribute			
163		media	attribute			
164	1.4.9	notes*	PCDATA	s:StudyUnit/r:Note	r:Note	Complex element
165		type	attribute			See Common Items for detailed instructions for translation of notes content.
166		subject	attribute			
167		level	attribute			
168		resp	attribute			
169		sdatrefs	attribute			
170	1.5	notes*	PCDATA	s:StudyUnit/r:Note	r:Note	Complex element
171		type	attribute			See Common Items for detailed instructions for translation of notes content.
172		subject	attribute			
173		level	attribute			
174		resp	attribute			
175		sdatrefs	attribute			
176	2.0	stdyDscr	WRAP	NA		
177		access	attribute	NA		The embargo or access information that this points to should be entered in the StudyUnit > Embargo or in the Archive in the appropriate AccessType element.
178	2.1	citation	PCDATA	NA		This is the citation of the studyunit and should refer to the STUDY as a whole. Individual data products and data files can have their own specific bibliographic information at that sublevel
179		MARCURI	attribute	s:StudyUnit	OtherMaterial	ExternalURIReference
180	2.1.1	issStrm?	PCDATA	NA		complex element
181	2.1.1.1	titl	PCDATA	s:StudyUnit/r:Citation/r:Title	r:Title	r:InternationalStringType
182	2.1.1.2	subTitl?	PCDATA	s:StudyUnit/r:Citation/r:SubTitle	r:SubTitle	r:InternationalStringType
183	2.1.1.3	altTitl?	PCDATA	s:StudyUnit/r:Citation/r:AlternateTitle	r:AlternateTitle	r:InternationalStringType
184	2.1.1.4	parTitl?	PCDATA	s:StudyUnit/r:Citation/r:Title	r:Title	r:InternationalStringType
185	2.1.1.5	IDNo*	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:CallNumber	a:CallNumber	xs:string
186		agency	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:LocationInArchive	a:LocationInArchive	r:InternationalStringType
187		level	attribute			If "study" then decision can be made to make this a parent item or collection, if "file" then decision can be made to make this a nested item.
188	2.1.2	rspStrm?	PCDATA	NA		
189	2.1.2.1	AuthEnty*	PCDATA	s:StudyUnit/r:Citation/r:Creator s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization OR a:Individual/r:Relation/a:OrganizationReference OR a:IndividualReference	r:Creator	r:InternationalStringType
190		affiliation	attribute	a:OrganizationReference OR a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
191	2.1.2.2	othID*	PCDATA	s:StudyUnit/r:Citation/r:Contributor	r:Contributor	r:InternationalStringType
192		type	attribute			It is recommended to add the all othID contributors to the OrganizationScheme as either Organization or Individual to allow for inclusion of affiliation and role information
193		role	attribute	s:StudyUnit/r:Citation/r:Contributor@role	r:Contributor @role	xs:string
194		affiliation	attribute	s:StudyUnit/r:Citation/r:Contributor@affiliation	r:Contributor @affiliation	xs:string
195	2.1.3	prodStrm?	PCDATA	NA		Content of @type is not defined in DDI 2.1
196	2.1.3.1	producer*	PCDATA	s:StudyUnit/r:Citation/r:Publisher	r:Publisher	r:InternationalStringType
197		abbr	attribute	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization OR a:Individual/r:Relation/a:Nickname s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization OR a:Individual/r:Relation/a:OrganizationReference OR a:IndividualReference	a:Nickname	r:InternationalStringType
198		affiliation	attribute	a:OrganizationReference OR a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
199		role	attribute	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization OR a:Individual/a:Keyword	a:Keyword	r:InternationalStringType
200	2.1.3.2	copyright?	PCDATA	s:StudyUnit/r:Citation/r:Copyright	r:Copyright	r:InternationalStringType
201	2.1.3.3	prodDate*	PCDATA	s:StudyUnit/r:Citation/r:PublicationDate/r:HistoricalD ate	r:Date	The non-ISO date will need to be translated if not available from the data attribute
202		date	attribute	s:StudyUnit/r:Citation/r:PublicationDate/r:Simple OR (r:Start and r:End)	r:Simple, r:Start, r:End	r:BaseDateType
203	2.1.3.4	prodPlac*	PCDATA	s:StudyUnit/a:Archive/a:Location/a:Name s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization OR a:Individual/a:Location/a:Name	a:Name	r:InternationalStringType
204	2.1.3.5	software*	PCDATA	NA		The instance as a whole is XML and is non-proprietary in terms of software. Individual items (data files or instruments) may require software and they should be listed in the relevant locations.
205		date	attribute	NA		
206		version	attribute	NA		
207	2.1.3.6	fundAg*	PCDATA	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization/a:Name s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization/a:Nickname	a:Name	r:InternationalStringType
208		abbr	attribute	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Org anization/a:Nickname	a:Nickname	r:InternationalStringType
209		role	attribute	s:StudyUnit/r:FundingInformation/r:Role	r:Role	xs:string
210	2.1.3.7	grantNo*	PCDATA	s:StudyUnit/r:FundingInformation/r:Role	r:GrantNumber	xs:string
						Note: Following attributes may simply replicate above information

XML Schema	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
211	2.1	agency	s:StudyUnit/Archive/OrganizationScheme/Organization/a/Nickname	a:Name	r:InternationalStringType	Reference this entry from s:StudyUnit/r:FundingInformation/r:AgencyOrganizationReference
212	2.1.4	role	s:StudyUnit/r:FundingInformation/r:Role	r:Role	xs:string	
213	2.1.4	distStm?	NA			
214	2.1.4.1	distbr?	s:StudyUnit/r:Citation/r:Contributor	r:Contributor	r:InternationalStringType	It is recommended to add the all child contributors to the OrganizationScheme as either Organization or Individual to allow for inclusion of affiliation and role information. Use Keyword "Distributor"
215		abbr	s:StudyUnit/a:Individual/r:Relation/a:Nickname s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:Individual/r:Relation/a:OrganizationReference OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:IndividualReference	a:Nickname	r:InternationalStringType	
216		affiliation	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:IndividualReference	a:OrganizationReference OR a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
217		URI	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/r:URL	r:URL	anyURI	
218	2.1.4.2	contact*	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Individual/r:Relation/a:Name	a:Name	r:InternationalStringType	Nest in organization
219		affiliation	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:Individual/r:Relation/a:OrganizationReference OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:IndividualReference	a:Nickname	r:InternationalStringType	Requires creation of the affiliated organization or individual internally or externally in order to reference
220		URI	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Individual/r:URL	r:URL	anyURI	
221		email	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Individual/a:Email	a:Email	restricted xs:string	
222	2.1.4.3	depositor*	s:StudyUnit/r:Citation/r:Contributor	r:Contributor	r:InternationalStringType	It is recommended to add the all child contributors to the OrganizationScheme as either Organization or Individual to allow for inclusion of affiliation and role information. Use Keyword "Depositor"
223		abbr	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:IndividualReference OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:IndividualReference	a:Nickname	r:InternationalStringType	
224		affiliation	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization OR s:StudyUnit/a:Archive/a:OrganizationScheme/a:IndividualReference	a:OrganizationReference OR a:IndividualReference	r:ReferenceType	Requires creation of the affiliated organization or individual internally or externally in order to reference
225	2.1.4.4	depDate*	s:StudyUnit/a:Archive/r:LifeCycleInformation/r:LifeCycleEvent/r:EventType@otherValue	r:EventType@otherValue	xs:string	"Depositor" add reference to Depositor Organization at r:LifeCycleEvent/r:AgencyOrganizationReference
226		date	s:StudyUnit/a:Archive/r:LifeCycleInformation/r:LifeCycleEvent/r:Date/r:Simple	r:Simple_r:Start_r:End	BaseDateType	ISO format
227	2.1.4.5	distDate?	s:StudyUnit/a:Archive/r:LifeCycleInformation/r:LifeCycleEvent/r:Event@otherValue	r:Event@otherValue	xs:string	"Distributor" add reference to Distributor Organization at r:LifeCycleEvent/r:AgencyOrganizationReference
228		date	s:StudyUnit/a:Archive/r:LifeCycleInformation/r:LifeCycleEvent/r:Date/r:Simple	r:Simple_r:Start_r:End	BaseDateType	ISO format
229	2.1.5	serStm?	NA			
230		URI	s:StudyUnit/r:SeriesStatement/r:SeriesRepositoryLocation	r:SeriesRepositoryLocation	xs:anyURI	
231	2.1.5.1	serName*	s:StudyUnit/r:SeriesStatement/r:Name	r:Name	r:InternationalStringType	
232		abbr	s:StudyUnit/r:SeriesStatement/r:Abbreviation	r:Abbreviation	xs:string	
233	2.1.5.2	serInfo*	s:StudyUnit/r:SeriesStatement/r:SeriesDescription	r:SeriesDescription	r:StructuredStringType	
234	2.1.6	verStm?	NA			
235	2.1.6.1	version?	s:StudyUnit@version	s:StudyUnit@version	restricted xs:string	
236		date	s:StudyUnit@versionDate	s:StudyUnit@versionDate	BaseDateType	
237		type	s:StudyUnit/r:VersionRationale	r:VersionRationale	r:InternationalStringType	
238	2.1.6.2	verResp?	s:StudyUnit/r:VersionResponsibility	r:VersionResponsibility	xs:string	
239		affiliation	s:StudyUnit@agency	s:StudyUnit@agency	NCName	If it is the maintenance agency place in attribute agency. Otherwise put in r:VersionResponsibility
240	2.1.6.3	notes*	s:StudyUnit/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content.
241		type				
242		subject				
243		level				
244		resp				
245		sdatrefs				
246	2.1.7	bibliCIT?	NA			
247		format	NA			
248	2.1.8	holdings*	NA			This is a structured repetition of the citation information and has been removed
249		location	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:LocationInArchive	a:LocationInArchive	r:InternationalStringType	
250		calno	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:CallNumber	a:CallNumber	xs:string	
251		URI	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:URI	a:URI	xs:anyURI	
252		media	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Media	a:Media	r:InternationalStringType	
253	2.1.9	notes*	s:StudyUnit/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content.
254		type				
255		subject				
256		level				
257		resp				
258		sdatrefs				
259	2.2	stidInfo?	NA			
260	2.2.1	subject?	NA			
261	2.2.1.1	keyword*	s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject OR r:Keyword	r:Subject OR r:Keyword	r:InternationalStringType	DDI 3.0 differentiates between structured (subjects classifications) and unstructured (keywords). All 2.2.1.1 elements with @vocab and @vocabURI should be listed under subject remainder are listed under keyword
262		vocab	s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject OR r:Keyword@codeListID	r:Subject OR r:Keyword@codeListID	xs:string	
263		vocabURI	s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject OR r:Keyword@codeListID @codeListAgency	r:Subject OR r:Keyword@codeListID @codeListAgency	xs:string	parse contents to complete attributes
264	2.2.1.2	topClas*	s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject	r:Subject	r:InternationalStringType	
265		vocab	s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject @codeListID	r:Subject@codeListID	xs:string	
266		vocabURI	s:StudyUnit/r:Coverage/r:TopicalCoverage/r:Subject @codeListID @codeListAgency @codeListVersion	r:Subject@codeListID @codeListAgency @codeListVersion	xs:string	parse contents to complete attributes
267	2.2.2	abstract*	s:StudyUnit/s:Abstract	s:Abstract	r:IdentifiedStructuredStringType	

