



[www.e2b.no](http://www.e2b.no)

# **e2b Invoice Format**

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## ***Message Description***

**Version: 3.4**

**06.12.2007**

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**CHANGE LOG**

DATE	VER	DONE BY	CHANGES
06.12.2007	3.4	Lars Olavesen	Ref. Change log: <a href="http://www.e2b.no">www.e2b.no</a>
22.06.2007	3.3.1	Are Berg	Corrected in chapter 3.7 – Message description which differs from XML Schema (Change log 06-10).
29.06.2006	3.3	Are Berg	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
23.12.2005	3.2	Are Berg/ Geir Bonde	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
01.07.2005	3.1	Are Berg	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
01.02.2005	3.0	Are Berg	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
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01.10.2004	2.0	Are Berg	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
16.06.2004	1.3	Are Berg	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
03.05.2004	1.2	Are Berg	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
16.04.2004	1.1	Are Berg	Ref. Change log <a href="http://www.e2b.no">www.e2b.no</a>
18.02.2004	1.0	Are Berg	First official version

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## **1. Introduction**

### **1.1 Background**

The purpose of the e2b Forum is to contribute to the increased use of electronic invoicing between companies. The e2b Forum consists of a number of large private Norwegian companies from different business sectors. The forum is also supported by central actors in the public area.

An important factor in achieving the goal of increased electronic invoicing is to agree on the content and structure of the information that is to be exchanged. A standard format will reduce implementation costs and motivate actors to start using electronic invoicing.

The e2b Invoice Format was developed by e2b Forum as an invoice format for Norwegian companies. The main scope of the format is to cover domestic Norwegian invoicing, but it may also be used for cross-border invoicing to a certain extent.

The reason for defining a Norwegian format was to ensure that it satisfied the following requirements stated by the Forum:

- The format must cover all types of invoicing
- The format must be easy to adopt for both large and small companies
- The format must be easy to expand in relation to needs from new business sectors
- The format must be independent of technical solutions

The e2b Invoice Format is managed by e2b Forum and its Steering Committee. The maintenance of the format is done by e2b Forum's Format Group.

### **1.2 Content**

This Message Description describes the invoice information relevant for Norwegian companies as defined in the e2b Invoice Format. The document consists of the following parts:

- The background for the message
- Description of the use of the message
- The structure of the message
- The definition of elements with examples
- Complete example message
- Information model

In cases where required data content and use of codes depart from the general description, specific Implementation Guidelines must be prepared, ref. chapter 2.2.

In addition to the basic part of the format, business specific extensions can be defined in order to meet the requirements for information in various business sectors. Business specific extensions will be described in specific documentations which are prepared by the individual business sector, ref. chapter 2.3.

### **1.3 Target group**

The target group for this document is IT and system personnel implementing solutions for the exchange of e2b invoice messages and integration of the format towards internal applications.

## 1.4 Table explanations

Below is an explanation to columns in the tables in chapter 4.

The name of the XML-element is a reference to the actual tag name in XML.

The description states rules for data content, legal values etc. At the very first in the description is the text which previous was the first field name (Field Name is a logical explanatory name on the actual element.)

Requirement states if the field is

M = Mandatory in the message

K = Optional in the message

A = Dependent of specific criterias

Repetition states how many times a field can or must be repeated. See below.

1 The field must be used once

1..3 The field must be used once and maximum three times

1..\* The field must be used once and maximum unbounded

0..1 The field may be used once

0..\* The field may be used unbounded

Type states the type of value that will be transmitted for the actual element in the XML-notation.

String = (Alfanumeric)

Integer

Decimal

Date = (YYYY-MM-DD)

Time= (HH:MM:SS)

DateTime = (YYYY-MM-DDTHH:MM:SS)

Attributes are marked with the prefix @

## 2. Use of the format

### 2.1 Scope and functionality

#### 2.1.1 Overview

The main scope of the format is to cover domestic Norwegian invoicing, but it may also be used for cross-border invoicing to a certain extent.

Figure 1 below shows which actors and functions that are covered by the format. Supplier and Buyer are mandatory. Other actors shown in the diagram are optional.

The business processes are more closely described in the following chapters.

Suppliers starts the business process Invoicing. The process is usually initiated as a result of a procurement or consumption of a service.

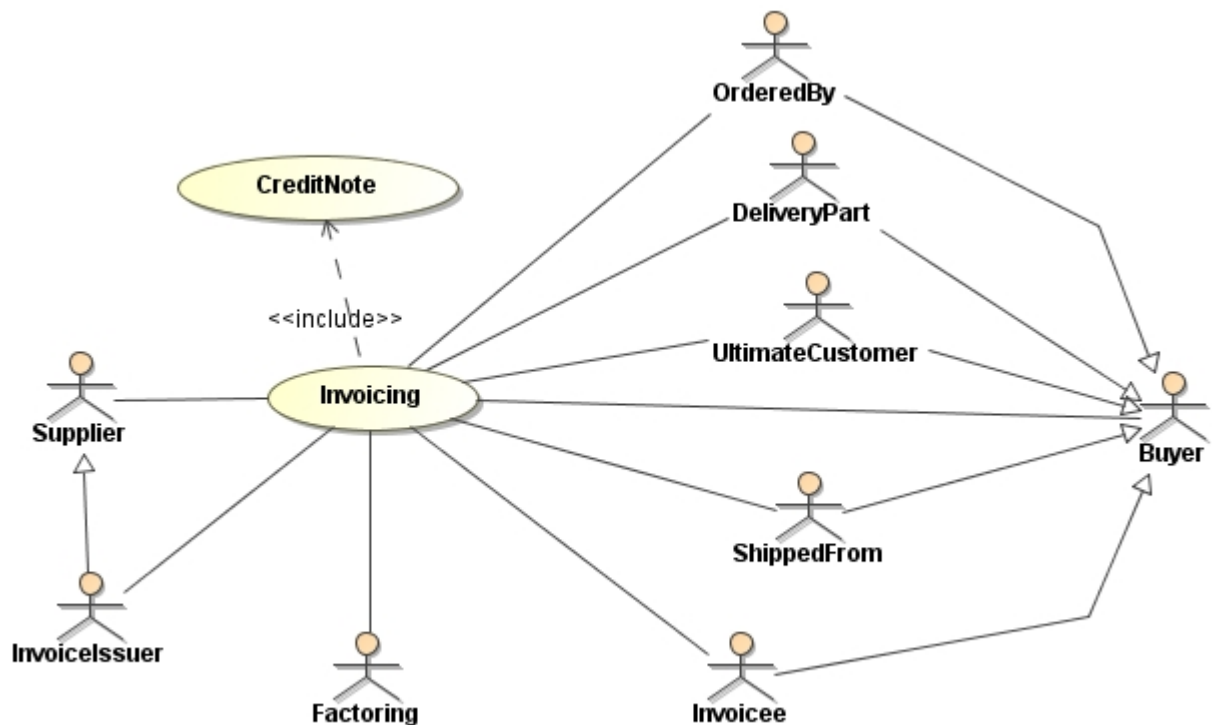
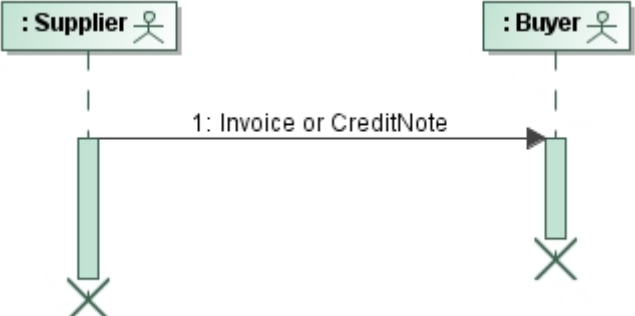
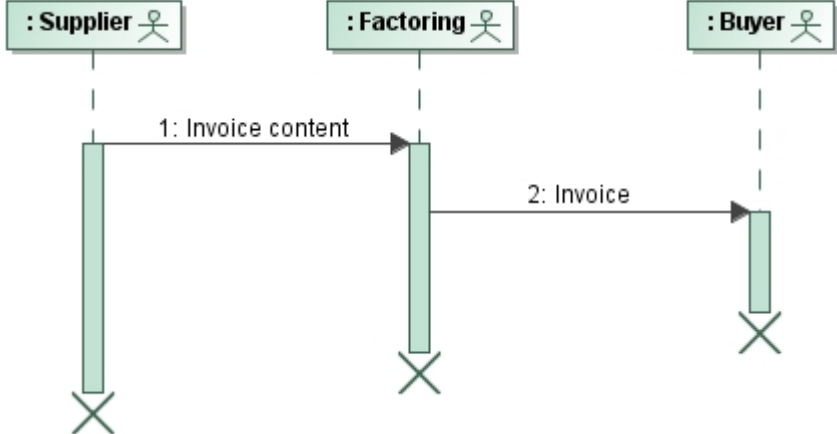
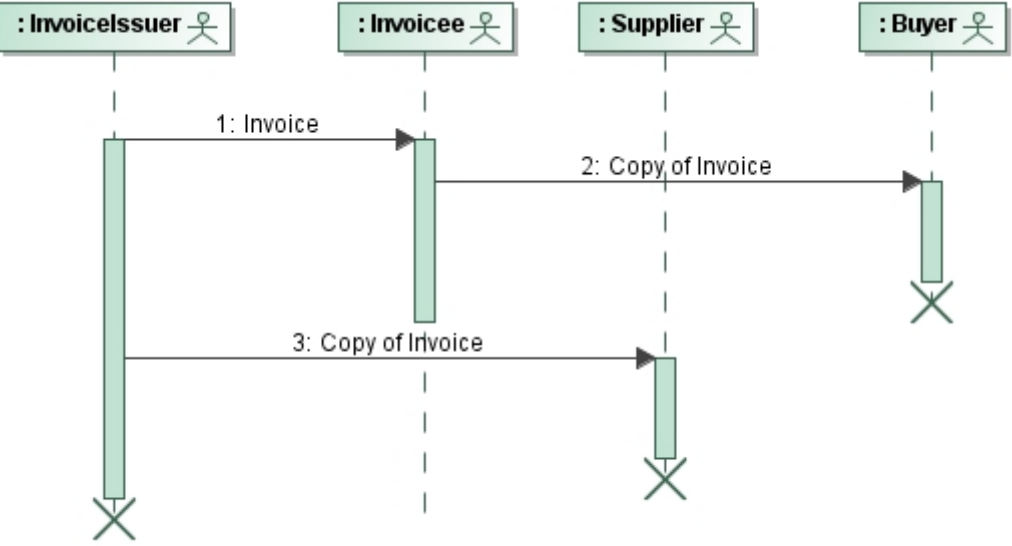


