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## UBL NDR 2.0 Checklist

The following checklist constitutes all UBL XML naming and design rules as defined in *UBL Naming and Design Rules version 2.0*, 19 July 2006. The checklist is in alphabetical sequence as follows:

Attribute Declaration Rules (ATD)

Code List Rules (CDL)

ComplexType Definition Rules (CTD)

ComplexType Naming Rules (CTN)

Documentation Rules (DOC)

Element Declaration Rules (ELD)

Element Naming Rules (ELN)

General Naming Rules (GNR)

General Type Definition Rules (GTD)

General XML Schema Rules (GXS)

Instance Document Rules (IND)

Modeling Constraints Rules (MDC)

Naming Constraints Rules (NMC)

Namespace Rules (NMS)

Root Element Declaration Rules (RED)

Schema Structure Modularity Rules (SSM)

Standards Adherence Rules (STA)

Versioning Rules (VER)

### A.1 Attribute Declaration rules

[ATD6]	(See GXS15)
[ATD7]	(See GXS16)
[ATD8]	(See GXS17)

## A.2 Code List rules

[CDL1]	All UBL Codes MUST be part of a UBL or externally maintained Code List.
[CDL2]	The UBL Library SHOULD identify and use external standardized code lists rather than develop its own UBL-native code lists.
[CDL3]	The UBL Library MAY design and use an internal code list where an existing external code list needs to be extended, or where no suitable external code list exists.
[CDL4]	All UBL maintained or used Code Lists MUST be enumerated using the UBL Code List Schema Module.
[CDL5]	The name of each UBL Code List Schema Module MUST be of the form:  {Owning Organization}{Code List Name}{Code List Schema Module}
[CDL6]	An <code>xsd:import</code> element MUST be declared for every code list required in a UBL schema.
[CDL7]	Users of the UBL Library MAY identify any subset they wish from an identified code list for their own trading community conformance requirements.
[CDL8]	The <code>xsd:schemaLocation</code> MUST include the complete URI used to identify the relevant code list schema.
[CDL9]	UBL Code list attribute values SHOULD be set to 'default'.

## A.3 ComplexType Definition rules

[CTD1]	For every class and property identified in the UBL model, a named <code>xsd:complexType</code> MUST be defined.
[CTD2]	Every <code>ccts:ABIE</code> <code>xsd:complexType</code> definition content model MUST

	use the <code>xsd:sequence</code> element containing references to the appropriate global element declarations.
[CTD3]	Every <code>ccts:BBIEProperty</code> <code>xsd:complexType</code> definition content model <b>MUST</b> use the <code>xsd:simpleContent</code> element.
[CTD4]	Every <code>ccts:BBIEProperty</code> <code>xsd:complexType</code> content model <code>xsd:simpleContent</code> element <b>MUST</b> consist of an <code>xsd:extension</code> element.
[CTD5]	Every <code>ccts:BBIEProperty</code> <code>xsd:complexType</code> content model <code>xsd:base</code> attribute value <b>MUST</b> be the UN/CEFACT Unqualified Datatype or UBL qualified Datatype as appropriate.
[CTD6]	For every Qualified Datatype used in the UBL model, a named <code>xsd:complexType</code> or <code>xsd:simpleType</code> <b>MUST</b> be defined.
[CTD20]	A <code>ccts:QualifiedDataType</code> <b>MUST</b> be based on an unqualified data type and add some semantic and/or technical restriction to the unqualified data type.
[CTD21]	The name of a <code>ccts:QualifiedDataType</code> <b>MUST</b> be the name of its base <code>ccts:UnqualifiedDataType</code> with separators and spaces removed and with its qualifier term added.
[CTD22]	<p>Every qualified datatype based on an unqualified datatype <code>xsd:complexType</code> whose supplementary components map directly to the properties of an XSD built-in data type</p> <p><b>MUST</b> be defined as an <code>xsd:simpleType</code></p> <p><b>MUST</b> contain one <code>xsd:restriction</code> element</p> <p><b>MUST</b> include an <code>xsd:base</code> attribute that defines the specific XSD built-in data type required for the content component</p>
[CTD23]	<p>Every qualified datatype based on an unqualified datatype <code>xsd:complexType</code> whose supplementary components do not map directly to the properties of an XSD built-in data type</p> <p><b>MUST</b> be defined as an <code>xsd:complexType</code></p> <p><b>MUST</b> contain one <code>xsd:simpleContent</code> element</p>

