



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

United Nations Centre for Trade Facilitation and Electronic
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**UN/CEFACT
XML For CCTS
Version 1.0 ODP5**

2010-12-31

18 Abstract

19 This XML For CCTS specification defines an XML NDR 3.0 Conformant Schema
20 necessary to define, describe and use XML to consistently express CCTS 3.0
21 artefacts. It is based on the World Wide Web consortium suite of XML specifications,
22 the UN/CEFACT Core Components Technical Specification version 3.0, and the
23 UN/CEFACT XML NDR Technical Specification 3.0. This specification will be used
24 by UN/CEFACT, other Standards Development Organizations, and governments and
25 private sector companies to create XML instance documents that express CCTS
26 artefacts.

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121 **1 Status of This Document**

122 This UN/CEFACT technical specification has been developed in accordance with the
123 UN/CEFACT/TRADE/R.650/Rev.4/Add.1/Rev.1 Open Development Process (ODP)
124 for technical specifications. The UN/CEFACT Applied Technology Group (ATG) has
125 not approved it for distribution.

126 This technical specification contains information to guide in interpretation or
127 implementation.

128 Specification formatting is based on the Internet Society's Standard RFC format.

129 Distribution of this document is unlimited.

130 This version: UN/CEFACT XML For CCTS, Version 1.0 ODP5 of 2010-12-31

131 Previous version: UN/CEFACT XML For CCTS, Version 1.0 ODP4 Draft of 2010-11-
132 18.

133 This document may also be available in these non-normative formats: XML, XHTML
134 with visible change markup. See also translations.

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136 document use rules apply.

155 **3 Introduction**156 **3.1 Summary of Contents of Document**

157 This specification consists of the following Sections and Appendices.

Abstract	Informative
Table of Contents	Informative
Section 1: Status of this Document	Informative
Section 2: Project Team	Informative
Section 3: Introduction	Informative
Section 4: Objectives	Informative
Section 5: Using the XML for CCTS XML Schema	Informative
Section 6: XML Schema Components	Normative
Section 7: CCTS XML Instances	Normative
Appendix A: Schema	Normative
Appendix B: Use Cases and Examples	Informative

158 **3.1.1 Notation**

159 The keywords MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD,
 160 SHOULD NOT, RECOMMENDED, MAY, and OPTIONAL, when they appear in this
 161 specification, are to be interpreted as described in [Internet Engineering Task Force
 162 \(IETF\) Request For Comments \(RFC\) 2119](#).¹

163 Wherever `xsd:` appears in this specification it refers to a construct taken from one of
 164 the W3C XML Schema recommendations. Wherever `ccts:` appears it refers to a
 165 construct taken from the *UN/CEFACT Core Components Technical Specification*.

166 Example – A representation of a definition or a rule. Examples are informative.

167 [Note] – Explanatory information. Notes are informative.

168 [R n] – Identification of a rule that requires conformance. Rules are normative. In
 169 order to ensure continuity across versions of the specification, rule numbers are
 170 randomly generated. The number of a rule that is deleted will not be re-issued. Rules
 171 that are added will be assigned a previously unused random number.

Key words for use in RFCs to Indicate Requirement Levels - Internet Engineering Task Force, Request For
 Comments 2119, March 1997, <http://www.ietf.org/rfc/rfc2119.txt?number=2119>

172 `Courier` – All words appearing in bolded `courier` font are values, objects or
173 keywords.

174 When defining rules, the following annotations are used:

175 [] = optional

176 < > = variable

177 | = choice

178 **3.2 Audience**

179 The audience for this UN/CEFACT - *XML For CCTS* Technical Specification is:

- 180 • Developers of CCTS Artefacts
- 181 • Submitters of CCTS Artefacts to governance organizations
- 182 • Maintainers and Publishers of CCTS based libraries
- 183 • Users of CCTS Artefacts and Libraries

184 **4 Objectives**

185 **4.1 Goals of the Technical Specification**

186 This technical specification has been developed to provide for standard XML
187 instance documents that can express UN/CEFACT Core Component Technical
188 Specification (CCTS) conformant artefacts and information models developed in
189 accordance with the UN/CEFACT Core Components Technical Specification Version
190 3.0. The resultant XML expressions can be used for XML tool based generation,
191 manipulation, storage, contributions to data library governance authorities, and
192 publication and reuse of data libraries.

193 **4.2 Requirements**

194 Users of this specification should have an understanding of XML, XML Schema
195 Definition Language, UN/CEFACT Core Components Technical Specification,
196 UN/CEFACT XML Naming and Design Rules Technical Specification, and
197 UN/CEFACT Data Type Catalogue..

198 **4.3 Conformance**

199 Applications will be considered to be in full conformance with this technical
200 specification if they create XML instances that fully conform with the XML Schema
201 and the content of normative sections, rules and definitions.

202 **4.4 Caveats and Assumptions**

203 Instances created as a result of employing this specification should be made publicly
204 available. UN/CEFACT will publish their instances as the UN/CEFACT Core
205 Component Library and may publish individual XML artefacts in an ebXML compliant
206 registry and make its contents freely available to any government, individual or
207 organization who wishes access.

208 This specification does not address transformations via scripts or any other means. It
209 does not address any other representation of CCTS artefacts – such as OWL, Relax
210 NG, and XMI which are clearly outside the scope of this document.

211 **4.5 Guiding Principles**

212 The following guiding principles were used as the basis for this specification.

213 Relationship to Information Models –XML instances will be based on information
214 models developed in accordance with the UN/CEFACT – *Core Components*
215 *Technical Specification*.

216 Interchange and Application Use – The resulting XML instance documents are
217 intended for a variety of data exchanges.

218 Tool Use and Support - The design of the UN/CEFACT XML For CCTS Schema will
219 not make any assumptions about sophisticated tools for creation, management,
220 storage, or presentation being available.

221 Technical Specifications – UN/CEFACT XML For CCTS Schema will be based on
222 UN/CEFACT Core Component Technical Specification Version 3.0, XML NDR
223 Technical Specification Version 3.0 or later and Core Data Type Catalogue Version
224 3.0 or later.

225 XML Schema Specification – UN/CEFACT XML For CCTS will be fully conformant
226 with W3C XML Schema 1.0 Recommendation.

227 **5 Using the XML For CCTS Schema**

228 **5.1 XML Instances for CCTS**

229 The instances that validate against the XML For CCTS Schema are definitions of the
230 CCTS artefacts and represent fully conformant CCTS artefacts. The XMLForCCTS
231 schema are contained in Appendix A.

232 **5.2 CCTS Development using XML Based Applications**

233 The Core Components Technical Specification (CCTS) has established a key aspect
234 in international trade, electronic data exchange, and information modelling. A
235 fundamental principal to defining the CCTS has been, and continues to be, based in
236 a syntax-neutral approach. CCTS is independent of any given technological syntax.

237 While this approach has clear advantage to its success and longevity in industry,
238 without a formal, and concise, machine-processable representation positions the
239 CCTS as incomplete from a software tooling implementation perspective. Without
240 such a concise and machine-processable representation of CCTS, in specific the
241 CCTS metamodel, software tool support cannot be established with consistency
242 from multiple sources.

243 This specification defines such a concise, and formal, machine-processable
244 representation of CCTS in W3C XML Schema – specifically the metamodel, in order
245 to facilitate the entry of multiple forms of consistent software tool implementations
246 including open source, commercial enterprise products, and others.

247 **5.3 Contributions to Component Library Governance Authority**

248 XMLForCCTS can be used for contributing CCTS artefacts to component library
249 governance authorities. Each governance authority should define how it envisions
250 the contribution process and actual instance use. See Appendix B for example use
251 cases and further explanation.

252 **5.4 Persistence Mechanism for Component Libraries**

253 XML representations of CCTS artefacts can exist using a wide variety of persistence
254 mechanisms.

255 **5.5 Publication and Reuse of Data Libraries**

256 Once an Core Component library has been approved by a library authority, the
257 library authority will share this information to an audience of its choosing. The library
258 may include both conceptual and logical data models. The library authority is free to
259 publish their library in any syntax of their choosing. This specification provides a
260 normative XML format to express those libraries to maximize reuse. The library
261 authority will populate the information for the components that they choose to share.