Figure 1: Actors and Business processes covered by the format

2.1.2 Invoicing process

<b>Process name</b>	Invoicing
<b>Identifier</b>	Not defined
<b>Roles</b>	Involved Roles in this process: <ul style="list-style-type: none"> <li>• Supplier (InvoiceIssuer, Factoring)</li> <li>• Buyer (Invoicee, UltimateCustomer, OrderedBy, ShippedFrom, DeliveredTo)</li> <li>• Suppliers can use Factoring companies</li> <li>• Both Supplier and Buyer can use Intermediary</li> </ul> Actors in brackets are relevant when different from Supplier or Buyer.
<b>Description</b>	Supplier generates and sends invoices to Buyer. Physical recipient of an invoice can be Buyer, Factoring company or an Intermediary. If the Supplier uses Factoring the original is sent to the Invoice recipient and a copy to the Factoring company. If the Supplier uses Intermediary the Intermediary forwards the invoice to the Invoice recipient.
<b>Preconditions</b>	The process is normally initiated as a result of handing over qualified ownership or consumption of services.
<b>Post conditions</b>	The process is terminated when the Buyer has received the invoice.
<b>Scenario/ workflow</b>	Suppliers send invoices to Buyers. There are some formal requirements to the information elements in the invoice. These requirements must be fulfilled.   <pre> sequenceDiagram     actor Supplier as : Supplier     actor Buyer as : Buyer     Supplier-&gt;&gt;Buyer: 1: Invoice or CreditNote     destroy Supplier     destroy Buyer                 </pre> <p><i>Figure 2: Supplier sends Invoice or Credit Note to Buyer</i></p>
<b>Performance Goals</b>	None

<p><b>Alternative Scenario</b></p>	 <p><i>Figure 3: The use of a Factoring company</i></p>  <p><i>Figure 4: The use of an Invoicelssuer and an Invoicee</i></p>
<p><b>Special Requirements</b></p>	<p>None</p>
<p><b>Extension Points</b></p>	<p>None</p>

### 2.1.3 Business documents

The e2b Invoice Format supports the following business documents:

<b>Functional Business Document</b>	<b>Sending role</b>	<b>Receiving role</b>	<b>Description</b>	<b>State</b>
<b>Invoice</b>	Supplier	Buyer	The invoice is used by the Supplier to arrange information about outstanding accounts towards the Buyer.	
<b>Credit note</b>	Supplier	Buyer	Credit note is used by the Supplier to arrange information about outstanding accounts to the benefit of the Buyer.	

## **2.2 Guidelines for use**

Individual use of the format must be documented in an Implementation Guide (IG). The IG should be based on this Message Description and may apply for one actor or a group of actors having the same requirements.

The use of the format is normally determined by requirements on the receiving side. This can be issues related to the

- receipt and control of invoices
- approval/attestation
- automatic matching towards orders
- accounting in account current book

Within a certain business sector it is also natural to view the complete trade process from ordering to payment. As being in the middle of the process, the invoice will be influenced by both the the content in the original order and the following payment.

All deviations from standard Message description must be stated in the IG, either in a specific chapter or directly in the documentation. That could be:

- Requirements for data content in fields which depart from the general documentation
- Specific content requirements to certain fields, for instance identifiers
- The use of specially defined References with codes

## **2.3 Principles for business specific extensions**

All e2b invoices consist of a minimum of basic information on the header, detail and total level. In addition, e2b invoices may contain information related to a specific business sector. This is information required to describe the product or the service being invoiced. Such business specific extensions can be included both on the header and detail level.

Each business sector is responsible to develop and maintain message descriptions (XML Schema) and documentation for their own business specific extensions.

The individual extensions must be proposed for the e2b Format group for approval in order to be included in the next planned release of the format.

To ensure the integrity and structure of the documentation in all types of e2b messages, the following principals are established for business specific extensions on detail level:

- If the business specific extension consists of information on more than one level (periodic invoice / sub invoice), then the extension should be put before the basic details in such a way that the basis details represents a total level of business specific details.
- If the business specific extension consists of information on one level only, then the extension should be added directly after the basis details for each invoice line.

## **2.4 Technical directives**

- Characterset: Unicode UTF-8
- Date format: YYYY-MM-DD
- Decimal point: Dot

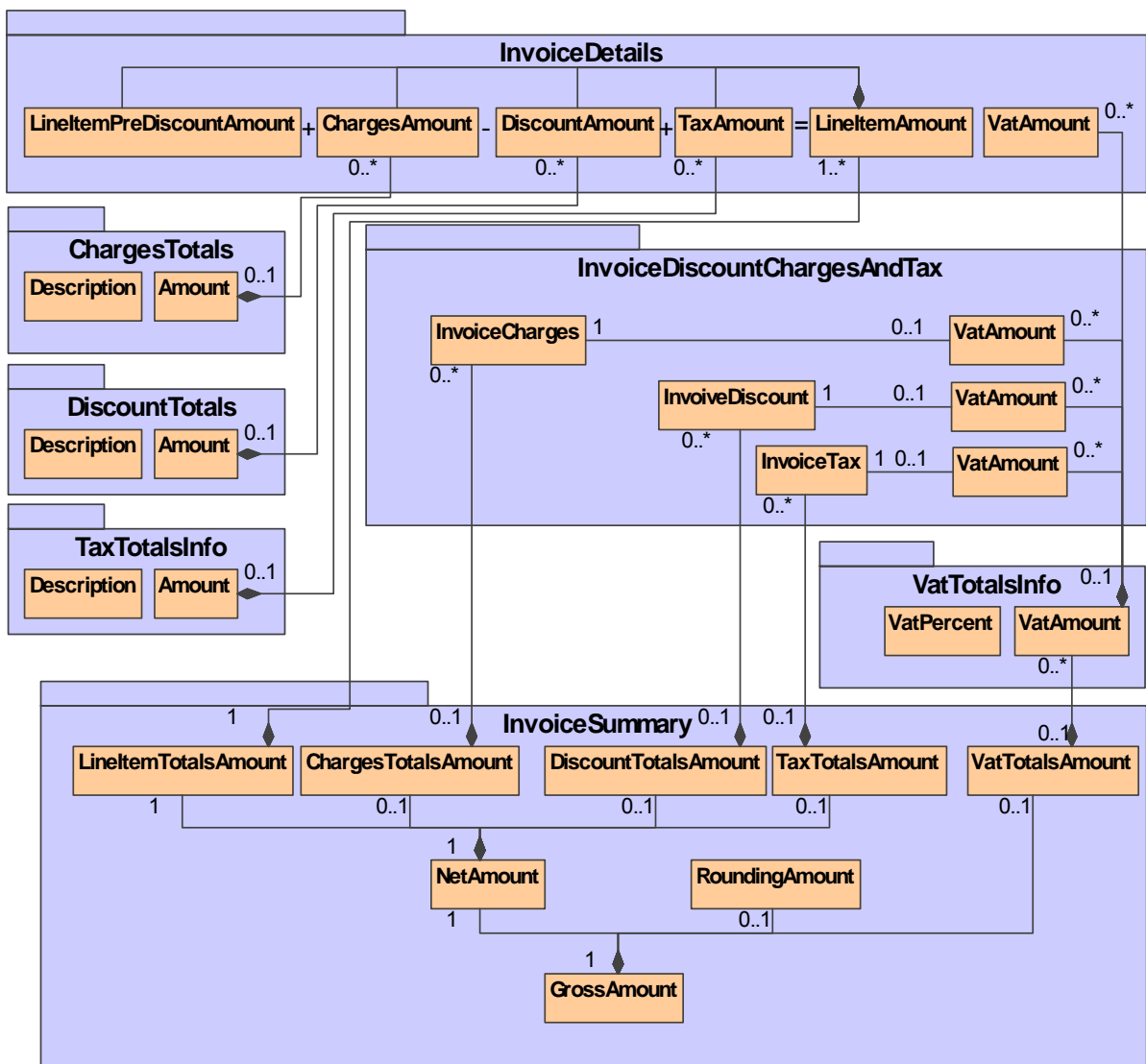
### 2.5 Amounts in the format

Amounts on detail level that are added to the Invoice total shall be positive both for the Invoice and the Credit Note

Amounts on detail level that are deducted from the Invoice total must have negative sign both on the Invoice and the Credit Note.