	<p>MUST contain one <code>xsd:restriction</code> element</p> <p>MUST include the unqualified datatype as its <code>xsd:base</code> attribute</p>
[CTD24]	<p>Every qualified datatype based on an unqualified datatype <code>xsd:simpleType</code></p> <p>MUST contain one <code>xsd:restriction</code> element</p> <p>MUST include the unqualified datatype as its <code>xsd:base</code> attribute</p>
[CTD25]	<p>For every <code>ccts:BBIEProperty</code> identified in the UBL model a named <code>xsd:complexType</code> must be defined.</p>

## A.4 Complex Type Naming rules

[CTN1]	<p>A UBL <code>xsd:complexType</code> name based on an <code>ccts:Aggregate BusinessInformationEntity</code> MUST be the <code>ccts:Dictionary EntryName</code> with the separators removed and with the “Details” suffix replaced with “Type”.</p>
[CTN2]	<p>A UBL <code>xsd:complexType</code> name based on a <code>ccts:BasicBusiness InformationEntityProperty</code> MUST be the <code>ccts:Dictionary EntryName</code> shared property term and its qualifiers and representation term of the <code>ccts:BasicBusinessInformationEntity</code>, with the separators removed and with the “Type” suffix appended after the representation term.</p>
[CTNX1]	<p>A UBL <code>xsd:complexType</code> name based on a <code>ccts:BasicBusiness InformationEntityProperty</code> and with a <code>ccts:BasicBusiness InformationEntityRepresentationTerm</code> of 'Text' MUST have the word "Text" removed from the end of its name.</p>
[CTNX2]	<p>A UBL <code>xsd:complexType</code> name based on a <code>ccts:BasicBusiness InformationEntityProperty</code> and with a <code>ccts:BasicBusiness InformationEntityRepresentationTerm</code> of 'Identifier' MUST have the word "Identifier" replaced by the word "ID" at the end of its name.</p>
[CTNX3]	<p>A UBL <code>xsd:complexType</code> name based on a <code>ccts:BasicBusiness InformationEntityProperty</code> MUST remove all duplication of words that occur as a result of duplicate property terms and representation terms.</p>

## A.5 Documentation rules

[DOC1]	<p>The xsd:documentation element for every Datatype MUST contain a structured set of annotations in the following sequence and pattern (as defined in CCTS Section 7):</p> <ul style="list-style-type: none"><li>• DictionaryEntryName (mandatory)</li><li>• Version (mandatory):</li><li>• Definition(mandatory)</li><li>• RepresentationTerm (mandatory)</li><li>• QualifierTerm(s) (mandatory, where used)</li><li>• UniqueIdentifier (mandatory)</li><li>• Usage Rule(s) (optional)</li><li>• Content Component Restriction (optional)</li></ul>
[DOC2]	<p>A Datatype definition MAY contain one or more Content Component Restrictions to provide additional information on the relationship between the Datatype and its corresponding Core Component Type. If used the Content Component Restrictions must contain a structured set of annotations in the following patterns:</p> <ul style="list-style-type: none"><li>• RestrictionType (mandatory): Defines the type of format restriction that applies to the Content Component.</li><li>• RestrictionValue (mandatory): The actual value of the format restriction that applies to the Content Component.</li><li>• ExpressionType (optional): Defines the type of the regular expression of the restriction value.</li></ul>
[DOC3]	<p>A Datatype definition MAY contain one or more Supplementary Component Restrictions to provide additional information on the relationship between the Datatype and its corresponding Core Component Type. If used the Supplementary Component Restrictions must contain a structured set of annotations in the following patterns:</p> <ul style="list-style-type: none"><li>• SupplementaryComponentName (mandatory): Identifies the</li></ul>

