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Peppol

Peppol International (PINT) model for Billing

Table of Contents

Link to main site of documentation . . . 2
Introduction . . . 3
Document Structure . . . 3
Scope . . . 3
Audience . . . 4
Benefits . . . 4
1. Business processes . . . 5
1.1. Parties and roles . . . 5
1.2. PINT Billing process . . . 5
1.3. Invoice functionality . . . 7
1.4. Credit notes and negative invoices . . . 9
1.5. UAE business processes . . . 9
1.6. Party information requirements in UAE . . . 13
2. Business information . . . 16
2.1. Parties . . . 16
2.2. Delivery Details (Date and Location) . . . 20
2.3. References and attachments . . . 21
2.4. Allowances and Charges . . . 26
2.5. Payment means information . . . 28
2.6. Item information . . . 29
2.7. Price information . . . 30
2.8. Unit of measure . . . 31
3. Tax information . . . 33
3.1. Tax in accounting currency . . . 33
3.2. Value Added Tax (VAT) . . . 34
4. Rules . . . 36
4.1. Calculations . . . 36
4.2. Rounding . . . 40
4.3. Aligned calculations . . . 41
5. Technical details . . . 46
5.1. BIS Identifiers . . . 46
5.2. Datatypes . . . 46
5.3. UBL schemas and namespaces . . . 50
5.4. Glossary . . . 51

OpenPeppol AISBL, Post-Award Coordinating Community v1.1.4

Link to main site of documentation

Main documentation site

Introduction

This Peppol Business Interoperability Specification (BIS) is a national customization of global PINT for the United Arab Emirates (UAE). This specification is designed to facilitate interoperability and streamline the eInvoice process, incorporating local adaptations to meet the UAE's legal mandates and business needs.

The purpose of this document is to describe the use of the invoice and credit note messages in Peppol, and to facilitate an efficient implementation and increased use of electronic collaboration regarding the billing process based on these formats.

Statement of copyright

This Peppol Business Interoperability Specification (Peppol BIS) document is a Country Specification based on the PINT. The restrictions on PINT implemented in this Peppol BIS are identified in the conformance statement provided in appendix A.

The copyright of PINT is owned by OpenPEPPOL and its members. OpenPEPPOL AISBL holds the copyright of this Peppol BIS.

This Peppol BIS document may not be modified, re-distribute, sold or repackaged in any other way without the prior consent of OpenPEPPOL AISBL.

Document Structure

This document is structured as follows:

- **Chapter 1** gives general information on the business processes, requirements and functionalities.
- **Chapter 2** provides information on business related requirements supported by the invoice.
- **Chapter 3** provides information on legal and tax related requirements supported by the invoice.
- **Chapter 4** provides information about rules and calculations that applies to the invoice content.
- **Chapter 5.1** describes the BIS identifiers.
- **Chapter 5.2** describes the semantical data types.
- **Chapter 5.3** gives external links to the relevant UBL schemas.

Scope

This document is concerned with clarifying requirements for ensuring interoperability and provides guidelines for the support and implementation of these requirements. This document provides a detailed implementation guideline for the invoice and credit note transactions.

Audience

The audience for this document is organisations wishing to be Peppol enabled for exchanging electronic invoices, and/or their ICT-suppliers. These organisations may be:

- Service providers
- Contracting Authorities (CA)
- Economic Operators (EO)
- Software Developers

More specifically, roles addressed are the following:

- ICT Architects
- ICT Developers
- Business Experts

For further information on Peppol/OpenPEPPOL see http://peppol.org

Benefits

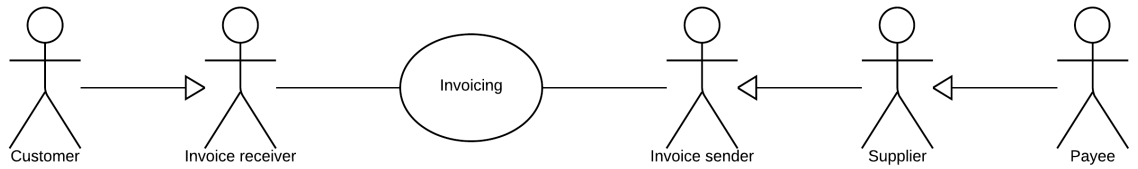
The invoice and credit note provides simple support for invoicing where there is a need for credit note in addition to an invoice. Other potential benefits are, among others:

- Can be mandated as a basis for national or regional eInvoicing initiatives.
- Procurement agencies can use them as basis for moving all invoices into electronic form. The flexibility of the specifications allows the buyers to automate processing of invoices gradually, based on different sets of identifiers or references, based on a cost/benefit approach.
- SME can offer their trading partners the option of exchanging standardised documents in a uniform way and thereby move all invoices/credit notes into electronic form.
- Large companies can implement these transactions as standardised documents for general operations and implement custom designed bi-lateral connections for large trading partners.
- Supports customers with need for more complex interactions.
- Can be used as basis for restructuring of in-house processes of invoices.
- Significant saving can be realised by the procuring agency by automating and streamlining in-house processing. The accounting can be automated significantly, approval processes simplified and streamlined, payment scheduled timely and auditing automated.

Chapter 1. Business processes

1.1. Parties and roles

The diagram below shows the roles involved in the invoice and credit note transactions. The customer and invoice receiver is the same entity, as is the supplier and the invoice sender.



1.1.1. Parties

Customer

The customer is the legal person or organisation who is in demand of a product or service. Examples of customer roles: buyer, consignee, debtor, contracting authority.

Supplier

The supplier is the legal person or organisation who provides a product or service.

1.1.2. Roles

Creditor

One to whom a debt is owed. The party that claims the payment and is responsible for resolving billing issues and arranging settlement. The party that sends the invoice or credit note. Also known as invoice issuer, accounts receivable or seller.

Debtor

One who owes debt. The party responsible for making settlement relating to a purchase. The party that receives the invoice or credit note. Also known as invoicee, accounts payable, or buyer.

1.2. PINT Billing process

The invoicing process includes issuing and sending the invoice and the credit note from the supplier to the customer and the reception and handling of the same at the customer’s site.

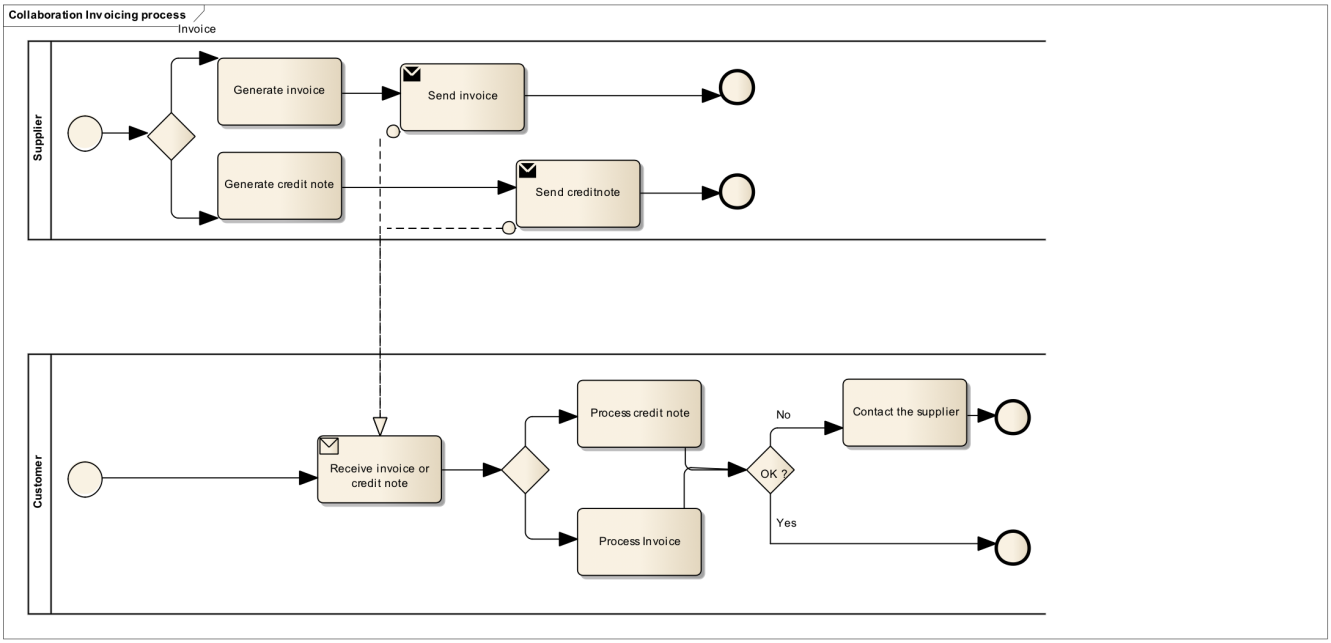
The invoicing process is shown in this workflow:

- A supplier issues and sends an invoice to a customer. The invoice refers to one order and a specification of delivered goods and services.

An invoice may also refer to a contract or a frame agreement. The invoice may specify articles (goods and services) with article number or article description.

- The customer receives the invoice and processes it in the invoice control system leading to one of the following results:
  a. The customer fully approves the invoice, posts it in the accounting system and passes it on to be paid.
  b. The customer completely rejects the invoice, contacts the supplier and requests a credit note.
  c. The customer disputes parts of the invoice, contacts the supplier and requests a credit note and a new invoice.

The diagram below shows the basic invoicing process with the use of this Peppol BIS profile. This process assumes that both the invoice and the credit note are exchanged electronically.



This profile covers the following invoice processes:

P1 Invoicing of deliveries of goods and services against purchase orders, based on a contract

P2 Invoicing deliveries of goods and services based on a contract

P3 Invoicing the delivery of an incidental purchase order

P4 Pre-payment

P5 Spot payment

P6 Payment in advance of delivery

P7 Invoices with references to a despatch advice

P8 Invoices with references to a despatch advice and a receiving advice

P9	Credit notes or invoices with negative amounts, issued for a variety of reasons including the return of empty packaging

1.3. Invoice functionality

An invoice may support functions related to a number of related (internal) business processes. This Peppol BIS shall support the following functions:

- Accounting
- Invoice verification against the contract, the purchase order and the goods and service delivered
- Tax reporting
- Auditing
- Payment

In the following chapters an assessment is made of what information is needed for each of the functions listed above and whether it is in scope or out of scope for this Peppol BIS.

Explicit support for the following functions (but not limited to) is out of scope:

- Inventory management
- Delivery processes
- Customs clearance
- Marketing
- Reporting

1.3.1. Accounting

Recording a business transaction into the financial accounts of an organization is one of the main objectives of the invoice. According to financial accounting best practice and TAX rules every Taxable person shall keep accounts in sufficient detail for TAX to be applied and its application checked by the tax authorities. For that reason, an invoice shall provide for the information at document and line level that enables booking on both the debit and the credit side.