VAT amounts, discount amounts, charges and additions must be positive.

The figure below illustrates the connections between various types of amounts in the message. Both +, - and = signs are used. The addition is marked with cardinality/hierarchy among the classes. The relation “many-to-one” means that many amounts are added to one amount. The part of the relation that is without symbol is marked with the “◆” sign. The figure is recommended to be read from the bottom.



The example below shows calculations of line totals, charges/deductions and invoice totals in an e2b invoice.

Calculation of details, charges and totals			
<b>Detail level</b>			
	<b>XML-tag</b>		
	<BaseltemDetails><Description>	Product	Product1
	<BaseltemDetails><QuantityInvoiced>	Quantity	5
*	<BaseltemDetails><UnitPrice>	Unit price	2,5
=	<BaseltemDetails><LinItemPreDiscountAmount>	Price minus discount	12,5
*	<BaseltemDetails><Discount><Percent>	Discount rate	20 %
=	<BaseltemDetails><Discount><Amount>	Discount amount	2,5
- =	<BaseltemDetails><TaxInfo><BaseAmount>	Discount base amount	10
*	<BaseltemDetails><TaxInfo><Percent>	Tax rate	10 %
=	<BaseltemDetails><TaxInfo><Amount>	Taxt amount	1
+ =	<BaseltemDetails><VatInfo><VatBaseAmount>	Vat base amount	11
*	<BaseltemDetails><VatInfo><VatPercent>	Vat rate	25 %
=	<BaseltemDetails><VatInfo><VatAmount>	Vat amount	2,75
+ =		Line total	13,75
<b>Invoice level</b>			
	<InvoiceDiscountChargesAndTax><InvoiceCharges> <BaseAmount>	Freight base amount	11
*	<InvoiceDiscountChargesAndTax><InvoiceCharges><Percent>	Freight rate	6 %
=	<InvoiceDiscountChargesAndTax><InvoiceCharges><Amount>	Freight amount	0,66
*	<InvoiceDiscountChargesAndTax><InvoiceCharges><VatInfo> <VatPercent>	Vat on freight	25 %
=	<InvoiceDiscountChargesAndTax><InvoiceCharges><VatInfo> <VatAmount>	Vat amount	0,17
+ =		Total Freight	0,83
<b>Invoice totals</b>			
	<InvoiceSummary><InvoiceTotals><LinItemTotalsAmount>	Line total	13,75
=	<InvoiceSummary><InvoiceTotals><ChargesTotalsAmount>	Total charges	0,83
=	<InvoiceSummary><InvoiceTotals><NetAmount>	Net total	11,66
=	<InvoiceSummary><InvoiceTotals><VatTotalsAmount>	Total Vat	2,92
+	<InvoiceSummary><InvoiceTotals><RoundingAmount>	Rounding	0,02
=	<InvoiceSummary><InvoiceTotals><GrossAmount>	Invoice total	14,60

### 3. The structure of the format

#### 3.1 Structure overview

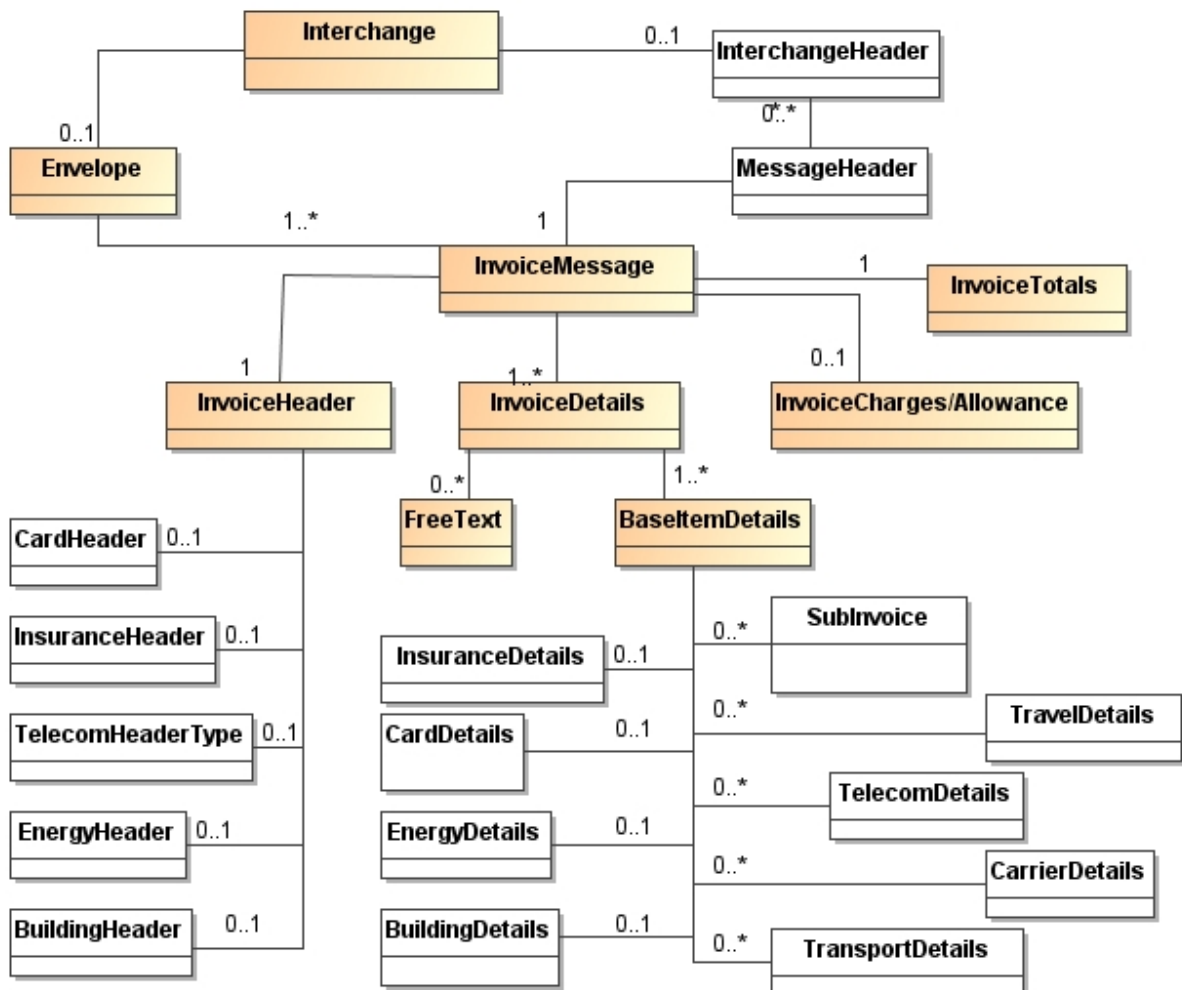
The e2b Invoice format is structured according to the figure below.

The content in the colored modules is part of the base format and is described in the subsequent chapters.

The content in the white modules are additional information including business specific extensions that are described in separate documents

The following notation is used to define cardinality:

- 1 = One occurrence (mandatory)
- 1..\* = One or many occurrences
- 0..1 = Zero or one occurrences (optional)
- 0..\* = Zero or many occurrences



### 3.2 Envelope

Interchange must be used for sending more than one invoice message in the same interchange. Beyond that there are no requirements to send an Interchange

It is not mandatory to send Envelope. The primary purpose is for transfer via intermediaries. See also the specific documentation of InterchangeHeader and MessageHeader that is meant to replace Envelope.