	<p>Supplementary Component on which the restriction applies.</p> <ul style="list-style-type: none"> <li>• <b>RestrictionValue</b> (mandatory, repetitive): The actual value(s) that is (are) valid for the Supplementary Component</li> </ul>
[DOC4]	<p>The xsd:documentation element for every Basic Business Information Entity <b>MUST</b> contain a structured set of annotations in the following patterns:</p> <ul style="list-style-type: none"> <li>• <b>ComponentType</b> (mandatory): The type of component to which the object belongs. For Basic Business Information Entities this must be “BBIE”.</li> <li>• <b>DictionaryEntryName</b> (mandatory): The official name of a Basic Business Information Entity.</li> <li>• <b>Version</b> (optional): An indication of the evolution over time of the Basic Business Information Entity.</li> <li>• <b>Definition</b>(mandatory): The semantic meaning of a Basic Business Information Entity.</li> <li>• <b>Cardinality</b>(mandatory): Indication whether the Basic Business Information Entity represents a not-applicable, optional, mandatory and/or repetitive characteristic of the Aggregate Business Information Entity.</li> <li>• <b>ObjectClassQualifier</b> (optional): The qualifier for the object class.</li> <li>• <b>ObjectClass</b>(mandatory): The Object Class containing the Basic Business Information Entity.</li> <li>• <b>PropertyTermQualifier</b> (optional): A qualifier is a word or words which help define and differentiate a Basic Business Information Entity.</li> <li>• <b>PropertyTerm</b>(mandatory): Property Term represents the distinguishing characteristic or Property of the Object Class and shall occur naturally in the definition of the Basic Business Information Entity.</li> <li>• <b>RepresentationTerm</b> (mandatory): A Representation Term describes the form in which the Basic Business Information Entity is represented.</li> <li>• <b>DataTypeQualifier</b> (optional): semantically meaningful name that differentiates the Datatype of the Basic Business Information Entity</li> </ul>

	<p>from its underlying Core Component Type.</p> <ul style="list-style-type: none"> <li>• <b>DataType (mandatory):</b> Defines the Datatype used for the Basic Business Information Entity.</li> <li>• <b>AlternativeBusinessTerms (optional):</b> Any synonym terms under which the Basic Business Information Entity is commonly known and used in the business.</li> <li>• <b>Examples (optional):</b> Examples of possible values for the Basic Business Information Entity</li> </ul>
[DOC5]	<p>The xsd:documentation element for every Aggregate Business Information Entity <b>MUST</b> contain a structured set of annotations in the following sequence and pattern:</p> <ul style="list-style-type: none"> <li>• <b>ComponentType (mandatory):</b> The type of component to which the object belongs. For Aggregate Business Information Entities this must be “ABIE”.</li> <li>• <b>DictionaryEntryName (mandatory):</b> The official name of the Aggregate Business Information Entity .</li> <li>• <b>Version (optional):</b> An indication of the evolution over time of the Aggregate Business Information Entity.</li> <li>• <b>Definition(mandatory):</b> The semantic meaning of the Aggregate Business Information Entity.</li> <li>• <b>ObjectClassQualifier (optional):</b> The qualifier for the object class.</li> <li>• <b>ObjectClass(mandatory):</b> The Object Class represented by the Aggregate Business Information Entity.</li> <li>• <b>AlternativeBusinessTerms (optional):</b> Any synonym terms under which the Aggregate Business Information Entity is commonly known and used in the business.</li> </ul>
[DOC6]	<p>The xsd:documentation element for every Association Business Information Entity element declaration <b>MUST</b> contain a structured set of annotations in the following sequence and pattern:</p> <ul style="list-style-type: none"> <li>• <b>ComponentType (mandatory):</b> The type of component to which the object belongs. For Association Business Information Entities this must be “ASBIE”.</li> <li>• <b>DictionaryEntryName (mandatory):</b> The official name of the</li> </ul>

