UBL XML Master

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Table of Contents

1. Overview3
2. Structure of the UBL xml3

2.1. Invoice 4

2.2. Levels 4

2.3. Structure of Header level 4

2.4. Structure of Line Level 5

1. Mapping Elements and Detailed Explanation6
2. Data Format25
3. Derivations 25
4. Augmentations 26
5. Additional Logics, Failures and Notes28
6. Information from database29
7. Master Account 30
8. **Overview** - This document describes the structure of UBL xml file that should be used for UBL xml Master map and all additional logics which will be applied for account which is using the UBL xml Master Map
9. **Structure of the UBL xml**

**UBL xml example definition file:**

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**UBL xml example EU file:**

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**UBL xml example US file:**

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**UBL xml example Canada file:**

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**2.1. Invoice –** the UBL Master Map is set to accept 1 invoice per file in main tag **Invoice**

**2.2. Levels**

Header Level starts with the beginning of the document and ends before the main tag **cac:InvoiceLine**

Line Level starts with the first tag **cac:InvoiceLine** and ends with the end of the document

Each Line Item information is provided in separate tag **cac:InvoiceLine** which can occur once or many times (number of occurrence corresponds to the number of Line Items included in the Invoice)

**2.3. Structure of Header level**

Part of the information on Header level is provided in tags which occur only once and another part of the information is provided in tags which can repeat:

Tag **cbc:Note** can occur 0, 1 or many times as it contains additional Invoice information (Invoice detail)

Tag **cac:AdditionalDocumentReference** can occur 0, 1 or many times and it contains information regarding some Invoice Reference and Dates which are recognized based on the Qualifier in tag **cbc:DocumentType** (for the full list of valid Qualifier codes, please refer to **HeaderRefsCodeList in Derivations.xlsx**)

Tag **cac:AllowanceCharge** can occur 0, 1 or many times and it contains Discount or Special Charge information which is recognized based on the Charge Indicator provided in tag **cbc:ChargeIndicator** (for the full list of valid Charge Indicator codes, please refer to **ChargeIndicatorCodeList in Derivations.xlsx**)

Tag **cac:TaxSubtotal**, in **cac:TaxTotal**, in **cac:AllowanceCharge** can occur 0, 1 or many times and it contains information regarding the taxes applied to the Special Charge or Discount in **cac:AllowanceCharge**. – The main tag **cac:TaxTotal** is not mandatory for US and offshore suppliers, and can be skipped when the Supplier’s Country is US or offshore and the supplier doesn’t want to provide tax information for the Special Charge or Discount. Tag **cac:TaxSubtotal**, in **cac:TaxTotal** can be provided more than once in 1 **cac:AllowanceCharge** only for Canadian Suppliers where multiple taxes for 1 line is possible scenario. For the rest cases tag **cac:TaxSubtotal**, in **cac:TaxTotal**, in **cac:AllowanceCharge** should be provided once.

**2.4. Structure of Line Level**

Part of the information on Line level is provided in tags which occur only once and another part of the information is provided in tags which can repeat:

Tag **cbc:Note** can occur 0, 1 or many times as it contains additional Line information (Line detail)

Tag **cac:TaxSubtotal**, in **cac:TaxTotal**, in **cac:InvoiceLine** can occur 0, 1 or many times and it contains information regarding the taxes applied to the Line Item. – The main tag **cac:TaxTotal** is not mandatory for US and offshore suppliers, and can be skipped when the Supplier’s Country is US or offshore and the supplier doesn’t want to provide tax information for the Line Item. Tag **cac:TaxSubtotal**, in **cac:TaxTotal** can be provided more than once in 1 **cac:InvoiceLine** only for Canadian Suppliers where multiple taxes for 1 line is possible scenario. For the rest cases tag **cac:TaxSubtotal**, in **cac:TaxTotal**, in **cac:InvoiceLine** should be provided once.