XML Schema Outline	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
268	date	attribute	s:StudyUnit/Archive/LifeCycle/Information/LifeCycleEvent/Date/Simple	r:Simple, r:Start, r:End	BaseDateType	May enter as LifeCycleEvent with original Maintenance Agency as AgencyOrganizationReference and description "Abstract Update"
269	2.2.3 sumDescr	WRAP	NA			
270	2.2.3.1 timePrd	PCDATA	s:StudyUnit/Coverage/TemporalCoverage/ReferenceDate/HistoricalDate	r:HistoricalDate	xs:string	
271	date	attribute	s:StudyUnit/Coverage/TemporalCoverage/ReferenceDate/Simple OR r:Start, r:End	r:Simple, r:Start, r:End	BaseDateType	Set value of "start end single" use to determine structure of BaseDateType
272	event	attribute	NA			Note: content not defined in DDI 2.1
273	cycle	attribute	NA			Note: content not defined in DDI 2.1
274	2.2.3.2 collDate*	PCDATA	s:StudyUnit/DataCollection/CollectionEvent/DataCollectionDate/HistoricalDate	r:HistoricalDate	BaseDateType	
275	date	attribute	s:StudyUnit/DataCollection/CollectionEvent/DataCollectionDate/Simple OR r:Start, r:End	r:Simple, r:Start, r:End	BaseDateType	Translate to ISO Set value of "start end single" use to determine structure of BaseDateType
276	event	attribute	NA			Note: content not defined in DDI 2.1
277	cycle	attribute	NA			Note: content not defined in DDI 2.1
278	2.2.3.3 nation*	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/TopLevelReference/LevelName	r:LevelName	xs:string	If GeographicStructure and GeographicLocation are created add r:TopLevelReference/LevelReference/ID containing reference to the appropriate Level element in GeographicStructure
279	abbr	attribute	s:StudyUnit/ConceptualComponent/GeographicLocationScheme/GeographicLocation/Values/GeographyCode	r:GeographyCode	r:CodeValueType	Transfer of this information required creation of GeographicStructure and GeographicLocation. Not required unless elements 2.2.3.7 boundPoly are used. See boundPoly for details.
280	2.2.3.3.1 txt	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/TopLevelReference/LevelName	r:LevelName	xs:string	This is an optional entry format for the content of nation. See comment notes above.
281	level	attribute	NA			
282	sdatrefs	attribute	NA			
283	2.2.3.3.2 concept	PCDATA	s:StudyUnit/ConceptualComponent/ConceptScheme/Concept/Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	attribute	s:StudyUnit/ConceptualComponent/ConceptScheme/Vocabulary/Title	r:Title	r:InternationalStringType	
285	vocabURI	attribute	s:StudyUnit/ConceptualComponent/ConceptScheme/Vocabulary/URI	r:URI	xs:anyURI	
286	2.2.3.4 geogCover*	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/Description	r:Description	r:StructuredStringType	
287	2.2.3.4.1 txt	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/Description	r:Description	r:StructuredStringType	This is an optional entry format for the content of geogCover
288	level	attribute	NA			
289	sdatrefs	attribute	NA			
283	2.2.3.4.2 concept	PCDATA	s:StudyUnit/ConceptualComponent/ConceptScheme/Concept/Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	attribute	s:StudyUnit/ConceptualComponent/ConceptScheme/Vocabulary/Title	r:Title	r:InternationalStringType	
285	vocabURI	attribute	s:StudyUnit/ConceptualComponent/ConceptScheme/Vocabulary/URI	r:URI	xs:anyURI	
293	2.2.3.5 geogUnit*	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/LowestLevelReference/LevelName	r:LevelName	xs:string	If GeographicStructure and GeographicLocation are created add r:LowestLevelReference/LevelReference/ID containing reference to the appropriate Level element in GeographicStructure
294	2.2.3.5.1 txt	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/LowestLevelReference/LevelName	r:LevelName	xs:string	This is an optional entry format for the content of geogUnit. See comment notes above.
295	level	attribute	NA			
296	sdatrefs	attribute	NA			
283	2.2.3.5.2 concept	PCDATA	s:StudyUnit/ConceptualComponent/ConceptScheme/Concept/Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	attribute	s:StudyUnit/ConceptualComponent/ConceptScheme/Vocabulary/Title	r:Title	r:InternationalStringType	
285	vocabURI	attribute	s:StudyUnit/ConceptualComponent/ConceptScheme/Vocabulary/URI	r:URI	xs:anyURI	
300	2.2.3.6 geobndBox?	WRAP	NA			
301	2.2.3.6.1 westBL	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/BoundingBox/WestLongitude	r:WestLongitude	restricted xs:decimal minInclusive="-180" maxInclusive="180"	
302	2.2.3.6.2 eastBL	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/BoundingBox/EastLongitude	r:EastLongitude	restricted xs:decimal minInclusive="-180" maxInclusive="180"	
303	2.2.3.6.3 southBL	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/BoundingBox/SouthLatitude	r:SouthLatitude	restricted xs:decimal minInclusive="-90" maxInclusive="90"	
304	2.2.3.6.4 northBL	PCDATA	s:StudyUnit/Coverage/SpatialCoverage/BoundingBox/NorthLatitude	r:NorthLatitude	restricted xs:decimal minInclusive="-90" maxInclusive="90"	
305	2.2.3.7 boundPoly?	WRAP	NA			
306	2.2.3.7.1 polygon	WRAP	NA			
307	2.2.3.7.1.1 point	WRAP	s:StudyUnit/ConceptualComponent/GeographicLocationScheme/GeographicLocation/Values/BoundingPolygon/Point AND r:GeographicTime	Where r:GeographyLevelReference/ID contains ID of r:GeographicStructure/Geography AND r:GeographyName contains r:TopLevelReference/LevelName content AND r:GeographyCode equals ISOCODE (may be found in DDI 2.1 nation @abbr		Must be associated with with an object in GeographicLocation. Assumption this is TopLevelReference. Create the following content: s:StudyUnit/ConceptualComponent/GeographicStructureScheme/GeographicStructure/Geography/Level/Name, content "Nation"
308	2.2.3.7.1.1.1 gringLat	PCDATA	r:Point/XCoordinate	r:XCoordinate	restricted xs:decimal minInclusive="-90" maxInclusive="90"	For each point enter gringLat and gringLon pair
309	2.2.3.7.1.1.1.1 gringLon	PCDATA	r:Point/YCoordinate	r:YCoordinate	restricted xs:decimal minInclusive="-180" maxInclusive="180"	
310	2.2.3.8 analysisUnit	PCDATA	s:StudyUnit/AnalysisUnit	r:AnalysisUnit	r:CodeValueType	Assuming this is a value in a r:CodeValueType no DDI 2.1 documentation. If used compare with PCDATA content or content of txt to determine which should be used.
311	unit	attribute				

XML Schema Outline 2 Version 2.1	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
312 2.2.3.8.1	txt	s:StudyUnit/r:AnalysisUnit	r:AnalysisUnit	r:CodeValueType	This is an optional entry format for the content of anyUnit. See comment notes above.
313	level	NA			
314	sdatsrefs	NA			
283 2.2.3.8.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
285	vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
318 2.2.3.9	universe*	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringType	After creating c:Universe create a reference to this element at s:StudyUnit/r:UniverseReference (type r:Reference). Content will help determine c:Universe/c:SubUniverse nesting patterns. Content of sumDscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DDI 2.1 universe element
319	level	NA			
320	clusion	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/@isInclusive	c:Universe/@isInclusive	xs:boolean	Content requires translation: I = "true" E="false"
321 2.2.3.9.1	txt*	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringType	This is an optional entry format for the content of universe. See comment notes above.
322	level	NA			
323	sdatsrefs	NA			
283 2.2.3.9.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
285	vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
327 2.2.3.10	dataKind*	s:StudyUnit/s:KindOfData	s:KindOfData	extended r:CodeValueType	
328 2.2.3.10.1	txt	s:StudyUnit/s:KindOfData	s:KindOfData	extended r:CodeValueType	This is an optional entry format for the content of dataKind
329	level	NA			
330	sdatsrefs	NA			
283 2.2.3.10.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
285	vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
334 2.2.4	notes*	s:StudyUnit/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content.
335	type				
336	subject				
337	level				
338	resp				
339	sdatsrefs				
340 2.3	method	NA			
341 2.3.1	dataColl	WRAP			
342 2.3.1.1	timeMeth*	s:StudyUnit/d:DataCollection/d:Methodology/d:TimeMethod	d:TimeMethod	r:IdentifiedStructuredStringType	Provided for use with a controlled vocabulary that was never created. If content provided there is the option to create a second TimeMethod entry.
343	method	NA			
344 2.3.1.1.1	txt	s:StudyUnit/d:DataCollection/d:Methodology/d:TimeMethod	d:TimeMethod	r:IdentifiedStructuredStringType	This is an optional entry format for the content of TimeMethod
345	level	NA			
346	sdatsrefs	NA			
283 2.3.1.1.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
285	vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
350 2.3.1.2	dataCollector*	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:OrganizationName	a:OrganizationName	r:InternationalStringType	Include reference to this Organization in s:StudyUnit/d:DataCollection/d:CollectionEvent/d:DataCollectorOrganizationReference [See special instructions for Organization/Individual entry creation.]
351	abbr	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:Nickname	a:Nickname	r:InternationalStringType	
352	affiliation	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:Relation/a:OrganizationReference OR a:IndividualReference	a:OrganizationReference OR a:IndividualReference	r:ReferenceType	Note that an entry needs to be made for the affiliated Organization or Individual and /a:Relation/r:Description should contain "Data Collector"
353 2.3.1.3	frequenc*	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:DataCollectionFrequency/r:HistoricalDate	r:HistoricalDate	xs:string	
354	freq	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:DataCollectionFrequency/a:IntendedFrequency	a:IntendedFrequency	r:CodeValueType	
355 2.3.1.4	sampProc*	s:StudyUnit/d:DataCollection/d:Methodology/d:SamplingProcedure	d:SamplingProcedure	r:IdentifiedStructuredStringType	
356 2.3.1.4.1	txt	s:StudyUnit/d:DataCollection/d:Methodology/d:SamplingProcedure	d:SamplingProcedure	r:IdentifiedStructuredStringType	This is an optional entry format for the content of SamplingProcedure
357	level	NA			
358	sdatsrefs	NA			
283 2.3.1.4.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
284	vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
285	vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	