	<p>Association Business Information Entity.</p> <ul style="list-style-type: none"> <li>• Version (optional): An indication of the evolution over time of the Association Business Information Entity.</li> <li>• Definition(mandatory): The semantic meaning of the Association Business Information Entity.</li> <li>• Cardinality(mandatory): Indication whether the Association Business Information Entity represents an optional, mandatory and/or repetitive association.</li> <li>• ObjectClass(mandatory): The Object Class containing the Association Business Information Entity.</li> <li>• PropertyTermQualifier (optional): A qualifier is a word or words which help define and differentiate the Association Business Information Entity.</li> <li>• PropertyTerm(mandatory): Property Term represents the Aggregate Business Information Entity contained by the Association Business Information Entity.</li> <li>• AssociatedObjectClassQualifier (optional): Associated Object Class Qualifiers describe the 'context' of the relationship with another ABIE. That is, it is the role the contained Aggregate Business Information Entity plays within its association with the containing Aggregate Business Information Entity.</li> <li>• AssociatedObjectClass (mandatory); Associated Object Class is the Object Class at the other end of this association. It represents the Aggregate Business Information Entity contained by the Association Business Information Entity.</li> </ul>
[DOC8]	<p>The xsd:documentation element for every Supplementary Component attribute declaration <b>MUST</b> contain a structured set of annotations in the following sequence and pattern:</p> <ul style="list-style-type: none"> <li>• Name (mandatory): Name in the Registry of a Supplementary Component of a Core Component Type.</li> <li>• Definition (mandatory): A clear, unambiguous and complete explanation of the meaning of a Supplementary Component and its relevance for the related Core Component Type.</li> <li>• Primitive type (mandatory): PrimitiveType to be used for the representation of the value of a Supplementary Component.</li> </ul>



	<ul style="list-style-type: none"> <li>• Possible Value(s) (optional): one possible value of a Supplementary Component.</li> </ul>
[DOC9]	<p>The xsd:documentation element for every Supplementary Component attribute declaration containing restrictions MUST include the following additional information appended to the information required by DOC8:</p> <ul style="list-style-type: none"> <li>• Restriction Value(s) (mandatory): The actual value(s) that is (are) valid for the Supplementary Component.</li> </ul>

A.6 Element Declaration rules	
[ELD2]	All element declarations MUST be global
[ELD3]	For every class and property identified in the UBL model, a global element bound to the corresponding <code>xsd:complexType</code> MUST be declared.
[ELD4]	When a <code>ccts:ASBIE</code> is unqualified, it is bound via reference to the global <code>ccts:ABIE</code> element to which it is associated.
[ELD6]	The code list <code>xsd:import</code> element MUST contain the namespace and schema location attributes.
[ELD7]	Empty elements MUST not be declared, except in the case of extension, where the 'UBL Extensions' element is used.
[ELD9]	(See GXS14)
[ELD10]	The root element MUST be the only global element declared in document schemas.
[ELD11]	When a <code>ccts:ASBIE</code> is qualified, a new element MUST be declared and bound to the <code>xsd:complexType</code> of its associated <code>ccts:ABIE</code> .
[ELD12]	The 'UBL Extensions' element MUST be declared as the first child of the document element with <code>xsd:minOccurs="0"</code> .
[ELD13]	The 'UBLProfileID' element MUST be declared immediately following the

	'UBL Extensions' element with <code>xsd:minOccurs="0"</code> .
[ELD14]	The 'UBLSubsetID' element <b>MUST</b> be declared immediately following the 'UBLProfileID' element with <code>xsd:minOccurs="0"</code> .