Tag **cac:AdditionalDocumentReference** can occur 0, 1 or many times and it contains information regarding some Detail Reference and Dates which are recognized based on the Qualifier in tag **cbc:DocumentType** (for the full list of valid Qualifier codes, please refer to **DetailRefsCodeList in Derivations.xlsx**)

1. **Mapping Elements and Detailed Explanation**

|  |  |  |  |
| --- | --- | --- | --- |
| UBL xml Structure | Element Name | Notes | max Length |
| <?xml version="1.0" encoding="UTF-8"?> |  |  |  |
| <Invoice xmlns="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2" xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2" xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2" xmlns:ccts="urn:un:unece:uncefact:documentation:2" xmlns:ds="http://www.w3.org/2000/09/xmldsig#" xmlns:ext="urn:oasis:names:specification:ubl:schema:xsd:CommonExtensionComponents-2" xmlns:qdt="urn:oasis:names:specification:ubl:schema:xsd:QualifiedDatatypes-2" xmlns:ubltr="urn:oasis:names:specification:ubl:schema:xsd:TurkishCustomizationExtensionComponents" xmlns:udt="urn:un:unece:uncefact:data:specification:UnqualifiedDataTypesSchemaModule:2" xmlns:xades="http://uri.etsi.org/01903/v1.3.2#" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2 UBLTR-Invoice-2.0.xsd"> |  |  |  |
| <cbc:ID>InvoiceNumber</cbc:ID> | Invoice Number |  | 35 |
| <cbc:IssueDate>InvoiceDate</cbc:IssueDate> | Invoice Date |  | 10 |
| <cbc:TaxPointDate>TaxPointDate</cbc:TaxPointDate> | Tax Point Date |  | 10 |
| <cbc:InvoiceTypeCode>InvoiceType</cbc:InvoiceTypeCode> | Invoice Type | should be populated with "380" (for Invoice) or "381" (for Credit Note) - if tag is empty or missing the invoice will fail | 10 |
| <cbc:Note>InvoiceDetail1</cbc:Note> | Invoice Detail | can repeat | 1000 |
| <cbc:Note>InvoiceDetail2</cbc:Note> | Invoice Detail | can repeat | 1000 |
| <cbc:Note>InvoiceDetail3</cbc:Note> | Invoice Detail | can repeat | 1000 |
| <cbc:DocumentCurrencyCode>CurrencyCode</cbc:DocumentCurrencyCode> | Currency | valid code from CurrencyCodeList (augmentations) | 5 |
| <cbc:OriginalInvoiceNumber>OriginalInvoiceNumber</cbc:OriginalInvoiceNumber> | Original Invoice Number |  | 35 |
| <cbc:OriginalInvoiceDate>OriginalInvoiceDate</cbc:OriginalInvoiceDate> | Original Invoice Date |  | 10 |
| <cbc:OriginalDeliveryDate>OriginalDeliveryDate</cbc:OriginalDeliveryDate> | Original Delivery Date |  | 10 |
| <cbc:CreditReason>CreditReason</cbc:CreditReason> | Credit Reason |  | 1000 |
| <cac:InvoicePeriod> |  |  |  |
| <cbc:StartDate>StartDate</cbc:StartDate> | Start Date |  | 10 |
| <cbc:EndDate>EndDate</cbc:EndDate> | End Date |  | 10 |
| </cac:InvoicePeriod> |  |  |  |
| <cac:OrderReference> |  |  |  |
| <cbc:ID>PONumber</cbc:ID> | PO Number |  | 35 |
| <cbc:IssueDate>OrderDate</cbc:IssueDate> | Order Date |  | 10 |
| </cac:OrderReference> |  |  |  |
| <cac:DespatchDocumentReference> |  |  |  |
| <cbc:ID>DeliveryNoteNumber</cbc:ID> | Delivery Note Number |  | 35 |
| <cbc:IssueDate>DeliveryDate</cbc:IssueDate> | Delivery Date |  | 10 |
| </cac:DespatchDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>SHIPMENT\_NUMBER</cbc:DocumentType> | SHIPMENT\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ShipmentNumber</cbc:ID> | Shipment Number |  | 1000 |
| <cbc:IssueDate>ShipDate</cbc:IssueDate> | Ship Date |  | 10 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>BUYER\_COST\_CENTER</cbc:DocumentType> | BUYER\_COST\_CENTER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>BuyerCostCenter</cbc:ID> | Buyer Cost Center |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>BILL\_OF\_LADING</cbc:DocumentType> | BILL\_OF\_LADING | valid code from HeaderRefsCodeList |  |
| <cbc:ID>BillOfLading</cbc:ID> | Bill Of Lading |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>CONTRACT\_ID</cbc:DocumentType> | CONTRACT\_ID | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ContractID</cbc:ID> | Contract ID |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>DUNS\_NUMBER</cbc:DocumentType> | DUNS\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>DUNSNumber</cbc:ID> | Dun & Bradstreet Num. |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>INCO\_TERMS</cbc:DocumentType> | INCO\_TERMS | valid code from HeaderRefsCodeList |  |
| <cbc:ID>INCOTerms</cbc:ID> | INCO Terms |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>WBS</cbc:DocumentType> | WBS | valid code from HeaderRefsCodeList |  |
| <cbc:ID>WorkBreakdownStructure</cbc:ID> | Work Breakdown Structure |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>NATURE\_OF\_TAX</cbc:DocumentType> | NATURE\_OF\_TAX | valid code from HeaderRefsCodeList |  |