262 **6 Schema Structure and Content**

263 Unique types and elements are necessary to express CCTS artefacts in XML.
 264 Following the UN/CEFACT XML NDR Technical Specification, these elements and
 265 types are contained in three primary schema. All three schema reside in a single
 266 namespace. These three schema are:

267 XML For CCTS Schema

268 Business Information Entity Schema

269 Business Data Type Schema

270 The Business Data Type schema is supported by a number of code list schema.
 271 However these are already defined elsewhere and require no additional definition in
 272 this specification.

273 **6.1 Common Schema Structures**

274 The Schema follows all rules in *UN/CEFACT XML NDR Version 3.0* or later.

275 **6.1.1 Schema Headers**

276 All of the Schema Headers adhere to the Header structure as defined in
 277 *UN/CEFACT XML NDR Version 3.0* or later.

```

Example using the XMLForCCTS Schema:
<!-- ===== -->
<!-- ===== XML4CCTS XML Schema File
===== -->
<!-- ===== -->
<!--
Schema agency:    UN/CEFACT
Schema version:   3.0
Schema date:      29 August 2010

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NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE
ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR
PURPOSE.-->

```

278 **6.2 XMLForCCTS.xsd**

279 **6.2.1 xsd:schema element**

```

xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:un:unece:unefact:ccl:draft:xml4ccts:3"
targetNamespace="urn:un:unece:unefact:ccl:draft:xml4ccts:3"

```

```
elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.0">
```

280 As required by W3C XML Schema, the `xsd:schema` element includes a namespace
 281 declaration for the W3C XML Schema Definition Language. The `xsd:schema`
 282 element declares a namespace and a target namespace. It sets the
 283 `xsd:elementFormDefault` attribute to `qualified`, and the
 284 `xsd:attributeFormDefault` attribute to `unqualified`. It contains a version
 285 attribute whose value will follow the versioning scheme defined in the UN/CEFACT
 286 XML NDR Specification.

287 6.2.2 `xsd:include(s)`

```
<xsd:include schemaLocation="BusinessInformationEntity.xsd"/>
```

288 The XML For CCTS Schema namespace includes a Business Information Entity
 289 Schema. This Business Information Entity Schema contains all Business
 290 Information Entities necessary to define CCTS artefacts.

291 6.2.3 `xsd:element CoreComponentTechnicalSpecificationDefinition`

```
<xsd:element name="CoreComponentTechnicalSpecificationDefinition"  
type="CoreComponentTechnicalSpecificationDefinitionType"/>
```

292 The XML For CCTS Schema declares a single global `xsd:element`. It is typed as
 293 `CoreComponentTechnicalSpecificationDefinitionType`.

294 6.2.4 `xsd:complexType` 295 `CoreComponentTechnicalSpecificationDefinitionType`

```
<xsd:complexType name="CoreComponentTechnicalSpecificationDefinitionType">  
  <xsd:sequence>  
    <xsd:element ref="CoreComponent" minOccurs="0"/>  
    <xsd:element ref="BusinessInformationEntity" minOccurs="0"/>  
    <xsd:element ref="DataType" minOccurs="0"/>  
    <xsd:element ref="BusinessContext" minOccurs="0" maxOccurs="unbounded"/>  
    <xsd:element ref="UsageRule" minOccurs="0" maxOccurs="unbounded"/>  
    <xsd:element ref="IdentifierScheme" minOccurs="0" maxOccurs="unbounded"/>  
    <xsd:element ref="CodeList" minOccurs="0" maxOccurs="unbounded"/>  
  </xsd:sequence>  
</xsd:complexType>
```

296 The XML For CCTS Schema contains a single named `xsd:complexType` which
 297 contains the necessary elements to support expression of CCTS artefacts and
 298 associated metadata.

299 The `CoreComponentTechnicalSpecificationDefinitionType` defines the allowed
 300 content of XMLForCCTS instances.

301 6.3 `BusinessInformationEntity.xsd`

302 The BIE Schema includes element declarations and type definitions to support the
 303 various elements and types in the XML For CCTS Schema. In turn it, uses BDT
 304 types defined in the BDT Schema.

305 6.3.1 `xsd:schema element`

```
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"  
xmlns="urn:un:unece:uncefact:ccl:draft:xml4cts:3"
```

```
targetNamespace="urn:un:unece:uncefact:ccl:draft:xml4ccts:3"
elementFormDefault="qualified" attributeFormDefault="unqualified" version="3.0">
```

306 The BIE `xsd:schema` element includes a namespace declaration for the W3C XML
 307 Schema Definition Language. The `xsd:schema` element declares the XML For
 308 CCTS namespace and target namespace. It sets the `xsd:elementFormDefault`
 309 attribute to `qualified`, and the `xsd:attributeFormDefault` attribute to
 310 `unqualified`. It contains a version attribute whose value will follow the versioning
 311 scheme defined in the UN/CEFACT XML NDR Specification.

312 6.3.2 `xsd:include(s)`

```
<xsd:include schemaLocation="BusinessDataType.xsd"/>
```

313 The elements in the BIE Schema are of Business Data Types that are defined in the
 314 Business Data Type Schema that reside in the XML For CCTS Namespace. An
 315 `xsd:include` statement identifies the schema location as `BusinessDataType.xsd`.

316 6.3.3 Global `xsd:element` Declarations

```
<xsd:element name="AggregateBusinessInformationEntity"
type="AggregateBusinessInformationEntityType"/>
  <xsd:element name="AggregateCoreComponent" type="AggregateCoreComponentType"/>
  <xsd:element name="AssociationBusinessInformationEntity"
type="AssociationBusinessInformationEntityType"/>
  <xsd:element name="AssociationBusinessInformationEntityProperty"
type="AssociationBusinessInformationEntityPropertyType"/>
  <xsd:element name="AssociationCoreComponent"
type="AssociationCoreComponentType"/>
  <xsd:element name="AssociationCoreComponentProperty"
type="AssociationCoreComponentPropertyType"/>
  <xsd:element name="BasicBusinessInformationEntity"
type="BasicBusinessInformationEntityType"/>
  <xsd:element name="BasicBusinessInformationEntityProperty"
type="BasicBusinessInformationEntityPropertyType"/>
  <xsd:element name="BasicCoreComponent" type="BasicCoreComponentType"/>
  <xsd:element name="BasicCoreComponentProperty"
type="BasicCoreComponentPropertyType"/>
  <xsd:element name="BusinessContext" type="BusinessContextType"/>
  <xsd:element name="BusinessDataType" type="BusinessDataTypeType"/>
  <xsd:element name="BusinessDataTypeContentComponent"
type="BusinessDataTypeContentComponentType"/>
  <xsd:element name="BusinessDataTypeSupplementaryComponent"
type="BusinessDataTypeSupplementaryComponentType"/>
  <xsd:element name="BusinessInformationEntity"
type="BusinessInformationEntityType"/>
  <xsd:element name="BusinessProperty" type="BusinessPropertyType"/>
  <xsd:element name="BusinessValueDomain" type="BusinessValueDomainType"/>
  <xsd:element name="Cardinality" type="CardinalityType"/>
  <xsd:element name="ClassificationScheme" type="ClassificationSchemeType"/>
  <xsd:element name="CodeList" type="CodeListType"/>
  <xsd:element name="CodeLocalizedMetadata" type="CodeLocalizedMetadataType"/>
  <xsd:element name="CodeValueContent" type="CodeValueContentType">
    <xsd:annotation>
      <xsd:documentation>The scheme support detailing the full set of values for a
list. It also supports only providing the meta data of a code
list.</xsd:documentation>
    </xsd:annotation>
  </xsd:element>
  <xsd:element name="Context" type="ContextType"/>
  <xsd:element name="ContextValue" type="ContextValueType"/>
  <xsd:element name="CoreComponent" type="CoreComponentType"/>
  <xsd:element name="CoreDataType" type="CoreDataTypeType"/>
  <xsd:element name="CoreDataTypeContentComponent"
type="CoreDataTypeContentComponentType"/>
  <xsd:element name="CoreDataTypeSupplementaryComponent"
type="CoreDataTypeSupplementaryComponentType"/>
```

```

<xsd:element name="CoreValueDomain" type="CoreValueDomainType"/>
<xsd:element name="DataType" type="DataTypeType"/>
<xsd:element name="DomainRestriction" type="DomainRestrictionType"/>
<xsd:element name="Facet" type="FacetType"/>
<xsd:element name="IdentificationMetadata" type="IdentificationMetadataType"/>
<xsd:element name="IdentifierScheme" type="IdentifierSchemeType"/>
<xsd:element name="LocalizedInformation" type="LocalizedInformationType"/>
<xsd:element name="LocalizedMetadata" type="LocalizedMetadataType"/>
<xsd:element name="Package" type="PackageType"/>
<xsd:element name="Primitive" type="PrimitiveType"/>
<xsd:element name="Restriction" type="RestrictionType"/>
<xsd:element name="RestrictedPrimitive" type="RestrictedPrimitiveType"/>
<xsd:element name="UsageRule" type="UsageRuleType"/>
<xsd:element name="ValueDomain" type="ValueDomainType"/>