## A.7 Element Naming rules

[ELN1]	A UBL global element name based on a <code>ccts:ABIE</code> <b>MUST</b> be the same as the name of the corresponding <code>xsd:complexType</code> to which it is bound, with the word "Type" removed.
[ELN2]	A UBL global element name based on a <code>ccts:BBIEProperty</code> <b>MUST</b> be the same as the name of the corresponding <code>xsd:complexType</code> to which it is bound, with the word "Type" removed.
[ELN3]	A UBL global element name based on a <code>ccts:ASBIE</code> <b>MUST</b> be the <code>ccts:ASBIE</code> dictionary entry name property term and its qualifiers; and the object class term and qualifiers of its associated <code>ccts:ABIE</code> . All <code>ccts:DictionaryEntryName</code> separators <b>MUST</b> be removed..

## A.8 General Naming rules

[GNR1]	UBL XML element and type names <b>MUST</b> be in the English language, using the primary English spellings provided in the Oxford English Dictionary.
[GNR2]	UBL XML element and type names <b>MUST</b> be consistently derived from CCTS conformant dictionary entry names.
[GNR3]	UBL XML element and type names constructed from <code>ccts:DictionaryEntryNames</code> <b>MUST NOT</b> include periods, spaces, other separators, or characters not allowed by W3C XML 1.0 for XML names
[GNR4]	UBL XML element, and simple and complex type names <b>MUST NOT</b> use acronyms, abbreviations, or other word truncations, except those in the list of exceptions published in Appendix B.

[GNR5]	Acronyms and abbreviations <b>MUST</b> only be added to the UBL approved acronym and abbreviation list after careful consideration for maximum understanding and reuse.
[GNR6]	The acronyms and abbreviations listed in Appendix B <b>MUST</b> always be used in place of the word or phrase they represent.
[GNR7]	UBL XML element, and type names <b>MUST</b> be in singular form unless the concept itself is plural.
[GNR8]	The UpperCamelCase (UCC) convention <b>MUST</b> be used for naming elements and types.
[GNR10]	Acronyms and abbreviations at the beginning of an attribute name <b>MUST</b> appear in all lower case. All other acronym and abbreviation usage in an attribute declaration <b>MUST</b> appear in upper case.
[GNR11]	Acronyms and abbreviations <b>MUST</b> appear in all upper case for all element declarations and type definitions.

## A.9 General Type Definition Rules

[GTD1]	All types <b>MUST</b> be named.
[GTD2]	The <code>xsd:anyType</code> <b>MUST NOT</b> be used.

