

UBL 2.1 Unified Modeling Language (UML) Alternative Representation Version 1.0

Committee Note 01

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The ZIP containing the complete files of this release is found in the directory:

- <http://docs.oasis-open.org/ubl/UBL-2.1-UML/v1.0/cn01/>

Related work:

This note is related to *Universal Business Language Version 2.1*. OASIS Standard.
<http://docs.oasis-open.org/ubl/UBL-2.1.html>.

Abstract:

This Committee Note describes the Universal Business Language version 2.1 common library and document models using the Unified Modeling Language (UML).

Status:

This document was last revised or approved by the UBL TC on the above date. The level of approval is also listed above. Check the current location noted above for possible later revisions of this document.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at <http://www.oasis-open.org/committees/ubl/>.

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See [Appendix A, Release Notes](#) for more information regarding this release package.

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1 Introduction

The OASIS Universal Business Language (UBL) defines a generic XML interchange format for business documents that can be restricted or extended to meet the requirements of particular industries. Specifically, UBL provides the following:

- A suite of structured business objects and their associated semantics expressed as reusable data components and common business documents.
- A library of XML schemas for reusable data components such as “Address”, “Item”, and “Payment”—the common data elements of everyday business documents.
- A set of XML schemas for common business documents such as “Order”, “Despatch Advice”, and “Invoice” that are constructed from the UBL library components and can be used in generic procurement and transportation contexts.

This Committee Note describes the Universal Business Language version 2.1 common library and document models using the Unified Modeling Language (UML).

1.1 Terminology

1.1.1 Terms and Definitions

Document

A set of information components that are exchanged as part of a business transaction; for example, in placing an order.

XSD schema

An XML document definition conforming to the W3C XML Schema language [[XSD1](#)][[XSD2](#)].

The keywords MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD, SHOULD NOT, RECOMMENDED, MAY and OPTIONAL, when they appear in this document, are to be interpreted as described in [[RFC2119](#)].

1.1.2 Symbols and Abbreviations

IEC

International Electrotechnical Commission

ISO

International Organization for Standardization

UML

Unified Modeling Language [[UML](#)]

XML

Extensible Markup Language [[XML](#)]

XSD

W3C XML Schema Language [[XSD1](#)][[XSD2](#)]

1.2 References

[[CCTS](#)] [ISO/TS 15000-5:2005 Electronic Business Extensible Markup Language \(eXML\)— Part 5: eXML Core Components Technical Specification, Version 2.01](#) [<http://www.oasis-open.org/>]

committees/download.php/6232/CEFACT-CCTS-Version-2pt01.zip] (identical to Part 8 of the ebXML Framework)

[RFC2119] *Key words for use in RFCs to Indicate Requirement Levels* [<http://www.faqs.org/rfcs/rfc2119.html>]

[UML] *Unified Modeling Language Version 1.5 (formal/03-03-01)* [<http://www.oasis-open.org/committees/download.php/6240/03-03-01.zip>]

[XML] *Extensible Markup Language (XML) 1.0 (Second Edition), W3C Recommendation 6 October 2000* [<http://www.w3.org/TR/2000/REC-xml-20001006>]

[XSD1] *XML Schema Part 1: Structures. Second Edition. W3C Recommendation 28 October 2004* [<http://www.w3.org/TR/2004/REC-xmlschema-1-20041028/>]

[XSD2] *XML Schema Part 2: Datatypes. Second Edition. W3C Recommendation 28 October 2004* [<http://www.w3.org/TR/2004/REC-xmlschema-2-20041028/>]

2 UML Representation of UBL Document Models

UBL 2.1 continues the practice, adopted at the beginning of the UBL effort, of creating its normative XML specifications using W3C Schema (XSD) syntax. Alternative representations of the same content are generated directly from the XSD and, with the exception of the UBL 2.1 digital signature extension, are intended to implement the same document instance constraints.

Alternative representations of the same content are technically non-normative.

The UBL 2.1 UML provides a series of class diagrams of the UBL common library and document models using Enterprise Architect from [Sparx Systems](http://www.sparxsystems.com/) [http://www.sparxsystems.com/]. The model provided uses a UML profile based on the CCTS [[CCTS](#)] used to define the business information entities from which the normative XSD syntax is derived.

Important note

The artefacts included in this package conform to UBL 2.1 Public Review Draft 3. When this Committee Note is completed the included artefacts will conform to the final UBL 2.1.

Appendix A Release Notes

A.1 Availability

Online and downloadable versions of this release are available from the locations specified at the top of this document.

A.2 Status of this Release

Release of this package to the public marks the beginning of its first public review. The UBL Technical Committee actively solicits input from the user community regarding this release. See [Status](#) at the beginning of this document for procedures to be used in submitting comments to the Committee. Note that in accordance with OASIS policies regarding intellectual property, the UBL TC *cannot* accept input from persons outside the UBL TC (including OASIS members) unless it is submitted via the comment list.

THIS RELEASE IS SUBJECT TO CHANGE. IT IS PROVIDED FOR TESTING PURPOSES ONLY AND SHOULD NOT BE USED FOR PRODUCTION SYSTEMS.

A.3 Package Structure

This OASIS Committee Note is published as a zip archive in the <http://docs.oasis-open.org/ubl/UBL-2.1-UML/v1.0/cn01/> directory. Unzipping this archive creates a directory tree containing a master DocBook XML file (UBL-2.1-UML-v1.0-cn01.xml), a generated hypertext version of this file (UBL-2.1-UML-v1.0-cn01.html), a generated PDF version of this file (UBL-2.1-UML-v1.0-cn01.pdf), and a number of subdirectories. The files in these subdirectories contain the various components of this release. A description of each subdirectory is given below. Note that while the UBL-2.1-UML-v1.0-cn01.xml file is the “original” of this specification, it may not be viewable in all currently available web browsers.

db
DocBook documentation support files

uml
UBL 2.1 UML diagrams

A.4 Support

UBL is a volunteer project of the international business community. Inquiries regarding UBL may be posted to the public ubl-dev list, archives for which are located at

<http://lists.oasis-open.org/archives/ubl-dev/>

Subscriptions to ubl-dev can be made through the OASIS list manager at

<http://www.oasis-open.org/mlmanage/index.php>

OASIS provides an official community gathering place and information resource for UBL at

<http://ubl.xml.org/>

Appendix B Revision History

This is the first release of these UML diagrams.

Appendix C Acknowledgements

The following persons and companies participated as members of the OASIS UBL Technical Committee during the four years of its development (2008–2012).

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