| <cbc:ID>NatureOfTax</cbc:ID> | Nature Of Tax |  |  |
| </cac:AdditionalDocumentReference> |  |  | 1000 |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>PLACE\_OF\_ISSUE</cbc:DocumentType> | PLACE\_OF\_ISSUE | valid code from HeaderRefsCodeList |  |
| <cbc:ID>PlaceOfIssue</cbc:ID> | Place Of Issue |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>GL\_NUMBER</cbc:DocumentType> | GL\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>GLNumber</cbc:ID> | GL Number |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ACCOUNT\_NUMBER</cbc:DocumentType> | ACCOUNT\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>AccountNumber</cbc:ID> | Account Number |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>UTILITY\_ID</cbc:DocumentType> | UTILITY\_ID | valid code from HeaderRefsCodeList |  |
| <cbc:ID>UtilityID</cbc:ID> | Utility ID |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ESR\_REF</cbc:DocumentType> | ESR\_REF | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ESRReference</cbc:ID> | ESR Customer Ref. |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ESR\_NUMBER</cbc:DocumentType> | ESR\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ESRNumber</cbc:ID> | ESR Customer Num. |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>WEIGHT</cbc:DocumentType> | WEIGHT | valid code from HeaderRefsCodeList |  |
| <cbc:ID>Weight</cbc:ID> | Weight |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>NET\_WEIGHT</cbc:DocumentType> | NET\_WEIGHT | valid code from HeaderRefsCodeList |  |
| <cbc:ID>NetWeight</cbc:ID> | Net Weight |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>GROSS\_WEIGHT</cbc:DocumentType> | GROSS\_WEIGHT | valid code from HeaderRefsCodeList |  |
| <cbc:ID>GrossWeight</cbc:ID> | Gross Weight |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>NUMBER\_OF\_PACKS</cbc:DocumentType> | NUMBER\_OF\_PACKS | valid code from HeaderRefsCodeList |  |
| <cbc:ID>NumberOfPackages</cbc:ID> | Number Of Packages |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>MODE\_OF\_TRANSPORT</cbc:DocumentType> | MODE\_OF\_TRANSPORT | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ModeOfTransport</cbc:ID> | Mode Of Transport |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>EXPECTED\_TIME\_OF\_ARRIVAL</cbc:DocumentType> | EXPECTED\_TIME\_OF\_ARRIVAL | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ExpectedTimeOfArrival</cbc:ID> | Expected Time Of Arrival |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>PORT\_OF\_LOADING</cbc:DocumentType> | PORT\_OF\_LOADING | valid code from HeaderRefsCodeList |  |
| <cbc:ID>PortOfLoading</cbc:ID> | Port Of Loading |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>PORT\_OF\_DISCHARGE</cbc:DocumentType> | PORT\_OF\_DISCHARGE | valid code from HeaderRefsCodeList |  |
| <cbc:ID>PortOfDischarge</cbc:ID> | Port Of Discharge |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>CHARGE\_CATEGORY</cbc:DocumentType> | CHARGE\_CATEGORY | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ChargeCategory</cbc:ID> | Charge Category |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>WITHHOLDING\_TAX\_INDICATOR</cbc:DocumentType> | WITHHOLDING\_TAX\_INDICATOR | valid code from HeaderRefsCodeList |  |
| <cbc:ID>WithholdingTaxIndicator</cbc:ID> | Withhold Tax Indicator | should be populated with "Yes" or "No" | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>LICENSE\_NUMBER</cbc:DocumentType> | LICENSE\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>LicenseNumber</cbc:ID> | License Number |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>CUSTOMS\_DECLARATION\_NUMBER</cbc:DocumentType> | CUSTOMS\_DECLARATION\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>CustomsDeclarationNumber</cbc:ID> | Customs Declaration Number |  | 1000 |
| <cbc:IssueDate>CustomsDeclarationDate</cbc:IssueDate> | Customs Declaration Date |  | 10 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>CUSTOMS\_OFFICE</cbc:DocumentType> | CUSTOMS\_OFFICE | valid code from HeaderRefsCodeList |  |
| <cbc:ID>CustomsOffice</cbc:ID> | Customs Office |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>THIRD\_PARTY\_DELIVERY\_TICKET\_NUMBER</cbc:DocumentType> | THIRD\_PARTY\_DELIVERY\_TICKET\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ThirdPartyDeliveryTicketNumber</cbc:ID> | Third Party Delivery Ticket Number |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>DTR </cbc:DocumentType> | DTR | valid code from HeaderRefsCodeList |  |
| <cbc:ID>Delivery tax registration number </cbc:ID> | Delivery tax registration number |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>END</cbc:DocumentType> | END | valid code from HeaderRefsCodeList |  |