## A.10 General XML Schema Rules

[GXS1]	<p>UBL Schema <b>MUST</b> conform to the following physical layout as applicable:</p> <pre>&lt;!-- ===== XML Declaration===== --&gt;  &lt;?xml version="1.0" encoding="UTF-8"?&gt;  &lt;!-- ===== Schema Header ===== --&gt;</pre>
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	<p>Document Name: &lt; Document name as indicated in Section 3.6 &gt;</p> <p>Generated On:     &lt; Date schema was generated &gt;</p> <p>&lt;!-- ===== Copyright Notice ===== --&gt;</p> <p>“Copyright „ 2001-2004 The Organization for the Advancement of Structured Information Standards (OASIS). All rights reserved.</p> <p>&lt;!-- ===== xsd:schema Element With Namespaces Declarations ===== --&gt;</p> <p>xsd:schema element to include version attribute and namespace declarations in the following order:</p> <ul style="list-style-type: none"> <li>xmlns:xsd</li> <li>Target namespace</li> <li>Default namespace</li> <li>CommonAggregateComponents</li> <li>CommonBasicComponents</li> <li>CoreComponentTypes</li> <li>Unspecialized Unqualified Datatypes</li> <li>Specialized Qualified Datatypes</li> <li>Identifier Schemes</li> <li>Code Lists</li> </ul> <p>Attribute Declarations – elementFormDefault=""qualified"" attributeFormDefault=""unqualified""</p> <ul style="list-style-type: none"> <li>Version Attribute</li> </ul> <p>&lt;!-- ===== Imports ===== --&gt;</p> <ul style="list-style-type: none"> <li>CommonAggregateComponents schema module</li> <li>CommonBasicComponents schema module</li> <li>Unspecialized Unqualified Types schema module</li> </ul>
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	<p>Specialized Qualified Types schema module</p> <p>&lt;!-- ===== Global Attributes ===== --&gt;</p> <p>Global Attributes and Attribute Groups</p> <p>&lt;!-- ===== Root Element ===== --&gt;</p> <p>Root Element Declaration</p> <p>Root Element Type Definition</p> <p>&lt;!-- ===== Element Declarations ===== --&gt;</p> <p>alphabetized order</p> <p>&lt;!-- ===== Type Definitions ===== --&gt;</p> <p>All type definitions segregated by basic and aggregates as follows</p> <p>&lt;!-- ===== Aggregate Business Information Entity Type Definitions ===== --&gt;</p> <p>alphabetized order of ccts:AggregateBusinessInformationEntity xsd:TypeDefinitions</p> <p>&lt;!-- ===== Basic Business Information Entity Type Definitions ===== --&gt;</p> <p>alphabetized order of ccts:BasicBusinessInformationEntities</p> <p>&lt;!-- ===== Copyright Notice ===== --&gt;</p> <p>Required OASIS full copyright notice.</p>
[GXS2]	UBL MUST provide two normative schemas for each transaction. One schema shall be fully annotated. One schema shall be a run-time schema devoid of documentation.
[GXS3]	Built-in XSD Simple Types SHOULD be used wherever possible.
[GXS4]	<p>All W3C XML Schema constructs in UBL Schema and schema modules MUST contain the following namespace declaration on the xsd schema element:</p> <p>xmlns:xsd="http://www.w3.org/2001/XMLSchema"</p>

[GXS5]	The <code>xsd:substitutionGroup</code> feature MUST NOT be used.
[GXS6]	The <code>xsd:final</code> attribute MUST be used to control extensions where there is a desire to prohibit further extensions.
[GXS7]	<code>xsd:notation</code> MUST NOT be used.
[GXS8]	The <code>xsd:all</code> element MUST NOT be used.
[GXS9]	The <code>xsd:choice</code> element SHOULD NOT be used where customisation and extensibility are a concern.
[GXS11]	The <code>xsd:union</code> technique MUST NOT be used except for Code Lists. The <code>xsd:union</code> technique MAY be used for Code Lists.
[GXS12]	UBL designed schema SHOULD NOT use <code>xsd:appinfo</code> . If used, <code>xsd:appinfo</code> MUST only be used to convey non-normative information.
[GXS13]	Complex Type extension or restriction MAY be used where appropriate.
[GXS14]	The <code>xsd:any</code> element MUST NOT be used except within the 'ExtensionContentType' type definition, and with <code>xsd:processContents="skip"</code> for non-UBL namespaces.
[GXS15]	Each <code>xsd:schemaLocation</code> attribute declaration MUST contain a system-resolvable URL, which at the time of release from OASIS shall be a relative URL referencing the location of the schema or schema module in the release package.
[GXS16]	The built in <code>xsd:nil</code> attribute MUST NOT be used for any UBL declared element.
[GXS17]	The <code>xsd:anyAttribute</code> MUST NOT be used.

## A.11 Instance document rules

[IND1]	All UBL instance documents MUST validate to a corresponding schema.
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[IND2]	All UBL instance documents MUST identify their character encoding within the XML declaration.
[IND3]	In conformance with ISO/IETF/ITU/UNCEFACT Memorandum of Understanding Management Group (MOUMG) Resolution 01/08 (MOU/MG01n83) as agreed to by OASIS, all UBL XML SHOULD be expressed using UTF-8.
[IND4]	All UBL instance documents MUST contain the following namespace declaration in the root element:  <code>xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</code>
[IND5]	UBL conformant instance documents MUST NOT contain an element devoid of content or null values, except in the case of extension, where the 'UBL Extensions' element is used.
[IND6]	The absence of a construct or data in a UBL instance document MUST NOT carry meaning except in the case of extension, where the 'UBL Extensions' element is used
[IND7]	All UBL instance documents MUST include an element named "UBLVersionID" as the first child of its root element, except in the case of extension, where the 'UBL Extensions' element is used. In the case of extension the 'UBLVersionID' element MUST be the second child of the document element. The value of this 'UBLVersionID' element MUST match the value of the xsd:version attribute of its controlling schema