```

317 The BIE Schema declares global `xsd:elements` for all ccts artefacts and artifact
318 metadata as defined in *UN/CEFACT CCTS Technical Specification Version 3.0*.

319 6.3.4 Business Information Entity Schema Type Definitions

320 The XML For CCTS Schema defines named types for every CCTS artifact and
321 supporting metadata. The name of each element within each
322 `xsd:complexType` is the name of the property in the CCTS
323 artefact. The type of each element is as declared in the CCTS
324 metamodel and is defined in the corresponding BDT `xsd:schema`.
325 The cardinality is as defined in the CCTS metamodel.

326 6.3.4.1 `xsd:complexType AggregateBusinessInformationEntityType`

```

<xsd:complexType name="AggregateBusinessInformationEntityType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="ObjectClassTermQualifier" type="TextType_568D06"
minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="BusinessContextUID" type="IDType_655749"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="BasedOnAggregateCoreComponentUID" type="IDType_655749"/>
    <xsd:choice maxOccurs="unbounded">
      <xsd:element ref="BasicBusinessInformationEntity" minOccurs="0"/>
      <xsd:element ref="AssociationBusinessInformationEntity" minOccurs="0"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>

```

327 The `AggregateBusinessInformationEntityType` defines the elements necessary to
328 convey all relevant information about an ABIE.

329 6.3.4.2 `xsd:complexType AggregateCoreComponentType`

```

<xsd:complexType name="AggregateCoreComponentType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"

```



```

maxOccurs="unbounded"/>
<xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="VersionID" type="IDType_655749"/>
<xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
<xsd:choice maxOccurs="unbounded">
  <xsd:element ref="BasicCoreComponent" minOccurs="0"/>
  <xsd:element ref="AssociationCoreComponent" minOccurs="0"/>
</xsd:choice>
</xsd:sequence>
</xsd:complexType>

```

330 The AggregateCoreComponentType defines the elements necessary to convey all
331 relevant information about an ACC.

332 6.3.4.3 xsd:complexType AssociationBusinessInformationEntityType

```

<xsd:complexType name="AssociationBusinessInformationEntityType">
  <xsd:sequence>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="ObjectClassTermQualifier" type="TextType_568D06"
minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
    <xsd:element name="PropertyTermQualifier" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="AssociatedObjectClassTermQualifier" type="TextType_568D06"
minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element ref="Cardinality"/>
    <xsd:element name="BusinessContextUID" type="IDType_655749"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="AssociationType" type="CodeType_ED40BA"/>
    <xsd:element name="SequencingKeyOrdinal" type="OrdinalType_PQALZM"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="AssociationBusinessInformationEntityTypePropertyUID"
type="IDType_655749"/>
    <xsd:element name="BasedOnAssociatedCoreComponentUID" type="IDType_655749"/>
  </xsd:sequence>
</xsd:complexType>

```

333 The AssociationBusinessInformationEntityType defines the elements necessary to
334 convey all relevant information about an ASBIE.

335 6.3.4.4 xsd:complexType AssociationBusinessInformationEntityTypePropertyType

```

<xsd:complexType name="AssociationBusinessInformationEntityTypePropertyType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="PropertyTermQualifier" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="AssociatedObjectClassTermQualifier" type="TextType_568D06"
minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06"
maxOccurs="11"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element name="LocalizedInformation" type="LocalizedInformationType"
minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

336 The AssociationBusinessInformationEntityPropertyType defines the elements
337 necessary to convey all relevant information about an ASBIE Property.

338 6.3.4.5 xsd:complexType AssociationCoreComponentType

```
<xsd:complexType name="AssociationCoreComponentType">
  <xsd:sequence>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="Cardinality" type="CardinalityType"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="AssociationType" type="CodeType_ED40BA"/>
    <xsd:element name="SequencingKeyOrdinal" type="OrdinalType_PQALZM"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element name="AssociationCoreComponentPropertyUID" type="IDType_655749"/>
  </xsd:sequence>
</xsd:complexType>
```

339 The AssociationCoreComponentType defines the elements necessary to convey all
340 relevant information about an ASCC.

341 6.3.4.6 xsd:complexType AssociationCoreComponentPropertyType

```
<xsd:complexType name="AssociationCoreComponentPropertyType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

342 The AssociationCoreComponentPropertyType defines the elements necessary to
343 convey all relevant information about an ASCC Property.

344 6.3.4.7 xsd:complexType BasicBusinessInformationEntityType

345 The BasicBusinessInformationEntityType defines the elements necessary to convey
346 all relevant information about a BBIE.

347 6.3.4.8 xsd:complexType BasicBusinessInformationEntityPropertyType

348 The BasicBusinessInformationEntityPropertyType defines the elements necessary to
349 convey all relevant information about a BBIE Property.

350 6.3.4.9 xsd:complexType BasicCoreComponentType

```
<xsd:complexType name="BasicCoreComponentType">
  <xsd:sequence>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
  </xsd:sequence>
</xsd:complexType>
```

```

<xsd:element name="PropertyTerm" type="TextType_568D06"/>
<xsd:element name="RepresentationTerm" type="TextType_568D06"/>
<xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element ref="Cardinality"/>
<xsd:element name="CoreDataType" type="TextType_568D06"/>
<xsd:element name="CoreDataTypeUID" type="IDType_655749"/>
<xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
<xsd:element name="SequencingKeyOrdinal" type="OrdinalType_PQALZM"/>
<xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element name="BasicCoreComponentPropertyUID" type="IDType_655749"/>
</xsd:sequence>
</xsd:complexType>

```

351 The BasicCoreComponentType defines the elements necessary to convey all
352 relevant information about a BCC.

353 6.3.4.10 xsd:complexType BasicCoreComponentPropertyType

```

<xsd:complexType name="BasicCoreComponentPropertyType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="RepresentationTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="CoreDataType" type="TextType_568D06"/>
    <xsd:element name="CoreDataTypeUID" type="IDType_655749"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

354 The BasicCoreComonentPropertyType defines the elements necessary to convey all
355 relevant information about a BCC Property.

356 6.3.4.11 xsd:complexType BusinessContextType

```

<xsd:complexType name="BusinessContextType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element name="BusinessProcess" type="ContextType" maxOccurs="unbounded"/>
    <xsd:element name="Product" type="ContextType" maxOccurs="unbounded"/>
    <xsd:element name="Industry" type="ContextType" maxOccurs="unbounded"/>
    <xsd:element name="Geopolitical" type="ContextType" maxOccurs="unbounded"/>
    <xsd:element name="OfficialConstraints" type="ContextType"
maxOccurs="unbounded"/>
    <xsd:element name="Role" type="ContextType" maxOccurs="unbounded"/>
    <xsd:element name="SupportingRole" type="ContextType" maxOccurs="unbounded"/>
    <xsd:element name="SystemContrain" type="ContextType" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

357 The BusinessContextType defines the elements necessary to convey all relevant
358 information about Business Context.