Name on XML-element	Description	Requirement	Repetition	Type
<b>Interchange</b>	<b>Interchange</b>	<b>K</b>	<b>0..1</b>	
<b>Envelope</b>	<b>Envelope</b>	<b>K</b>	<b>0..1</b>	
InterchangeId	Unique reference for this interchange	M	1	String
From	Unique identification of sender, for instance association number or GLN (EAN-location number)	M	1	String
To	Unique identification of the final recipient of the message in the interchange	M	1	String
Date	The date the interchange was generated	M	1	Date
Time	The time the interchange was generated (HH:MM:SS)	K	0..1	Time
NumberOfMessages	The number of messages in this interchange	K	0..1	Integer
TestIndicator	Testflag. Must be stated with the value 1 if the message consists of test data. Otherwise, the interchange must be regarded as production data.	K	0..1	Integer

#### XML-example:

```
<?xml version="1.0" encoding="UTF-8"?>
<Interchange xmlns="http://www.e2b.no/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.e2b.no/XMLSchema e2b_Invoice_Interchange_v3p4.xsd">
  <Envelope>
    <InterchangeId>1</InterchangeId>
    <From>12345</From>
```

```
<To>67890</To>  
<Date>2007-07-01</Date>  
<Time>14:20:00</Time>  
<NumberOfMessages>1</NumberOfMessages>  
</Envelope>  
</Interchange>
```

3.3 Invoice message

Name on XML-element	Description	Requirement	Repetition	Type
<b>Invoice</b>		<b>M</b>	<b>1</b>	
@MessageOwner	Message owner. Fixed value: e2b	M	1	String
@MessageType	Message type. Fixed value: Invoice	M	1	String
@MessageVersion	Version. Legal values are: 3.2, 3.3, 3.3.1 and 3.4	M	1	String
@language	Language code	K	0..1	String
MessageNumber	Unique number which identifies the message within an interchange	K	0..1	String
MessageTimestamp	Message date. Date and time when the message is generated. Format: YYYY-MM-DDTHH:MM:SS	M	1	DateTime
NumberOfLines	Number of detail lines in the invoice	K	0..1	Integer
InvoiceContent	States if this is an Expense ( <b>K</b> ), Product ( <b>V</b> ) or Service ( <b>T</b> ) invoice. Legal values are: " <b>K</b> ", " <b>V</b> " and " <b>T</b> "	K	0..1	String
LineOfBusiness	Codes which state what line of business the invoices are regarded as: Legal values: 1=Credit card, 2=Travel, 3=Telecom, 4=Transport, 5=Carrier, 6=Insurance, 7=Energy, 8=Building, 9=General goods	K	0..1	String
@codetext	Code description. Optional description in attribute	K	0..1	String

XML-example:

```

<Invoice MessageOwner="e2b" MessageType="Invoice" MessageVersion="3.4" language="NO">
  <MessageNumber>1</MessageNumber>
  <MessageTimestamp>2007-07-01T09:30:47</MessageTimestamp>
  <NumberOfLines>2</NumberOfLines>
  <InvoiceContent>K</InvoiceContent>
  <LineOfBusiness codetext="Kort">1</LineOfBusiness>
</Invoice>
  
```

3.4 Invoice header

Name on XML-element	Description	Requirement	Repetition	Type
<b>InvoiceHeader</b>	<b>Invoice header</b>	<b>M</b>	<b>1</b>	
InvoiceType	Legal values are: 380 = Invoice 381 = Credit note	M	1	String
@codetext	Code description: Optional description in attribute	K	0..1	String
InvoiceStatus	Legal values are: 9 = Original 10 = Copy 53 = Test	M	1	String
@codetext	Code description: Optional description in attribute	K	0..1	String
InvoiceNumber	Invoice number or Credit note number	M	1	String
InvoiceDate	Date of issue	M	1	Date
TaxTreatment	Suggested values: NIL = Line item net amounts, invoice level tax GIL = Line item gross amounts, invoice level tax NLL = Line item net amounts, line level tax GLL = Line item gross amounts, line level tax NON = Tax does not apply to this invoice	K	0..1	String
@codetext	Optional description in attribute	K	0..1	String
DiscountTreatment	Suggested values: UN = Line item unit price, net of discount UG = Line item unit price, gross of discount) TN = Line item amount, net of discount TG = Line item amount, gross of discount	K	0..1	String
@codetext	Optional description in attribute	K	0..1	String

<b>Name on XML-element</b>	<b>Description</b>	<b>Requirement</b>	<b>Repetition</b>	<b>Type</b>
Supplier	The actor who delivers the commodity or service. The content is described in chapter 3.5 for all actors, Actor information.	M	1	PartyType (ref. chapter 3.5)
InvoiceIssuer	To be used if different from Supplier.	K	0..1	PartyType (ref. chapter 3.5)
Buyer	The actor who ordered the commodity or service.	M	1	PartyType (ref. chapter 3.5)
Invoicee	The actor who receives the invoice/credit note. May be stated if different from buyer.	K	0..1	PartyType (ref. chapter 3.5)
OrderedBy	May be stated if the procurement is made of an intermediary different from the Buyer.	K	0..1	PartyType (ref. chapter 3.5)
DeliveryPart	Describes the actor on the place where the commodity is delivered. May be stated if different from buyer.	K	0..1	PartyType (ref. chapter 3.5)
UltimateCustomer	Describes ultimate receiver of the commodity. May be stated if different from delivery part or buyer.	K	0..1	PartyType (ref. chapter 3.5)
ShippedFrom	Describes the actor on the place where the goods are shipped from, or brought by the Buyer (DeliveryPart). The "ShippedFrom" may be stated in addition to "DeliveryPart" or "UltimateCustomer "	K	0..1	PartyType (ref. chapter 3.5)
Factoring	States if the Supplier uses Factoring to handle payment transactions.	K	0..1	PartyType (ref. chapter 3.5)
<b>InvoiceReferences</b>	<b>References</b>	<b>K</b>	<b>0..1</b>	<b>InvoiceReferencesType</b>
BuyersOrderNumber	Reference to the buyers order number. Required when invoices are to be matched with the order. The field is recommended	K	0..1	String
BuyersOrderDate	Reference to the buyer's order date. Mandatory for matching. The field is recommended.	K	0..1	Date
BuyersProjectCode	Reference to the buyer's project code	K	0..1	String
InvoiceNumber	Reference to original invoice in a credit note.	K	0..1	String
SuppliersOrderNumber	Reference to the Supplier's order number.	K	0..1	String
DeliveryTerms	Free text	K	0..1	String

Name on XML-element	Description	Requirement	Repetition	Type
DeliveryTermsCode	Code for delivery terms: For instance reference to the INCOTERM-codes.	K	0..1	String
DeliveryTermsPlace	Delivery place associated with delivery terms	K	0..1	String
DeliveryNoteNum	Reference to Delivery note number.	K	0..1	String
DeliveryDate	Date for delivery with reference to delivery note number	K	0..1	Date
<b>Payment</b>	<b>Payment information. Must occur once</b>	<b>M</b>	<b>1</b>	<b>PaymentType</b>
DueDate	Date when the invoice is due to payment	K	0..1	Date
Currency	Currency code: ISO Alpha code (3 characters) ISO 4217	M	1	String
KidNumber	KID-number (Norwegian payment identification)	K	0..1	String
PaymentTerms	Payment terms in free text	K	0..1	String
<b>PaymentDiscount</b>	<b>Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	
DiscountPercent	Discount percent	M	1	Decimal
DiscountDays	The number of days the discount take effect from	K	0..1	Decimal
OverDuePercent	Overdue percent	K	0..1	Decimal
Attachments	Reference to a file with attachments. For instance an image file or tickets. Zero or many occurrences.	K	0..*	String
<b>Ref</b>	<b>Reference: General reference field with code. Zero or many occurrences.</b>	<b>K</b>	<b>0..*</b>	<b>RefWithCodeType</b>
Code	The Code states type of references.	M	1	String
Text	The reference value.	K	0..1	String
FreeText	General information that cannot be placed in other fields. Zero or many occurrences.	K	0..*	String
<b>CardHeaderInformation</b>	<b>Business specific extension on header level for credit card invoices. The content is described in a specific document.</b>	<b>K</b>	<b>0..1</b>	<b>CardHeaderInfo Type</b>

Name on XML-element	Description	Requirement	Repetition	Type
InsuranceHeader	Business specific extension on header level for insurance invoices. The content is described in a specific document.	K	0..1	InsuranceHeader Type
TelecomHeader	Business specific extension on header level for telecom invoices. The content is described in a specific document.	K	0..1	TelecomHeader Type
EnergyHeader	Business specific extension on header level for energy invoices (power and power supply). The content is described in a specific document.	K	0..1	EnergyHeader Type
BuildingHeader	Business specific extension on header level for invoices related to building, electro and VA/VVS. The content is described in a specific document.	K	0..1	BuildingHeader Type