1.3.2. Invoice verification

This process forms part of the Buyer's internal business controls. The invoice shall refer to an authentic commercial transaction. Support for invoice verification is a key function of an invoice. The invoice should provide sufficient information to look up relevant existing documentation, electronic or paper, for example, and as applicable:

- the relevant purchase order
- the contract
- the call for tenders, that was the basis for the contract

- the Buyer's reference
- the confirmed receipt of the goods or services
- delivery information

An invoice should also contain sufficient information that allows the received invoice to be transferred to a responsible authority, person or department, for verification and approval.

1.3.3. Auditing

Companies audit themselves as means of internal control or they may be audited by external parties as part of a legal obligation. Accounting is a regular, ongoing process whereas an audit is a separate review process to ensure that the accounting has been carried out correctly. The auditing process places certain information requirements on an invoice. These requirements are mainly related to enable verification of authenticity and integrity of the accounting transaction.

Invoices, conformant to this PEPPOL BIS support the auditing process by providing sufficient information for:

- identification of the relevant Buyer and Seller
- identification of the products and services traded, including description, value and quantity
- information for connecting the invoice to its payment
- information for connecting the invoice to relevant documents such as a contract and a purchase order

1.3.4. Tax Reporting

The invoice is used to carry Tax related information from the Seller to the Buyer to enable the Buyer and Seller to correctly handle Tax booking and reporting. An invoice should contain sufficient information to enable the Buyer and any auditor to determine whether the invoice is correct from a Tax point of view.

The invoice shall allow the determination of the Tax regime, the calculation and description of the tax, in accordance with the relevant legislation.

1.3.5. Payment

An invoice represents a claim for payment. The issuance of an invoice may take place either before or after the payment is carried out. When an invoice is issued before payment it represents a request to the Buyer to pay, in which case the invoice commonly contains information that enables the Buyer, in the role of a debtor, to correctly initiate the transfer of the payment, unless that information is already agreed in prior contracts or by means of payment instructions separately lodged with the Buyer.

If an invoice is issued after payment, such as when the order process included payment instructions or when paying with a credit card, online or telephonic purchases, the invoice may contain information about the payment made in order to facilitate invoice to payment reconciliation on the Buyer side. An invoice may be partially paid before issuing such as when a

pre-payment is made to confirm an order.

Invoices, conformant with this specification should identify the means of payment for settlement of the invoice and clearly state what payment amount is requested. They should provide necessary details to support bank transfers. Payments by means of Credit Transfer, Direct debit, and Payment Card are in scope.

1.4. Credit notes and negative invoices

Reverting an invoice that has been issued and received can be done in two basic ways. Either by issuing a credit note or a negative invoice.

- When crediting by means of a credit note, the document type code is '381' (or its synonym), and the credit note quantities and extension/total amounts have the same sign (plus or minus) as the invoice that is being cancelled/credited. The document type code acts as an indicator that the given amounts are booked in reverse and cancel out the invoice amounts.
- When crediting by means of a negative invoice, the document type code is '380' (or its synonym), and the negative invoice quantities and extension/total amounts have the opposite sign (minus vs plus) as the invoice being cancelled/credited. It is the mathematical sign that indicates that when the amounts are booked they cancel out the original amounts. The Price Amount must always be positive.

A credit note may include negative amounts when cancelling an invoice that may have negative line items/amounts.

1.5. UAE business processes

The following sections describe how the PINT UAE billing specification is applied to support local business processes.

1.5.1. Document type

In the UAE, various document types are recognized for different billing purposes:

Tax Invoice

A UAE tax invoice is associated with code 380 ‘Commercial invoice’.

UBL example of a tax invoice type code in the UAE:

```
<!-- code omitted for clarity -->
<cbc:DueDate>2024-09-25</cbc:DueDate>
<cbc:InvoiceTypeCode>380</cbc:InvoiceTypeCode>
<!-- code omitted for clarity -->
```

Tax Credit Note

A UAE tax credit note is associated with code 381 ‘Credit note’.

UBL example of a tax credit note type code in the UAE:

```
<!-- code omitted for clarity -->
<cbc:CreditNoteTypeCode>381</cbc:CreditNoteTypeCode>
<!-- code omitted for clarity -->
```

Self-Billing Invoice

A UAE Self-Billing invoice is associated with code 389 ‘Self-billed invoice’.

UBL example of a Self-Billing invoice type code in the UAE:

```
<!-- code omitted for clarity -->
<cbc:DueDate>2024-09-25</cbc:DueDate>
<cbc:InvoiceTypeCode>389</cbc:InvoiceTypeCode>
<!-- code omitted for clarity -->
```

Self-Billing Credit Note

A UAE Self-Billing credit note is associated with code 261 ‘Self billed credit note’.

UBL example of a Self-Billing credit note type code in the UAE:

```
<!-- code omitted for clarity -->
<cbc:CreditNoteTypeCode>261</cbc:CreditNoteTypeCode>
<!-- code omitted for clarity -->
```

Invoice - Out of Scope for Tax Purposes

A UAE commercial invoice is associated with code 480 ‘Invoice out of scope of tax’.

UBL example of an out of scope commercial invoice type code in the UAE:

```
<!-- code omitted for clarity -->
<cbc:DueDate>2024-09-25</cbc:DueDate>
<cbc:InvoiceTypeCode>480</cbc:InvoiceTypeCode>
<!-- code omitted for clarity -->
```

Credit notes - Out of Scope for Tax Purposes

A UAE commercial credit note is associated with code 81 ‘Credit note related to goods or services’.

UBL example of an out of scope commercial credit note type code in the UAE:

```
<!-- code omitted for clarity -->
<cbc:CreditNoteTypeCode>81</cbc:CreditNoteTypeCode>
<!-- code omitted for clarity -->
```

1.5.2. Invoice transaction type code

There are a limited number of special transaction types contained within the UAE VAT regime.

The invoice transaction type code is a set of binary digits (i.e. a sequence of flags denoted by 0s and 1s) and is used to denote the special transaction type that the invoice represents.

To distinguish between these different special transaction types within a single invoice, users must indicate the presence of each transaction type by assigning a value as follows: '1' if the transaction type is applicable, and '0' if it is not. These values should be entered following the same order as the transaction types are listed.

Table 1. Transaction types

Transaction type	Variables	String
Free Trade Zone	1 (applicable), 0 (not applicable)	10000000
Deemed Supply	1 (applicable), 0 (not applicable)	01000000
Profit Margin Scheme	1 (applicable), 0 (not applicable)	00100000
Summary Invoice	1 (applicable), 0 (not applicable)	00010000
Continuous Supply	1 (applicable), 0 (not applicable)	00001000
Disclosed Agent Billing	1 (applicable), 0 (not applicable)	00000100
Supply through e-commerce	1 (applicable), 0 (not applicable)	00000010
Exports	1 (applicable), 0 (not applicable)	00000001

The following examples are provided to show how special transaction types can be captured:

UBL example of a standard tax invoice not having a special transaction type

```
<!-- code omitted for clarity -->
<cbc:ProfileExecutionID>00000000</cbc:ProfileExecutionID>
<!-- code omitted for clarity -->
<cbc:InvoiceTypeCode>380</cbc:InvoiceTypeCode>
<!-- code omitted for clarity -->
```

UBL example of a standard tax invoice with 'supplies involving a Free Trade Zone'

```
<!-- code omitted for clarity -->
<cbc:ProfileExecutionID>10000000</cbc:ProfileExecutionID>
<!-- code omitted for clarity -->
<cbc:InvoiceTypeCode>380</cbc:InvoiceTypeCode>
<!-- code omitted for clarity -->
```

UBL example of a standard tax invoice for 'continuous supply'

```
<!-- code omitted for clarity -->
<cbc:ProfileExecutionID>00001000</cbc:ProfileExecutionID>
<!-- code omitted for clarity -->
<cbc:InvoiceTypeCode>380</cbc:InvoiceTypeCode>
<!-- code omitted for clarity -->
```

UBL example of a standard tax invoice for 'export transactions'

```
<!-- code omitted for clarity -->
<cbc:ProfileExecutionID>00000001</cbc:ProfileExecutionID>
<!-- code omitted for clarity -->
<cbc:InvoiceTypeCode>380</cbc:InvoiceTypeCode>
<!-- code omitted for clarity -->
```

1.5.3. Predefined endpoint

In the following three scenarios, it is essential to use the predefined endpoint to identify the document recipient. In these cases, the document need not be exchanged with C3; instead, it should only be reported to C5.

S.No	Transaction type	Participant scheme ID	Participant Identification
1	When the invoice transaction type code is (X1XXXXXX) Deemed supply	0235	990000097
2	When the invoice transaction type code is (XXXXXXX1) Exports (receiver not registered in Peppol)	0235	990000099
3	When the buyer is not subject to UAE e-invoicing regulations	0235	990000098

1.5.4. Credit notes

In the UAE, reverting an invoice that has been issued and received can be achieved only by issuing a credit note. Businesses cannot issue negative invoices.

When issuing tax credit notes, document type code 381 'Credit note' must be used. When issuing a credit note in relation to a transaction that is out of scope, document type code 81 'Credit note related to goods or services' must be used.

Note that it is compulsory to specify the reason for issuing the credit note in the field Credit note reason code (BTAE-03). The preceding invoice reference should be specified in section ibg-03, except in the case of volume discounts.

For volume discounts, the Credit note reason code (BTAE-03) should be specified as 'VD'. When this

is the reason, it is not required to include the details of the preceding invoice reference in section IBG-03.