359 6.3.4.12 xsd:complexType BusinessDataTypeType

```

<xsd:complexType name="BusinessDataTypeType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="DataTypeQualifier" type="TextType_568D06" minOccurs="0"

```

```

maxOccurs="unbounded"/>
  <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
  <xsd:element name="PropertyTerm" type="TextType_568D06"/>
  <xsd:element name="RepresentationTerm" type="TextType_568D06"/>
  <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
  <xsd:element name="Cardinality" type="CardinalityType" minOccurs="0"/>
  <xsd:element name="CoreDataType" type="TextType_568D06"/>
  <xsd:element name="CoreDataTypeUID" type="IDType_655749"/>
  <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
  <xsd:element name="VersionID" type="IDType_655749"/>
  <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
  <xsd:element ref="BusinessDataTypeContentComponent"/>
  <xsd:element ref="BusinessDataTypeSupplementaryComponent" minOccurs="0"
maxOccurs="unbounded"/>
  <xsd:element name="BasedOnCoreDataTypeUID" type="IDType_655749"/>
</xsd:sequence>
</xsd:complexType>

```

360 The BusinessDataTypeType defines the elements necessary to convey all relevant
361 information about a BDT.

362 6.3.4.13 xsd:complexType BusinessDataTypeContentComponentType

```

<xsd:complexType name="BusinessDataTypeContentComponentType">
  <xsd:sequence>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="BusinessValueDomain" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

363 The BusinessDataTypeContentComponentType defines the elements necessary to
364 convey all relevant information about a BDT Content Component .

365 6.3.4.14 xsd:complexType BusinessDataTypeSupplementaryComponentType

```

<xsd:complexType name="BusinessDataTypeSupplementaryComponentType">
  <xsd:sequence>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="BusinessValueDomain" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

366 The BusinessDataTypeSupplementaryComponentType defines the elements
367 necessary to convey all relevant information about a BDT Supplementary
368 Component.

369 **6.3.4.15 xsd:complexType BusinessInformationEntityType**

```

<xsd:complexType name="BusinessInformationEntityType">
  <xsd:sequence>
    <xsd:element ref="Package" minOccurs="0"/>
    <xsd:element ref="BusinessProperty" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>

```

370 The BusinessInformationEntityType defines the elements necessary to point to an
371 ABIE, ASBIE, or BBIE.

372 **6.3.4.16 xsd:complexType BusinessPropertyType**

```

<xsd:complexType name="BusinessPropertyType">
  <xsd:sequence>
    <xsd:element ref="AssociationBusinessInformationEntityProperty" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element ref="BasicBusinessInformationEntityProperty" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

373 The BusinessPropertyType contains the ASBIE Properties and BBIE Properties..

374 **6.3.4.17 xsd:complexType BusinessValueDomainType**

```

<xsd:complexType name="BusinessValueDomainType">
  <xsd:sequence>
    <xsd:element name="DefaultIndicator" type="IndicatorType_CD0DC6"/>
    <xsd:element name="DefaultValue" type="TextType_568D06" minOccurs="0"/>
    <xsd:element name="DomainRestriction" type="DomainRestrictionType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="BusinessContextUID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="UsageRuleUID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:choice>
      <xsd:element ref="Primitive" minOccurs="0"/>
      <xsd:element name="BusinessCodeListUID" type="IDType_655749" minOccurs="0"/>
      <xsd:element name="BusinessIdentificationSchemeUID" type="IDType_655749"
minOccurs="0"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>

```

375 The BusinessValueDomainType defines the elements necessary to convey all
376 relevant information about a business value domain.

377 **6.3.4.18 xsd:complexType CardinalityType**

```

<xsd:complexType name="CardinalityType">
  <xsd:sequence>
    <xsd:element name="MinimumOccurenceValue" type="ValueType_677794"/>
    <xsd:element name="MaximumOccurenceValue"
type="MaximumCardinalityValueType_8D0182"/>
  </xsd:sequence>
</xsd:complexType>

```

378 The CardinalityType defines the elements necessary to convey all relevant
379 information about the cardinality for a CC or BIE artefact.

380 **6.3.4.19 xsd:complexType ClassificationSchemeType**

381 The ClassificationSchemeType defines the elements necessary to convey all
382 relevant information about a classification scheme.

383 **6.3.4.20 xsd:complexType CodeListType**

```
<xsd:complexType name="CodeListType">
  <xsd:sequence>
    <xsd:element name="ID" type="IDType_655749"/>
    <xsd:element name="AgencyID" type="IDType_655749"/>
    <xsd:element name="ModificationAllowedIndicator" type="IndicatorType_CD0DC6"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="CodeValueContent" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

384 The CodeListType defines the elements necessary to convey all relevant information
385 about a code list.

386 **6.3.4.21 xsd:complexType CodeLocalizedMetadataType**

```
<xsd:complexType name="CodeLocalizedMetadataType">
  <xsd:sequence>
    <xsd:element name="LanguageCode" type="CodeType_2A09AC"/>
    <xsd:element name="Name" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

387 The CodeLocalizedMetadataType defines the elements necessary to convey all
388 relevant information about localized metadata for codes.

389 **6.3.4.22 xsd:complexType CodeValueContentType**

```
<xsd:complexType name="CodeValueContentType">
  <xsd:sequence>
    <xsd:element name="Value" type="ValueType_D39AEF"/>
    <xsd:element name="Name" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06" minOccurs="0"/>
    <xsd:element ref="CodeLocalizedMetadata" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

390 The CodeValueContentType defines the elements necessary to convey all relevant
391 information about a code value.

392 **6.3.4.23 xsd:complexType ContextType**

```
<xsd:complexType name="ContextType">
  <xsd:sequence>
    <xsd:element name="ContextValue" type="ContextValueType"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

393 The ContextType defines the elements necessary to convey context value.

394 **6.3.4.24 xsd:complexType ContextValueType**

```

<xsd:complexType name="ContextValueType">
  <xsd:sequence>
    <xsd:element name="ClassificationScheme" type="ClassificationSchemeType"/>
    <xsd:element name="Value" type="ValueType_C14BE1"/>
    <xsd:element name="Meaning" type="TextType_568D06"/>
  </xsd:sequence>
</xsd:complexType>

```

395 The ContextValueType defines the elements necessary to convey all relevant
396 metadata information about a context value.

397 **6.3.4.25 xsd:complexType CoreComponentType**

```

<xsd:complexType name="CoreComponentType">
  <xsd:sequence>
    <xsd:element ref="AggregateCoreComponent" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="AssociationCoreComponentProperty" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element ref="BasicCoreComponentProperty" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

398 The CoreComponentType defines the elements necessary to point to an ACC,
399 ASCC, or BCC.

400 **6.3.4.26 xsd:complexType CoreDataTypeType**

```

<xsd:complexType name="CoreDataTypeType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="CoreDataTypeContentComponent"/>
    <xsd:element ref="CoreDataTypeSupplementaryComponent" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

401 The CoreDataTypeType defines the elements necessary to convey all relevant
402 information about a CDT.

403 **6.3.4.27 xsd:complexType CoreDataTypeContentComponentType**

```

<xsd:complexType name="CoreDataTypeContentComponentType">
  <xsd:sequence>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="CoreValueDomain" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>

```

404 The CoreDataTypeContentComponentType defines the elements necessary to
 405 convey all relevant information about a CDT Content Component.

406 **6.3.4.28 xsd:complexType CoreDataTypeSupplementaryComponentType**

```
<xsd:complexType name="CoreDataTypeSupplementaryComponentType">
  <xsd:sequence>
    <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
    <xsd:element name="PropertyTerm" type="TextType_568D06"/>
    <xsd:element name="RepresentationTerm" type="TextType_568D06"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element ref="Cardinality"/>
    <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="CoreValueDomain" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

407 The CoreDataTypeSupplementaryComponentType defines the elements necessary
 408 to convey all relevant information about an CDT Supplementary Component.