XML-example:

```

<InvoiceHeader>
  <InvoiceType codetext="Invoice">380</InvoiceType>
  <InvoiceStatus codetext="Original">9</InvoiceStatus>
  <InvoiceNumber>1</InvoiceNumber>
  <InvoiceDate>2007-07-01</InvoiceDate>
  <Supplier>
    <PartyId>12345</PartyId>
    <LocationId>767676767</LocationId>
    <Name>Supplier 1</Name>
    <ContactInformation>
      <PhoneNumber>22220000</PhoneNumber>
      <FaxNumber>22222001</FaxNumber>
      <EmailAddress>post@supplier1.no</EmailAddress>
      <WebAddress>www.supplier1.no</WebAddress>
    </ContactInformation>
    <StreetAddress>
      <Address1>Storgata 1</Address1>
      <PostalCode>0101</PostalCode>
    </StreetAddress>
  </Supplier>
</InvoiceHeader>
    
```

```
        <PostalDistrict>Oslo</PostalDistrict>
        <CountryCode>NO</CountryCode>
    </StreetAddress>
    <PostalAddress>
        <Address1>P.O box 5</Address1>
        <PostalCode>0101</PostalCode>
        <PostalDistrict>Oslo</PostalDistrict>
        <CountryCode>NO</CountryCode>
    </PostalAddress>
    <ContactPerson>
        <Name>Ole Olsen</Name>
        <ContactInformation>
            <PhoneNumber>90090900</PhoneNumber>
            <EmailAddress>ole@supplier1.no</EmailAddress>
        </ContactInformation>
        <Function>Manager</Function>
        <Department>IT</Department>
    </ContactPerson>
    <OrgNumber>987654321</OrgNumber>
    <VatId>MVA987654321NO</VatId>
    <Department>IT</Department>
    <AccountInformation>
        <AccountNumber>5005050000</AccountNumber>
    </AccountInformation>
    <ProjectRef>Project1</ProjectRef>
</Supplier>
<Buyer>
    <PartyId>54321</PartyId>
    <LocationId>765432121</LocationId>
    <Name>Buyer1</Name>
    <ContactInformation>
        <PhoneNumber>25252000</PhoneNumber>
        <FaxNumber>25252001</FaxNumber>
```

```
        <EmailAddress>post@buyer1.no</EmailAddress>
        <WebAddress>www.buyer 1.no</WebAddress>
    </ContactInformation>
    <StreetAddress>
        <Address1>Lilleveien 1</Address1>
        <PostalCode>3000</PostalCode>
        <PostalDistrict>Drammen</PostalDistrict>
        <CountryCode>NO</CountryCode>
    </StreetAddress>
    <ContactPerson>
        <Name>Hanne Hansen</Name>
        <ContactInformation>
            <PhoneNumber>40040400</PhoneNumber>
            <EmailAddress>hanne@ buyer1.no</EmailAddress>
        </ContactInformation>
    </ContactPerson>
    <OrgNumber>998877665</OrgNumber>
    <VatId>MVA998877665NO</VatId>
    <AccountInformation>
        <AccountNumber>70007070000</AccountNumber>
        <IbanNumber>String</IbanNumber>
        <SwiftNumber>String</SwiftNumber>
    </AccountInformation>
</Buyer>
<InvoiceReferences>
    <BuyersOrderNumber>54321</BuyersOrderNumber>
    <BuyersOrderDate>2007-06-01</BuyersOrderDate>
    <DeliveryTerms>Free of charge</DeliveryTerms>
    <DeliveryDate>2007-08-01</DeliveryDate>
</InvoiceReferences>
<Payment>
    <DueDate>2007-08-01</DueDate>
    <Currency>NOK</Currency>
```

```
<KidNumber>123456789</KidNumber>  
<PaymentTerms>30 days</PaymentTerms>  
<PaymentDiscount>  
  <DiscountPercent>2</DiscountPercent>  
  <DiscountDays>10</DiscountDays>  
</PaymentDiscount>  
<OverDuePercent>2.5</OverDuePercent>  
</Payment>  
<Attachments>String</Attachments>  
</InvoiceHeader>
```

### 3.5 Actor information

This chapter describes information that is common for all actors. Name is the only mandatory element. Other elements may/may not be sent depending on the type of actor and the context.

Name on XML-element	Description	Requirement	Repetition	Type
<b>PartyType</b>	<b>Actor information</b>	<b>K</b>	<b>0..1</b>	
PartyId	<b>Actor number: Unique identifier</b>	<b>K</b>	<b>0..1</b>	<b>IdentifierType</b>
@schemeld	Identification of identifier, for example SupplID	K	0..1	String
@schemeName	Name of identifier, for example the Supplier's identification	K	0..1	String
@schemeAgency	Name of organization which administrates the identifier, for example current Supplier	K	0..1	String
<b>LocationId</b>	<b>Location number = GLN</b>	<b>K</b>	<b>0..1</b>	<b>IdentifierType</b>
@schemeld	Identification of identifier, for example GLN	K	0..1	String
@schemeName	Name of identifier, for example Global Location Number	K	0..1	String
@schemeAgency	Name of organization which administrates the identifier, for example GS1	K	0..1	String
Name	Company name	M	1	String
<b>ContactInformation</b>	<b>Contact information for the company</b>	<b>K</b>	<b>0..1</b>	<b>ContactInformationType</b>
PhoneNumber	Company's Telephone number	K	0..1	String
FaxNumber	Company's Telefax number	K	0..1	String
EmailAddress	Company's Email address	K	0..1	String
WebAddress	Company's Web address	K	0..1	String
<b>StreetAddress</b>	<b>Street address: Zero or one occurrence</b>	<b>K</b>	<b>0..1</b>	<b>AddressType</b>
Address1	Street-/visitor address 1	K	0..1	String
Address2	Street-/visitor address 2	K	0..1	String
Address3	Street-/visitor address 3	K	0..1	String
PostalCode	Post number related to the street address	K	0..1	String

Name on XML-element	Description	Requirement	Repetition	Type
PostalDistrict	Post district related to the street address	K	0..1	String
CountryCode	2 character code in accordance with ISO 3166	K	0..1	String
CountryName	Name of country in accordance with code	K	0..1	String
<b>PostalAddress</b>	<b>Zero or one occurrence</b>	<b>K</b>	<b>0..1</b>	<b>AddressType</b>
Address1	Post address 1	K	0..1	String
Address2	Post address 2	K	0..1	String
Address3	Post address 3	K	0..1	String
PostalCode	Postnumber related post address	K	0..1	String
PostalDistrict	Post district related to post address	K	0..1	String
CountryCode	2 character code in accordance with ISO 3166	K	0..1	String
CountryName	Name of country in accordance with code	K	0..1	String
<b>ContactPerson</b>	<b>Contact Person: Zero or many occurrence</b>	<b>K</b>	<b>0..*</b>	<b>ContactPersonType</b>
Name	Contact person name: Recommended format: "Surname, First name, Middle name"	M	1	String
FirstName	Contact persons First name: Recommended format: "First name Middle name"	K	0..1	String
LastName	Contact persons Surname	K	0..1	String
Function	Contact persons Function (employment, role)	K	0..1	String
Department	Contact persons Department	K	0..1	String
<b>ContactInformation</b>	<b>Contact information for contact person</b>	<b>K</b>	<b>0..1</b>	<b>ContactInformationType</b>
PhoneNumber	Phone number to contact person	K	0..1	String
FaxNumber	Fax number to contact person	K	0..1	String
EmailAddress	Email address to contact person	K	0..1	String
WebAddress	Web address to contact person	K	0..1	String
OrgNumber	Organization number: Mandatory for Supplier (9 digits). The field is recommended to use.	K	0..1	String

Name on XML-element		Description	Requirement	Repetition	Type
	VatId	VAT number: Mandatory when invoicing is deducted to Vat (14 characters).	K	0..1	String
	Department	Department within a company	K	0..1	String
	<b>AccountInformation</b>	<b>Information about accounts for national and international payments</b>	<b>K</b>	<b>0..1</b>	<b>AccountInformationType</b>
	AccountNumber	The company's domestic bank account number	K	0..1	String
	IbanNumber	Account number for international payments	K	0..1	String
	SwiftNumber	Swift number/BIC for international payments	K	0..1	String
	ProjectRef	Project reference defined by Buyer	K	0..1	String
	ContractNumber	Contract number defined by Buyer	K	0..1	String
	<b>Ref</b>	<b>General reference fields with codes. Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>RefWithCodeType</b>
	Code	Code which states type of reference	M	0..1	String
	Text	The actual reference number	K	0..1	String

### 3.6 Invoice details

Invoice details may consist of:

- **Free text.** A description/specification of an invoice line.
- **Base item details.** A general invoice line containing sufficient information for most business sectors and applications. The base item details are mandatory in all e2b messages and must be imported by all recipients. In addition to the base item details, different business sectors may require specific information to be sent on details level. This information is defined in separate business specific extensions which are conditional to use. The following rules are applicable for the definition of business specific extension in e2b on details level (see also chapter 2.3):
  - Business specific extension allowing invoices containing several orders (details on more than one level) are placed before the base item details.
  - Business specific extensions referring to one order are placed after the base item details.