XML Schema Outline	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version2.1					
362	2.3.1.5	deviat*	PCDATA	s:StudyUnit/d:DataCollection/d:Methodology/d:DeviationFromSampleDesign	d:DeviationFromSampleDesign	r:IdentifiedStructuredStringType
363	2.3.1.6	collMode*	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:ModeOfCollection	d:ModeOfCollection	r:IdentifiedStructuredStringType
364	2.3.1.6.1	bt	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:ModeOfCollection	d:ModeOfCollection	r:IdentifiedStructuredStringType
365		level	attribute	NA		
366		sdatsrefs	attribute	NA		
367	2.3.1.6.2	concept	PCDATA	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType
368		vocab	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Title	r:Title	r:InternationalStringType
369		vocabURI	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:URI	r:URI	xs:anyURI
370	2.3.1.7	resInstru*	PCDATA	s:StudyUnit/d:DataCollection/d:Instrument/d:Type	d:Type	r:CodeValueType
371		type	attribute	NA		
372	2.3.1.7.1	bt	PCDATA	s:StudyUnit/d:DataCollection/d:Instrument/d:Type	d:Type	r:CodeValueType
373		level	attribute	NA		
374		sdatsrefs	attribute	NA		
283	2.3.1.7.2	concept	PCDATA	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType
284		vocab	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Title	r:Title	r:InternationalStringType
285		vocabURI	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:URI	r:URI	xs:anyURI
376	2.3.1.8	sources?	WRAP	NA		
379	2.3.1.8.1	dataSrc*	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:DataSource/d:SourceDescription	d:SourceDescription	r:StructuredStringType
380	2.3.1.8.2	srcOrig*	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:DataSource/d:Origin/r:Citation	r:Citation	Complex element
381	2.3.1.8.3	srcChar*	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:DataSource/d:Characteristic	d:Characteristic	r:StructuredStringType
382	2.3.1.8.4	srcDocu*	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:DataSource/d:Characteristic	d:Characteristic	r:StructuredStringType
383	2.3.1.8.5	sources*	PCDATA	NA		
384	2.3.1.9	collSitu*	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d:CollectionSituation	d:CollectionSituation	r:IdentifiedStructuredStringType
385	2.3.1.10	actMin*	PCDATA	s:StudyUnit/d:DataCollection/d:CollectionEvent/d>ActionToMinimizeLosses	d>ActionToMinimizeLosses	r:IdentifiedStructuredStringType
386	2.3.1.11	ConOps*	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:ControlOperation/r:Description	r:Description	r:StructuredStringType
387		agency	attribute	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:OrganizationName	a:OrganizationName	r:InternationalStringType
388	2.3.1.12	weight*	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:Weighting	d:Weighting	r:IdentifiedStructuredStringType
389	2.3.1.13	cleanOps*	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:CleaningOperation/r:Description	r:Description	r:StructuredStringType
390		agency	attribute	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:OrganizationName	a:OrganizationName	r:InternationalStringType
391	2.3.2	notes*	PCDATA	d:DataCollection/r:Note	r:Note	Complex element
392		type	attribute	NA		
393		subject	attribute	NA		
394		level	attribute	NA		
395		resp	attribute	NA		
396		sdatsrefs	attribute	NA		
397	2.3.3	anyInfo?	WRAP	NA		
398	2.3.3.1	respRate*	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:DataAppraisalInformation/d:ResponseRate	d:ResponseRate	xs:string
399	2.3.3.2	EstSmpErr*	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:DataAppraisalInformation/d:SamplingError	d:SamplingError	r:StructuredStringType
400	2.3.3.3	dataAppr*	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:DataAppraisalInformation/d:OtherAppraisalProcess	d:OtherAppraisalProcess	r:StructuredStringType
401	2.3.4	stdyClas?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:StudyClass/a:ClassDescription	a:ClassDescription	r:InternationalStringType
402		type	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:StudyClass/a:ClassType	a:ClassType	r:CodeValueType
403	2.4	dataAcce*	WRAP	NA		
404	2.4.1	setAvail*	WRAP	NA		
405		media	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Media	a:Media	r:InternationalStringType
406		callno	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:CallNumber	a:CallNumber	xs:string
407		label	attribute	NA		
408		type	attribute	NA		
409	2.4.1.1	accePlac*	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:LocationInArchive	a:LocationInArchive	r:InternationalStringType
410		URI	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:URI	a:URI	xs:anyURI
411	2.4.1.2	origArch?	PCDATA	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:OrganizationName	a:OrganizationName	r:InternationalStringType
412	2.4.1.3	avlStatus*	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:Restrictions	a:Restrictions	r:StructuredStringType
413	2.4.1.4	collSize?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:ItemQuantity	a:ItemQuantity	xs:string
414	2.4.1.5	complete?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Collection/a:CollectionCompleteness	a:CollectionCompleteness	r:StructuredStringType

XML Schema Outline	XML Schema Version 2.1	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments	
415	2.4.1.6	fileOnly?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Data/a:DataFileQuantity	a:DataFileQuantity	xs:integer	
416	2.4.1.7	notes*	PCDATA	a:Archive/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content.
417		type	attribute				
418		subject	attribute				
419		level	attribute				
420		resp	attribute				
421		sdatrefs	attribute				
422	2.4.2	useSmt*	WRAP	NA			
423	2.4.2.1	confDec?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:Statement	a:Statement	r:InternationalStringType	
424		required	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:Required	a:Required	Boolean	Translate yes="true" no="false"
425		formNo	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:FormNumber	a:FormNumber	xs:string	
426		URI	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:URI	a:URI	xs:anyURI	
427	2.4.2.2	specPerm?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:Statement	a:Statement	r:InternationalStringType	
428		required	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:Required	a:Required	Boolean	Translate yes="true" no="false"
429		formNo	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:FormNumber	a:FormNumber	xs:string	
430		URI	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessPermission/a:URI	a:URI	xs:anyURI	
431	2.4.2.3	restrcn?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:Restrictions	a:Restrictions	r:StructuredStringType	
432	2.4.2.4	contact*	PCDATA	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:Individual/a:Name	a:Name	Complex element	Nest in parent archive organization. Parse contents to Name (implicit if nested else use s:Individual/a:Relation/a:OrganizationReference (r:ReferenceType))
433		affiliation	attribute	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:Individual/a:URI	a:URI	xs:anyURI	
434		URI	attribute	s:StudyUnit/a:Archive/a:OrganizationScheme/a:Organization/a:Individual/a:Email	a:Email	r:EmailType	This extends InternetEmailType (restricted xs:string) with attribute EmailTypeCodeType (default: Internet)
435		email	attribute	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:CitationRequirement	a:CitationRequirement	r:StructuredStringType	
436	2.4.2.5	citReq?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:DepositRequirement	a:DepositRequirement	r:StructuredStringType	
437	2.4.2.6	deposReq?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessConditions	a:AccessConditions	r:StructuredStringType	
438	2.4.2.7	conditions?	PCDATA	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:Disclaimer	a:Disclaimer	r:StructuredStringType	
439	2.4.2.8	disclaimer?	PCDATA	a:Archive/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content.
440	2.4.3	notes*	PCDATA				
441		type	attribute				
442		subject	attribute				
443		level	attribute				
444		resp	attribute				
445		sdatrefs	attribute				
446	2.5	othrStdyMat*	WRAP	s:StudyUnit	r:OtherMaterial	Complex element	All other study material goes into OtherMaterial at a level appropriate to the content. Only a basic bibliographic citation and identifiers are allowed (as this is material external to the DDI). Use general instructions for OtherMaterial content.
447	2.5.1	relMat*	PCDATA				
448		catno	attribute				
449		label	attribute				
450		media	attribute				
451		type	attribute				
452	2.5.1.1	citation	WRAP				
453		MARCURI	attribute				
454	2.5.1.1.1	titlSmt*	PCDATA				
455	2.5.1.1.1.1	titl	PCDATA				
456	2.5.1.1.1.2	subTitl*	PCDATA				
457	2.5.1.1.1.3	altTitl*	PCDATA				
458	2.5.1.1.1.4	partTitl*	PCDATA				
459	2.5.1.1.1.5	IDNo*	PCDATA				
460		agency	attribute				
461		level	attribute				
462	2.5.1.1.2	rssSmt?*	PCDATA				
463	2.5.1.1.2.1	AuthEnty*	PCDATA				
464		affiliation	attribute				
465	2.5.1.1.2.2	othrSt*	PCDATA				
466		type	attribute				
467		role	attribute				
468		affiliation	attribute				
469	2.5.1.1.3	prodSmt?*	PCDATA				
470	2.5.1.1.3.1	producer*	PCDATA				
471		abbr	attribute				
472		affiliation	attribute				
473		role	attribute				
474	2.5.1.1.3.2	copyright?	PCDATA				
475	2.5.1.1.3.3	prodDate*	PCDATA				
476		date	attribute				
477	2.5.1.1.3.4	prodPlac*	PCDATA				
478	2.5.1.1.3.5	software*	PCDATA				
479		date	attribute				
480		version	attribute				
481	2.5.1.1.3.6	fundAg*	PCDATA				
482		abbr	attribute				
483		role	attribute				
484	2.5.1.1.3.7	grantNo*	PCDATA				
485		agency	attribute				
486		role	attribute				
487	2.5.1.1.4	distSmt?*	PCDATA				
488	2.5.1.1.4.1	distrib*	PCDATA				
489		abbr	attribute				
490		affiliation	attribute				
491		URI	attribute				
492	2.5.1.1.4.2	contact*	PCDATA				

XML Schema Outline	XML Schema	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version2.1					
493	2.5.1.1.4.3	affiliation				
494		URI				
495		email				
496	2.5.1.1.4.3	depositor		PCDATA		
497		abbr		attribute		
498		affiliation		attribute		
499	2.5.1.1.4.4	depDate		PCDATA		
500		date		attribute		
501	2.5.1.1.4.5	disDate?		PCDATA		
502		date		attribute		
503	2.5.1.1.5	serStm?		PCDATA		
504		URI		attribute		
505	2.5.1.1.5.1	serName		PCDATA		
506		abbr		attribute		
507	2.5.1.1.5.2	serInfo		PCDATA		
508	2.5.1.1.6	verStm?		PCDATA		
509	2.5.1.1.6.1	version?		PCDATA		
510		date		attribute		
511		type		attribute		
512	2.5.1.1.6.2	verResp?		PCDATA		
513		affiliation		attribute		
514	2.5.1.1.6.3	notes	*r>Note	r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
515		type		attribute		
516		subject		attribute		
517		level		attribute		
518		resp		attribute		
519		sdattrefs		attribute		
520	2.5.1.1.7	bbiClt?	NA	PCDATA		
521		format		attribute		
522	2.5.1.1.8	holdings	NA	PCDATA		
523		location		attribute		
524		calisno		attribute		
525		URI		attribute		
526		media		attribute		
527	2.5.1.1.9	notes	*r>Note	r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
528		type		attribute		
529		subject		attribute		
530		level		attribute		
531		resp		attribute		
532		sdattrefs		attribute		
533	2.5.2	relStud?	s:StudyUnit	r:OtherMaterial	Complex element	Use general instructions for OtherMaterial content.
534	2.5.2.1	citation		PCDATA		
535		MARCURI		attribute		
536	2.5.2.1.1	titlStm?		PCDATA		
537	2.5.2.1.1.1	titl		PCDATA		
538	2.5.2.1.1.2	subTitl?		PCDATA		
539	2.5.2.1.1.3	altTitl?		PCDATA		
540	2.5.2.1.1.4	partItl?		PCDATA		
541	2.5.2.1.1.5	lDNO?		PCDATA		
542		agency		attribute		
543		level		attribute		
544	2.5.2.1.2	repStm?		PCDATA		
545	2.5.2.1.2.1	AuthEntry		PCDATA		
546		affiliation		attribute		
547	2.5.2.1.2.2	othId?		PCDATA		
548		type		attribute		
549		role		attribute		
550		affiliation		attribute		
551	2.5.2.1.3	prodStm?		PCDATA		
552	2.5.2.1.3.1	producer		PCDATA		
553		abbr		attribute		
554		affiliation		attribute		
555		role		attribute		
556	2.5.2.1.3.2	copyright?		PCDATA		
557	2.5.2.1.3.3	prodDate?		PCDATA		
558		date		attribute		
559	2.5.2.1.3.4	prodPlac?		PCDATA		
560	2.5.2.1.3.5	software		PCDATA		
561		date		attribute		
562		version		attribute		
563	2.5.2.1.3.6	fundAg?		PCDATA		
564		abbr		attribute		
565		role		attribute		
566	2.5.2.1.3.7	grantNo?		PCDATA		
567		agency		attribute		
568		role		attribute		
569	2.5.2.1.4	distStm?		PCDATA		
570	2.5.2.1.4.1	distribr?		PCDATA		
571		abbr		attribute		
572		affiliation		attribute		
573		URI		attribute		
574	2.5.2.1.4.2	contact?		PCDATA		
575		affiliation		attribute		
576		URI		attribute		
577		email		attribute		
578	2.5.2.1.4.3	depositor		PCDATA		
579		abbr		attribute		
580		affiliation		attribute		
581	2.5.2.1.4.4	depDate?		PCDATA		
582		date		attribute		
583	2.5.2.1.4.5	distDate?		PCDATA		
584		date		attribute		
585	2.5.2.1.5	serStm?		PCDATA		
586		URI		attribute		
587	2.5.2.1.5.1	serName		PCDATA		
588		abbr		attribute		
589	2.5.2.1.5.2	serInfo		PCDATA		
590	2.5.2.1.6	verStm?		PCDATA		