UBL example of 'credit note' when issued for volume discounts

```
<!-- code omitted for clarity -->
<cbc:ProfileExecutionID>00000000</cbc:ProfileExecutionID>
<!-- code omitted for clarity -->
<cbc:CreditNoteTypeCode>381</cbc:CreditNoteTypeCode>
<cac:DiscrepancyResponse>
  <cbc:ResponseCode>VD</cbc:ResponseCode>
</cac:DiscrepancyResponse>

<!-- Preceding Invoice Reference is optional for volume discounts -->

<cac:BillingReference>
  <cac:InvoiceDocumentReference>
    <cbc:ID>[Preceding Invoice ID]</cbc:ID>
    <cbc:IssueDate>[Preceding Invoice Issue Date]</cbc:IssueDate>
  </cac:InvoiceDocumentReference>
</cac:BillingReference>
<!-- code omitted for clarity -->
```

1.6. Party information requirements in UAE

1.6.1. Required Seller information

The following identifiers of the seller should be present:

ID	Business Term	Details
IBT-030	Seller legal registration identifier	The commercial registration number of seller
BTAE-15	Seller legal registration identifier type	Seller legal registration identifier type should specify the nature of commercial registration number issued in UAE. It should be one of the following: * TL - Commercial/Trade license * EID - Emirates ID * PAS - Passport * CD - Cabinet Decision

ID	Business Term	Details
BTAE-12	Authority name	Where the nature of commercial registration number is TL (Commercial/Trade license) then the authority which has issued the license should be provided
BTAE-18	Passport issuing country code	It is required when Seller legal registration type is ‘PAS - Passport’
IBT-031	Seller VAT identifier	The VAT registration number (TRN) of the seller should be provided
IBT-031-1	Tax scheme code	It should be ‘VAT’ when the TRN is provided in IBT-031 and not 'VAT' when TIN is provided in IBT-032
IBT-032	Seller tax registration identifier	The Tax Identification Number (TIN) of the seller should be provided
IBT-034	Seller electronic address	The electronic address for UAE is the Tax Identification Number (TIN)
IBT-034-1	Scheme identifier	The Scheme identifier for UAE is 0235

1.6.2. Required Buyer information

The following identifiers of the buyer should be present:

ID	Business Term	Details
IBT-047	Buyer legal registration identifier	The commercial registration number of buyer
BTAE-16	Buyer legal registration identifier type	Buyer legal registration identifier type should specify the nature of commercial registration number issued in UAE. It should be one of the following: TL - Commercial/Trade license, EID - Emirates ID, PAS - Passport, CD - Cabinet Decision
BTAE-11	Authority name	Where the nature of commercial registration number is TL (Commercial/Trade license) then the authority which has issued the license should be provided
BTAE-19	Passport issuing country code	It is required when Buyer legal registration identifier type is ‘PAS - Passport’
IBT-048	Buyer VAT identifier	The VAT registration number (TRN) of the buyer should be provided if buyer is registered for VAT in the UAE
IBT-048-1	Tax scheme code	It should be ‘VAT’ when the TRN is provided in IBT-048

ID	Business Term	Details
IBT-049	Buyer electronic address	The electronic address for UAE is the Tax Identification Number (TIN) Where the special transaction ‘Deemed Supply’ is selected, the buyer electronic address is 9900000097 Where the special transaction ‘Exports’ is selected, and the buyer does not have an electronic address, the buyer electronic address is 9900000099 Where the buyer is not subject to UAE e-invoicing regulations, the buyer electronic address is 9900000098
IBT-049-1	Scheme identifier	The Scheme Identifier for UAE is 0235

Chapter 2. Business information

In the subchapters below you find description of selected parts of the transaction.

2.1. Parties

The following roles may be specified. The same actor may play more than one role depending on the handling routine.

Further details on the roles/actors can be found in Roles.

2.1.1. Seller (AccountingSupplierParty)

Seller is mandatory information and provided in element `cac:AccountingSupplierParty`

UBL example of seller information

```
<cac:AccountingSupplierParty>
    <cac:Party>
        <cbc:EndpointID schemeID="0235">1XXXXXXX1</cbc:EndpointID>
①
        <cac:PartyIdentification>
            <cbc:ID schemeID="0088">7300010000001</cbc:ID>
②
        </cac:PartyIdentification>
        <cac:PartyName>
            <cbc:Name>SupplierTradingName Ltd.</cbc:Name>  ③
        </cac:PartyName>
        <cac:PostalAddress>
            <cbc:StreetName>Street Name</cbc:StreetName>
            <cbc:AdditionalStreetName>Additional Street
name</cbc:AdditionalStreetName>
            <cbc:CityName>Singapore</cbc:CityName>
            <cbc:PostalZone>Postal Zone</cbc:PostalZone>
            <cbc:CountrySubentity>West London district</cbc:CountrySubentity>
            <cac:AddressLine>
                <cbc:Line>Third address line</cbc:Line>
            </cac:AddressLine>
            <cac:Country>
                <cbc:IdentificationCode>AE</cbc:IdentificationCode>  ④
            </cac:Country>
        </cac:PostalAddress>
        <cac:PartyTaxScheme>
            <cbc:CompanyID>1XXXXXXX1</cbc:CompanyID>
⑤
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>  ⑥
            </cac:TaxScheme>
        </cac:PartyTaxScheme>
        <cac:PartyTaxScheme>
```

```
            <cbc:CompanyID>1XXXXXXX1</cbc:CompanyID>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:PartyTaxScheme>
        <cac:PartyLegalEntity>
            <cbc:RegistrationName>SupplierOfficialName Ltd</cbc:RegistrationName>  ⑦
            <cbc:CompanyID schemeAgencyID="TL" schemeAgencyName="Trade License issuing
Authority">1XXXXXXX1</cbc:CompanyID>  ⑧
            <cbc:CompanyLegalForm>Private Limited Company</cbc:CompanyLegalForm>
        </cac:PartyLegalEntity>
        <cac:Contact>  ⑨
            <cbc:Name>Contact name</cbc:Name>
            <cbc:Telephone>Contact number</cbc:Telephone>
            <cbc:ElectronicMail>contact email ID</cbc:ElectronicMail>
        </cac:Contact>
    </cac:Party>
</cac:AccountingSupplierParty>
```

① Seller electronic address (ibt-034), mandatory, the identification scheme identifier shall be chosen from the Electronic Address Scheme (EAS) list.

② Seller identifier (ibt-029), if used, the identification scheme identifier shall be chosen from the entries of the list published by the ISO/IEC 6523 maintenance agency.

③ Sellers trading name (ibt-028).

④ Sellers country code (ibt-040).

⑤ Seller tax registration ID (ibt-031).

⑥ Tax scheme for the sellers tax registration. Use the appropriate code for the sellers jurisdiction, such as VAT or GST.

⑦ Seller legal registrated name (ibt-027).

⑧ Seller legal registration identifier (ibt-030), if used, the identification scheme identifier shall be chosen from the entries of the list published by the ISO/IEC 6523 maintenance agency.

⑨ Seller contact (ibg-06).

2.1.2. Buyer (AccountingCustomerParty)

Buyer is mandatory information and provided in element `cac:AccountingCustomerParty`

UBL example ofbuyer information

```
<cac:AccountingCustomerParty>
    <cac:Party>
        <cbc:EndpointID schemeID="0235">1XXXXXXX1</cbc:EndpointID>
①
        <cac:PartyIdentification>
            <cbc:ID schemeID="0002">FR23342</cbc:ID>
②
        </cac:PartyIdentification>
        <cac:PartyName>
            <cbc:Name>BuyerTradingName AS</cbc:Name> ③
        </cac:PartyName>
        <cac:PostalAddress>
            <cbc:StreetName>Street Name</cbc:StreetName>
            <cbc:AdditionalStreetName>Additional Street
name</cbc:AdditionalStreetName>
            <cbc:CityName>Abu Dhabi</cbc:CityName>
            <cbc:PostalZone>Postal Zone</cbc:PostalZone>
            <cac:AddressLine>
                <cbc:Line>Third line</cbc:Line>
            </cac:AddressLine>
            <cac:Country>
                <cbc:IdentificationCode>AE</cbc:IdentificationCode> ④
            </cac:Country>
        </cac:PostalAddress>
        <cac:PartyTaxScheme>
            <cbc:CompanyID>1XXXXXXX1</cbc:CompanyID>
⑤
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID> ⑥
            </cac:TaxScheme>
        </cac:PartyTaxScheme>
        <cac:PartyLegalEntity>
            <cbc:RegistrationName>Buyer Official Name</cbc:RegistrationName> ⑦
            <cbc:CompanyID schemeAgencyID="TL" schemeAgencyName="Trade License issuing
Authority">1XXXXXXX1</cbc:CompanyID> ⑧
        </cac:PartyLegalEntity>
        <cac:Contact> ⑨
            <cbc:Name>Contact name</cbc:Name>
            <cbc:Telephone>Contact number</cbc:Telephone>
            <cbc:ElectronicMail>contact email ID</cbc:ElectronicMail>
        </cac:Contact>
    </cac:Party>
</cac:AccountingCustomerParty>
```

① Buyer electronic address (ibt-049), mandatory, the identification scheme identifier shall be chosen from the Electronic Address Scheme (EAS) list.

② Buyer identifier (ibt-046), if used, the identification scheme identifier shall be chosen from the entries of the list published by the ISO/IEC 6523 maintenance agency.

③ Buyer trading name (ibt-045).

④ Buyer country code (ibt-055), mandatory.

⑤ Buyer tax registration ID (ibt-048).

⑥ Tax scheme for the buyer tax registration. Use the appropriate code for the buyers jurisdiction, such as VAT or GST.

⑦ Buyer legal registered name (ibt-044).

⑧ Buyer legal registration identifier (ibt-047), if used, the identification scheme identifier shall be chosen from the entries of the list published by the ISO/IEC 6523 maintenance agency.

⑨ Buyer contact (ibg-09).

2.1.3. Payment receiver (PayeeParty)

Payment receiver is optional information. If this information is not supplied, the seller is the payment receiver. When payee information is sent this is indicating that a factoring situation is being documented.

To reflect the assignment of an Invoice to a factor there is a need to:

1. have a disclaimer (notification notice) on the Invoice that the Invoice has been assigned to a factor. The disclaimer should be given using the Invoice note (IBT-22) on document level.
2. identify the Factor as the Payee
3. to have the bank account changed to favour of a Factor.

UBL example of payee information

```
<cac:PayeeParty>
    <cac:PartyIdentification>
        <cbc:ID schemeID="0235">987654325</cbc:ID>
①
    </cac:PartyIdentification>
    <cac:PartyName>
        <cbc:Name>Payee party</cbc:Name>
    </cac:PartyName>
    <cac:PartyLegalEntity>
        <cbc:CompanyID schemeAgencyID="TL" schemeAgencyName="Trade License issuing
Authority">1XXXXXXX1</cbc:CompanyID>
②
    </cac:PartyLegalEntity>
</cac:PayeeParty>
```

① schemeID attribute is recommended for all party identifiers

② schemeID attribute is recommended for party legal entity identifiers

2.1.4. Sellers Tax Representative (TaxRepresentativeParty)

Tax representative party for the seller is relevant for sellers delivering goods and services in a

country without having a permanent establishment in that country. In such cases information on the tax representative shall be included in the invoice.

UBL example of tax representative information

```
<cac:TaxRepresentativeParty>
    <cac:PartyName>
        <cbc:Name>TaxRepresentative Name</cbc:Name>
    </cac:PartyName>
    <cac:PostalAddress>
        <cbc:StreetName>Regent street 32</cbc:StreetName>
        <cbc:AdditionalStreetName>Additional Street name</cbc:AdditionalStreetName>
        <cbc:CityName>Abu Dhabi</cbc:CityName>
        <cbc:PostalZone>Postal Zone</cbc:PostalZone>
        <cbc:CountrySubentity>Subentity</cbc:CountrySubentity>
        <cac:AddressLine>
            <cbc:Line>Back door</cbc:Line>
        </cac:AddressLine>
        <cac:Country>
            <cbc:IdentificationCode>AE</cbc:IdentificationCode>
        </cac:Country>
    </cac:PostalAddress>
    <cac:PartyTaxScheme>
        <cbc:CompanyID>1XXXXXXX1</cbc:CompanyID>
①
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:PartyTaxScheme>
</cac:TaxRepresentativeParty>
```

① Tax identifier of seller tax representative (ibt-063)

2.2. Delivery Details (Date and Location)

Delivery details may be given at document level.