Name of XML-element		Description	Requirement	Repetition	Type
	<b>InvoiceDetails</b>	<b>Invoice details</b>	<b>M</b>	<b>1..*</b>	
	<b>FreeText</b>	<b>Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>String</b>
	<b>BaseltemDetails</b>	<b>Zero or many occurrences</b>	<b>K</b>	<b>1..*</b>	<b>BaseltemDetailsType</b>
	<b>SubInvoice</b>	<b>SubInvoice: General multi order structure on line level</b>	<b>K</b>	<b>0..1</b>	<b>SubInvoiceType</b>
	Header	Invoice header: Standard e2b header information.	M	1	HeaderType
	Details	Details: Standard e2b base of details. One or many occurrences.	M	1..*	DetailsType
	<b>TravelDetails</b>	<b>Business specific extension for travel invoices. The content is described in a specific document.</b>	<b>K</b>	<b>0..1</b>	<b>TravelDetailsType</b>
	<b>TelecomDetails</b>	<b>Business specific extension for telecom invoices. The content is described in a specific document.</b>	<b>K</b>	<b>0..1</b>	<b>TelecomDetailsType</b>
	<b>TransportDetails</b>	<b>Business specific extension for transport invoices. The content is described in a specific document.</b>	<b>K</b>	<b>0..1</b>	<b>TransportDetailsType</b>
	<b>CarrierDetails</b>	<b>Business specific extension for carrier invoices</b>	<b>K</b>	<b>0..1</b>	<b>CarrierDetailsType</b>

Name of XML-element		Description	Requirement	Repetition	Type
		<b>The content is described in a specific document.</b>			
	LineItemNum	Line number in the invoice. Serial numbers from issuer.	K	0..1	String
	Level	States the level in the invoice and can be used to aggregation/sub invoicing	K	0..1	String
	SuppliersProductId	Supplier's article-/product-/service number	K	0..1	String
	Description	Description of a article/product/service	M	1	String
	BuyersProductId	The Buyer's article-/product-/service number	K	0..1	String
	<b>AdditionalProductId</b>	<b>Additional product identification: Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>AdditionalProductIdType</b>
	Code	Can be a reference to a product code in a procurement portal or a trade specific code i.e. EPD, GTIN (previous EAN article number) or NOBB.	M	1	String
	Text	ProductId: Actual value.	K	0..1	String
	UnitPrice	Based on pricetype	K	0..1	Decimal
	PriceDenomination	Price description. Will be stated if price is given in a unit different from amount.	K	0..1	String
	PriceType	Legal values are: AAA (Net price including allowance/charge) AAB (Gross price without allowance/charge)	K	0..1	String
	@codetext	Optional description in attribute	K	0..1	String
	PerQuantity	Price per. quantity which unit price passes for	K	0..1	Decimal
	LineItemPreDiscount Amount	Line amount before allowance/charge	K	0..1	Decimal
	PrePaidAmount	Contains amount paid in advance	K	0..1	Decimal
	CommissionAmount	For instance in connection with the use of traveling bureaus	K	0..1	Decimal

Name of XML-element	Description	Requirement	Repetition	Type
LineItemAmount	Line amount without VAT, but included possible allowances/charges. Either LineItemAmount or LineItemGrossAmount must be sent.	A	1	Decimal
LineItemGrossAmount	Line item amount included VAT and possible allowances/charges. Either LineItemGrossAmount or LineItemAmount must be sent.	A	1	Decimal
QuantityInvoiced	Invoiced quantity	K	0..1	Decimal
UnitOfMeasure	Unit in accordance with ISO standard 31	K	0..1	String
<b>ExchangeInformation</b>	<b>Information about amount in different currency. Zero or one occurrence</b>	<b>K</b>	<b>0..1</b>	<b>ExchangeInformationType</b>
Currency	Currency code: ISO Alpha code (3 characters) ISO 4217	M	1	String
ForeignAmount	Amount in another currency: i.e. use of bankcards in a foreign currency	M	1	Decimal
ExchangeRate	Exchange rate used by conversion to NOK	K	0..1	Decimal
ExchangeDate	Valid date for exchange rate	K	0..1	Date
<b>OrderInformation</b>	<b>Information about the buyers order. Zero or one occurrence</b>	<b>K</b>	<b>0..1</b>	<b>OrderAndDeliveryInfoType</b>
UnitOfMeasure	If different from invoiced unit	K	0..1	String
UnitPrice	Unit price for the ordered unit	K	0..1	Decimal
PriceType	Price type for the ordered unit	K	0..1	String
Quantity	Ordered quantity	K	0..1	Decimal
LineNum	Reference to the order's line number	K	0..1	String
<b>DeliveryInformation</b>	<b>Information about de delivery. Zero or one occurrence</b>	<b>K</b>	<b>0..1</b>	<b>OrderAndDeliveryInfoType</b>
UnitOfMeasure	If different from invoiced unit	K	0..1	String
UnitPrice	Unit price for the delivered unit	K	0..1	Decimal
PriceType	Price type for the delivered unit	K	0..1	String

Name of XML-element	Description	Requirement	Repetition	Type
Quantity	Delivered quantity	K	0..1	Decimal
LineNum	Reference to the line number on the list of contents	K	0..1	String
<b>SuppliersOrderInformation</b>	<b>Information about the supplier's internal orders. Zero or one occurrence</b>	<b>K</b>	<b>0..1</b>	<b>OrderAndDeliveryInfoType</b>
UnitOfMeasure	If different from invoiced unit of measure.	K	0..1	String
UnitPrice	Unit price in the supplier's order	K	0..1	Decimal
PriceType	Price type in the supplier's order	K	0..1	String
Quantity	Quantity in the supplier's order	K	0..1	Decimal
LineNum	Reference to line number in the supplier's order	K	0..1	String
<b>VatInfo</b>	<b>VAT which is calculated on the line amount. Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>VatInfoType</b>
VatPercent	VAT-percent	K	0..1	Decimal
VatBaseAmount	Basis for the VAT calculation for the particular rate.	K	0..1	Decimal
VatAmount	Amount for the particular rate	K	0..1	Decimal
<b>TaxInfo</b>	<b>Taxes on line level except VAT. Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Code for tax in accordance with contract.	K	0..1	String
Description	Description of type of tax, ref. Code	K	0..1	String
Percent	Tax Percent	K	0..1	Decimal
BaseAmount	Base amount for calculation of tax	K	0..1	Decimal
Amount	Tax amount	K	0..1	Decimal
Quantity	To be used if tax is related to quantity	K	0..1	Decimal
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if tax is calculated based on rate per unit.	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT which is calculated on the tax</b>	<b>K</b>	<b>1</b>	<b>VatInfoType</b>
VatPercent	Vat-percent	K	0..1	Decimal

Name of XML-element	Description	Requirement	Repetition	Type
VatBaseAmount	Basis for the Vat calculation for the particular rate	K	0..1	Decimal
VatAmount	Amount for the particular rate	K	0..1	Decimal
CalculationSequence	States the sequence for calculation if more than one tax	K	0..1	String
<b>Discount</b>	<b>Discount on line level. Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Code for discount in accordance with contract.	K	0..1	String
Description	Description of type of discount, ref. Code	K	0..1	String
Percent	Discount percent	K	0..1	Decimal
BaseAmount	Base amount for discount calculation	K	0..1	Decimal
Amount	Discount amount	K	0..1	Decimal
Quantity	To be used if the discount is related to quantity.	K	0..1	Decimal
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if discount is calculated based on rate per unit.	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT which is calculated on the discount</b>	<b>K</b>	<b>1</b>	<b>VatInfoType</b>
VatPercent	Vat-percent	K	0..1	Decimal
VatBaseAmount	Basis for the Vat calculation for the particular rate	K	0..1	Decimal
VatAmount	Amount for the particular rate	K	0..1	Decimal
CalculationSequence	States the sequence for calculation if more than one discount	K	0..1	String
<b>Charges</b>	<b>Charges on line level. Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Code for charges in accordance with contract	K	0..1	String
Description	Description of type of charges, ref. code	K	0..1	String
Percent	Charge percent	K	0..1	Decimal
BaseAmount	Base amount for calculation of charge	K	0..1	Decimal
Amount	Charge amount	K	0..1	Decimal
Quantity	To be used if charge is related to quantity	K	0..1	Decimal