| <cbc:ID>Endorsement</cbc:ID> | Endorsement |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ITC</cbc:DocumentType> | ITC | valid code from HeaderRefsCodeList |  |
| <cbc:ID>Input tax category </cbc:ID> | Input tax category |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>PTRCB </cbc:DocumentType> | PTRCB | valid code from HeaderRefsCodeList |  |
| <cbc:ID>Payable tax on a reverse charge basis </cbc:ID> | Payable tax on a reverse charge basis |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ISDN </cbc:DocumentType> | ISDN | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ISD number </cbc:ID> | ISD number |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>APA </cbc:DocumentType> | APA | valid code from HeaderRefsCodeList |  |
| <cbc:ID>Advanced payment amount </cbc:ID> | Advanced payment amount |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>SERIAL\_NUMBER</cbc:DocumentType> | SERIAL\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>SerialNumber</cbc:ID> | SerialNumber |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>BUYER\_AFFILIATE</cbc:DocumentType> | BUYER\_AFFILIATE | valid code from HeaderRefsCodeList |  |
| <cbc:ID>BuyerAffiliate</cbc:ID> | BuyerAffiliate |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>EXPORT\_NUMBER</cbc:DocumentType> | EXPORT\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ExportNumber</cbc:ID> | ExportNumber |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>TICKET\_NUMBER</cbc:DocumentType> | TICKET\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>TicketNumber</cbc:ID> | TicketNumber |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>TAX\_REGIME</cbc:DocumentType> | TAX\_REGIME | valid code from HeaderRefsCodeList |  |
| <cbc:ID>TaxRegime</cbc:ID> | TaxRegime |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>PEC\_EMAIL</cbc:DocumentType> | PEC\_EMAIL | valid code from HeaderRefsCodeList |  |
| <cbc:ID>PECEmail</cbc:ID> | PECEmail |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>NATURAL\_PERSON\_NAME</cbc:DocumentType> | NATURAL\_PERSON\_NAME | valid code from HeaderRefsCodeList |  |
| <cbc:ID>NaturalPersonName</cbc:ID> | NaturalPersonName |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>NATURAL\_PERSON\_SURNAME</cbc:DocumentType> | NATURAL\_PERSON\_SURNAME | valid code from HeaderRefsCodeList |  |
| <cbc:ID>NaturalPersonSurname</cbc:ID> | NaturalPersonSurname |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>FISCAL\_CODE\_NATURAL\_PERSON </cbc:DocumentType> | FISCAL\_CODE\_NATURAL\_PERSON | valid code from HeaderRefsCodeList |  |
| <cbc:ID>FiscalCodeNaturalPerson</cbc:ID> | FiscalCodeNaturalPerson |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>SUPPLIER\_ORDER\_NUMBER</cbc:DocumentType> | SUPPLIER\_ORDER\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>SupplierOrderNumber</cbc:ID> | SupplierOrderNumber |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| 1<cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ALTERNATIVE\_REFERENCE</cbc:DocumentType> | ALTERNATIVE\_REFERENCE | valid code from HeaderRefsCodeList |  |
| <cbc:ID>AlternativeReference</cbc:ID> | AlternativeReference |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>CAMPAIGN\_NAME</cbc:DocumentType> | CAMPAIGN\_NAME | valid code from HeaderRefsCodeList |  |
| <cbc:ID>CampaignName</cbc:ID> | CampaignName |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>CAMPAIGN\_ID</cbc:DocumentType> | CAMPAIGN\_ID | valid code from HeaderRefsCodeList |  |
| <cbc:ID>CampaignID</cbc:ID> | CampaignID |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>MEDIA\_TYPE</cbc:DocumentType> | MEDIA\_TYPE | valid code from HeaderRefsCodeList |  |
| <cbc:ID>MediaType</cbc:ID> | MediaType |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>INVOICE\_PERIOD</cbc:DocumentType> | INVOICE\_PERIOD | valid code from HeaderRefsCodeList |  |
| <cbc:ID>InvoicePeriod</cbc:ID> | InvoicePeriod |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ADVERTISER\_NAME</cbc:DocumentType> | ADVERTISER\_NAME | valid code from HeaderRefsCodeList |  |
| <cbc:ID>AdvertiserName</cbc:ID> | AdvertiserName |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>ADVERTISER\_BRAND</cbc:DocumentType> | ADVERTISER\_BRAND | valid code from HeaderRefsCodeList |  |
| <cbc:ID>AdvertiserBrand</cbc:ID> | AdvertiserBrand |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>SUPPLIER\_PERMANENT\_ACCOUNT\_NUMBER</cbc:DocumentType> | SUPPLIER\_PERMANENT\_ACCOUNT\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>Supplier Permanent Account Number</cbc:ID> | Supplier Permanent Account Number |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AccountingSupplierParty> | Invoice From Information |  |  |