Place and date of delivery is recommended, and should be sent unless this does not affect the ability to ensure the correctness of the invoice.

The delivery element contains information on name, address and delivery location identifier (`cac:Delivery/cac:DeliveryLocation/cbc:ID`) which may be used if the place of delivery is defined through an identifier. For example GLN (Global Location Number)issued by GS1.

UBL example of delivery information

```
<cac:Delivery>
    <cbc:ActualDeliveryDate>2017-11-01</cbc:ActualDeliveryDate>
    <cac:DeliveryLocation>
        <cbc:ID schemeID="0088">7300010000001</cbc:ID>
        <cac:Address> ①
            <cbc:StreetName>Delivery street 2</cbc:StreetName>
            <cbc:AdditionalStreetName>Additional Street
name</cbc:AdditionalStreetName>
            <cbc:CityName>Abu Dhabi</cbc:CityName>
            <cbc:PostalZone>Postal Zone</cbc:PostalZone>
            <cac:AddressLine>
                <cbc:Line>Gate 15</cbc:Line>
            </cac:AddressLine>
            <cac:Country>
                <cbc:IdentificationCode>AE</cbc:IdentificationCode> ②
            </cac:Country>
        </cac:Address>
    </cac:DeliveryLocation>
    <cac:DeliveryParty> ③
        <cac:PartyName>
            <cbc:Name>Delivery party Name</cbc:Name>
        </cac:PartyName>
    </cac:DeliveryParty>
</cac:Delivery>
```

① Deliver to address (ibg-15), the address to which goods and services invoiced were or are delivered.

② Deliver to country code (ibt-080), mandatory

③ Deliver to party name (ibt-070), the name of the party to which the goods and services are delivered.

2.3. References and attachments

Support for invoice verification is a key function of an invoice. The invoice should provide sufficient information to look up relevant existing documentation, electronic or paper.



Any reference element should contain valid information, if you do not have a reference, the element should not be present in the instance document.

The invoice and credit note transactions supports the following references to existing documentation:

2.3.1. Purchase order and sales order reference

The purchase order reference is a conditional business term. If the customer has issued a purchase order should be referenced by providing its identifier in the resulting invoice, otherwise the Buyer

reference should be used (see Buyer reference).

If the purchase order is referenced at the invoice header level, the order reference element on line level can be used to state the relevant line numbers in the order .

A sales order is issued by the seller, confirming the sale of specified products and may be provided in the invoice.



In the invoice, both a purchase order and a sales order reference can be given, but be aware that an invoice instance cannot reference a sales order, without providing the corresponding purchase order reference.

UBL example or order and sales order reference

```
<cac:OrderReference>
    <cbc:ID>o-998877</cbc:ID> ①
    <cbc:SalesOrderID>so-12343</cbc:SalesOrderID> ②
</cac:OrderReference>
```

① Purchase order reference

② Sales order reference

2.3.2. Buyer reference

The buyer reference, known as Your ref, is conditional. An invoice shall have either the buyer reference or the order reference (see Purchase order and sales order reference)

The element is used for the reference of who ordered the products/services. Example being the name of the person ordering, employee number or a code identifying this person or department/group. Your ref is often used for internal routing at recipient, and hence it is important to fill this element with the correct values according to the need of the recipient.

If neither buyer reference nor a reference to an order is supplied by the customer, the name of the person ordering or appointed for the customer can be supplied in buyer reference if known by the supplier.



When reference is provided by the customer, the correct element shall contain the provided reference.

UBL example of buyer reference

```
<cbc:BuyerReference>0150abc</cbc:BuyerReference>
```

2.3.3. Invoiced object identifier

The invoiced object identifier is the identifier for an object on which the invoice is based, given by the Seller. Examples may be a subscription number, telephone number, meter point, vehicle, person etc., as applicable.

If it is not clear to the receiver what scheme is used for the identifier, an optional scheme identifier attribute should be used, that shall be chosen from the Invoiced object identifier scheme code list.

The invoiced object reference is provided by using the element `cac:AdditionalDocumentReference` with the document type code = 130

UBL example of invoiced object identifier

```
<cac:AdditionalDocumentReference>
    <cbc:ID schemeID="ABT">DR35141</cbc:ID> ① ②
    <cbc:DocumentTypeCode>130</cbc:DocumentTypeCode> ③
</cac:AdditionalDocumentReference>
```

① Invoice object identifier scheme is given as an attribute on the identifier. It states the type of the identifier according to code list UN/CEFACT 1153

② An identifier of an object that the invoice relates to.

③ A code that qualifies the identifier as an invoiced object identifiers. Document type code "130" qualifies that.

2.3.4. Contract reference

To reference or match an invoice to a purchase contract, the contract number could be specified like this:

UBL example of contract reference

```
<cac:ContractDocumentReference>
    <cbc:ID>framework no 1</cbc:ID>
</cac:ContractDocumentReference>
```

2.3.5. Despatch and receipt advice references

Document level

To reference or match an invoice to a despatch or receipt advice use the following elements:

UBL example of despatch and receipt advice

```
<cac:DespatchDocumentReference>
    <cbc:ID>despadv-3</cbc:ID> ①
</cac:DespatchDocumentReference>
<cac:ReceiptDocumentReference>
    <cbc:ID>resadv-1</cbc:ID> ②
</cac:ReceiptDocumentReference>
```

① Despatch advice

② Receipt advice

2.3.6. Tender reference

To identify the call for tender or lot the invoice relates to, use the 'OriginatorDocumentReference'. The identifier is, in most cases, the Procurement Procedure Identifier.

UBL example of tender reference

```
<cac:OriginatorDocumentReference>
    <cbc:ID>ppid-123</cbc:ID>
</cac:OriginatorDocumentReference>
```

2.3.7. Project reference

The project reference is optional to use, and is sent in an invoice in the element `cac:ProjectReference/cbc:ID`. In a credit note, this element does not exist, and project reference is sent by using the element `cac:AdditionalDocumentReference[cbc:DocumentTypeCode='50']/cbc:ID`.

NOTE

When sending the project reference, only the `cbc:ID` and the `cbc:DocumentTypeCode` are allowed in the `cac:AdditionalDocumentReference` element.

UBL example of project reference in an invoice

```
<cac:ProjectReference>
    <cbc:ID>project333</cbc:ID>
</cac:ProjectReference>
```

2.3.8. Preceding invoice references

A credit note or negative invoice can refer to one or more initial invoice(s). This is done in the business group BG-3 Preceding invoice reference, providing the invoice number and issue date. The issue date shall be provided in case the preceding invoice reference is not unique.

In case correction applies to a large number of invoices, the invoicing period (BG-14), as necessary combined with a clarifying invoice note (IBT-22), may instead be given at document level.

2.3.9. Attachments

An invoice may contain a supportive document as informative. Examples of such documents may be work reports, certificates or other documents that relate to the purchase or the invoiced items. A supportive document can be attached to the invoice in two ways: by providing a direct hyperlink through which the document can be downloaded or by embedding the document into the invoice. A compliant receiver is required to be able to receive an attached supportive document and, in case of embedded files, to convert it into a file but he is not required to handle the content of that file since it is only provided as informative.

When attaching a document using an uri the hyperlink shall point directly to the file that is to be downloaded.

An embedded document is contained in the invoice as binary object using base64 encoding and shall be supplemented with information about the name of the document file and a mime code indicating the type of the file. This allows the receiver to convert the binary code into a file that has the same name as the original file and allows him to associate the received file to a suitable application for viewing its content. The set of allowed codes for the file type (mime code) is limited to types that can be opened with applications that are commonly used and available.

As is with other file types, when an attached file is an XML file the receiver is expected to be able to receive and convert the binary object into an XML file but the sender can not expect the receiver to view or process the content of that XML file. Any further handling of an embedded XML file attachment is optional for the receiver.

UBL example of a document attachment using URI

```
 <cac:AdditionalDocumentReference>
    <cbc:ID>ts12345</cbc:ID> ①
    <cbc:DocumentDescription>Technical specification</cbc:DocumentDescription> ②
    <cac:Attachment>
        <cac:ExternalReference>
            <cbc:URI>www.techspec.no</cbc:URI> ③
        </cac:ExternalReference>
    </cac:Attachment>
</cac:AdditionalDocumentReference>
```

UBL example of an embedded document attachment

```
<cac:AdditionalDocumentReference>
    <cbc:ID>mr4343</cbc:ID> ①
    <cbc:DocumentDescription>milage report</cbc:DocumentDescription> ②
    <cac:Attachment>
        <cbc:EmbeddedDocumentBinaryObject mimeCode="text/csv" filename="milage.csv"
            >bWlsYWdlIHJlcG9ydA==</cbc:EmbeddedDocumentBinaryObject> ④
    </cac:Attachment>
</cac:AdditionalDocumentReference>
```

1. An identifier of the supporting document (ibt-122)
2. A description of the supporting document (ibt-123)
3. The URL (Uniform Resource Locator) that identifies where the external document is located (ibt-124)
4. An attached document embedded as binary object or sent together with the invoice. (ibt-125). The file type is given with the attribute "mimeCode" (ibt-125-1) and the name of the original file is given in the attribute "filename" (ibt-125-2).

2.3.10. Customs reference number (BTAE-21) and Incoterms (BTAE-22)

For export transactions, it is essential for sellers to ensure accurate documentation and compliance with customs regulations. If the seller wishes to declare the customs reference number in

conjunction with the applicable Incoterms, this information can be provided in the designated fields. The customs reference number can be provided in the "Customs Reference Number" field (BTAE-21), while the relevant Incoterms can be provided in "Incoterms" field (BTAE-22).

2.3.11. Deliver to Party ID (BTAE-23)

In instances where billing is addressed to one individual while delivery is directed to another (triangular sales), it is important to accurately capture the recipient's information. In such cases, the Tax Registration Number (TRN) or Tax Identification Number (TIN) of the recipient can be provided in the "Deliver to Party ID" field (BTAE-23) within the Delivery Information section (ibg-13).

2.3.12. Batch number (BTAE-24)

Various industries within the manufacturing and trading sectors categorize their goods based on batch numbers to enhance inventory management and traceability. When there is a need to specify the batch number for the supplied goods, this information can be entered in the designated "Batch Number" field (BTAE-24).

2.4. Allowances and Charges

The Invoice and credit note transactions has elements for Allowance/charge on 3 levels.

The element `cac:AllowanceCharge` with sub element `cbc:ChargeIndicator` indicates whether the instance is a charge (true) or an allowance (false).

The header level

Applies to the whole invoice and is included in the calculation of the invoice total amount.

- Several allowances and charges may be supplied
- Specification of TAX for allowances and charges, `cac:TaxCategory` with sub elements, shall be supplied
- The sum of all allowances and charges on the header level shall be specified in `cbc:AllowanceTotalAmount` and `cbc:ChargeTotalAmount` respectively.