Name of XML-element	Description	Requirement	Repetition	Type
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if the charge is calculated based on a rate per unit.	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT which is calculated on the addition</b>	<b>K</b>	<b>1</b>	<b>VatInfoType</b>
VatPercent	Vat-percent	K	0..1	Decimal
VatBaseAmount	Basis for the Vat calculation for the particular rate	K	0..1	Decimal
VatAmount	Amount for the particular rate	K	0..1	Decimal
CalculationSequence	States the sequence for calculation if more than one charge	K	0..1	String
Invoicee	If Invoicee must be stated on Invoice line.	K	0..1	PartyType (ref. chapter 3.5)
Licencee	If Licensee is different from Supplier/Seller	K	0..1	PartyType (ref. chapter 3.5)
Duration	Duration, e.g. weeks or days	K	0..1	String
@unitCode	Unit for duration. Mandatory attribute	K	0..1	String
StartDate	Start date for periodic invoicing	K	0..1	Date
EndDate	End date for periodic invoicing	K	0..1	Date
SpecialCond	Special conditions. Suggested conditions are: 1 = Campaign 2 = Neither subject to bonus nor subject to commission 3 = Subject to bonus 4 = Subject to commission 5 = Both subject to bonus and subject to commission	K	0..1	String
PostingInformation	The complete posting string defined by the Buyer	K	0..1	String
<b>PostingDetails</b>	<b>The content of the posting string.                      Zero or many occurrences.</b>	<b>K</b>	<b>0..*</b>	<b>PostingDetailsType</b>
Dimension	General concept, for instance a department or project.	M	1	String
PostingCode	Code for relevant dimension	M	1	String

Name of XML-element		Description	Requirement	Repetition	Type
	Ref	Reference: General reference fields with codes. Zero or many occurrences.	K	0..*	RefWithCodeType
	Code	Code which states type of reference.	M	1	String
	Text	The actual reference number	K	0..1	String
	FreeText	General information which cannot be placed in other fields.	K	0..1	String
	CardDetailsInformation	Business specific extension for credit card invoices. The content is described in a specific document.	K	0..1	CardDetailsInfoType
	InsuranceDetails	Business specific extension for invoices related to an insurance settlement. The content is described in a specific document.	K	0..1	InsuranceDetailsType
	EnergyDetails	Business specific extension for energy invoices (power, power supply). The content is described in a specific document.	K	0..1	EnergyDetailstype
BuildingDetails	Business specific extension for invoices related to building, electro and VA/VVS. The content is described in a specific document.	K	0..1	BuildingDetailstype	

XML-example:

```

<InvoiceDetails>
  <BaseItemDetails>
    <LineItemNum>1</LineItemNum>
    <SuppliersProductId>55555</SuppliersProductId>
    <Description>Product1</Description>
    <BuyersProductId>66666</BuyersProductId>
    <UnitPrice>2.50</UnitPrice>
    <PriceType>AAB</PriceType>
    <LineItemPreDiscountAmount>12.5</LineItemPreDiscountAmount>
    <LineItemAmount>11</LineItemAmount>
    <QuantityInvoiced>5</QuantityInvoiced>
    <UnitOfMeasure>PCE</UnitOfMeasure>
  
```

```
<VatInfo>
  <VatPercent>25</VatPercent>
  <VatBaseAmount>11</VatBaseAmount>
  <VatAmount>2,75</VatAmount>
</VatInfo>
<TaxInfo>
  <Description>Environment tax</Description>
  <Percent>10</Percent>
  <BaseAmount>10</BaseAmount>
  <Amount>1</Amount>
</TaxInfo>
<Discount>
  <Description>Konsern</Description>
  <Percent>20</Percent>
  <BaseAmount>12.5</BaseAmount>
  <Amount>2.5</Amount>
</Discount>
</BaseItemDetails>
</InvoiceDetails>
```

3.7 Invoice discounts, charges and tax

Name of XML-element	Description	Requirement	Repetition	Type
<b>InvoiceDiscountChargesAndTax</b>	<b>Invoice discounts, charges and tax on invoice level.</b>	<b>K</b>	<b>0..1</b>	
<b>InvoiceDiscount</b>	<b>Discounts on invoice total. Zero or many occurrences</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Code for discount in accordance with the contract.	K	0..1	String
Description	Description of discount type, ref. Code	K	0..1	String
Percent	Discount percent	K	0..1	Decimal
BaseAmount	Base amount for discount calculation	K	0..1	Decimal
Amount	Discount amount	K	0..1	Decimal
Quantity	To be used if the discount is related to quantity.	K	0..1	Decimal
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if discount is calculated based on rate per unit.	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT calculation based on the discount.</b>	<b>K</b>	<b>0..1</b>	<b>VatInfoType</b>
VatPercent	VAT-percent	K	0..1	Decimal
VatBaseAmount	The basis for VAT calculation for this particular rate	K	0..1	Decimal
VatAmount	Amount for this particular rate	K	0..1	Decimal
CalculationSequence	States the sequence for calculation if more than one discount	K	0..1	String
<b>InvoiceCharges</b>	<b>Charges added to the invoice total. Zero or many occurrences.</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Code for charges in accordance with contract.	K	0..1	String
Description	Description of type of charges, ref. Code	K	0..1	String
Percent	Charges percent	K	0..1	Decimal
BaseAmount	Base amount for calculation of charges	K	0..1	Decimal
Amount	Charges amount	K	0..1	Decimal

Name of XML-element	Description	Requirement	Repetition	Type
Quantity	To be used if charges are related to quantity.	K	0..1	Decimal
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if charges are calculated based on rate per unit.	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT calculation based on charges</b>	<b>K</b>	<b>0..1</b>	<b>VatInfoType</b>
VatPercent	VAT-percent	K	0..1	Decimal
VatBaseAmount	The basis for VAT calculation for this particular rate	K	0..1	Decimal
VatAmount	Amount for this particular rate	K	0..1	Decimal
CalculationSequence	States the sequence for calculation if more than one charge	K	0..1	String
<b>InvoiceTax</b>	<b>Governmental tax added to the invoice total. Zero or many occurrences.</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Code for tax in accordance with contract	K	0..1	String
Description	Description of type of tax, ref. Code	K	0..1	String
Percent	Tax percent	K	0..1	Decimal
BaseAmount	Base amount for tax calculation	K	0..1	Decimal
Amount	Tax amount	K	0..1	Decimal
Quantity	To be used if tax is related to quantity.	K	0..1	Decimal
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if taxes are calculated based on rate per unit	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT which is calculated on the tax.</b>	<b>K</b>	<b>0..1</b>	<b>VatInfoType</b>
VatPercent	VAT-percent	K	0..1	Decimal
VatBaseAmount	The basis for VAT calculation for this particular rate	K	0..1	Decimal
VatAmount	Amount for this particular rate	K	0..1	Decimal
CalculationSequence	States the sequence for calculation if more than one tax	K	0..1	String

**XML-example:**

```
<InvoiceDiscountChargesAndTax>  
  <InvoiceCharges>  
    <Description>Freight</Description>  
    <Percent>6</Percent>  
    <BaseAmount>11</BaseAmount>  
    <Amount>0.66</Amount>  
  </InvoiceCharges>  
</InvoiceDiscountChargesAndTax>
```

3.8 Invoice totals

Name of XML-element	Description	Req.	Card.	Type
<b>InvoiceSummary</b>	<b>Invoice totals</b>	<b>M</b>	<b>1</b>	
FreeText	One or more lines	K	0..*	String
<b>InvoiceTotals</b>	<b>Must occur once</b>	<b>M</b>	<b>1</b>	<b>InvoiceTotalstype</b>
LineltemTotalsAmount	Sum total line amount	K	0..1	Decimal
DiscountTotalsAmount	Sum total discounts on detail and invoice level	K	0..1	Decimal
ChargesTotalsAmount	Sum total charges on detail and invoice level	K	0..1	Decimal
TaxTotalsAmount	Sum total taxes on detail and invoice level	K	0..1	Decimal
PrePaidAmount	Sum total prepaid amount. For instance pay on account	K	0..1	Decimal
CommissionAmount	Sum total commission amount. For instance, the use of a travelling agency	K	0..1	Decimal
GrossAmount	Invoice amount included VAT	M	1	Decimal
VatTotalsAmount	Sum total VAT amount	M	1	Decimal
NetAmount	Invoice amount excluded VAT	M	1	Decimal
RoundingAmount	Rounding off to the nearest "øre": On total gross amount	K	0..1	Decimal
<b>VatTotalsInfo</b>	<b>VAT-specification: Specification of total VAT per rate. Zero or many occurrences. It is recommended in addition to include sum for VAT rate 0 (zero) when the element is used.</b>	<b>K</b>	<b>0..*</b>	<b>VatInfoType</b>
VatPercent	VAT-percent	K	0..1	Decimal
VatBaseAmount	The total basis for VAT calculation for this particular rate	K	0..1	Decimal
VatAmount	Total amount for this particular rate.	K	0..1	Decimal
<b>ExchangeInformation</b>	<b>Information about amount in another currency. Zero or one occurrence.</b>	<b>K</b>	<b>0..1</b>	<b>ExchangeInformationType</b>
Currency	Currency code: ISO Alpha code (3 characters) ISO 4217	M	1	String
ForeignAmount	Amount in another currency: i.e. use of bankcards in a foreign currency	M	1	Decimal
ExchangeRate	Exchange used by conversion to NOK.	K	0..1	Decimal