| <cac:Party> |  |  |  |
| <cac:PartyIdentification> |  |  |  |
| <cbc:ID>SupplierID</cbc:ID> | Supplier ID |  | 15 |
| </cac:PartyIdentification> |  |  |  |
| <cac:PartyName> |  |  |  |
| <cbc:Name>InvoiceFromName</cbc:Name> | Invoice From Name | Invoice From Name and Address will be taken from Database | 80 |
| </cac:PartyName> |  |  |  |
| <cac:PostalAddress> |  |  |  |
| <cbc:StreetName>InvoiceFromAddress1</cbc:StreetName> | Invoice From Street 1 | Invoice From Name and Address will be taken from Database | 55 |
| <cbc:CitySubdivisionName>InvoiceFromAddress2</cbc:CitySubdivisionName> | Invoice From Street 2 | Invoice From Name and Address will be taken from Database | 55 |
| <cbc:CityName>InvoiceFromCity</cbc:CityName> | Invoice From City | Invoice From Name and Address will be taken from Database | 55 |
| <cbc:PostalCode>InvoiceFromPostalCode</cbc:PostalCode> | Invoice From Postal Code | Invoice From Name and Address will be taken from Database | 55 |
| <cbc:State>InvoiceFromState</cbc:State> | Invoice From State | Invoice From Name and Address will be taken from Database | 55 |
| <cac:Country> |  |  |  |
| <cbc:Name>InvoiceFromCountry</cbc:Name> | Invoice From Country | Invoice From Name and Address will be taken from Database | 55 |
| </cac:Country> |  |  |  |
| </cac:PostalAddress> |  |  |  |
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| <cbc:GST>SupplierGSTTaxRegNumber</cbc:GST> | Supplier GST Tax Reg. Num. | Canadian Suppliers | 1000 |
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| <cbc:ElectronicMail>SupplierContactEmail</cbc:ElectronicMail> | Main Supplier Contact Email |  | 80 |
| <cbc:ContactType>MAIN\_SUPPLIER</cbc:ContactType> | MAIN\_SUPPLIER | valid code from SupplierContactTypeCodeList |  |
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| <cbc:LocalCurrencyTaxTotal>LocalCurrencyTaxTotal</cbc:LocalCurrencyTaxTotal> | Local Currency Tax Amount |  | 1000 |
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| <cbc:AllowanceChargeReason>DiscountDescription</cbc:AllowanceChargeReason> | Discount Description |  | 255 |
| <cbc:Amount>DiscountAmount</cbc:Amount> | Discount Amount |  | 35 |
| <cac:TaxTotal> |  |  |  |
| <cac:TaxSubtotal> | Tax Information for Discount | can repeat for Canadian Suppliers |  |
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| <cac:TaxScheme> |  |  |  |
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| <cbc:TaxInclusiveAmount>InvoiceGrossAmount</cbc:TaxInclusiveAmount> | Invoice Gross Amount |  | 35 |
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| <cac:InvoiceLine> | Line Item Information | can repeat |  |
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| <cbc:Note>LineDetail1</cbc:Note> | Line Detail | can repeat | 1000 |
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| <cbc:ID>Month</cbc:ID> | Month |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>WEEK</cbc:DocumentType> | WEEK | valid code from DetailRefsCodeList |  |
| <cbc:ID>Week</cbc:ID> | Week |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>HOURS</cbc:DocumentType> | HOURS | valid code from DetailRefsCodeList |  |
| <cbc:ID>Hours</cbc:ID> | Hours |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>NAME</cbc:DocumentType> | NAME | valid code from DetailRefsCodeList |  |
| <cbc:ID>Name</cbc:ID> | Name |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>LOCATION\_CODE</cbc:DocumentType> | LOCATION\_CODE | valid code from DetailRefsCodeList |  |
| <cbc:ID>LocationCode</cbc:ID> | Location Code |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>APPROVER\_CODE</cbc:DocumentType> | APPROVER\_CODE | valid code from DetailRefsCodeList |  |
| <cbc:ID>ApproverCode</cbc:ID> | Approver Code |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>SHIPMENT\_NUMBER</cbc:DocumentType> | SHIPMENT\_NUMBER | valid code from HeaderRefsCodeList |  |
| <cbc:ID>ShipmentNumber</cbc:ID> | Shipment Number |  | 1000 |
| <cbc:IssueDate>ShipDate</cbc:IssueDate> |  |  |  |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>SERIAL\_NUMBER</cbc:DocumentType> | SERIAL\_NUMBER |  |  |
| <cbc:ID>SerialNumber</cbc:ID> | SerialNumber |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| <cac:AdditionalDocumentReference> |  |  |  |
| <cbc:DocumentType>BOOKING\_REFERENCE</cbc:DocumentType> | BOOKING\_REFERENCE |  |  |
| <cbc:ID>BookingReference</cbc:ID> | BookingReference |  | 1000 |
| </cac:AdditionalDocumentReference> |  |  |  |
| </cac:InvoiceLine> |  |  |  |
| </Invoice> |  |  |  |
|  |  |  |  |