XML Schema XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element/@attribute)	Element/attribute	Element/attribute type	Comments
2 Version2.1					
591 2.5.2.1.6.1	version?				
592	date				
593	type				
594 2.5.2.1.6.2	verResp?				
595	affiliation				
596 2.5.2.1.6.3	notes*	PCDATA	/r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
597	type	attribute			
598	subject	attribute			
599	level	attribute			
600	resp	attribute			
601	sdatrefs	attribute			
602 2.5.2.1.7	bibCIT?	PCDATA			
603	format	attribute			
604 2.5.2.1.8	holdings*	PCDATA			
605	location	attribute			
606	callno	attribute			
607	URI	attribute			
608	media	attribute			
609 2.5.2.1.9	notes*	PCDATA	/r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
610	type	attribute			
611	subject	attribute			
612	level	attribute			
613	resp	attribute			
614	sdatrefs	attribute			
615 2.5.3	relPubl?	PCDATA	s:StudyUnit	Complex element	Use general instructions for OtherMaterial content.
616 2.5.3.1	citation	PCDATA			
617	MARCUURI	attribute			
618 2.5.3.1.1	titStmt	PCDATA			
619 2.5.3.1.1.1	tit	PCDATA			
620 2.5.3.1.1.2	subTit	PCDATA			
621 2.5.3.1.1.3	altTit	PCDATA			
622 2.5.3.1.1.4	partTit	PCDATA			
623 2.5.3.1.1.5	IDNg*	PCDATA			
624	agency	attribute			
625	level	attribute			
626 2.5.3.1.2	rspStmt?	PCDATA			
627 2.5.3.1.2.1	AuthEntry*	PCDATA			
628	affiliation	attribute			
629 2.5.3.1.2.2	othr*	PCDATA			
630	type	attribute			
631	role	attribute			
632	affiliation	attribute			
633 2.5.3.1.3	prodStmt?	PCDATA			
634 2.5.3.1.3.1	producer*	PCDATA			
635	abbr	attribute			
636	affiliation	attribute			
637	role	attribute			
638 2.5.3.1.3.2	copyright?	PCDATA			
639 2.5.3.1.3.3	prodDate*	PCDATA			
640	date	attribute			
641 2.5.3.1.3.4	prodPlac*	PCDATA			
642 2.5.3.1.3.5	software*	PCDATA			
643	date	attribute			
644	version	attribute			
645 2.5.3.1.3.6	fundAcq*	PCDATA			
646	abbr	attribute			
647	role	attribute			
648 2.5.3.1.3.7	grantNo*	PCDATA			
649	agency	attribute			
650	role	attribute			
651 2.5.3.1.4	distStmt?	PCDATA			
652 2.5.3.1.4.1	distrib*	PCDATA			
653	abbr	attribute			
654	affiliation	attribute			
655	URI	attribute			
656 2.5.3.1.4.2	contact*	PCDATA			
657	affiliation	attribute			
658	URI	attribute			
659	email	attribute			
660 2.5.3.1.4.3	deposit*	PCDATA			
661	abbr	attribute			
662	affiliation	attribute			
663 2.5.3.1.4.4	depDate*	PCDATA			
664	date	attribute			
665 2.5.3.1.4.5	disDate?	PCDATA			
666	date	attribute			
667 2.5.3.1.5	serStmt?	PCDATA			
668	URI	attribute			
669 2.5.3.1.5.1	serName*	PCDATA			
670	abbr	attribute			
671 2.5.3.1.5.2	serNo*	PCDATA			
672 2.5.3.1.6	verStmt*	PCDATA			
673 2.5.3.1.6.1	version?	PCDATA			
674	date	attribute			
675	type	attribute			
676 2.5.3.1.6.2	verResp?	PCDATA			
677	affiliation	attribute			
678 2.5.3.1.6.3	notes*	PCDATA	/r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
679	type	attribute			
680	subject	attribute			
681	level	attribute			
682	resp	attribute			
683	sdatrefs	attribute			
684 2.5.3.1.7	bibCIT?	PCDATA			
685	format	attribute			
686 2.5.3.1.8	holdings*	PCDATA			
687	location	attribute			

XML Schema XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
688	calino				
689	URI				
690	media				
691	2.5.3.1.9 notes*	PCDATA	/r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
692	type	attribute			
693	subject	attribute			
694	level	attribute			
695	resp	attribute			
696	sdatrefs	attribute			
697	2.5.4.1.2 ohRefs*	PCDATA	s:StudyUnit	Complex element	Use general instructions for OtherMaterial content.
698	2.5.4.1.1 citation	PCDATA			
699	MARCURI	attribute			
700	2.5.4.1.1.1 bibStmt	PCDATA			
701	2.5.4.1.1.1.1 titl	PCDATA			
702	2.5.4.1.1.2 subTitl*	PCDATA			
703	2.5.4.1.1.3 altTitl*	PCDATA			
704	2.5.4.1.1.4 parTitl*	PCDATA			
705	2.5.4.1.1.5 DNG*	PCDATA			
706	2.5.4.1.1.5.1 auth*	attribute			
707	level	attribute			
708	2.5.4.1.2 rspStmt?	PCDATA			
709	2.5.4.1.2.1 AuthEntry*	PCDATA			
710	affiliation	attribute			
711	2.5.4.1.2.2 cthld*	PCDATA			
712	type	attribute			
713	role	attribute			
714	affiliation	attribute			
715	2.5.4.1.3 prodStmt?	PCDATA			
716	2.5.4.1.3.1 producer*	PCDATA			
717	abbr	attribute			
718	affiliation	attribute			
719	role	attribute			
720	2.5.4.1.3.2 copyright?	PCDATA			
721	2.5.4.1.3.3 prodDate*	PCDATA			
722	date	attribute			
723	2.5.4.1.3.4 prodPlace*	PCDATA			
724	2.5.4.1.3.5 software*	PCDATA			
725	date	attribute			
726	version	attribute			
727	2.5.4.1.3.6 fundAg*	PCDATA			
728	abbr	attribute			
729	role	attribute			
730	2.5.4.1.3.7 grantNo*	PCDATA			
731	agency	attribute			
732	role	attribute			
733	2.5.4.1.4 distStmt?	PCDATA			
734	2.5.4.1.4.1 distribr*	PCDATA			
735	abbr	attribute			
736	affiliation	attribute			
737	URI	attribute			
738	2.5.4.1.4.2 contact*	PCDATA			
739	affiliation	attribute			
740	URI	attribute			
741	email	attribute			
742	2.5.4.1.4.3 deposite*	PCDATA			
743	abbr	attribute			
744	affiliation	attribute			
745	2.5.4.1.4.4 depDate*	PCDATA			
746	date	attribute			
747	2.5.4.1.4.5 distDate?	PCDATA			
748	date	attribute			
749	2.5.4.1.5 serStmt?	PCDATA			
750	URI	attribute			
751	2.5.4.1.5.1 serName*	PCDATA			
752	abbr	attribute			
753	2.5.4.1.5.2 serInfo*	PCDATA			
754	2.5.4.1.6 verStmt*	PCDATA			
755	2.5.4.1.6.1 version?	PCDATA			
756	date	attribute			
757	type	attribute			
758	2.5.4.1.6.2 verResp?	PCDATA			
759	affiliation	attribute			
760	2.5.4.1.6.3 notes*	PCDATA	/r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
761	type	attribute			
762	subject	attribute			
763	level	attribute			
764	resp	attribute			
765	sdatrefs	attribute			
766	2.5.4.1.7 bibClt?	PCDATA			
767	format	attribute			
768	2.5.4.1.8 findings*	PCDATA			
769	location	attribute			
770	calino	attribute			
771	URI	attribute			
772	media	attribute			
773	2.5.4.1.9 notes*	PCDATA	/r>Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
774	type	attribute			
775	subject	attribute			
776	level	attribute			
777	resp	attribute			
778	sdatrefs	attribute			
779	2.6 notes*	PCDATA	s:StudyUnit/r>Note	Complex element	See Common Items for detailed instructions for translation of notes content.
780	type	attribute			
781	subject	attribute			
782	level	attribute			
783	resp	attribute			