The line level

Applies to the line level and is included in the calculation of the line amount.

- Several allowances and charges may be supplied
- Specification of TAX for allowances and charges shall not be specified, as the TAX category stated for the invoice line itself, applies also to the allowances or charges of that line.
- The sum of all allowances and charges on the line level shall be taken into account, subtracted or added, when calculating the line extension amount . These line level allowances and charges shall not be calculated into the header level elements.

The line level Price element

A way to inform the buyer how the price is set. Is also relevant if the seller or buyer want to post

the allowance in their accounting systems. The price itself shall always be the net price, i.e. the base amount reduced with a discount (allowance).

- Only one occurrence of allowance (discount) is allowed.
- Specification of TAX for allowance shall not be specified
- Allowance related to Price shall not be part of any other calculations.
- Allowance related to Price may specify amount and the base amount.

UBL example of Allowances and Charges on the document level

```
<cac:AllowanceCharge>
    <cbc:ChargeIndicator>true</cbc:ChargeIndicator> ①
    <cbc:AllowanceChargeReasonCode>FC</cbc:AllowanceChargeReasonCode>
    <cbc:AllowanceChargeReason>Freight service</cbc:AllowanceChargeReason>
    <cbc:MultiplierFactorNumeric>20</cbc:MultiplierFactorNumeric> ④
    <cbc:Amount currencyID="AED">200</cbc:Amount> ⑤
    <cbc:BaseAmount currencyID="AED">1000</cbc:BaseAmount> ③
    <cac:TaxCategory>
        <cbc:ID>SR</cbc:ID>
        <cbc:Percent>9</cbc:Percent>
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:TaxCategory>
</cac:AllowanceCharge>
<cac:AllowanceCharge>
    <cbc:ChargeIndicator>false</cbc:ChargeIndicator> ②
    <cbc:AllowanceChargeReasonCode>65</cbc:AllowanceChargeReasonCode>
    <cbc:AllowanceChargeReason>Production error discount</cbc:AllowanceChargeReason>
    <cbc:Amount currencyID="AED">300</cbc:Amount>
    <cac:TaxCategory>
        <cbc:ID>SR</cbc:ID>
        <cbc:Percent>9</cbc:Percent>
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:TaxCategory>
</cac:AllowanceCharge>
```

① ChargeIndicator = true to indicate a charge

② ChargeIndicator = false to indicate an allowance

③ Base amount, to be used with the percentage to calculate the amount

④ Charge percentage

⑤ "Amount" = "Base amount" times ("Percentage" div 100)

UBL example of Allowances and Charges on invoice line

```
<cac:InvoiceLine>
    <!-- Code omitted for clarity -->
    <cac:AllowanceCharge>
        <cbc:ChargeIndicator>true</cbc:ChargeIndicator>
        <cbc:AllowanceChargeReasonCode>CG</cbc:AllowanceChargeReasonCode>
        <cbc:AllowanceChargeReason>Cleaning</cbc:AllowanceChargeReason>
        <cbc:MultiplierFactorNumeric>10</cbc:MultiplierFactorNumeric>
        <cbc:Amount currencyID="AED">1</cbc:Amount>
        <cbc:BaseAmount currencyID="AED">10</cbc:BaseAmount>
    </cac:AllowanceCharge>
    <cac:AllowanceCharge>
        <cbc:ChargeIndicator>false</cbc:ChargeIndicator>
        <cbc:AllowanceChargeReasonCode>95</cbc:AllowanceChargeReasonCode>
        <cbc:AllowanceChargeReason>Discount</cbc:AllowanceChargeReason>
        <cbc:Amount currencyID="AED">101</cbc:Amount>
    </cac:AllowanceCharge>
```

2.5. Payment means information

2.5.1. Credit transfer



Payment means code 30 as defined below shall be supported by all receivers of a PINT compliant invoice. This payment method acts as the common denominator for global trade.

If payment is made by credit transfer, the Payment account identifier (IBT-84) is mandatory

Examples of codes for payment by credit transfer are:

- 30 - Credit transfer

UBL example of payment means info when payment is done by credit transfer

```
<cac:PaymentMeans>
    <cbc:PaymentMeansCode name="Credit transfer">30</cbc:PaymentMeansCode>①
    <cbc:PaymentID>93274234</cbc:PaymentID>②
    <cac:PayeeFinancialAccount>
        <cbc:ID>32423940</cbc:ID>③
        <cbc:Name>AccountName</cbc:Name>
        <cac:FinancialInstitutionBranch>
            <cbc:ID>BIC32409</cbc:ID>④
        </cac:FinancialInstitutionBranch>
    </cac:PayeeFinancialAccount>
</cac:PaymentMeans>
```

① Mandatory, payment means code for credit transfer

② Remittance information

③ Mandatory, IBAN (in case of a SEPA payment) or a national account number (BBAN)

④ BIC or a national clearing code

2.5.2. Card Payment

If the Buyer had opted to pay by using a payment card such as a credit or debit card, information on the Primary Account Number (PAN) shall be present in the invoice.

Examples of codes for payment by card are:

- 48 - Bank card
- 54 - Credit card
- 55 - Debit card

UBL example of payment means info when payment is done by payment card

```
<cac:PaymentMeans>
    <cbc:PaymentMeansCode name="Credit card">54</cbc:PaymentMeansCode>①
    <cbc:PaymentID>9387439</cbc:PaymentID>
    <cac:CardAccount>
        <cbc:PrimaryAccountNumberID>123236</cbc:PrimaryAccountNumberID>②
        <cbc:NetworkID>VISA</cbc:NetworkID>③
        <cbc:HolderName>Card holders name</cbc:HolderName>④
    </cac:CardAccount>
</cac:PaymentMeans>
```

① Payment means code for credit card

② Mandatory, shall be the last 4 to 6 digits of the payment card number

③ Mandatory, used to identify the financial service network provider of the card. Examples are VISA, MasterCard, American Express.

④ Card holder name

2.6. Item information

2.6.1. Item identifiers

In an invoice line the seller item identifier, the buyer item identifier and the standard item identifier can be provided. For sellers and buyers item identifiers, no scheme attribute is used, whilst the `schemeID` is mandatory for the standard item identification, and must be from the ISO 6523 ICD list.

UBL example of item identifiers

```
<cac:BuyersItemIdentification>
    <cbc:ID>b-13214</cbc:ID>
</cac:BuyersItemIdentification>
<cac:SellersItemIdentification>
    <cbc:ID>97iugug876</cbc:ID>
</cac:SellersItemIdentification>
<cac:StandardItemIdentification>
    <cbc:ID schemeID="0160">97iugug876</cbc:ID> ①
</cac:StandardItemIdentification>
```

① 0160 is the ICD value for a GTIN identifier

2.6.2. Item classification

Several different item classification codes can be provided per invoice line, and the codes must be from one of the classification schemes in code list UNCL7143.

UBL example of using CPV

```
<cac:CommodityClassification>
    <cbc:ItemClassificationCode listID="STI">09348023</cbc:ItemClassificationCode>①
</cac:CommodityClassification>
```

① listID must be from UNCL7143 code list, and code STI indicates this is a CPV classification.

UBL example of UNSPSC

```
<cac:CommodityClassification>
    <cbc:ItemClassificationCode listID="TST" listVersionID="19.05.01">
86776</cbc:ItemClassificationCode>①
</cac:CommodityClassification>
```

① listID must be from UNCL7143 code list, and code TST indicates this is a UNSPSC classification, listVersionID is optional, but can be used to specify the version of UNSPSC. NOTE, in previous versions code MP was used as temporary workaround to identify UNSPSC. In fall release 2019 it is replaced with the new 7143 code TST that is specific for UNSPSC.

2.7. Price information

An invoice must contain information about the item net price and additional information such as gross price, item price base quantity and price discount may be added.

For details on calculating price see Item net price (IBT-146).

UBL example of price with price discount

```
<cac:Price>
    <cbc:PriceAmount currencyID="AED">410</cbc:PriceAmount> ④
    <cbc:BaseQuantity unitCode="C62">1</cbc:BaseQuantity> ③
    <cac:AllowanceCharge>
        <cbc:ChargeIndicator>false</cbc:ChargeIndicator>
        <cbc:Amount currencyID="AED">40</cbc:Amount> ②
        <cbc:BaseAmount currencyID="AED">450</cbc:BaseAmount> ①
    </cac:AllowanceCharge>
</cac:Price>
```

① Item gross price

② Item price discount

③ Item price base quantity

④ Item net price, must be equal to Item Gross price - item price discount (if these elements are used)

UBL example of price without price discount

```
<cac:Price>
    <cbc:PriceAmount currencyID="AED">200</cbc:PriceAmount>
    <cbc:BaseQuantity unitCode="C62">2</cbc:BaseQuantity>
</cac:Price>
```

2.8. Unit of measure

Unit of measure in an invoice allows the use of codes from UNECE Recommendation No. 20 (version 11e), as well as codes from UNECE Recommendation No. 21 prefixed with an X.

Table 2. Examples of unit of measure from Recommendation No. 20

Code	Name
H87	Piece
KGM	Kilogram
MTR	Meter
LTR	Litre
MTK	Square metre
MTQ	Cubic metre
KTM	Kilometre
TNE	Tonne (metric ton)
KWH	Kilowatt hour
DAY	Day

Code	Name
HUR	Hour
MIN	Minute

Table 3. Examples of unit of measure from Recommendation No. 21, prefixed with an X

Code	Name
XBG	Bag
XBX	Box
XCT	Carton
XCY	Cylinder
XBA	Barrel
XPK	Package
XPX	Pallet
XRL	Reel
XSA	Sack
XST	Sheet

UBL example of unit of measure

```
<cbc:InvoicedQuantity unitCode="C62">1</cbc:InvoicedQuantity> ①
<cbc:InvoicedQuantity unitCode="XPX">1</cbc:InvoicedQuantity> ②
```

① Code H87 from Recommendation no. 20

② Code PX, prefixed with an X from Recommendation no. 21

Chapter 3. Tax information

3.1. Tax in accounting currency

If the invoice currency is different from the accounting currency, this is expressed in the invoice by stating the accounting currency in element ‘Tax accounting currency’ (ibt-006), and the amount of tax payable in accounting currency is stated in element ‘Invoice total VAT amount in tax accounting currency’ (ibt-111).