409 **6.3.4.29 xsd:complexType CoreValueDomainType**

```
<xsd:complexType name="CoreValueDomainType">
  <xsd:sequence>
    <xsd:element name="DefaultIndicator" type="IndicatorType_CD0DC6"/>
    <xsd:element name="DefaultValue" type="TextType_568D06" minOccurs="0"/>
    <xsd:element name="DefaultValueSource" type="TextType_568D06" minOccurs="0"/>
    <xsd:choice>
      <xsd:element ref="Primitive" minOccurs="0"/>
      <xsd:element name="CoreCodeListUID" type="IDType_655749" minOccurs="0"/>
      <xsd:element name="CodeIdentifierSchemeUID" type="IDType_655749"
minOccurs="0"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

410 The CoreValueDomainType defines the elements necessary to convey all relevant
 411 information about a Core Value Domain.

412 **6.3.4.30 xsd:complexType DataTypeType**

```
<xsd:complexType name="DataTypeType">
  <xsd:sequence>
    <xsd:element ref="CoreDataType" minOccurs="0" maxOccurs="unbounded"/>
    <xsd:element ref="BusinessDataType" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

413 The DataTypeType defines the elements necessary to point to a CDT or BDT.

414 **6.3.4.31 xsd:complexType DomainRestrictionType**

```
<xsd:complexType name="DomainRestrictionType">
  <xsd:sequence>
    <xsd:element name="FacetLanguage" type="TextType_568D06" minOccurs="0"/>
    <xsd:element name="FacetValue" type="ValueType_677794" minOccurs="0"/>
    <xsd:element ref="Facet" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```


415 The DomainRestrictionType defines the elements necessary to convey all relevant
416 information about facet restrictions on a given value domain.

417 **6.3.4.32 xsd:complexType FacetType**

```
<xsd:complexType name="FacetType">
  <xsd:sequence>
    <xsd:element name="FacetType" type="CodeType_ED40BA"/>
    <xsd:element name="Name" type="NameType_ADAD10"/>
    <xsd:element name="Description" type="TextType_568D06"/>
  </xsd:sequence>
</xsd:complexType>
```

418 The FacetType defines the elements necessary to convey relevant information about
419 a facet.

420 **6.3.4.33 xsd:complexType IdentificationMetadataType**

```
<xsd:complexType name="IdentificationMetadataType">
  <xsd:sequence>
    <xsd:element name="Name" type="TextType_568D06" minOccurs="0"/>
    <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element ref="LocalizedMetadata" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

421 The IdentificationMetadataType defines the elements necessary to convey relevant
422 information about identification metadata.

423 **6.3.4.34 xsd:complexType IdentifierSchemeType**

```
<xsd:complexType name="IdentifierSchemeType">
  <xsd:sequence>
    <xsd:element name="ID" type="IDType_655749"/>
    <xsd:element name="AgencyID" type="IDType_655749"/>
    <xsd:element name="ModificationAllowedIndicator" type="IndicatorType_CD0DC6"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
  </xsd:sequence>
</xsd:complexType>
```

424 The IdentifierSchemeType defines the elements necessary to convey all relevant
425 information about an identifier scheme.

426 **6.3.4.35 xsd:complexType LocalizedInformationType**

```
<xsd:complexType name="LocalizedInformationType">
  <xsd:sequence>
    <xsd:element name="LanguageCode" type="CodeType_ED40BA"/>
    <xsd:element name="OtherLanguageDEN" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="OtherLanguageDefinition" type="TextType_568D06"/>
    <xsd:element name="OtherLanguageBusinessTerm" type="TextType_568D06"
minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
```

427 The LocalizedInformationType defines the elements necessary to convey relevant
428 localized information about an artefact.

429 **6.3.4.36 xsd:complexType LocalizedMetadataType**

```
<xsd:complexType name="LocalizedMetadataType">
  <xsd:sequence>
```

```

<xsd:element name="LanguageCode" type="CodeType_2A09AC"/>
<xsd:element name="Name" type="TextType_568D06" minOccurs="0"/>
<xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>

```

430 The LocalizedMetadataType defines the elements necessary to convey relevant
431 localized metadata information about an artefact.

432 6.3.4.37 xsd:complexType PackageType

```

<xsd:complexType name="PackageType">
<xsd:sequence>
<xsd:element name="PackageUID" type="IDType_655749"/>
<xsd:element name="Name" type="NameType_ADAD10" minOccurs="0"/>
<xsd:element ref="AggregateBusinessInformationEntity" minOccurs="0"
maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>

```

433 The PackageType defines the elements necessary to convey information about a
434 collection of semantically unique ABIEs in a given context.

435 6.3.4.38 xsd:complexType PrimitiveType

```

<xsd:complexType name="PrimitiveType">
<xsd:sequence>
<xsd:element name="PrimitiveType" type="CodeType_ED40BA"/>
<xsd:element name="Name" type="NameType_ADAD10"/>
<xsd:element name="Description" type="TextType_568D06"/>
<xsd:element ref="Facet" minOccurs="0" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>

```

436 The PrimitiveType defines the elements necessary to convey all relevant information
437 about a primitive type.

438 6.3.4.39 xsd:complexType RestrictedPrimitiveType

```

<xsd:complexType name="RestrictedPrimitiveType">
<xsd:sequence>
<xsd:element name="PrimitiveType" type="CodeType_ED40BA"/>
<xsd:element name="PrimitiveName" type="NameType_ADAD10"/>
<xsd:element name="PrimitiveDescription" type="TextType_568D06"/>
<xsd:element name="Facet" type="FacetType" minOccurs="0" maxOccurs="unbounded"/>
<xsd:element ref="Restriction" maxOccurs="unbounded"/>
</xsd:sequence>
</xsd:complexType>

```

439 The RestrictedPrimitiveType defines the elements necessary to convey all relevant
440 information about the restriction of a primitive type.

441 6.3.4.40 xsd:complexType RestrictionType

```

<xsd:complexType name="RestrictionType">
<xsd:sequence>
<xsd:element name="RestrictionType" type="CodeType_ED40BA"/>
<xsd:element name="RestrictionName" type="NameType_ADAD10"/>
<xsd:element name="RestrictionDescription" type="TextType_568D06"
minOccurs="0"/>
</xsd:sequence>
</xsd:complexType>

```

442 The RestrictionType defines the elements necessary to convey relevant information
443 about a restriction for an artefact.

444 **6.3.4.41 xsd:complexType UsageRuleType**

```
<xsd:complexType name="UsageRuleType">
  <xsd:sequence>
    <xsd:element name="UniqueID" type="IDType_655749"/>
    <xsd:element name="Constraint" type="TextType_568D06"/>
    <xsd:element name="ContrainType" type="CodeType_ED40BA"/>
    <xsd:element name="ConditionType" type="CodeType_ED40BA"/>
    <xsd:element ref="IdentificationMetadata" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
```

445 The UsageRuleType defines the elements necessary to convey all relevant
446 information about a usage rule.

447 **6.3.4.42 xsd:complexType ValueDomainType**

```
<xsd:complexType name="ValueDomainType">
  <xsd:sequence>
    <xsd:element name="DefaultIndicator" type="IndicatorType_CD0DC6"/>
    <xsd:element name="DefaultValue" type="TextType_568D06" minOccurs="0"/>
    <xsd:element name="DefaultValueSource" type="TextType_568D06" minOccurs="0"/>
    <xsd:choice>
      <xsd:element name="Primitive" type="RestrictedPrimitiveType" minOccurs="0"/>
      <xsd:element name="SchemeOrListUID" type="IDType_655749" minOccurs="0"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
```

448 The ValueDomainType defines the elements necessary to convey relevant
449 information about a value domain.

450

451 **7 Defining CCTS Artefacts**

452 This section shows how to define CCTS artefacts in XML using the XML for CCTS
 453 Schema. The instances that validate against the XML For CCTS Schema are
 454 definitions of the CCTS artefacts and represent fully conformant CCTS artefacts.

455 **7.1 Expression of CCTS Artefacts**

456 CCTS artefacts consist of Core Components, Business Information Entities, and
 457 Data Types. Each artifact is defined in terms of its expression in the XML For CCTS
 458 Schema and supporting BIE Schema and BDT Schema.