XML Schema Outline	XML Schema	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version2.1					
784	sdatsrefs	attribute	NA			
785	fileDescr	WRAP	NA			
786	URI	attribute	s:StudyUnit/pi:PhysicalInstance/pi:DataFileIdentification/pi:URI	uri:URI	xs:anyURI	
787	sdatsrefs	attribute	NA			
788	methtrefs	attribute	NA			
789	pubrefs	attribute	NA			
790	access	attribute	NA			Use to verify that the referenced Access information is associated with this item either directly or through a parent item
791	fileURL	WRAP	NA			
792	fileName?	PCDATA	s:StudyUnit/pi:PhysicalInstance/c:Title	r:Title	r:InternationalStringType	
793	fileCont?	PCDATA	s:StudyUnit/pi:PhysicalInstance/c:Note/r:Content	r:Content	r:StructuredStringType	NOTE: Add ../r:Note@type with content "Other" and @otherValue="fileCont" Add ../r:Note/r:Relationship/r:RelatedToReference (r:ReferenceType) pointing to pi:PhysicalInstance. This may also be parsed into the appropriate sections of ../pi:PhysicalInstance/c:Coverage if it restricts the overall coverage of study in Topic, Temporal, or Spatial considerations. If it replicates study coverage this is not necessary.
794	fileStrc?	WRAP	NA			
795	type	attribute	s:StudyUnit/p:PhysicalDataProduct/p:PhysicalStructureScheme/b:PhysicalStructure/b:Format	b:Format	xs:string	contains (rectangular/hierarchical/relational/nested) default rectangular (This assumes that the different records in this file represent different logical records rather than the segments of a long logical record (common for files in 80 column card format where a single case was spread out over multiple records). IF THE RECORDS HERE REPRESENT SEGMENTS OF A LARGER LOGICAL RECORD SEE SPECIAL INSTRUCTIONS ON SECTION 3.1.3.1
796	recGrp	WRAP	NA			
797	recGrp	attribute	s:StudyUnit/LogicalProduct/r:DataRelationship/r:RecordRelationship/r:RecordReferenceTarget	r:RecordReferenceTarget	r:ReferenceType	This may indicate physical segments.
798	recType	attribute	s:StudyUnit/LogicalProduct/r:DataRelationship/r:LogicalRecord/r:Description	r:Description	r:StructuredStringType	
799	keyVar	attribute	s:StudyUnit/LogicalProduct/r:DataRelationship/r:RecordRelationship/r:RecordReferenceTarget	r:RecordReferenceTarget	r:ReferenceType	This may indicate physical segments.
800	rtypeLoc	attribute	NA			Not relevant because of multiple possible storage types. This information is obtained from the PhysicalLocation of the individual storage structures.
801	rtypeWidth	attribute	NA			Not relevant because of multiple possible storage types. This information is obtained from the PhysicalLocation of the individual storage structures.
802	rtypeVtype	attribute	NA			This information should be contained in the Variable Representation r:RecommendedDataType. Information from rtypevtype can supplement if missing from DDI 2.1 variable description.
803	recIDVar	attribute	s:StudyUnit/LogicalProduct/r:DataRelationship/r:LogicalRecord/r:VariableValueReference/r:Value	r:Value	xs:string	Set @type to "Equal"
804	labi?	PCDATA	s:StudyUnit/LogicalProduct/r:DataRelationship/r:LogicalRecord/r:Description	r:Description	r:StructuredStringType	
805	level	attribute	NA			
806	vendor	attribute	NA			
807	country	attribute	NA			
808	sdatsrefs	attribute	NA			
809	recDimmsn?	WRAP	NA			
810	level	attribute	NA			
811	varQty?	PCDATA	s:StudyUnit/LogicalProduct/r:DataRelationship/r:LogicalRecord@VariableQuantity	r:LogicalRecord@VariableQuantity	xs:integer	
812	caseQty?	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure@CaseQuantity	r:CaseQuantity	xs:integer	
813	logRecl?	PCDATA	NA			Not a meaningful number in most storage formats. May be used to validate EndPosition of last DataItem in a fixed format file RecordLayout. See Common Items for detailed instructions for translation of notes content. * p:PhysicalDataProduct OR l:LogicalProduct OR n:CubeLogicalProduct depending on the content of the note.
814	notes	PCDATA	r:Note	r:Note	Complex element	
815	subject	attribute				
817	level	attribute				
818	resp	attribute				
819	sdatsrefs	attribute				
820	dimensns?	WRAP	NA			
821	caseQty	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure@CaseQuantity	r:CaseQuantity	xs:integer	
822	varQty	PCDATA	s:StudyUnit/LogicalProduct/r:DataRelationship/r:LogicalRecord@VariableQuantity	r:LogicalRecord@VariableQuantity	xs:integer	Meaningful if there is a single record type and this information was not provided under 3.1.3.1.2.1
823	logRecl	PCDATA	NA			Not a meaningful number in most storage formats
824	recPCas?	PCDATA	s:StudyUnit/p:PhysicalDataProduct/p:PhysicalStructureScheme/p:PhysicalStructure/p:GrossRecordStructure@NumberPhysicalSegments	b:GrossRecordStructure@NumberPhysicalSegments	xs:integer	
825	recNumTot?	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure@OverallRecordCount	r:OverallRecordCount	xs:integer	
826	fileType?	PCDATA	s:StudyUnit/PhysicalDataProduct	r:PhysicalStructure	Format	
827	charset	attribute	s:StudyUnit/PhysicalDataProduct	r:RecordLayout	CharacterSet	
828	format?	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure			Use to determine RecordLayout to use
829	filePlac?	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure	r:PlaceOfProduction	xs:string	
830	dataCheck?	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure	r:ProcessingCheck	r:StructuredStringType	
831	ProcStat?	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure	r:ProcessingStatus	xs:string	
832	dataMsg?	PCDATA	s:StudyUnit/PhysicalDataProduct	r:PhysicalStructure	DefaultMissingData	
833	software	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure	r:Name	r:InternationalStringType	
834	date	attribute	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure	r:Date	r:DateType	May be r:Simple, r:StartDate, r:EndDate, or r:HistoricalDate depending on structure
835	version	attribute	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure	r:Version	xs:string	
836	verStmt?	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:GrossFileStructure	r:Description	r:StructuredStringType	
837	version?	PCDATA	s:StudyUnit/pi:PhysicalInstance@version	r:PhysicalInstance@version	restricted xs:string ((0-9)+)	
838	date	attribute	s:StudyUnit/pi:PhysicalInstance@versionDate	r:PhysicalInstance@versionDate	r:BaseDateType	
839	type	attribute	s:StudyUnit/pi:PhysicalInstance/r:VersionRationale	r:VersionRationale	r:InternationalStringType	
840	verResp?	PCDATA	s:StudyUnit/pi:PhysicalInstance/r:VersionResponsibility	r:VersionResponsibility	xs:string	If it is the maintenance agency place in attribute agency. Otherwise put in VersionResponsibility

XML Schema Outline	XML Schema	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version2.1					
841	affiliation	attribute	s:StudyUnit/p:PhysicalInstance/r:VersionResponsibility	r:VersionResponsibility	xs:string	Append to content of verResp See Common Items for detailed instructions for translation of notes content.
842	3.1.12.3 notes*	PCDATA	p:PhysicalInstance/r:Note	r:Note	Complex element	
843	type	attribute				
844	subject	attribute				
845	level	attribute				
846	resp	attribute				
847	sdatrefs	attribute				
848	3.2 locMap?	WRAP	NA			All RecordLayout information assumes normal NCube layout for dataItems in LocMap. If varRef has content then dataItem and all physLoc contents will map to the default RecordLayout for fixed and delimited formats found in PhysicalDataProduct Preliminary step is to sort all dataItems into their parent Record references (physLoc@recRef) and NCubes for translation to DDI 3.0
849	3.2.1 dataItem*	WRAP	NA			
850	varRef	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/p:RecordLayout/d:DataItem/d:VariableReference	d:VariableReference	r:ReferenceType	
851	nCubeRef	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m:NCubeInstance/m1:NCubeReference	m1:NCubeReference	r:ReferenceType	In addition provide /m1:PhysicalStructureReference (r:ReferenceType), m1:ArrayBase (xs:integer)
852	3.2.1.1 nCubeCoord*	EMPTY				
853	coordNo	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m:NCubeInstance/m1:DataItem/m1:Dimension@rank	m1:Dimension@rank	xs:integer	
854	coordVal	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m:NCubeInstance/m1:DataItem/m1:Dimension@value	m1:Dimension@value	xs:string	
855	coordValRef	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m:NCubeInstance/m1:DataItem/m1:Dimension/m1:VariableReference	m1:VariableReference	r:ReferenceType	
856	3.2.1.2 physLoc*	EMPTY	NA			Need to add a /m1:DataItem/m1:Measure/m1:MeasureReference (r:ReferenceType) to the Measure used by the NCube (which may have multiple measures)
857	type	attribute	NA			This attribute is undocumented in terms of its use.
858	recRef	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m:NCubeInstance/m1:PhysicalStructureReference/p:PhysicalRecordSegmentUsed	p:PhysicalRecordSegmentUsed	xs:NCName	
859	startPos	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m1:NCubeInstance/m1:DataItem/m1:Measure/p:PhysicalLocation/p:StartPosition OR p:ArrayPosition	p:StartPosition OR p:ArrayPosition	xs:integer	If fixed format file then p:StartPosition, if delimited file then p:ArrayPosition
860	width	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m1:NCubeInstance/m1:DataItem/m1:Measure/p:PhysicalLocation/p:Width	p:Width	xs:integer	
861	endPos	attribute	s:StudyUnit/p:PhysicalDataStructure/p:RecordLayout/Scheme/m1:RecordLayout/m1:NCubeInstance/m1:DataItem/m1:Measure/p:PhysicalLocation/p:EndPosition	p:EndPosition	xs:integer	
862	3.3 notes*	PCDATA	r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content. * p:PhysicalDataProduct OR pi:PhysicalInstance depending on the content of the note.
863	type	attribute				
864	subject	attribute				
865	level	attribute				
866	resp	attribute				
867	sdatrefs	attribute				
868	4.0 dataDesc*	WRAP	NA			Note that VariableSchemes can occur in both LogicalProduct and NCubeLogicalProduct. L:LogicalProduct was used here as this is the most common occurrence.
869	4.1 varGrp*	WRAP	NA			
870	type	attribute	s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/GroupType	r:GroupType	r:CodeValueType	
871	var	attribute	s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/VariableReference/r:ID	r:ID	xs:NCName	
872	varGrp	attribute	s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/VariableGroupReference/r:ID	r:ID	xs:NCName	
873	name	attribute	NA			
874	sdatrefs	attribute	NA			
875	methrefs	attribute	NA			
876	pubrefs	attribute	NA			
877	access	attribute	NA			
878	nCube	attribute	NA			This seems to be an error in the DDI 2.1 as variable groups should not contain nCubes. Evaluate intent if content exists.
879	4.1.1 labi*	PCDATA	s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/Label	r:Label	r:InternationalStringType	
880	level	attribute	NA			
881	vendor	attribute	NA			
882	country	attribute	s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/Label@locationVariant	r:Label@locationVariant	xs:string	
883	sdatrefs	attribute	NA			
884	4.1.2 txt*	PCDATA	s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/Label OR r:Definition	r:Label OR r:Definition	r:InternationalStringType OR r:StructuredStringType	Create second label OR definition if defn also has content. If the intent of the content is an extended label it should go to label, if it is a definition of the group then it should go to definition.
885	level	attribute	NA			
886	sdatrefs	attribute	NA			
887	4.1.3 concept	PCDATA	s:StudyUnit/ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing max:Length, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. After creating c:Universe create a reference to this element at s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/r:ConceptReference (type r:Reference) Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
888	vocab	attribute	s:StudyUnit/ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
889	vocabURI	attribute	s:StudyUnit/ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	