## A.12 Modelling constraint rules

[MDC1]	UBL Libraries and Schemas MUST only use ebXML Core Component approved <code>ccts:CoreComponentTypes</code> , except in the case of extension, where the 'UBL Extensions' element is used
[MDC2]	Mixed content MUST NOT be used except where contained in an <code>xsd:documentation</code> element

## A.13 Naming constraint rules

[NMC1]	Each dictionary entry name MUST define one and only one fully qualified path (FQP) for an element or attribute.
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## A.14 Namespace Rules

[NMS1]	Every UBL-defined –or -used schema module, except internal schema modules, MUST have a namespace declared using the <code>xsd:targetNamespace</code> attribute.
[NMS2]	Every UBL-defined-or -used major version schema set MUST have its own unique namespace.
[NMS3]	UBL namespaces MUST only contain UBL developed schema modules.
[NMS4]	The namespace names for UBL Schemas holding committee draft status MUST be of the form:  <code>urn:oasis:names:tc:ubl:schema:&lt;subtype&gt;:&lt;document-id&gt;</code>
[NMS5]	The namespace names for UBL Schemas holding OASIS Standard status MUST be of the form:  <code>urn:oasis:names:specification:ubl:schema:&lt;subtype&gt;:&lt;document-id&gt;</code>
[NMS6]	UBL published namespaces MUST never be changed.
[NMS7]	The <code>ubl:CommonAggregateComponents</code> schema module MUST reside in its own namespace.
[NMS8]	The <code>ubl:CommonAggregateComponents</code> schema module namespace MUST be represented by the namespace prefix “cac” when referenced in other schemas.
[NMS9]	The <code>ubl:CommonBasicComponents</code> schema module MUST reside in its own namespace.



[NMS10]	The <code>UBL:CommonBasicComponents</code> schema module namespace MUST be represented by the namespace prefix “cbc” when referenced in other schemas.
[NMS15]	The <code>ubl:QualifiedDatatypes</code> schema module MUST reside in its own namespace.
[NMS16]	The <code>ubl:QualifiedDatatypes</code> schema module namespace MUST be represented by the namespace prefix “qdt” when referenced in other schemas.
[NMS17]	The <code>ccts:UnqualifiedDatatypes</code> schema module namespace MUST be represented by the token “udt” when referenced in other schemas.
[NMS18]	The <code>CommonExtensionComponent</code> schema module namespace MUST be represented by the namespace prefix 'ext' when referenced in other schemas.

## A.15 Root element declaration rules

[RED1]	Every UBL instance document MUST validate to a UBL document schema.
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## A.16 Schema structure modularity rules

[SSM1]	UBL Schema expressions MAY be split into multiple schema modules.
[SSM2]	A document schema in one UBL namespace that is dependent upon type definitions or element declarations defined in another namespace MUST only import the document schema from that namespace.
[SSM3]	A document schema in one UBL namespace that is dependant upon type definitions or element declarations defined in another namespace MUST NOT import internal schema modules from that namespace.
[SSM4]	Imported schema modules MUST be fully conformant with UBL naming and design rules.
[SSM5]	UBL schema modules MUST either be treated as external schema modules or