1. **Data Format**

The **date format** for all dates provided in the UBL xml file should be **yyyy-MM-dd**

The **number format** for all amounts provided in the UBL xml file should be period for decimal separator and no thousand separator

1. **Derivations**

The UBL xml Master Map is using standard codes for recognizing the provided information in some of the tags and linking it to internal mapping elements.

**5.1 HeaderRefsCodeList**

Only valid codes from column “Code from file”, in HeaderRefsCodeList (Derivations.xlsx) should be used in tag cbc:DocumentType, in cac:AdditionalDocumentReference, on Header level.

**5.2 SupplierContactTypeCodeList**

Only valid codes from column “Code from file”, in SupplierContactTypeCodeList (Derivations.xlsx) should be used in tag cbc:ContactType, in cac:Contact, in cac:Party, in cac:AccountingSupplierParty on Header level.

**5.3 ChargeIndicatorCodeList**

Only valid codes from column “Code from file”, in ChargeIndicatorCodeList (Derivations.xlsx) should be used in tag cbc:ChargeIndicator, in cac:AllowanceCharge, on Header level.

**5.4 DetailRefSCodeList**

Only valid codes from column “Code from file”, in DetailRefSCodeList (Derivations.xlsx) should be used in tag cbc:DocumentType, in cac:AdditionalDocumentReference, on Line level.

**5.5 InvoiceTypeCodeList**

Only valid codes from column “Code from file”, in InvoiceTypeCodeList (Derivations.xlsx) should be used in tag cbc:InvoiceTypeCode, on Header level.

****

Please note that document Derivations.xlsx will not be updated unless changes in the UBL xml Master Map are made.

If the tags listed above are not populated with valid code from the corresponding table, the information from them won’t be considered and may cause Invoice failure.

1. **Augmentations**

The UBL mxl Master Map is using standard codes for some of the tags so the provided information can be looked up with the standard valid internal Tungsten Codes for some of the mapping elements.