XML Schema Outline Version 2.1	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments	
890	4.1.4	defntrn?	PCDATA	s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/r:Definition	r:Definition	r:StructuredStringValue	
891	4.1.5	universe*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringValue	After creating c:Universe create a reference to this element at s:StudyUnit/LogicalProduct/VariableScheme/VariableGroup/r:UniverseReference (type r:Reference) Content will help determine c:Universe/c:SubUniverse nesting patterns. Content of sumDiscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DDI 2.1 universe element
892		level	attribute	NA			
893		clusion	attribute	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/@isInclusive	c:Universe/@isInclusive	xs:boolean	Content requires translation: I = "true" E="false" This is an optional entry format for the content of universe. See comment notes above.
894	4.1.5.1	txt*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringValue	Content will help determine c:Universe/c:SubUniverse nesting patterns. Content of sumDiscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DDI 2.1 universe element
895		level	attribute	NA			
896		sdatrefs	attribute	NA			
897	4.1.5.2	concept	PCDATA	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringValue OR r:StructuredStringValue	r:Label is an extended r:InternationalStringValue allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringValue. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
898		vocab	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringValue	
899		vocabURI	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
900	4.1.6	notes*	PCDATA	/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content. I:LogicalProduct for microdata files OR I:NCubeLogicalProduct for aggregate data files. Both are substitution groups for I:BaseLogicalProduct.
901		type	attribute				
902		subject	attribute				
903		level	attribute				
904		resp	attribute				
905		sdatrefs	attribute				
906	4.2	nCubeGrp*	WRAP	NA			
907		type	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/e/NCubeGroup/r:GroupType	r:GroupType	r:CodeValueType	
908		nCube	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/e/NCubeGroup/r:NCubeReference/r:ID	r:ID	xs:NCName	
909		nCubeGrp	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/e/NCubeGroup/NCubeGroupReference/r:ID	r:ID	xs:NCName	
910		name	attribute	NA			
911		sdatrefs	attribute	NA			
912		methrefs	attribute	NA			
913		pubrefs	attribute	NA			
914		access	attribute	NA			
915	4.2.1	label*	PCDATA	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/e/NCubeGroup/r:Label	r:Label	r:InternationalStringValue	
916		level	attribute	NA			
917		vendor	attribute	NA			
918		country	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/e/NCubeGroup/r:Label@locationVariant	r:Label@locationVariant	xs:string	
919		sdatrefs	attribute	NA			
920	4.2.2	txt*	PCDATA	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/e/NCubeGroup/r:Label OR r:Definition	r:Label OR r:Definition	r:InternationalStringValue OR r:StructuredStringValue	Create second label OR definition if defntrn also has content. If this intent of the content is an extended label it should go to label, if it is a definition of the group then it should go to definition.
921		level	attribute	NA			
922		sdatrefs	attribute	NA			
923	4.2.3	concept	PCDATA	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringValue OR r:StructuredStringValue	r:Label is an extended r:InternationalStringValue allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringValue. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
924		vocab	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringValue	
925		vocabURI	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
926	4.2.4	defntrn?	PCDATA	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/e/NCubeGroup/r:Definition	r:Definition	r:StructuredStringValue	
927	4.2.5	universe*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringValue	After creating c:Universe create a reference to this element at s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCubeGroup/r:UniverseReference (type r:Reference) Content will help determine c:Universe/c:SubUniverse nesting patterns. Content of sumDiscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DDI 2.1 universe element
928		level	attribute	NA			
929		clusion	attribute	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/@isInclusive	c:Universe/@isInclusive	xs:boolean	Content requires translation: I = "true" E="false" This is an optional entry format for the content of universe. See comment notes above.
930	4.2.5.1	txt*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringValue	Content will help determine c:Universe/c:SubUniverse nesting patterns. Content of sumDiscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DDI 2.1 universe element
931		level	attribute	NA			
932		sdatrefs	attribute	NA			
933	4.2.5.2	concept	PCDATA	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringValue OR r:StructuredStringValue	r:Label is an extended r:InternationalStringValue allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringValue. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
934		vocab	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringValue	
935		vocabURI	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
936	4.2.6	notes*	PCDATA	I:NCubeLogicalProduct/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content. I:NCubeLogicalProduct is a substitution group for I:BaseLogicalProduct.
937		type	attribute				
938		subject	attribute				
939		level	attribute				
940		resp	attribute				

XML Schema Outline	XML Schema	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version2.1					
990		sdattref	NA			
991	4.3.7.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
992		vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
993		vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
994	4.3.8	qstn	PCDATA			
995		qstn	s:StudyUnit/LogicalProduct/VariableScheme/Variable/QuestionReference	!QuestionReference	r:ReferenceType	If PCDATA this will require parsing to the correct location. Refers to a question listed within another variable but resulting in more than one variable.
996		var	NA			Refers to other variables containing the question when multiple variables are created. Useful in linking to correct question previously captured.
997		seqNo	NA			[use for determining ControlConstruct Sequence order]
998		sdattref	NA			Capture information for dc:ControlConstruct > dc:Sequence
999	4.3.8.1	preQTxt	s:StudyUnit/d:DataCollection/d:ControlConstructScheme/d:StatementItem/d:DisplayText/d:LiteralText/d:Text	d:Text	xs:string	Content will generally go into subelement d:LiteralText. Use sequence number with .1 extension to retain sequence of preQuestion text. Replicate representation type as ..d:QuestionItem/d:abstractResponseDomain. Use sequence number with .2 extension to retain sequence of QuestionItem when creating Control Construct Sequence. May need to parse to limit to the literal question text. Separate out interviewer instructions, flow information, and response domain.
1000	4.3.8.2	qstnLit	PCDATA			
1001		sdattref	s:StudyUnit/d:DataCollection/d:QuestionScheme/d:QuestionItem/d:QuestionText/d:LiteralText/d:Text	d:Text	xs:string	
1002	4.3.8.3	postQTxt	PCDATA			
1003	4.3.8.4	forward	PCDATA			
1004		qstn	NA			Capture information for ..d:ControlConstructScheme/d:Sequence using Sequence, IfThenElse, Loop, RepeatUntil, or RepeatWhile
1005	4.3.8.5	backward	PCDATA			Capture information for ..d:ControlConstructScheme/d:Sequence using Sequence, IfThenElse, Loop, RepeatUntil, or RepeatWhile
1006		qstn	NA			Capture information for ..d:ControlConstructScheme/d:Sequence using Sequence, IfThenElse, Loop, RepeatUntil, or RepeatWhile
1007	4.3.8.6	ivulnstr	PCDATA	s:StudyUnit/d:DataCollection/d:InterviewerInstructionScheme/d:Instruction/d:InstructionText	d:InstructionText	r:StructuredStringType
1008	4.3.9	valrng	WRAP	NA		
1009	4.3.9.1	range	PCDATA			
1010		UNITS	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation/r:NumericRange	Variable > Representation > NumericRepresentation > NumericRange	NumericRepresentation @Interval	
1011		min	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation/r:NumericRange/r:Low AND r:Low@included	r:Low AND r:Low@included	xs:decimal @xs:boolean	Transfer content to r:Low and set @included = "true"
1012		minExclusive	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation/r:NumericRange/r:Low AND r:Low@included	r:Low AND r:Low@included	xs:decimal @xs:boolean	Transfer content to r:Low and set @included = "false"
1013		max	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation/r:NumericRange/r:High AND r:High@included	r:High AND r:High@included	xs:decimal @xs:boolean	Transfer content to r:High and set @included = "true"
1014		maxExclusive	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation/r:NumericRange/r:High AND r:High@included	r:High AND r:High@included	xs:decimal @xs:boolean	Transfer content to r:High and set @included = "false"
1015	4.3.9.2	item	EMPTY			
1016		UNITS	NA			This should already be clear from the data type and number of decimals
1017		VALUE	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation/r:NumericRange/r:Low AND r:Low@included AND r:High AND r:High@included	r:Low AND r:Low@included	xs:decimal @xs:boolean	Transfer content to r:Low and set @included = "true". Transfer content to r:High and set @included = "true"
1018	4.3.9.3	key?	PCDATA	NA		[can be generated from current documentation] Variable uses a single representation type, so that CodeRepresentations declare this information and key is not used to replicate this.
1019	4.3.9.4	notes*	PCDATA	r:Note	Complex element	[See Common Items for detailed instructions for translation of notes content. *LogicalProduct for microdata files Or INCubeLogicalProduct for aggregate data files. Both are substitution groups for !BaseLogicalProduct.
1020		type	attribute			
1021		subject	attribute			
1022		level	attribute			
1023		resp	attribute			
1024		sdattref	attribute			
1025	4.3.10	invalid*	WRAP	NA		
1026	4.3.10.1	range	PCDATA			
1027		UNITS	attribute			
1028		min	attribute			
1029		minExclusive	attribute			
1030		max	attribute			
1031		maxExclusive	attribute			
1032	4.3.10.2	item	PCDATA			
1033		UNITS	attribute			
1034		VALUE	attribute			
1035	4.3.10.3	key?	PCDATA	NA		[can be generated from current documentation] Variable uses a single representation type, so that CodeRepresentations declare this information and key is not used to replicate this.
1036	4.3.10.4	notes*	PCDATA	r:Note	Complex element	[See Common Items for detailed instructions for translation of notes content. *LogicalProduct for microdata files Or INCubeLogicalProduct for aggregate data files. Both are substitution groups for !BaseLogicalProduct.
1037		type	attribute			
1038		subject	attribute			
1039		level	attribute			
1040		resp	attribute			
1041		sdattref	attribute			