459 **7.2 Core Component Technical Specification Definition**460 **7.2.1 CoreComponentTechnicalSpecificationDefinition Element**

461 The root element in an instance is the
 462 CoreComponentTechnicalSpecificationDefinition. Only the
 463 CoreComponentTechnicalSpecificationDefinition element is allowed to be
 464 used as the root element.

[R C705]	The root element in an XML For CCTS Instance MUST be the CoreComponentTechnicalSpecificationDefinition element.
----------	---

465 **Example 6-1: Top level CoreComponentTechnicalSpecificationDefinition Instance**

```

466 <CoreComponentTechnicalSpecificationDefinition
467   xsi:schemaLocation="urn:un:unece:uncefact:ccl:draft:xml4ccts:3
468   ../uncefact/data/cclrepository/0/draft/XMLForCCTS.xsd"
469   xmlns="urn:un:unece:uncefact:ccl:draft:xml4ccts:3"
470   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
471   <CoreComponent>
472     ...
473   </CoreComponent>
474   <BusinessInformationEntity>
475     ...
476   </BusinessInformationEntity>
477   <DataType>
478     ...
479   </DataType>
480   <BusinessContext>
481     ...
482   </BusinessContext>
483   <UsageRule>
484     ...
485   </UsageRule>
486   <IdentifierScheme>
487     ...
488   </IdentifierScheme>
489   <CodeList>
490     ...
491   </CodeList>
492 </CoreComponentTechnicalSpecificationDefinition>
493 </xsd:schema>

```

494 A valid instance of CoreComponentTechnicalSpecificationDefinition may contain
 495 CoreComponent, BusinessInformationEntity, BusinessContext, UsageRule,
 496 IdentifierScheme and CodeList elements and their allowed content will follow in this

497 sequence as defined in the XML For CCTS Schema. Each child element is optional
498 and may or may not occur in an individual instance to meet the requirements of the
499 individual use case. However at least one child element must occur in an instance.

500 **Appendix A. XSD Schema**

501 This appendix contains the normative XSD Schema for XMLForCCTS.XSD,
502 BIE.XSD and BDT.XSD.

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A.1 – XMLForCCTS.XSD505
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<?xml version="1.0" encoding="UTF-8"?>
<!-- ===== -->
<!-- ===== XML4CCTS XML Schema File ===== -->
<!-- -->
<!-- ===== -->
<!--
Schema agency:    UN/CEFACT
Schema version:   3.0
Schema date:      29 August 2010

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BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL
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FITNESS FOR A PARTICULAR PURPOSE.
-->
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:un:unece:unefact:ccl:draft:xml4ccts:3"
targetNamespace="urn:un:unece:unefact:ccl:draft:xml4ccts:3" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="3.0">
  <!-- ===== -->
  <!-- ===== Include ===== -->
  <!-- ===== -->
  <!-- ===== Inclusion of context category BIE XML Schema File ===== -->
  <!-- ===== -->
  <xsd:include schemaLocation="BusinessInformationEntity.xsd"/>
  <!-- ===== -->
  <!-- ===== Root element ===== -->
  <!-- ===== -->
  <!-- ---->
  <xsd:element name="CoreComponentTechnicalSpecificationDefinition"
type="CoreComponentTechnicalSpecificationDefinitionType"/>
  <!-- ===== -->
  <!-- ===== Type Definitions ===== -->
  <!-- ===== -->
  <!-- ===== Type Definition: CCTSDefinition Type ===== -->
  <!-- ===== -->
  <xsd:complexType name="CoreComponentTechnicalSpecificationDefinitionType">
    <xsd:sequence>
      <xsd:element ref="CoreComponent" minOccurs="0"/>
      <xsd:element ref="BusinessInformationEntity" minOccurs="0"/>
      <xsd:element ref="DataType" minOccurs="0"/>
      <xsd:element ref="BusinessContext" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element ref="UsageRule" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element ref="IdentifierScheme" minOccurs="0" maxOccurs="unbounded"/>
      <xsd:element ref="CodeList" minOccurs="0" maxOccurs="unbounded"/>
    </xsd:sequence>
  </xsd:complexType>
</xsd:schema>

```

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A.2 – BIE.XSD

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```

<?xml version="1.0" encoding="UTF-8"?>
<!-- ===== BusinessInformationEntity XML Schema File ===== -->
<!-- ===== -->
<!--
Schema agency:    UN/CEFACT
Schema version:   3.0
Schema date:      29 August 2010

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NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR
FITNESS FOR A PARTICULAR PURPOSE.
-->
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns="urn:un:unece:unefact:ccl:draft:xml4ccts:3"
targetNamespace="urn:un:unece:unefact:ccl:draft:xml4ccts:3" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="3.0">
  <!-- ===== Include ===== -->
  <!-- ===== -->
  <xsd:include schemaLocation="BusinessDataType.xsd"/>
  <!-- ===== Imports ===== -->
  <!-- ===== -->
  <!-- ===== Elements ===== -->
  <!-- ===== -->
  <xsd:element name="AggregateBusinessInformationEntity"
type="AggregateBusinessInformationEntityType"/>
  <xsd:element name="AggregateCoreComponent" type="AggregateCoreComponentType"/>
  <xsd:element name="AssociationBusinessInformationEntity"
type="AssociationBusinessInformationEntityType"/>
  <xsd:element name="AssociationBusinessInformationEntityProperty"
type="AssociationBusinessInformationEntityPropertyType"/>
  <xsd:element name="AssociationCoreComponent" type="AssociationCoreComponentType"/>
  <xsd:element name="AssociationCoreComponentProperty"
type="AssociationCoreComponentPropertyType"/>
  <xsd:element name="BasicBusinessInformationEntity"
type="BasicBusinessInformationEntityType"/>
  <xsd:element name="BasicBusinessInformationEntityProperty"
type="BasicBusinessInformationEntityPropertyType"/>
  <xsd:element name="BasicCoreComponent" type="BasicCoreComponentType"/>
  <xsd:element name="BasicCoreComponentProperty" type="BasicCoreComponentPropertyType"/>
  <xsd:element name="BusinessContext" type="BusinessContextType"/>
  <xsd:element name="BusinessDataType" type="BusinessDataTypeType"/>
  <xsd:element name="BusinessDataTypeContentComponent"
type="BusinessDataTypeContentComponentType"/>
  <xsd:element name="BusinessDataTypeSupplementaryComponent"
type="BusinessDataTypeSupplementaryComponentType"/>
  <xsd:element name="BusinessInformationEntity" type="BusinessInformationEntityType"/>
  <xsd:element name="BusinessProperty" type="BusinessPropertyType"/>
  <xsd:element name="BusinessValueDomain" type="BusinessValueDomainType"/>