The following Mapping elements have a look up logic applied:

* Currency
* Tax Category
* Unit Of Measure

**6.1 Currency**

Only valid codes from column “Code from file”, in **CurrencyCodeList** (**Augmentations-yyyy-MM-dd.xlsx**) should be used in tag **cbc:DocumentCurrencyCode**, on Header level (**Production Database – table OBX\_CURRENCY, column CODE**). The Internal Tungsten Description provided in CurrencyCodeList (Augmentations-yyyy-MM-dd.xlsx) corresponds to Production Database – table OBX\_CURRENCY, column CURRENCY\_NAME, and can be updated in Augmentations-yyyy-MM-dd.xlsx accordingly.

**6.2 Tax Category**

Only valid codes from column “Code from file”, in **TaxCategoryCodeList** (**Augmentations-yyyy-MM-dd.xlsx**) should be used in tag **cbc:TaxTypeCode**, in cac:TaxScheme, in cac:TaxCategory, in cac:TaxSubtotal, in cac:TaxTotal, in **cac:AllowanceCharge** and tag **cbc:TaxTypeCode**, in cac:TaxScheme, in cac:TaxCategory, in cac:TaxSubtotal, in cac:TaxTotal, in **cac:InvoiceLine** (**Production Database – table OBX\_TAX\_CATEGORY, column CODE**). The Internal Tungsten Description provided in TaxCategoryCodeList (Augmentations-yyyy-MM-dd.xlsx) corresponds to Production Database – table OBX\_TAX\_CATEGORY, column DESCRIPTION, and can be updated in Augmentations-yyyy-MM-dd.xlsx accordingly.

The best practise is to provide TaxCategoryCodeList to the supplier only with codes which are valid for the Supplier’s country.

For example for Supplier from Germany the TaxCategoryCodeList should be provided as below:

|  |  |
| --- | --- |
| Code from file | Internal Tungsten Description |
| DE1 | 16% USt. |
| DE2 | 7% USt. |
| DE3 | Steuerfrei |
| DE4 | Nicht Steuerbar |
| DE5 | 19% USt. |
| DE6 | Wareneinkauf (EU) |
| DE7 | 0% USt - Imports |
| DE8 | Triangulation - 0% (EU) |
| DE9 | Reverse Charge |

**6.3 Unit of measure**

Only valid codes from column “Code from file”, in **UnitOfMeasureCodeList** (**Augmentations-yyyy-MM-dd.xlsx**) should be used in attribute **unitCode**, in tag cbc:InvoicedQuantity (cbc:InvoicedQuantity **unitCode**), in **cac:InvoiceLine** (**Production Database – table OBX\_UNIT\_OF\_MEASURE, column CODE**). The Internal Tungsten Description provided in TaxCategoryCodeList (Augmentations-yyyy-MM-dd.xlsx) corresponds to Production Database – table OBX\_UNIT\_OF\_MEASURE, column DESCRIPTION, and can be updated in Augmentations-yyyy-MM-dd.xlsx accordingly.



Please note that document for the valid augmentation codes contains date in the name (**Augmentations-yyyy-MM-dd.xlsx**) which means that the list is **up to the corresponding date**. The document **has to be updated** before sent to the supplier with the information from the corresponding tables from **Production Database** described above.

If the tags listed above are not populated with valid code from the corresponding table, the invoice will fail due to Validation Policy Error as the provided value will not be looked up to standard valid internal Tungsten Code.