XML Schema Outline	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element/@Attribute)	Element/@Attribute	Element/attribute type	Comments
2	Version2.1					
1042	4.3.1.11	undocCod	PCDATA	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/abstractValue/Representation/@missingValue	xs:NMTOKENS	Alternatively, this would be handled by a category of "Undocumented Code" and inclusion in the CodeScheme. After creating c:Universe create a reference to this element at s:StudyUnit/LogicalProduct/VariableScheme/Variable/UniverseReference (type r:Reference)
1043	4.3.1.2	universe*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/HumanReadable	r:StructuredStringType	Content will help determine c:Universe/c:SubUniverse nesting patterns. Content of sumDscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DDI 2.1 universe element
1044		level	attribute	NA		
1045		clusion	attribute	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/@isInclusive	xs:boolean	Content requires translation: I = "true" E="false"
1046	4.3.12.1	txt*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/HumanReadable	r:StructuredStringType	This is an optional entry format for the content of universe. See comment notes above.
1047		level	attribute	NA		
1048		sdatsrefs	attribute	NA		
1049	4.3.12.2	concept	PCDATA	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validFromDate attributes; r:Description is a r:StructuredStringType. Select location based on content.
1050		vocab	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	r:InternationalStringType	Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
1051		vocabURI	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	xs:anyURI	
1052	4.3.13	TotlResp?	PCDATA	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:TotalResponses	r:ReferenceType	Include ../pi:VariableStatistics/pi:VariableReference
1053	4.3.14	sumStat*	PCDATA	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:SummaryStatistics/pi:Value	xs:decimal	NOTE: Presumes correction to added 's' on ../pi:VariableStatistics/pi:SummaryStatistic
1054		wgtd	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:SummaryStatistics/pi:Weighted	xs:boolean	Translate "wgtd" = "true", "not-wgtd"="false"
1055		wgivar	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:WeightVariableReference	r:ReferenceType	Note if both @wgivar and @weight are given this will result in an invalid DDI 3.0 document. The valid weight will need to be determined and the invalid reference removed.
1056		weight	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:WeightUsedReference	r:ReferenceType	Note if both @wgivar and @weight are given this will result in an invalid DDI 3.0 document. The valid weight will need to be determined and the invalid reference removed.
1057		type	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:SummaryStatisticType	pi:SummaryStatisticType OR r:CodeValueType OR pi:SummaryStatisticTypeCodedType	
1058	4.3.15	txt*	PCDATA	s:StudyUnit/LogicalProduct/VariableScheme/Variable/VariableDefinition	r:StructuredStringType	
1059		level	attribute	NA		
1060		sdatsrefs	attribute	NA		
1061	4.3.16	stdCatgr?	WRAP	**Special Handling**		This is frequently a reference to non-DDI structured classification scheme such as FIPS codes. The DDI CategoryScheme and CodeScheme will need to be created and published in order to support the external reference. Alternative is to treat this as a TextRepresentation with the appropriate regexp, maxLength, and minLength. See general instructions for dealing with variable types noted in 4.3
1062		date	attribute	**Special Handling**		
1063		URI	attribute	**Special Handling**		
1064	4.3.17	catgrvGrp*	WRAP	NA		Nesting of categories needs to be recorded as levels in the CodeScheme. Mapping in this table refers to a simple non-nested category/code structure
1065		missing	attribute	s:StudyUnit/LogicalProduct/CategoryScheme/Category/@missing	r:Category@missing	Translate "Y"="true", "N"="false"
1066		missType	attribute	s:StudyUnit/LogicalProduct/CategoryScheme/Category/Definition	r:StructuredStringType	
1067		catgrv	attribute	s:StudyUnit/LogicalProduct/CodeScheme/Level		[use for determining order of codescheme and nesting pattern]
1068		catGrp	attribute	s:StudyUnit/LogicalProduct/CodeScheme/Level		[use for determining order of codescheme and nesting pattern]
1069		levelno	attribute	s:StudyUnit/LogicalProduct/CodeScheme/Level/@levelNumber	xs:integer	Also provide at ../CodeScheme/Code/@levelNumber in Code referencing the category
1070		levelnm	attribute	s:StudyUnit/LogicalProduct/CodeScheme/Level/Name	xs:string	Retain ID of each level name. These are attached to categories by catgrv@level (IDREF)
1071		compl	attribute	s:StudyUnit/LogicalProduct/CodeScheme/Code/@isComprehensive		
1072		excls	attribute	NA		
1073	4.3.17.1	label*	PCDATA	s:StudyUnit/LogicalProduct/CategoryScheme/Category/Label	r:Label	
1074		level	attribute	NA		
1075		vendor	attribute	NA		
1076		country	attribute	s:StudyUnit/LogicalProduct/CategoryScheme/Category/Label@locationVariant	Label @locationVariant	
1077		sdatsrefs	attribute	NA		
1078	4.3.17.2	catStat*	PCDATA	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:Value	xs:decimal	Capture catValu
1079		type	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:CategoryStatisticType	r:CodeValueType OR pi:CategoryStatisticTypeCodedType	Assumption is that external reference is NOT to a DDI 3.0 structured PhysicalInstance. Therefore place in OtherMaterial, reference the PhysicalInstance identification. @type = "CategoryStatistics"
1080		URI	attribute	s:StudyUnit/pi:PhysicalInstance/OtherMaterial/ExternalURNReference OR r:ExternalURLReference	xs:anyURI	r:Citation/Title should provide the file name and "Category Statistics"
1081		sdatsrefs	attribute	NA		
1082		wgtd	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:Weighted	xs:boolean	Translate "wgtd" = "true", "not-wgtd"="false"
1083		wgivar	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:WeightVariableReference	r:ReferenceType	
1084		weight	attribute	s:StudyUnit/pi:PhysicalInstance/c:pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:WeightUsedReference	r:ReferenceType	
1085		sdatsrefs	attribute	NA		
1086	4.3.17.3	txt*	PCDATA	s:StudyUnit/LogicalProduct/CategoryScheme/Category/VariableDefinition	r:StructuredStringType	
1087		level	attribute	NA		

XML Schema Outline	XML Schema	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version2.1					
1088		sdatrefs	NA			
1089	4.3.18	catgry*	WRAP	s:StudyUnit/LogicalProduct/CategoryScheme/Category/missing	Category@missing	Nesting of categories needs to be recorded as levels in the CodeScheme. Mapping in this table refers to a simple non-nested category/code structure
1090		missing	attribute	s:StudyUnit/LogicalProduct/CategoryScheme/Category/missing	Category@missing	Translate "Y"="true", "N"="false" Content redundant with Label. If no labi (4.3.18.2) content then move to s:StudyUnit/LogicalProduct/CategoryScheme/Category/r:Label
1091		missType	attribute	NA		InternationalStructuredString If different categories are used for different countries this will inform question content (different by country), or LogicalRecordContent. Place information in l:Category/r:Label@locationVariant (xs:string)
1092		country	attribute	NA		
1093		sdatrefs	attribute	NA		
1094		excls	attribute	NA		
1095		catgry	attribute	NA		No documentation for use of this attribute in the DTD (use for determining order of codescheme and nesting pattern lists categories contained by category)
1096		level	attribute	NA		Capture level reference of catgry and place assigned level number in ..l:Code@levelNumber
1097	4.3.18.1	catValu?	PCDATA	s:StudyUnit/LogicalProduct/CodeScheme/Code/Value	Value	xs:string
1098	4.3.18.2	labi*	PCDATA	s:StudyUnit/LogicalProduct/CategoryScheme/Category/r:Label	Label	r:InternationalStringType
1099		level	attribute	NA		Capture identification of the catgry coded by this value and enter in ..l:Code/CategoryReference: Capture level reference of catgry and place assigned level number in ..l:Code@levelNumber
1100		vendor	attribute	NA		
1101		country	attribute	s:StudyUnit/LogicalProduct/CategoryScheme/Category/r:Label@locationVariant	Category	Label @locationVariant
1102		sdatrefs	attribute	NA		
1103	4.3.18.3	txt*	PCDATA	s:StudyUnit/LogicalProduct/CategoryScheme/Category/Definition	Description	r:StructuredStringType
1104		level	attribute	NA		
1105		sdatrefs	attribute	NA		
1106	4.3.18.4	catStat*	PCDATA	s:StudyUnit/pi:PhysicalInstance/pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:Value	Value	xs:decimal
1107		type	attribute	s:StudyUnit/pi:PhysicalInstance/pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:CategoryStatisticType	CategoryStatisticType	r:CodeValueType OR pi:CategoryStatisticTypeCodedType
1108		URI	attribute	s:StudyUnit/pi:PhysicalInstance/OtherMaterial/ExternalURReference OR r:ExternalURReference	ExternalURReference OR r:ExternalURReference	xs:anyURI
1109		methrefs	attribute	NA		r:Citation/r:Title should provide the file name and "Category Statistics"
1110		wgtd	attribute	s:StudyUnit/pi:PhysicalInstance/pi:Statistics/pi:VariableStatistics/pi:CategoryStatistics/pi:CategoryStatistic/pi:Weighted	Weighted	xs:boolean
1111		wgtyr	attribute	s:StudyUnit/pi:PhysicalInstance/pi:Statistics/pi:VariableStatistics/pi:WeightVariableReference	WeightVariableReference	r:ReferenceType
1112		weight	attribute	s:StudyUnit/pi:PhysicalInstance/pi:Statistics/pi:VariableStatistics/pi:WeightUsedReference	WeightUsedReference	r:ReferenceType
1113		sdatrefs	attribute	NA		
1114	4.3.18.5	mwv?	WRAP	NA		Create a variable for each concatenation set.
1115	4.3.18.5.1	mi*	PCDATA	NA		
1116		varRef	attribute	s:StudyUnit/NCubeLogicalProduct/VariableScheme/Variable/CodeRepresentation/CodeSubsetting/VariableConcatenation/ConcatenatedValue/VariableReference	VariableReference	r:ReferenceType
1117	4.3.19	codInstr*	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:Coding/d:GenerationInstruction/r:Description	Description	r:StructuredStringType
1118	4.3.20	verStm*	PCDATA	NA		r:ReferenceType
1119	4.3.20.1	version?	PCDATA	s:StudyUnit/LogicalProduct/VariableScheme/Variable@version	Variable@version	restricted xs:string (0-9)+/(0-9)+
1120		date	attribute	s:StudyUnit/LogicalProduct/VariableScheme/Variable@versionDate	Variable@versionDate	r:BaseDateType
1121		type	attribute	s:StudyUnit/LogicalProduct/VariableScheme/Variable/VersionRationale	VersionRationale	r:InternationalStringType
1122	4.3.20.2	verResp?	PCDATA	s:StudyUnit/LogicalProduct/VariableScheme/Variable/VersionResponsibility	VersionResponsibility	xs:string
1123		affiliation	attribute	s:StudyUnit/LogicalProduct/VariableScheme/Variable/VersionResponsibility	VersionResponsibility	xs:string
1124	4.3.20.3	notes*	PCDATA	r:Note	Note	Complex element
1125		type	attribute			
1126		subject	attribute			
1127		level	attribute			
1128		resp	attribute			
1129		sdatrefs	attribute			
1130	4.3.21	concept*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/r:Label OR r:Description	Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType
1131		vocab	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	Title	r:InternationalStringType
1132		vocabURI	attribute	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	URI	xs:anyURI
1133	4.3.22	derivation?	WRAP	NA		The identification of the a:Coding element should be referenced by ..l:Variable/Representation/ CodingInstructionReference (r:ReferenceType)
1134		var	attribute	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:Coding/d:GenerationInstruction/r:SourceVariable	SourceVariable	d:SourceReferenceType extends r:ReferenceType by adding element Mnemonic (xs:string)