```



```

644 <xsd:element name="Cardinality" type="CardinalityType"/>
645 <xsd:element name="ClassificationScheme" type="ClassificationSchemeType"/>
646 <xsd:element name="CodeList" type="CodeListType"/>
647 <xsd:element name="CodeLocalizedMetadata" type="CodeLocalizedMetadataType"/>
648 <xsd:element name="CodeValueContent" type="CodeValueContentType">
649   <xsd:annotation>
650     <xsd:documentation>The scheme support detailing the full set of values for a code
651     list. It also supports only providing the meta data of a code list.</xsd:documentation>
652   </xsd:annotation>
653 </xsd:element>
654 <xsd:element name="Context" type="ContextType"/>
655 <xsd:element name="ContextValue" type="ContextValueType"/>
656 <xsd:element name="CoreComponent" type="CoreComponentType"/>
657 <xsd:element name="CoreDataType" type="CoreDataTypeType"/>
658 <xsd:element name="CoreDataTypeContentComponent" type="CoreDataTypeContentComponentType"/>
659 <xsd:element name="CoreDataTypeSupplementaryComponent"
660 type="CoreDataTypeSupplementaryComponentType"/>
661 <xsd:element name="CoreValueDomain" type="CoreValueDomainType"/>
662 <xsd:element name="DataType" type="DataTypeType"/>
663 <xsd:element name="DomainRestriction" type="DomainRestrictionType"/>
664 <xsd:element name="Facet" type="FacetType"/>
665 <xsd:element name="IdentificationMetadata" type="IdentificationMetadataType"/>
666 <xsd:element name="IdentifierScheme" type="IdentifierSchemeType"/>
667 <xsd:element name="LocalizedInformation" type="LocalizedInformationType"/>
668 <xsd:element name="LocalizedMetadata" type="LocalizedMetadataType"/>
669 <xsd:element name="Package" type="PackageType"/>
670 <xsd:element name="Primitive" type="PrimitiveType"/>
671 <xsd:element name="Restriction" type="RestrictionType"/>
672 <xsd:element name="RestrictedPrimitive" type="RestrictedPrimitiveType"/>
673 <xsd:element name="UsageRule" type="UsageRuleType"/>
674 <xsd:element name="ValueDomain" type="ValueDomainType"/>
675 <!-- ===== -->
676 <!-- ===== Types ===== -->
677 <!-- ===== -->
678 <xsd:complexType name="AggregateBusinessInformationEntityType">
679   <xsd:sequence>
680     <xsd:element name="UniqueID" type="IDType_655749"/>
681     <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
682     <xsd:element name="Definition" type="TextType_568D06"/>
683     <xsd:element name="ObjectClassTermQualifier" type="TextType_568D06" minOccurs="0"
684 maxOccurs="unbounded"/>
685     <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
686     <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
687 maxOccurs="unbounded"/>
688     <xsd:element name="BusinessContextUID" type="IDType_655749"/>
689     <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
690 maxOccurs="unbounded"/>
691     <xsd:element name="VersionID" type="IDType_655749"/>
692     <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
693     <xsd:element name="BasedOnAggregateCoreComponentUID" type="IDType_655749"/>
694     <xsd:choice maxOccurs="unbounded">
695       <xsd:element ref="BasicBusinessInformationEntity" minOccurs="0"/>
696       <xsd:element ref="AssociationBusinessInformationEntity" minOccurs="0"/>
697     </xsd:choice>
698   </xsd:sequence>
699 </xsd:complexType>
700 <xsd:complexType name="AggregateCoreComponentType">
701   <xsd:sequence>
702     <xsd:element name="UniqueID" type="IDType_655749"/>
703     <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
704     <xsd:element name="Definition" type="TextType_568D06"/>
705     <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
706     <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
707 maxOccurs="unbounded"/>
708     <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
709 maxOccurs="unbounded"/>
710     <xsd:element name="VersionID" type="IDType_655749"/>
711     <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
712     <xsd:choice maxOccurs="unbounded">
713       <xsd:element ref="BasicCoreComponent" minOccurs="0"/>
714       <xsd:element ref="AssociationCoreComponent" minOccurs="0"/>
715     </xsd:choice>
716   </xsd:sequence>
717 </xsd:complexType>
718 <xsd:complexType name="AssociationBusinessInformationEntityType">

```

```

719     <xsd:sequence>
720         <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
721         <xsd:element name="Definition" type="TextType_568D06"/>
722         <xsd:element name="ObjectClassTermQualifier" type="TextType_568D06" minOccurs="0"
723 maxOccurs="unbounded"/>
724         <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
725         <xsd:element name="PropertyTermQualifier" type="TextType_568D06" minOccurs="0"
726 maxOccurs="unbounded"/>
727         <xsd:element name="PropertyTerm" type="TextType_568D06"/>
728         <xsd:element name="AssociatedObjectClassTermQualifier" type="TextType_568D06"
729 minOccurs="0" maxOccurs="unbounded"/>
730         <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06"/>
731         <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
732 maxOccurs="unbounded"/>
733         <xsd:element ref="Cardinality"/>
734         <xsd:element name="BusinessContextUID" type="IDType_655749"/>
735         <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
736 maxOccurs="unbounded"/>
737         <xsd:element name="AssociationType" type="CodeType_ED40BA"/>
738         <xsd:element name="SequencingKeyOrdinal" type="OrdinalType_PQALZM"/>
739         <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
740         <xsd:element name="AssociationBusinessInformationEntityPropertyUID"
741 type="IDType_655749"/>
742         <xsd:element name="BasedOnAssociatedCoreComponentUID" type="IDType_655749"/>
743     </xsd:sequence>
744 </xsd:complexType>
745 <xsd:complexType name="AssociationBusinessInformationEntityPropertyType">
746     <xsd:sequence>
747         <xsd:element name="UniqueID" type="IDType_655749"/>
748         <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
749         <xsd:element name="Definition" type="TextType_568D06"/>
750         <xsd:element name="PropertyTermQualifier" type="TextType_568D06" minOccurs="0"
751 maxOccurs="unbounded"/>
752         <xsd:element name="PropertyTerm" type="TextType_568D06"/>
753         <xsd:element name="AssociatedObjectClassTermQualifier" type="TextType_568D06"
754 minOccurs="0" maxOccurs="unbounded"/>
755         <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06" maxOccurs="11"/>
756         <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
757 maxOccurs="unbounded"/>
758         <xsd:element name="VersionID" type="IDType_655749"/>
759         <xsd:element name="LocalizedInformation" type="LocalizedInformationType"
760 minOccurs="0" maxOccurs="unbounded"/>
761     </xsd:sequence>
762 </xsd:complexType>
763 <xsd:complexType name="AssociationCoreComponentPropertyType">
764     <xsd:sequence>
765         <xsd:element name="UniqueID" type="IDType_655749"/>
766         <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
767         <xsd:element name="Definition" type="TextType_568D06"/>
768         <xsd:element name="PropertyTerm" type="TextType_568D06"/>
769         <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06"/>
770         <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
771 maxOccurs="unbounded"/>
772         <xsd:element name="VersionID" type="IDType_655749"/>
773         <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
774     </xsd:sequence>
775 </xsd:complexType>
776 <xsd:complexType name="AssociationCoreComponentType">
777     <xsd:sequence>
778         <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
779         <xsd:element name="Definition" type="TextType_568D06"/>
780         <xsd:element name="ObjectClassTerm" type="TextType_568D06"/>
781         <xsd:element name="PropertyTerm" type="TextType_568D06"/>
782         <xsd:element name="AssociatedObjectClassTerm" type="TextType_568D06"/>
783         <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
784 maxOccurs="unbounded"/>
785         <xsd:element name="Cardinality" type="CardinalityType"/>
786         <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
787 maxOccurs="unbounded"/>
788         <xsd:element name="AssociationType" type="CodeType_ED40BA"/>
789         <xsd:element name="SequencingKeyOrdinal" type="OrdinalType_PQALZM"/>
790         <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
791         <xsd:element name="AssociationCoreComponentPropertyUID" type="IDType_655749"/>
792     </xsd:sequence>
793 </xsd:complexType>

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</xsd:complexType>
<xsd:complexType name="BusinessInformationEntityType">
  <xsd:sequence>
    <xsd:element ref="Package" minOccurs="0"/>
    <xsd:element ref="BusinessProperty" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="BusinessPropertyType">
  <xsd:sequence>
    <xsd:element ref="AssociationBusinessInformationEntityProperty" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element ref="BasicBusinessInformationEntityProperty" minOccurs="0"
maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="BusinessValueDomainType">
  <xsd:sequence>
    <xsd:element name="DefaultIndicator" type="IndicatorType_CD0DC6"/>
    <xsd:element name="DefaultValue" type="TextType_568D06" minOccurs="0"/>
    <xsd:element name="DomainRestriction" type="DomainRestrictionType" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="BusinessContextUID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:element name="UsageRuleUID" type="IDType_655749" minOccurs="0"
maxOccurs="unbounded"/>
    <xsd:choice>
      <xsd:element ref="Primitive" minOccurs="0"/>
      <xsd:element name="BusinessCodeListUID" type="IDType_655749" minOccurs="0"/>
      <xsd:element name="BusinessIdentificationSchemeUID" type="IDType_655749"
minOccurs="0"/>
    </xsd:choice>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CardinalityType">
  <xsd:sequence>
    <xsd:element name="MinimumOccurrenceValue" type="ValueType_677794"/>
    <xsd:element name="MaximumOccurrenceValue" type="MaximumCardinalityValueType_8D0182"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ClassificationSchemeType">
  <xsd:sequence>
    <xsd:element name="ContextCategory" type="TextType_568D06"/>
    <xsd:element name="Definition" type="TextType_568D06"/>
    <xsd:element name="Hierarchy" type="TextType_568D06"/>
    <xsd:element name="Name" type="NameType_ADAD10"/>
    <xsd:element name="Owner" type="TextType_568D06"/>
    <xsd:element name="PrimitiveType" type="CodeType_ED40BA"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CodeListType">
  <xsd:sequence>
    <xsd:element name="ID" type="IDType_655749"/>
    <xsd:element name="AgencyID" type="IDType_655749"/>
    <xsd:element name="ModificationAllowedIndicator" type="IndicatorType_CD0DC6"/>
    <xsd:element name="VersionID" type="IDType_655749"/>
    <xsd:element ref="CodeValueContent" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CodeLocalizedMetadataType">
  <xsd:sequence>
    <xsd:element name="LanguageCode" type="CodeType_2A09AC"/>
    <xsd:element name="Name" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06" minOccurs="0"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="CodeValueContentType">
  <xsd:sequence>
    <xsd:element name="Value" type="ValueType_D39AEF"/>
    <xsd:element name="Name" type="NameType_ADAD10" minOccurs="0"/>
    <xsd:element name="Definition" type="TextType_568D06" minOccurs="0"/>
    <xsd:element ref="CodeLocalizedMetadata" minOccurs="0" maxOccurs="unbounded"/>
  </xsd:sequence>
</xsd:complexType>
<xsd:complexType name="ContextType">
  <xsd:sequence>