1. **Additional Logics, Failures and Notes**
   1. When **Invoice Type Code** in not provided, the Invoice will fail with Validation Policy Error – “Element 'InvoiceType' contains value 'empty' which is not a valid code.”
   2. When **Delivery Date** is not provided it will be copied from Invoice Date
   3. When **Original** **Delivery Date** is not provided it will be copied from Original Invoice Date
   4. **Line Net Amount** should always be provided (when **Discount Percent** and **Discount Amount** are used on Line level the **Line net Amount** should be equal to (**Quantity** \* **Unit Price**) – **Discount Amount**)
   5. When **Quantity** is not provided it will be output as “1”
   6. When **Unit of measure** is not populated it will be output as EA
   7. When **Unit Price** is not provided it will be copied from Line Net Amount
   8. When **Line Tax Amount** is not provided it can be calculated as **Line Net Amount** \* **Tax Rate** divided by 100 (in this case both Line Net Amount and Tax Rate should be provided)
   9. When **Special Conditions** are populatedthe value can be “01”, “02”or “03”
   10. When **Part Description** and **Part Number** are not provided Supplier Part Description will be output as “Line Item” (for the Line Item)
   11. **Taxable Amount** on Line level will always be copied from Line Net Amount
   12. For the **Discount** – **Unit of measure** will be output as EA, **Line Net Amount** will be always negative, **Unit Price** will be copied from Line Net and output as positive amount, **Quantity** will be output as “-1”, **Line Tax Amount** will always be negative, when **Part Description** and **Part Number** are not provided Supplier Part Description will be output from cbc:ChargeIndicator
   13. For the **Special Charge** – **Unit of measure** will be output as EA, **Line Net Amount** will be always positive, **Unit Price** will be copied from Line Net and output as positive amount, **Quantity** will be output as “1”, **Line Tax Amount** will always be positive, when **Part Description** and **Part Number** are not provided Supplier Part Description will be output from cbc:ChargeIndicator
   14. For the **Rounding Line** – **Unit of measure** will be output as EA, **Line Net Amount** may be positive or negative, **Unit Price** will be copied from Line Net and output as positive amount, **Quantity** will be output as “1”, when **Line Net Amount** and **Invoice Gross Amount** have the same sign, **Quantity** will be output as “-1”, when **Line Net Amount** and **Invoice Gross Amount** have different signs, **Line Tax Amount** should always have the same sign as **Line Net Amount**, when **Part Description** and **Part Number** are not provided Supplier Part Description will be output from cbc:ChargeIndicator
   15. When **Invoice Net Amount** is not provided it will be calculated as sum of all Line Net Amounts (for all Line Items, Discounts and Special charges)
   16. When **Invoice Tax Amount** is not provided it will be calculated as sum of all Line Tax Amounts (for all Line Items, Discounts and Special charges)
   17. **Invoice Gross Amount** should always be provided
   18. **Amount to Pay** will always be copied from Invoice Gross Amount
   19. When **Invoice Gross Amount** is negative all amounts will be reversed, so the correct signs, acceptable for our system are in place.
2. **Information from database**

Some of the mandatory information is static so it needs to be set in database (obi)

**Supplier Tax Registration number** (except for Canadian Suppliers) - **Production Database – table OBX\_CLIENT, column VAT\_REGISTRATION**

**Supplier Company Registration Number** - **Production Database – table OBX\_CLIENT, column CLIENT\_COMPANY\_REGISTRATION**

**Place Of Registration and date of Registration - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column TOWN\_OF\_REGISTRATION**

**Supplier Type of Company - Production Database – table OBX\_CLIENT, column TYPE\_OF\_COMPANY**

**Permit Number - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column PERMIT\_NUMBER**

**Permit Date - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column PERMIT\_DATE**

**Profession or Activity - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column PROFESSION**

**Share Capital - Production Database – table OBX\_SUPPLIER, column SHARE\_CAPITAL**

**Late Payment Penalty - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column LATE\_PAY\_PEN**

**Early Payment Discount - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column EARLY\_PAY\_DISC**

**Managing Directors - Production Database – table OBX\_CLIENT\_CS\_DIRECTORS, column FULL\_NAME**

**Chairman - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column CHAIRMAN**

**Liquidator Name - Production Database – table OBX\_CLIENT\_CS\_LIQUIDATOR, column LIQUIDATOR\_NAME**

**Liable Company - Production Database – table OBX\_CLIENT\_CS\_FIELDS, column LIABLE\_COMPANY**

**Vendor Code - Production Database – table OBX\_SUPPLIER\_ALIAS, column BUYER\_SUPPLIER\_REFERANCE**

**Buyer Tax Registration number** - **Production Database – table OBX\_CLIENT, column VAT\_REGISTRATION**

**Buyer Fiscal Rep. Name, Address and VAT Num. - Production Database – table OBX\_BUYER\_AFFILIATE**

**Invoice From Name and Address - Production Database – table OBX\_CLIENT**

1. **Master Account**

The account number for UBL xml Master Map is **AAAMasterUBL**.

The encoding set in the UBL xml Master Map is **UTF-8**.

There is US Sum Check client rule for the UBL xml Master account in place, so the settings in obi (database) should be done as usual (turned off for US and offshore suppliers and turned on for the rest cases).