XML Schema Outline	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/ParentElement@attribute)	Element/attribute	Element/attribute type	Comments
1135	4.3.22.1	divdesc?	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:Coding/d:GenerationInstruction/r:Description	r:Description	r:StructuredStringValue
1136	4.3.22.2	divcmd?	PCDATA	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:Coding/d:GenerationInstruction/r:Command/r:CommandText	r:CommandText	xs:string
1137		syntax	attribute	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:Coding/d:GenerationInstruction/r:Command@formatLanguage	r:Command@formatLanguage	xs:string (use to determine type of Representation substitution group to use)
1138	4.3.23	varFormat?	PCDATA	NA		
1139		type	attribute	s:StudyUnit/LogicalProduct/VariableScheme/Variable/Representation/abstractValue/Representation/r:RecommendedDataType	r:RecommendedDataType	r:CodeValueType Use to identify variable that require TextRepresentation (used to determine RecommendedDataType or RecordLayoutType depending on content)
1140		formatname	attribute	NA		(used to determine RecommendedDataType or RecordLayoutType depending on content)
1141		schema	attribute	NA		(depending on content)
1142		category	attribute	NA		(if "date" or "time" evaluate content for use of DateTimeRepresentation. However, data must be in the specified format. (used to determine RecommendedDataType or RecordLayoutType depending on content)
1143		URI	attribute	NA		
1144	4.3.24	locMap	EMPTY	s:StudyUnit/LogicalProduct	r:OtherMaterial	Complex element Use general instructions for OtherMaterial content.
1145		URI	attribute			
1146		mapformat	attribute			
1147		levelno	attribute			
1148	4.3.25	catLevel*	EMPTY	NA		
1149		levelnm	attribute	s:StudyUnit/LogicalProduct/CodeScheme/Level/Name	r:Name	xs:string Retain ID of each level name. These are attached to categories by category@level (IDREF). (See Common Items for detailed instructions for translation of notes content. *LogicalProduct for microdata files Or LogicalProduct for aggregate data files. Both are substitution groups for BaseLogicalProduct)
1150	4.3.26	notes*	PCDATA	r:r:Note	r:Note	Complex element
1151		type	attribute			
1152		subject	attribute			
1153		level	attribute			
1154		resp	attribute			
1155		sdatrefs	attribute			
1158	4.4	nCube*	WRAP	NA		
1157		name	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/Label OR r:Name	r:Label OR r:Name	r:internationalStringType, r:Label is extended to include @type and @maxLength if appropriate
1158		sdatrefs	attribute	NA		
1159		methrefs	attribute	NA		
1160		pubrefs	attribute	NA		(Information is housed in Archive > Access Need to work on this. Right now attribute requires a variable reference but some attributes are not variables - wtf)
1161		access	attribute	NA		
1162		dimsOnly	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/@dimensionCount	NCube @dimensionCount	xs:integer
1163		cellOnly	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/@cellCount	NCube @cellCount	xs:integer [NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1164	4.4.1	location*	PCDATA	NA		[NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1165		StartPos	attribute	NA		[NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1166		EndPos	attribute	NA		[NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1167		width	attribute	NA		[NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1168		RecSeqNo	attribute	NA		[NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1169		fileid	attribute	NA		[NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1170		locMap	attribute	NA		[NCube location information is described in LocMap, these should be blank except for locMap with an ID Ref]
1171	4.4.2	label*	PCDATA	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/Label	r:Label	r:internationalStringType extended
1172		level	attribute	NA		
1173		vendor	attribute	NA		
1174		country	attribute	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/Label@locationVariant	r:Label@locationVariant	xs:string
1175		sdatrefs	attribute	NA		
1176	4.4.3	def*	PCDATA	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/Definition	r:Definition	r:StructuredStringValue
1177		level	attribute	NA		
1178		sdatrefs	attribute	NA		
1179	4.4.4	universe*	PCDATA	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringValue After creating c:Universe create a reference to this element at s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/r:UniverseReference (type r:Reference) (Content will help determine c:Universe/c:SubUniverse nesting patterns. (Content of sumDiscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DD1.2.1 universe element)
1180		level	attribute	NA		
1181		clusion	attribute	s:StudyUnit/c:ConceptualComponent/c:UniverseScheme/c:Universe/@isInclusive	c:Universe/@isInclusive	xs:boolean (Content requires translation: I = "true" E="false")

XML Schema Outline	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element/@attribute)	Element/@attribute	Element/@attribute type	Comments
2	Version2.1					
1182	4.4.4.1	txt*	s:StudyUnit/c:ConceptualComponent/c:UniverseS:home/c:Universe/c:HumanReadable	c:HumanReadable	r:StructuredStringType	This is an optional entry format for the content of universe. See comment notes above. Content will help determine c:Universe/c:SubUniverse nesting patterns. Content of sumDscr or stdInfo implies top level universe. 2.2.3.9 universe should be top level. Universes can be listed separately (no nesting) or nested under the universe from DDI 2.1 universe element.
1183		level	NA			
1184		sdaterefs	NA			
1185	4.4.4.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
1186		vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
1187		vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
1188	4.4.5	imputation?	s:StudyUnit/d:DataCollection/d:ProcessingEvent/d:Coding/d:GeneralInstruction/r:Description	r:Description	r:StructuredStringType	The identification of the a:Coding element should be referenced by ./NCube//imputationReference (r:ReferenceType)
1189	4.4.6	security?	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessRestrictionDate/a:Reason AND a:User	a:Reason AND a:User	r:StructuredStringType	Content of original element may require parsing to appropriate element. The identification of the a:Access element should be referenced by ./NCube//EmbarcoReference (r:ReferenceType)
1190		date	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessRestrictionDate/a:SimpleDate	a:SimpleDate	r:BaseDateType	
1191	4.4.7	embargo?	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessRestrictionDate/a:Reason AND a:User	a:Reason AND a:User	r:StructuredStringType	Content of original element may require parsing to appropriate element. The identification of the a:Access element should be referenced by ./NCube//EmbarcoReference (r:ReferenceType)
1192		date	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessRestrictionDate	a:AccessRestrictionDate	r:AccessRestrictionDateType	See event contents for instructions on entering date information if "notBefore" enter date content in EndDate and zeros in StartDate. If "notAfter" enter date content in StartDate.
1193		event	s:StudyUnit/a:Archive/a:ArchiveSpecific/a:Item/a:Access/a:AccessRestrictionDate	AccessRestriction	AccessRestrictionDates	
1194		format	NA			
1195	4.4.8	respUnit?	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//ResponseUnit	r:ResponseUnit	xs:string	
1196	4.4.9	anlyUnit?	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//AnalysisUnit	r:AnalysisUnit	r:CodeValueType	
1197	4.4.9.1	txt	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//AnalysisUnit	r:AnalysisUnit	r:CodeValueType	This is an optional entry format for the content of anlyUnit.
1198		level	NA			
1199		sdaterefs	NA			
1200	4.4.9.2	concept	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Concept/Label OR r:Description	r:Label OR r:Description	extended r:InternationalStringType OR r:StructuredStringType	r:Label is an extended r:InternationalStringType allowing maxLength, type, locationVariant, and validForDate attributes; r:Description is a r:StructuredStringType. Select location based on content. Concepts from different vocabularies must go in separate ConceptSchemes. Use this set of attributes (vocab and vocabURI) to sort concepts into schemes.
1201		vocab	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:Title	c:Title	r:InternationalStringType	
1202		vocabURI	s:StudyUnit/c:ConceptualComponent/c:ConceptScheme/c:Vocabulary/c:URI	c:URI	xs:anyURI	
1203	4.4.10	verStrm?	NA			
1204	4.4.10.1	version?	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube@version	NCube@version	restricted xs:string ([0-9])+([.](0-9))+	
1205		date	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube@versionDate	NCube@versionDate	r:BaseDateType	
1206		type	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/r:VersionRationale	r:VersionRationale	r:InternationalStringType	
1207	4.4.10.2	verResp?	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/r:VersionResponsibility	r:VersionResponsibility	xs:string	
1208		affiliation	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube/r:VersionResponsibility	r:VersionResponsibility	xs:string	Append to existing content See Common Items for detailed instructions for translation of notes Content. INCubeLogicalProduct is a substitution group for BaseLogicalProduct
1209	4.4.10.3	notes*	I:NCubeLogicalProduct/r:Note	r:Note	Complex element	
1210		type				
1211		subject				
1212		level				
1213		resp				
1214		sdaterefs				
1215	4.4.11	purpose?	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//Purpose	r:Purpose	r:InternationalStringType	
1216		sdaterefs	NA			
1217		metarefs	NA			
1218		subrefs	NA			
1219		URI	NA			
1220	4.4.12	dmns*	NA			
1221		rank	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//Dimension@rank	r:Dimension@rank	xs:integer	
1222		varRef	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//Dimension/VariableReference	r:VariableReference	r:ReferenceType	
1223	4.4.12.1	cohort*	NA			Replicate the referenced variable and use CodeSubstInfo to restrict CodeScheme content used
1224		catRef	NA			
1225		value	s:StudyUnit/NCubeLogicalProduct/VariableScheme/Variable/CodeRepresentation/IncludedCodeReference	r:IncludedCodeReference	r:ReferenceType	
1226	4.4.12.1.1	range*	NA			Range not supported enter individual Codes like above
1227		UNITS	NA			
1228		min	NA			
1229		minExclusive	NA			
1230		max	NA			
1231		maxExclusive	NA			Create a Variable to represent the Measure. An NCube can have multiple measures but each Variable must express only one. NCubes that have the same structure but different measures can be expressed once and contain multiple measures. The was previously only acceptable when data for measures was bundled in a consistent fashion identifiable by the storage structure. Reference this variable from s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//Measure/VariableReference. This is used only when the cell contents are defined by a Variable e.g. when a set of codes are used as suppression flags and the variable defines the category value and associated label. This is the only case where you will not need to create a measure variable
1232	4.4.13	measure*	NA			
1233		varRef	s:StudyUnit/NCubeLogicalProduct/NCubeScheme/NCube//Measure/VariableReference	r:VariableReference	r:ReferenceType	

XML Schema Outline	XML Schema Outline	Type: PCDATA, WRAP, EMPTY, attribute	Version 3.0 Path (Maintainable/Parent/Element@attribute)	Element/attribute	Element/attribute type	Comments
2	Version2.1					
1234		aggrMeth	s:StudyUnit/NCubeLogicalProduct/VariableScheme/Variable/Label AND /Variable/Representation@aggregationMethod	r:Label AND /Representation@aggregationMethod	r:InternationalStringType AND /AggregationMethodCodeType	Concatenate aggrMeth and measUnit content for label (e.g. 'Count of Persons). Note that some measures require identification of the independent and dependent variable in the Measure definition or in the GenerationInstruction for the measure Variable.
1235		measUnit	s:StudyUnit/NCubeLogicalProduct/VariableScheme/Variable/Label AND /Variable/Representation@measurementUnit	r:Label AND /Representation@measurementUnit	r:InternationalStringType AND xs:string	Concatenate aggrMeth and measUnit content for label (e.g. 'Count of Persons). Note that some measures require identification of the independent and dependent variable in the Measure definition or in the GenerationInstruction for the measure Variable.
1236		scale	s:StudyUnit/NCubeLogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation@scale	r:NumericRepresentation@scale	xs:integer	drop leading x and translate decimal entries to @decimalPositions (xs:integer)
1237		origin	s:StudyUnit/NCubeLogicalProduct/VariableScheme/Variable/Representation/r:NumericRepresentation@startValue	r:NumericRepresentation@startValue	xs:double	
1238		additivity	s:StudyUnit/NCubeLogicalProduct/VariableScheme/Variable/Representation@additivity	/Representation@additivity	/AdditivityCodeType	All valid DDI 2.1 content is valid in DDI 3.0 See Common Items for detailed instructions for translation of notes content. I:NCubeLogicalProduct is a substitution group for /BaseLogicalProduct
1239	4.4.14	notes*	I:NCubeLogicalProduct/r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in substitution used for I:BaseLogicalProduct
1240		type				
1241		subject				
1242		level				
1243		resp				
1244		sdatrefs				
1245	4.5	notes*	*r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in substitution used for I:BaseLogicalProduct
1246		type				
1247		subject				
1248		level				
1249		resp				
1250		sdatrefs				
1251	5.0	otherMat*	s:StudyUnit	r:OtherMaterial	Complex element	Use general instructions for OtherMaterial content.
1252		type				
1253		level				
1254		URI				
1255	5.1	lab*				
1256		level				
1257		vendor				
1258		country				
1259		sdatrefs				
1260	5.2	txt?				
1261		level				
1262		sdatrefs				
1263	5.3	notes*	*r:Note	r:Note	Complex element	See Common Items for detailed instructions for translation of notes content. *Place in same maintainable as parent OtherMaterial
1264		type				
1265		subject				
1266		level				
1267		resp				
1268		sdatrefs				
1269	5.4	table*				
1270		frame				
1271		colsep				
1272		rowsep				
1273		rowwide				
1274	5.5	citation?				
1275		MARCURI				
1276	5.6	otherMat*				
1277		type				
1278		level				
1279		URI				