UBL example of tax currency:

```
<cbc:DocumentCurrencyCode>EUR</cbc:DocumentCurrencyCode>
<cbc:TaxCurrencyCode>AED</cbc:TaxCurrencyCode>
<cac:TaxTotal>
    <cbc:TaxAmount currencyID="EUR">200.00</cbc:TaxAmount>
    <cac:TaxSubtotal>
        <cbc:TaxableAmount currencyID="EUR">4000.0</cbc:TaxableAmount>
        <cbc:TaxAmount currencyID="EUR">200</cbc:TaxAmount>
        <cac:TaxCategory>
            <cbc:ID>S</cbc:ID>
            <cbc:Percent>5</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:TaxCategory>
    </cac:TaxSubtotal>
</cac:TaxTotal>
<cac:TaxTotal>
    <cbc:TaxAmount currencyID="AED">16758.00</cbc:TaxAmount>
</cac:TaxTotal>
```

- Invoice currency
- Accounting currency
- VAT amount in invoice currency
- VAT amount in tax accounting currency

The following section provides information on specific tax aspects.

3.1.1. VAT line amount (BTAE-08) and Invoice line amount in AED (BTAE-10)

In accordance with UAE VAT regulations, it is mandatory to specify the VAT amount and the total amount payable in AED for each good or service supplied. To ensure compliance, the VAT amount should be provided in the "VAT Line Amount" field (BTAE-08), while the total amount payable must be provided in the "Invoice line amount in AED" field (BTAE-10). For lines with the tax category 'E' (Exempt from tax), the VAT line amount (BTAE-08) is not provided. This requirement applies regardless of whether the invoice is issued in AED or any other currency. Adhering to these guidelines is essential for accurate tax reporting and compliance with local regulations.

3.1.2. Invoice (or CreditNote) total amount with VAT in AED (BTAE-20)

In compliance with UAE VAT regulations, it is essential to specify the gross amount payable for an invoice in AED. In instances where the document currency differs from AED, and the tax accounting currency is AED, the gross total payable amount in AED must be provided in the "Invoice (or CreditNote) total amount with VAT in AED" field (BTAE-20).

3.2. Value Added Tax (VAT)

The subsections below describe the different VAT information that can be provided in a tax invoice or tax credit note. Please also refer to the Tax Calculation section for details on the tax category code list and a detailed explanation and example of how to perform the calculations for the tax breakdown.

3.2.1. Line Tax Information

Each invoice line shall have the ‘Invoiced item VAT category code’ (ibt-151). For all VAT categories except ‘E’ (Exempt from tax) and ‘O’ (Not subject to tax), a VAT rate shall be provided.

3.2.2. Document Level Allowance or Charge

A ‘Document level allowance’ (ibg-20) or ‘Document level charge’ (ibg-21) must be associated with a ‘Document level allowance VAT category code’ (ibt-095) or ‘Document level charge VAT category code’ (ibt-102) as required. A tax rate is always required other than in relation to ‘E’ (Exempt from tax) and ‘O’ (Not subject to tax).

3.2.3. Tax Breakdown

A tax breakdown must be provided for each distinct combination of tax category codes and tax rates found in the ‘Tax line information’ (ibg-30) or ‘Document level allowance/charge’ (ibg-20 or ibg-21) sections, as the case may be. For the tax category 'Z' (Zero rated) the tax rate is 0 and must be provided. For the tax category 'E' (Exempt from tax) no tax rate is provided in the tax breakdown. Please note that for the tax rate, only significant decimals are relevant. Any difference in trailing zeros should not result in a different tax breakdown.

Example 1. Example 1

> Invoice line 1 has category code = S and VAT rate = 5
>
> Invoice line 2 has category code = S and VAT rate = 5.00

This should result in only one VAT breakdown.

3.2.4. Invoice total tax amount

‘The Invoice total VAT amount’ (ibt-110) is the sum of all ‘VAT category Tax Amount’ (ibt-117).

3.2.5. Invoice total in VAT accounting currency

Although the ‘Invoice currency’ (ibt-005) does not have to be shown in the United Arab Emirates Dirham (AED) the seller is required to state all tax amounts in AED. In such cases, AED must be used as the ‘Tax currency code’ (ibt-006).

3.2.6. VAT Reporting

The invoice serves as a vehicle for conveying VAT related information from the Seller to the Buyer, facilitating accurate VAT recording and reporting by both parties. An invoice should contain sufficient information to allow the Buyer and any auditors to assess the invoice accuracy in terms of VAT compliance. The invoice should facilitate the identification of the applicable VAT rules and clearly detail the tax calculation and description, in accordance with the relevant VAT laws of the UAE.

Chapter 4. Rules

The information given in a PINT invoice must comply to a set of rules on the content of the business terms as well as the relationship between them.

4.1. Calculations

4.1.1. Calculation of totals

Formulas for the calculations of totals are as follows:

Business term id	Term name	Calculation
IBT-106	Sum of invoice line net amounts	`sum("IBT-131: Invoice line net amount")`
IBT-107	Sum of allowances on document level	`sum("IBT-92: Document level allowance amount")`
IBT-108	Sum of charges on document level	`sum("IBT-99: Document level charge amount")`

IBT-109	Invoice total amount without TAX	`\ \ \ \ "IBT-106: Sum of invoice line net amounts"`
		`- \ "IBT-107: Sum of allowances on document level"`
		`+ \ "IBT-108: Sum of charges on document level"`

IBT-110	Invoice total TAX amount	`sum("IBT-117: TAX category tax amount")`
IBT-112	Invoice total amount with TAX	`\ \ \ \ "IBT-109: Invoice total amount without TAX"` `+ \ "IBT-110: Invoice total TAX amount"`

IBT-115	Amount due for payment	`\ \ \ \ "IBT-112: Invoice total amount with TAX"`
		`- \ "IBT-113: Paid amount"`
		`+ \ "IBT-114: Rounding amount"`

4.1.2. UBL syntax calculation formulas

The following elements show the legal monetary totals for an invoice or credit note

Element	Formula
<cbc:LineExtensionAmount>	`sum("cac:InvoiceLine/cbc:LineExtensionAmount")`
<cbc:AllowanceTotalAmount>	`sum("cac:AllowanceCharge[ChargeIndicator='false']/cbc:Amount")`

Element	Formula
<cbc:ChargeTotalAmount>	`sum("cac:AllowanceCharge[ChargeIndicator='true']/cbc:Amount")`

<cbc:TaxExclusiveAmount>	`\ \ \ \ "cac:LegalMonetaryTotal/cbc:LineExtensionAmount"`
	`\ "cac:LegalMonetaryTotal/cbc:AllowanceTotalAmount"`
	`+ \ "cac:LegalMonetaryTotal/cbc:ChargeTotalAmount"`

<cbc:TaxInclusiveAmount>	`\ \ \ \ "cac:LegalMonetaryTotal/cbc:TaxExclusiveAmount"` `+ \ "cac:TaxTotal/cbc:TaxAmount"`
<cbc:PrepaidAmount>	*Not applicable*
<cbc:PayableRoundingAmount>	*Not applicable*

<cbc:PayableAmount>	`\ \ \ \ "cac:LegalMonetaryTotal/cbc:TaxInclusiveAmount"`
	`- \ "cac:LegalMonetaryTotal/cbc:PrepaidAmount"`
	`+ \ "cac:LegalMonetaryTotal/cbc:PayableRoundingAmount"`

Element for rounding amount, the PayableRoundingAmount

It is possible to round the expected payable amount.

The element `cac:LegalMonetaryTotal/cbc:PayableRoundingAmount` is used for this purpose and is specified on the header level. This value shall be added to the value in `cac:LegalMonetaryTotal/cbc:PayableAmount`.

4.1.3. Calculation on line level

Item net price (IBT-146)

If gross price and discount exist, the Item net price has to equal with the item gross price less the item price discount.

Calculation formula:

```
"Item net price" = "Item gross price (IBT-148)" - "Item price discount (IBT-147)"
```

UBL example of item net price

```
<cac:Price>
    <cbc:PriceAmount currencyID="AED">410</cbc:PriceAmount>③
    <cbc:BaseQuantity unitCode="C62">1</cbc:BaseQuantity>
    <cac:AllowanceCharge>
        <cbc:ChargeIndicator>false</cbc:ChargeIndicator>
        <cbc:Amount currencyID="AED">40</cbc:Amount>②
        <cbc:BaseAmount currencyID="AED">450</cbc:BaseAmount>①
    </cac:AllowanceCharge>
</cac:Price>
```

① Item gross price

② Item price discount

③ `"Item price net amount" = "Item gross price" - "Item price discount"`

Invoice line net amount (IBT-131)

The invoice line net amount (IBT-131) is as the name implies the **net** amount without TAX, and inclusive of line level allowance and charges.

The formula for calculating the invoice line net amount is:

```
"Item line net amount" = (("Item net price (IBT-146)" div "Item price base quantity (IBT-149)")
times ("Invoiced Quantity (IBT-129)")
+ "Invoice line charge amount (IBT-141)" - "Invoice line allowance amount (IBT-136)"
```



If the line net amount must be rounded to maximum decimals, please note that the different parts of the calculation must be rounded separately.
I.e the result of: `"Item line net amount" = (("Item net price (IBT-146)" div "Item price base quantity (IBT-149)") times ("Invoiced Quantity (IBT-129)")` must be rounded to maximum decimals, and the allowance/charge amounts are also rounded separately.

UBL example of invoice line net amount where no line allowance/charge exist

```
<cbc:InvoicedQuantity unitCode="C62">10</cbc:InvoicedQuantity>③
<cbc:LineExtensionAmount currencyID="AED">1000.00</cbc:LineExtensionAmount>④
<!-- Code omitted for clarity-->
<cac:Price>
    <cbc:PriceAmount currencyID="AED">200</cbc:PriceAmount>①
    <cbc:BaseQuantity unitCode="C62">2</cbc:BaseQuantity>②
</cac:Price>
```

① Item net price

② Item price base quantity

③ Invoiced quantity

④ `"Invoice line net amount" = (("Item net price" div "Item price base quantity") times ("Invoiced Quantity")`

UBL example of invoice line net amount where line allowance and charge exist

```
<cbc:InvoicedQuantity unitCode="C62">10</cbc:InvoicedQuantity>④
<cbc:LineExtensionAmount currencyID="AED">900.00</cbc:LineExtensionAmount>⑤
<!-- Code omitted for clarity-->
 <cac:AllowanceCharge>
    <cbc:ChargeIndicator>true</cbc:ChargeIndicator>
    <cbc:AllowanceChargeReasonCode>CG</cbc:AllowanceChargeReasonCode>
    <cbc:AllowanceChargeReason>Charge</cbc:AllowanceChargeReason>
    <cbc:MultiplierFactorNumeric>1</cbc:MultiplierFactorNumeric>
    <cbc:Amount currencyID="AED">1</cbc:Amount>②
    <cbc:BaseAmount currencyID="AED">100</cbc:BaseAmount>
</cac:AllowanceCharge>
<cac:AllowanceCharge>
    <cbc:ChargeIndicator>false</cbc:ChargeIndicator>
    <cbc:AllowanceChargeReasonCode>95</cbc:AllowanceChargeReasonCode>
    <cbc:AllowanceChargeReason>Discount</cbc:AllowanceChargeReason>
    <cbc:Amount currencyID="AED">101</cbc:Amount>③
</cac:AllowanceCharge>
<!-- Code omitted for clarity-->
<cac:Price>
    <cbc:PriceAmount currencyID="AED">100</cbc:PriceAmount>①
</cac:Price>
```

① Item net price

② Line charge amounts

③ Line allowance amount

④ Invoiced quantity

⑤ `"Invoice line net amount" = ("Item net price" times "Invoiced Quantity") + "line charge amount" - "line allowance amount"`

4.1.4. Calculation of allowance/charge amount

Allowance and charge on document- and line level consists of elements carrying information on the allowance/charge base amount and the allowance/charge percentage. These are, if present in the invoice instance, used for calculating the allowance/charge amount.