```

```

101      <xsd:element name="ContextValue" type="ContextValueType" maxOccurs="unbounded"/>
102    </xsd:sequence>
103  </xsd:complexType>
104  <xsd:complexType name="ContextValueType">
105    <xsd:sequence>
106      <xsd:element name="ClassificationScheme" type="ClassificationSchemeType"/>
107      <xsd:element name="Value" type="ValueType_C14BE1"/>
108      <xsd:element name="Meaning" type="TextType_568D06"/>
109    </xsd:sequence>
110  </xsd:complexType>
111  <xsd:complexType name="CoreComponentType">
112    <xsd:sequence>
113      <xsd:element ref="AggregateCoreComponent" minOccurs="0" maxOccurs="unbounded"/>
114      <xsd:element ref="AssociationCoreComponentProperty" minOccurs="0"
115maxOccurs="unbounded"/>
116      <xsd:element ref="BasicCoreComponentProperty" minOccurs="0" maxOccurs="unbounded"/>
117    </xsd:sequence>
118  </xsd:complexType>
119  <xsd:complexType name="CoreDataTypeContentComponentType">
120    <xsd:sequence>
121      <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
122      <xsd:element name="Definition" type="TextType_568D06"/>
123      <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
124      <xsd:element name="PropertyTerm" type="TextType_568D06"/>
125      <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
126maxOccurs="unbounded"/>
127      <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
128maxOccurs="unbounded"/>
129      <xsd:element name="VersionID" type="IDType_655749"/>
130      <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
131      <xsd:element ref="CoreValueDomain" maxOccurs="unbounded"/>
132    </xsd:sequence>
133  </xsd:complexType>
134  <xsd:complexType name="CoreDataTypeSupplementaryComponentType">
135    <xsd:sequence>
136      <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
137      <xsd:element name="Definition" type="TextType_568D06"/>
138      <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
139      <xsd:element name="PropertyTerm" type="TextType_568D06"/>
140      <xsd:element name="RepresentationTerm" type="TextType_568D06"/>
141      <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
142maxOccurs="unbounded"/>
143      <xsd:element ref="Cardinality"/>
144      <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
145maxOccurs="unbounded"/>
146      <xsd:element name="VersionID" type="IDType_655749"/>
147      <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
148      <xsd:element ref="CoreValueDomain" maxOccurs="unbounded"/>
149    </xsd:sequence>
150  </xsd:complexType>
151  <xsd:complexType name="CoreDataTypeType">
152    <xsd:sequence>
153      <xsd:element name="UniqueID" type="IDType_655749"/>
154      <xsd:element name="DictionaryEntryName" type="NameType_ADAD10" minOccurs="0"/>
155      <xsd:element name="Definition" type="TextType_568D06"/>
156      <xsd:element name="DataTypeTerm" type="TextType_568D06"/>
157      <xsd:element name="BusinessTerm" type="TextType_568D06" minOccurs="0"
158maxOccurs="unbounded"/>
159      <xsd:element name="UsageRuleID" type="IDType_655749" minOccurs="0"
160maxOccurs="unbounded"/>
161      <xsd:element name="VersionID" type="IDType_655749"/>
162      <xsd:element ref="LocalizedInformation" minOccurs="0" maxOccurs="unbounded"/>
163      <xsd:element ref="CoreDataTypeContentComponent" />
164      <xsd:element ref="CoreDataTypeSupplementaryComponent" maxOccurs="unbounded"/>
165    </xsd:sequence>
166  </xsd:complexType>
167  <xsd:complexType name="CoreValueDomainType">
168    <xsd:sequence>
169      <xsd:element name="DefaultIndicator" type="IndicatorType_CD0DC6"/>
170      <xsd:element name="DefaultValue" type="TextType_568D06" minOccurs="0"/>
171      <xsd:element name="DefaultValueSource" type="TextType_568D06" minOccurs="0"/>
172      <xsd:choice>
173        <xsd:element ref="Primitive" minOccurs="0"/>
174        <xsd:element name="CoreCodeListUID" type="IDType_655749" minOccurs="0"/>
175        <xsd:element name="CodeIdentifierSchemeUID" type="IDType_655749" minOccurs="0"/>

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A.3 – BDT.XSD

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<?xml version="1.0" encoding="UTF-8"?>
<!-- ===== -->
<!-- ===== BDT XML Schema File ===== -->
<!-- -->
<!-- ===== -->
<!--
Schema agency:    UN/CEFACT
Schema version:   3.0
Schema date:      29 August 2010

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NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR
FITNESS FOR A PARTICULAR PURPOSE.
-->
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:common="urn:un:unece:unefact:data:common:l:draft"
xmlns="urn:un:unece:unefact:ccl:draft:xml4ccts:3"
xmlns:clm5639220081107="urn:un:unece:unefact:codelist:common:20081107:draft:5_6392A_20081107D
raftANDR3" xmlns:ccts="urn:un:unece:unefact:documentation:common:3:draft"
targetNamespace="urn:un:unece:unefact:ccl:draft:xml4ccts:3" elementFormDefault="qualified"
attributeFormDefault="unqualified" version="3.0">
  <!--Data Types-->
  <!-- ===== -->
  <!-- ===== Imports ===== -->
  <!-- ===== -->
  <!-- ===== Imports Language Code ===== -->
  <!-- ===== -->
  <xsd:import
namespace="urn:un:unece:unefact:codelist:common:20081107:draft:5_6392A_20081107DraftANDR3"
schemaLocation="..\..\..\..\codelist\common\20081107\draft\5_6392A_20081107DraftANDR3.xsd" />
  <!-- ===== -->
  <!-- ===== -->
  <!--Primitive Types-->
  <!-- ===== -->
  <xsd:simpleType name="BooleanType">
    <xsd:restriction base="xsd:boolean">
      <xsd:pattern value="false"/>
      <xsd:pattern value="true"/>
    </xsd:restriction>
  </xsd:simpleType>
  <xsd:simpleType name="IntegerType">
    <xsd:restriction base="xsd:integer"/>
  </xsd:simpleType>
  <xsd:simpleType name="NonNegativeIntegerType">
    <xsd:annotation>
      <xsd:documentation>Not directly listed as a supported Primitive. However it
implements the specific enumeration of the set of Integers required.</xsd:documentation>
    </xsd:annotation>
    <xsd:restriction base="xsd:nonNegativeInteger"/>
  </xsd:simpleType>
  <xsd:simpleType name="StringType">

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1395 **Appendix B. Use Cases and supporting XML Instance**
1396 **Examples.**

1397 [Note – The use cases and examples will be provided once this specification
1398 completes ODP5]

1399

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