	as internal schema modules of the document schema.
[SSM6]	All UBL internal schema modules MUST be in the same namespace as their corresponding document schema.
[SSM7]	Each UBL internal schema module MUST be named {ParentSchemaModuleName}{InternalSchemaModuleFunction}{schema module}
[SSM8]	A UBL schema module MAY be created for reusable components.
[SSM9]	A schema module defining all UBL Common Aggregate Components MUST be created.
[SSM10]	The UBL Common Aggregate Components schema module MUST be identified as CommonAggregateComponents in the document name within the schema header.
[SSM11]	A schema module defining all UBLCommon Basic Components MUST be created.
[SSM12]	The UBL Common Basic Components schema module MUST be identified as CommonBasicComponents in the document name within the schema header.
[SSM18]	A schema module defining all UBL Qualified Datatypes MUST be created.
[SSM19]	The UBL Qualified Datatypes schema module MUST be identified as QualifiedDatatypes in the document name in the schema header.
[SSM20]	The UBL Qualified Datatypes schema module MUST import the ccts:UnQualifiedDatatypes schema module.
SSM21	The UBL extensions schema module MUST be identified as CommonExtensionComponents in the document name within the schema header.
<b>A.17 Standards Adherence rules</b>	
[STA1]	All UBL schema design rules MUST be based on the W3C XML Schema Recommendations: XML Schema Part 1: Structures and XML Schema Part

	2: Datatypes.
[STA2]	All UBL schema and messages <b>MUST</b> be based on the W3C suite of technical specifications holding recommendation status.

## A.18 Versioning rules

[VER1]	Every UBL Schema and schema module major version committee draft <b>MUST</b> have an RFC 3121 document-id of the form  <name>-<major>[.<revision>]
[VER2]	Every UBL Schema and schema module major version OASIS Standard <b>MUST</b> have an RFC 3121 document-id of the form  <name>-<major>
[VER3]	Every minor version release of a UBL schema or schema module draft <b>MUST</b> have an RFC 3121 document-id of the form  <name>-<major>[.<revision>]
[VER4]	Every minor version release of a UBL schema or schema module OASIS Standard <b>MUST</b> have an RFC 3121 document-id of the form  <name>-<major >
[VER5]	For UBL Minor version changes the namespace name <b>MUST</b> not change
[VER6]	Every UBL Schema and schema module major version number <b>MUST</b> be a sequentially assigned, incremental number greater than zero.
[VER7]	Every UBL Schema and schema module minor version number <b>MUST</b> be a sequentially assigned, incremental non-negative integer.
[VER8]	A UBL minor version document schema <b>MUST</b> import its immediately preceding version document schema.
[VER9]	UBL Schema and schema module minor version changes <b>MUST</b> be limited to the use of <code>xsd:extension</code> or <code>xsd:restriction</code> to alter existing types

	or add new constructs.
[VER10]	UBL Schema and schema module minor version changes MUST not break semantic compatibility with prior versions.
[VER11]	<p>Every UBL Schema and schema module major version committee draft MUST capture its version number in the <code>xsd:version</code> attribute of the <code>xsd:schema</code> element in the form</p> <p><code>&lt;major&gt;.0[.&lt;revision&gt;]</code></p>
[VER12]	<p>Every UBL Schema and schema module major version OASIS Standard MUST capture its version number in the <code>xsd:version</code> attribute of the <code>xsd:schema</code> element in the form</p> <p><code>&lt;major&gt;.0</code></p>
[VER13]	<p>Every minor version release of a UBL schema or schema module draft MUST capture its version information in the <code>xsd:version</code> attribute in the form</p> <p><code>&lt;major&gt;.&lt;non-zero&gt;[.&lt;revision&gt;]</code></p>
[VER14]	<p>Every minor version release of a UBL schema or schema module OASIS Standard MUST capture its version information in the <code>xsd:version</code> attribute in the form</p> <p><code>&lt;major&gt;.&lt;non-zero&gt;</code></p>
[VER15]	Every UBL document schema MUST include a required element named "UBLVersionID" as the first child of its root element. This element MUST have a default value that matches the value of the <code>xsd:version</code> attribute of its containing schema.

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