If base amount is present, the percentage shall also be present, and if percentage is present, the base amount shall also be present, and the calculation of the amount shall be:

```
"Amount" = "Base amount" times ("Percentage" div 100)
```

UBL example of calculations of allowances and charges where base amount and percentage exist

```
<cac:AllowanceCharge>
    <cbc:ChargeIndicator>true</cbc:ChargeIndicator>
    <cbc:AllowanceChargeReasonCode>CG</cbc:AllowanceChargeReasonCode>
    <cbc:AllowanceChargeReason>Cleaning</cbc:AllowanceChargeReason>
    <cbc:MultiplierFactorNumeric>20</cbc:MultiplierFactorNumeric>②
    <cbc:Amount currencyID="AED">200</cbc:Amount> ③
    <cbc:BaseAmount currencyID="AED">1000</cbc:BaseAmount>①
    <cac:TaxCategory>
        <cbc:ID>SR</cbc:ID>
        <cbc:Percent>9</cbc:Percent>
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:TaxCategory>
</cac:AllowanceCharge>
```

① Base amount, to be used with the percentage to calculate the amount

② Charge percentage

③ "Base amount" times ("Percentage" div 100) = "Amount"

UBL example of calculations of allowances and charges where base amount and percentage does not exist

```
<cac:AllowanceCharge>
    <cbc:ChargeIndicator>false</cbc:ChargeIndicator>
    <cbc:AllowanceChargeReasonCode>95</cbc:AllowanceChargeReasonCode>
    <cbc:AllowanceChargeReason>Discount</cbc:AllowanceChargeReason>
    <cbc:Amount currencyID="AED">200</cbc:Amount>①
    <cac:TaxCategory>
        <cbc:ID>SR</cbc:ID>
        <cbc:Percent>9</cbc:Percent>
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:TaxCategory>
</cac:AllowanceCharge>
```

① Amount of allowance without calculations based on base amount and percentage

4.2. Rounding

4.2.1. Shared rounding rules

The following amounts in an invoice must not have more decimals than allowed for their currency: 3 for BHD, IQD, JOD, KWD, LYD, OMR and TND, 4 for CLF and UYW, and 2 for every other currency, including the currencies that have 0 decimals in ISO 4217. Every digit after the decimal point counts, including trailing zeros, and the amount must not contain whitespace.

- Sum of allowances on document level (ibt-107)
- Sum of charges on document level (ibt-108)
- Invoice total amount without TAX (ibt-109)
- Invoice total TAX amount (ibt-110)
- Invoice total TAX amount in accounting currency (ibt-111)
- Invoice total amount with TAX (ibt-112)
- Amount due for payment (ibt-115)

4.3. Aligned calculations

This section explains how tax is calculated in the jurisdiction as well as other rules thar are specific to the jurisdiction.

4.3.1. Aligned calculations

This section explains how tax is calculated in the jurisdiction as well as other rules that are specific to the jurisdiction.

Calculations in UAE

For certain tax categories, the tax amount must be set to zero. These categories are:

- E - Exempt from tax
- O - Goods or services outside the scope of tax or not subject to tax
- Z - Zero-rated
- AE - VAT reverse charge
- N - Standard rate additional VAT

In the UAE it is common for invoices to include several different types of supply, each potentially belonging to a different tax category. For instance, some items on an invoice may be charged at standard tax rate, which is indicated by the tax category code ‘S’ with its corresponding tax rate. Other items on the same invoice might be ‘E’ (Exempt from tax) or ‘O’ (Not subject to tax), ‘Z‘ (Zero rated) or ‘AE’ (VAT reverse charge).

Invoices from the UAE categorized under code ‘480’ (Out of Scope of Tax) or credit notes under code ‘81’ (Credit Note related to Goods or Services) should only be associated with tax category code ‘E’ (Exempt from tax) and ‘O’ (Not subject to tax) whichever is relevant to the specific case.

Tax on allowances and charges

Each allowance or charge at the document level specifies its own tax rate and tax category. These specifications exclude the tax amount itself. The tax amount is determined by including the ‘Document level allowance amount’ (ibt-092) and ‘Document level charge amount’ (ibt-099) in the calculation of ‘VAT category taxable amount’ (ibt-116).

Allowances and charges at the line level do not have individual tax rates or tax categories. The amounts for allowances (ibt-136) and charges (ibt-141) are presented without tax. These amounts contribute to the 'Invoice line net amount' (ibt-131), which is subsequently factored into the tax breakdown's 'VAT category taxable amount' (ibt-116).

Tax breakdowns

One tax breakdown (ibg-23) must be provided for each distinct combination of tax category code and tax rate found in the 'Line tax information' (ibg-30) or 'Document level allowance/charge' (ibg-20 or ibg-21) sections. Please note that for the tax rate, only significant decimals are relevant. Any difference in trailing zeros should not result in a different tax breakdown.

Example 2. Example

> Invoice line 1 has category code = S and tax rate = 5
>
> Invoice line 2 has category code = S and tax rate = 5.00

This should result in only one Tax Breakdown.

For each distinct combination of tax category code and tax rate the calculations are:

Business term id	Term name	Calculation

ibt-116	VAT category taxable amount	`\ \ \ \ "sum(Invoice line net amounts (ibt-131))"`
		`+ \ "Document level charge amount (ibt-099)"`
		`- \ "Document level allowance amount (ibt-092)"`

ibt-117	VAT category tax amount	`\ \ \ \ "Tax category taxable amount (ibt-116)"`
		`x \ "VAT rate (ibt-119)"`
		`/ \ "100"`

When the VAT category code is 'AE', then the VAT category tax amount (ibt-117) should be 'zero' even if Tax category taxable amount (ibt-116) and Tax rate (ibt-119) is not 'zero'.

UBL example of calculations of Tax Breakdown

```
<cac:AllowanceCharge>
    <cbc:ChargeIndicator>true</cbc:ChargeIndicator>
    <cbc:AllowanceChargeReason>Cleaning</cbc:AllowanceChargeReason>
    <cbc:Amount currencyID="AED">200</cbc:Amount>
    <cac:TaxCategory>
        <cbc:ID>S</cbc:ID>
        <cbc:Percent>5</cbc:Percent>
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:TaxCategory>
</cac:AllowanceCharge>
<cac:AllowanceCharge>
```

```
    <cbc:ChargeIndicator>false</cbc:ChargeIndicator>
    <cbc:AllowanceChargeReason>Discount</cbc:AllowanceChargeReason>
    <cbc:Amount currencyID="AED">100</cbc:Amount>
    <cac:TaxCategory>
        <cbc:ID>S</cbc:ID>
        <cbc:Percent>5</cbc:Percent>
        <cac:TaxScheme>
            <cbc:ID>VAT</cbc:ID>
        </cac:TaxScheme>
    </cac:TaxCategory>
</cac:AllowanceCharge>
<cac:TaxTotal>
    <cbc:TaxAmount currencyID="AED">250.00</cbc:TaxAmount>
    <cac:TaxSubtotal>
        <cbc:TaxableAmount currencyID="AED">5000.00</cbc:TaxableAmount>
        <cbc:TaxAmount currencyID="AED">250.00</cbc:TaxAmount>
        <cac:TaxCategory>
            <cbc:ID>S</cbc:ID>
            <cbc:Percent>5</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:TaxCategory>
    </cac:TaxSubtotal>
    <cac:TaxSubtotal>
        <cbc:TaxableAmount currencyID="AED">2000.00</cbc:TaxableAmount>
        <cbc:TaxAmount currencyID="AED">0</cbc:TaxAmount>
        <cac:TaxCategory>
            <cbc:ID>E</cbc:ID>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:TaxCategory>
    </cac:TaxSubtotal>
<cac:TaxSubtotal>
        <cbc:TaxableAmount currencyID="AED">50.00</cbc:TaxableAmount>
        <cbc:TaxAmount currencyID="AED">0</cbc:TaxAmount>
        <cac:TaxCategory>
            <cbc:ID>Z</cbc:ID>
            <cbc:Percent>0</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:TaxCategory>
    </cac:TaxSubtotal>
<cac:TaxSubtotal>
        <cbc:TaxableAmount currencyID="AED">50.00</cbc:TaxableAmount>
        <cbc:TaxAmount currencyID="AED">0</cbc:TaxAmount>
        <cac:TaxCategory>
            <cbc:ID>AE</cbc:ID>
            <cbc:Percent>5</cbc:Percent>
```

```
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:TaxCategory>
    </cac:TaxSubtotal>
</cac:TaxTotal>
<cac:LegalMonetaryTotal>
    <cbc:LineExtensionAmount currencyID="AED">7000</cbc:LineExtensionAmount>
    <cbc:TaxExclusiveAmount currencyID="AED">7100</cbc:TaxExclusiveAmount>
    <cbc:TaxInclusiveAmount currencyID="AED">7350</cbc:TaxInclusiveAmount>
    <cbc:AllowanceTotalAmount currencyID="AED">100</cbc:AllowanceTotalAmount>
    <cbc:ChargeTotalAmount currencyID="AED">200</cbc:ChargeTotalAmount>
    <cbc:PayableAmount currencyID="AED">7350</cbc:PayableAmount>
</cac:LegalMonetaryTotal>
<cac:InvoiceLine>
    <cbc:ID>1</cbc:ID>
    <cbc:Note>Testing note on line level</cbc:Note>
    <cbc:InvoicedQuantity unitCode="C62">10</cbc:InvoicedQuantity>
    <cbc:LineExtensionAmount currencyID="AED">4000.00</cbc:LineExtensionAmount>
        <!-- code omitted for clarity -->
        <cac:ClassifiedTaxCategory>
            <cbc:ID>S</cbc:ID>
            <cbc:Percent>5</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:ClassifiedTaxCategory>
<!-- code omitted for clarity -->
<cac:InvoiceLine>
    <cbc:ID>2</cbc:ID>
    <cbc:InvoicedQuantity unitCode="C62">10</cbc:InvoicedQuantity>
    <cbc:LineExtensionAmount currencyID="AED">2000.00</cbc:LineExtensionAmount>
        <!-- code omitted for clarity -->
        <cac:ClassifiedTaxCategory>
            <cbc:ID>E</cbc:ID>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:ClassifiedTaxCategory>
<!-- code omitted for clarity -->
<cac:InvoiceLine>
    <cbc:ID>3</cbc:ID>
    <cbc:InvoicedQuantity unitCode="C62">10</cbc:InvoicedQuantity>
    <cbc:LineExtensionAmount currencyID="AED">900.00</cbc:LineExtensionAmount>
        <!-- code omitted for clarity -->
        <cac:ClassifiedTaxCategory>
            <cbc:ID>S</cbc:ID>
            <cbc:Percent>5</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
```

```
        </cac:ClassifiedTaxCategory>
<!-- code omitted for clarity -->
<cac:InvoiceLine>
    <cbc:ID>4</cbc:ID>
    <cbc:InvoicedQuantity unitCode="C62">10</cbc:InvoicedQuantity>
    <cbc:LineExtensionAmount currencyID="AED">50.00</cbc:LineExtensionAmount>
        <!-- code omitted for clarity -->
        <cac:ClassifiedTaxCategory>
            <cbc:ID>Z</cbc:ID>
            <cbc:Percent>0</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:ClassifiedTaxCategory>
<!-- code omitted for clarity -->
<cac:InvoiceLine>
    <cbc:ID>5</cbc:ID>
    <cbc:InvoicedQuantity unitCode="C62">10</cbc:InvoicedQuantity>
    <cbc:LineExtensionAmount currencyID="AED">50.00</cbc:LineExtensionAmount>
        <!-- code omitted for clarity -->
        <cac:ClassifiedTaxCategory>
            <cbc:ID>AE</cbc:ID>
            <cbc:Percent>5</cbc:Percent>
            <cac:TaxScheme>
                <cbc:ID>VAT</cbc:ID>
            </cac:TaxScheme>
        </cac:ClassifiedTaxCategory>
```

- Document level charge amount for category S and rate 5%
- Document level allowance amount for category S and rate 5%
- Tax breakdown 1 for category S and rate = 5% Taxable amount for this tax breakdown = sum of line amount (line 1 and 3), plus charge amount minus allowance amount where category = S and rate = 5%
- Tax Amount = Taxable amount × (Tax rate÷100)
- Tax Breakdown 2 for category E. No rate is given for category E
- Tax Breakdown 3 for category Z (Zero rated), and rate = 0% Taxable amount for this tax breakdown = sum of line amount (line 4) where category = Z
- Tax Breakdown 4 for category AE (VAT reverse charge), and rate = 5% Taxable amount for this tax breakdown = sum of line amount (line 5) where category = AE. Tax amount is zero even if taxable amount and rate are not zero.

Chapter 5. Technical details

Following section provide technical details.

5.1. BIS Identifiers

Peppol has a defined policy that specifies how to use identifiers in both its transport infrastructure and within the documents exchanged across that infrastructure. It also introduces principles for any identifiers used in the Peppol environment. The policies that apply to this BIS are the following:

5.1.1. Profiles and messages

All messages contains Business process type (IBT-23) and Specification identifier (IBT-24). Business process type (IBT-23) identifies what business process a given message is part of, and Specification identifier (IBT-24) identifies the kind of message and the rules applied.

Profiles are connected to one business process, and may contain multiple document types. Valid document instances shall contain corresponding Business process type (IBT-23) and Specification identifier (IBT-24).



Specification identifier (IBT-24) is a string without spaces. The list below contains spaces in Specification identifier (IBT-24) to make them easier to read. **Make sure to remove any spaces before use.**

In the table below you will find the values to be used as the specification identifier (IBT-24) and the business process type (IBT-23) for this profile

Type	**Element** `cbc:CustomizationID`	**Element** `cbc:ProfileID`
Invoice and credit note	urn:peppol:pint:billing-1@ae-1	urn:peppol:bis:billing

UBL example of profile identifier

```
<cbc:CustomizationID>urn:peppol:pint:billing-1@ae-1</cbc:CustomizationID>
<cbc:ProfileID>urn:peppol:bis:billing</cbc:ProfileID>
```

5.1.2. Document type identifier scheme

It is mandatory to follow the Policy for Identifiers. Only the peppol-doctype-wildcard Document Type Identifier scheme is allowed.

5.2. Datatypes

Semantic data types are used to bridge the gap between the semantic concepts expressed by the information elements defined in the semantic model and the technical implementation. The semantic data types define the allowed value domain for the content, and any additional

information components (attributes) needed in order to ensure its precise interpretation.

5.2.1. Primitive types

Semantic data type content may be of the following primitive types. These primitive types were taken from ISO15000, Annex A.

Primitive type	Definition
Binary	A set of finite-length sequences of binary digits.
Date	Time point representing a calendar day on a time scale consisting of an origin and a succession of calendar ISO8601.
Decimal	A subset of the real numbers, which can be represented by decimal numerals.
String	A finite sequence of characters.

5.2.2. Semantic data types

The different semantic data types are described in the tables below, where various features such as attributes, format, and decimals as well as the basic type are defined for each semantic data type. They are based on {ISO15000}.

When used in an instance of an invoice, each data element will contain data. In the below tables this is identified as the “content”. Whenever a business term is used this term shall **always** have content and therefore the content is always mandatory.

Amount

An amount states a numerical monetary value. The currency of the amount is defined as a separate business term.

Component	Use	Primitive Type	Example
Content	Mandatory	Decimal	10000

Unit Price Amount

A unit price amount states a numerical monetary amount value for data elements that contain item prices that may be multiplied by item quantities. The currency of the amount is defined as a separate business term.



Unit price amount does not set restrictions on number of decimals, as contrast to the Amount type

Component	Use	Primitive Type	Example
Content	Mandatory	Decimal	10000.1234

Percentage

Percentages are given as fractions of a hundred (per cent) e.g. the value 34.78 % in percentage terms is given as 34.78.



No restriction on number of decimals for percentages.

Component	Use	Primitive Type	Example
Content	Mandatory	Decimal	34.7812

Quantity

Quantities are used to state a number of units such as for items. The code for the Unit of Measure is defined as a separate business term.



No restriction on number of decimals for quantities.

Component	Use	Primitive Type	Example
Content	Mandatory	Decimal	10000.1234

Code

Codes are used to specify allowed values in elements as well as for lists of options. Code is different from Identifier in that allowed values have standardized meanings that can be known by the recipient.



Codes shall be entered exactly as shown in the selected code list of the applicable syntax.

Component	Use	Primitive Type	Example
Content	Mandatory	String	Abc123

Indicator

Indicators are used to give bolean values to state whether something is (true) or is not (false).



Indicators shall be used in lower case.



Default value is "false" and applies if the relevant business term is not used.

Component	Use	Primitive Type	Allowed values
Content	Mandatory	String	false
			true

Identifier

Identifiers (IDs) are keys that are issued by the sender or recipient of a document or by a third party.



The use of the attributes is specified for each information element.

Component	Use	Primitive Type	Example
Content	Mandatory	String	abc:123-DEF
Scheme identifier	Optional	String	GLN
Scheme version identifier	Optional	String	1.0

Date

Dates shall be in accordance to the “Calendar date complete representation” as specified by {ISO8601}, format **YYYY-MM-DD**.



Dates shall not include timezone information.

Table 4. EN 16931_ Date. Type

Component	Use	Primitive Type	Example
Content	Mandatory	Date	2017-12-01

Time

Time shall be according to UBL allowed format.



Time may include timezone information.

Table 5. EN 16931_ Date. Type

Component	Use	Primitive Type	Allowed forms
Content	Mandatory	Date	13:20:00 (1:30 PM)
			13:20:30.55 (30.55 sec)
			13:20:00Z (UTC)
			13:20:00-05:00 (UTC-5)
			00:00:00 (midnight)
			24:00:00 (midnight)

Time formats without time zone information (i.e. other than hh:mm:ssz and hh:mm:ss-h) shall be

interpreted as being in the time zone of the sellers address and according to daylight saving status on the issue date of the invoice.

Document Reference

Document Reference Types are identifiers that were assigned to a document or document line by the Buyer, the Seller or by a third party.

Table 6. Document Reference. Type

Component	Use	Primitive Type	Example
Content	Mandatory	String	abc:123-DEF

Text

Text is the actual wording of anything written or printed. Line breaks in the text may be present, and any line breaks should be preserved and respected by the receiver's system

Component	Use	Primitive Type	Example
Content	Mandatory	String	5% allowance when paid within 30 days

Binary object

Binary object can be used to describe files which are transmitted together with the Invoice. The attachment functionality is not intended for attaching a copy of the invoice in an image format (such as PDF). Attaching an invoice copy is not in compliance with this specification.

Attachments shall be transmitted together with the Invoice. The binary object has two supplementary components: a Mime Code, which specifies the Mime type of the attachment and a Filename that is provided by (or on behalf of) the sender of the invoice or credit note.

Component	Use	Primitive Type	Example
Content	Mandatory	Binary	QmFzZTY0IGNvbnRlbnQgZXhhbXBsZQ==
Mime Code	Mandatory	String	image/jpeg
Filename	Mandatory	String	drawing5.jpg

A receiver of an invoice or credit note, shall accept and process attachments that are according to the Media type code list.

5.3. UBL schemas and namespaces

The XML schemas used are

- UBL Invoice 2.1, with the target namespace `urn:oasis:names:specification:ubl:schema:xsd:Invoice-2`

- UBL CreditNote 2.1 with the target namespace `urn:oasis:names:specification:ubl:schema:xsd:CreditNote-2`

5.4. Glossary

electronic invoice - invoice that has been issued, transmitted and received in a structured electronic format which allows for its automatic and electronic processing

semantic data model - structured set of logically interrelated information elements

information element - semantic concept that can be defined independent of any particular representation in a syntax

structured information element - information element that can be processed automatically

syntax - machine-readable language or dialect used to represent the information elements contained in an electronic document (e.g. an electronic invoice)

business term - label assigned to a given information element which is used as a primary reference

identifier - character string used to establish the identity of, and distinguish uniquely, one instance of an object within an identification scheme from all other objects within the same scheme Note 1 to entry: An identifier may be a word, number, letter, symbol, or any combination of those, depending on the identification scheme used.

identification scheme - collection of identifiers applicable for a given type of object governed under a common set of rules

compliant - some or all features of the invoice model are used and all rules of the invoice model are respected Note 1 to entry: Based on TOGAF definition of a compliant specification

conformant - all rules of the invoice model are respected and some additional features not defined in the invoice model are also used

Optional Whether the option is used or not is the choice of the users independently from other data in the message.

Conditional Whether the option is used or not and in what way is dependent on other data in the message.

Mandatory The option must be used in all messages.

shall - the definition is an absolute requirement of the specification.

shall not - the definition is an absolute prohibition of the specification.

should - there may exist valid reasons in particular circumstances to ignore a particular item, but the full implications must be understood and carefully weighed before choosing a different course.

should not - there may exist valid reasons in particular circumstances when the particular

behavior is acceptable or even useful, but the full implications should be understood and the case carefully weighed before implementing any behavior described with this label.

may - is truly optional.