Name of XML-element	Description	Req.	Card.	Type
ExchangeDate	Date of exchange	K	0..1	Date
<b>TaxTotalsInfo</b>	<b>Specification of total taxes beyond VAT per code/type. Zero or many occurrences.</b>	<b>K</b>	<b>0..*</b>	<b>TaxTotalsInfoType</b>
TaxCode	Code for tax code in accordance with contract	K	0..1	String
TaxDescription	Description of type of tax, ref. code.	K	0..1	String
TaxAmount	Tax amount for this particular code.	K	0..1	Decimal
<b>DiscountTotals</b>	<b>Specification of total discount per code. Zero or many occurrences.</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Code for discount in accordance with contract	K	0..1	String
Description	Description of type of tax, ref. code.	K	0..1	String
Percent	Discount percent	K	0..1	Decimal
BaseAmount	Base amount for discount calculation	K	0..1	Decimal
Amount	Discount amount	K	0..1	Decimal
Quantity	To be used if discount is related to quantity.	K	0..1	Decimal
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if discounts are calculated based on rate per unit	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT calculated on the discount.</b>	<b>K</b>	<b>0..1</b>	<b>VatInfoType</b>
VatPercent	VAT-percent	K	0..1	Decimal
VatBaseAmount	The total basis for VAT calculation for this particular rate.	K	0..1	Decimal
VatAmount	Total amount for this particular rate.	K	0..1	Decimal
CalculationSequence	Sequence for calculation if more than one discount (not relevant for totals)	K	0..1	String
<b>ChargesTotals</b>	<b>Specification of total charges per code. Zero or many occurrences.</b>	<b>K</b>	<b>0..*</b>	<b>DiscountChargesAndTaxType</b>
Code	Codes for charges in accordance with contract.	K	0..1	String
Description	Description of type of charges, ref. Code	K	0..1	String
Percent	Charge percent	K	0..1	Decimal
BaseAmount	Base amount for calculation of charge	K	0..1	Decimal

Name of XML-element	Description	Req.	Card.	Type
Amount	Charge amount	K	0..1	Decimal
Quantity	To be used if charges are related to quantity.	K	0..1	Decimal
UnitOfMeasure	Unit related to quantity	K	0..1	String
RatePerUnit	To be used if charges are calculated based on rate per unit.	K	0..1	Decimal
<b>VatInfo</b>	<b>VAT which are calculated on the charge</b>	<b>K</b>	<b>0..1</b>	<b>VatInfoType</b>
VatPercent	VAT-percent	K	0..1	Decimal
VatBaseAmount	The total basis for VAT calculation for this particular rate	K	0..1	Decimal
VatAmount	Total amount for this particular rate	K	0..1	Decimal
CalculationSequence	Sequence for calculation if more than one charge (not relevant for totals)	K	0..1	String
<b>ActualPayment</b>	<b>To be used if payment shall be done in a different currency than invoiced amount.</b>	<b>K</b>	<b>0..1</b>	<b>ActualPaymentType</b>
@Currency	ISO Alpha Code (3 characters) ISO 4217	K	0..1	String
@integerValue	Integer value of real amount	K	0..1	Integer
@decimalValue	Decimal value of real amount	K	0..1	Integer
@modulus	Modulus code	K	0..1	String

**XML-example:**

```

<InvoiceSummary>
  <InvoiceTotals>
    <LineItemTotalsAmount>11</LineItemTotalsAmount>
    <DiscountTotalsAmount>0</DiscountTotalsAmount>
    <ChargesTotalsAmount>0.66</ChargesTotalsAmount>
    <TaxTotalsAmount>0</TaxTotalsAmount>
    <GrossAmount>14.60</GrossAmount>
    <VatTotalsAmount>2.92</VatTotalsAmount>
    <NetAmount>11.66</NetAmount>
    <RoundingAmount>0.02</RoundingAmount>
  </InvoiceTotals>
</InvoiceSummary>
    
```

```
</InvoiceTotals>  
<VatTotalsInfo>  
  <VatPercent>25</VatPercent>  
  <VatBaseAmount>11.66</VatBaseAmount>  
  <VatAmount>2.92</VatAmount>  
</VatTotalsInfo>  
<TaxTotalsInfo>  
  <TaxDescription>Environment Tax</TaxDescription>  
  <TaxAmount>1</TaxAmount>  
</TaxTotalsInfo>  
<DiscountTotals>  
  <Description>Discount</Description>  
  <Amount>2.5</Amount>  
</DiscountTotals>  
</InvoiceSummary>
```

## Attachment 1: Complete example message

```
<?xml version="1.0" encoding="UTF-8"?>
<Interchange xmlns="http://www.e2b.no/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.e2b.no/XMLSchema e2b_Invoice_Interchange_v3p4.xsd">
  <Envelope>
    <InterchangeId>1</InterchangeId>
    <From>123456789</From>
    <To>987654321</To>
    <Date>2007-07-01</Date>
    <Time>14:20:00</Time>
    <NumberOfMessages>1</NumberOfMessages>
  </Envelope>
  <Invoice MessageVersion="3.4" MessageOwner="e2b" MessageType="Invoice" language="NO">
    <MessageNumber>1</MessageNumber>
    <MessageTimestamp>2007-07-01T09:30:47</MessageTimestamp>
    <NumberOfLines>1</NumberOfLines>
    <InvoiceHeader>
      <InvoiceType codetext="Invoice">380</InvoiceType>
      <InvoiceStatus codetext="Original">9</InvoiceStatus>
      <InvoiceNumber>1</InvoiceNumber>
      <InvoiceDate>2007-07-01</InvoiceDate>
      <Supplier>
        <PartyId>12345</PartyId>
        <LocationId>767676767</LocationId>
        <Name>Supplier 1</Name>
        <ContactInformation>
          <PhoneNumber>22220000</PhoneNumber>
          <FaxNumber>2222001</FaxNumber>
          <EmailAddress>post@supplier1.no</EmailAddress>
          <WebAddress>www.supplier1.no</WebAddress>
        </ContactInformation>
      </Supplier>
    </InvoiceHeader>
  </Invoice>
</Interchange>
```

```
<StreetAddress>  
  <Address1>Storgata 1</Address1>  
  <PostalCode>0101</PostalCode>  
  <PostalDistrict>Oslo</PostalDistrict>  
  <CountryCode>NO</CountryCode>  
</StreetAddress>  
<PostalAddress>  
  <Address1>P.O box 5</Address1>  
  <PostalCode>0101</PostalCode>  
  <PostalDistrict>Oslo</PostalDistrict>  
  <CountryCode>NO</CountryCode>  
</PostalAddress>  
<ContactPerson>  
  <Name>Ole Olsen</Name>  
  <ContactInformation>  
    <PhoneNumber>90090900</PhoneNumber>  
    <EmailAddress>ole@supplier1.no</EmailAddress>  
  </ContactInformation>  
  <Function>Manager</Function>  
  <Department>IT</Department>  
</ContactPerson>  
<OrgNumber>987654321</OrgNumber>  
<VatId>MVA987654321NO</VatId>  
<Department>IT</Department>  
<AccountInformation>  
  <AccountNumber>5005050000</AccountNumber>  
</AccountInformation>  
<ProjectRef>Project1</ProjectRef>  
</Supplier>  
<Buyer>  
  <PartyId>54321</PartyId>  
  <LocationId>765432121</LocationId>  
  <Name>Buyer1</Name>
```

```
<ContactInformation>
  <PhoneNumber>25252000</PhoneNumber>
  <FaxNumber>25252001</FaxNumber>
  <EmailAddress>post@buyer1.no</EmailAddress>
  <WebAddress>www.buyer 1.no</WebAddress>
</ContactInformation>
<StreetAddress>
  <Address1>Lilleveien 1</Address1>
  <PostalCode>3000</PostalCode>
  <PostalDistrict>Drammen</PostalDistrict>
  <CountryCode>NO</CountryCode>
</StreetAddress>
<ContactPerson>
  <Name>Hanne Hansen</Name>
  <ContactInformation>
    <PhoneNumber>40040400</PhoneNumber>
    <EmailAddress>hanne@ buyer1.no</EmailAddress>
  </ContactInformation>
</ContactPerson>
<OrgNumber>998877665</OrgNumber>
<VatId>MVA998877665NO</VatId>
<AccountInformation>
  <AccountNumber>70007070000</AccountNumber>
  <IbanNumber>String</IbanNumber>
  <SwiftNumber>String</SwiftNumber>
</AccountInformation>
</Buyer>
<InvoiceReferences>
  <BuyersOrderNumber>54321</BuyersOrderNumber>
  <BuyersOrderDate>2007-06-01</BuyersOrderDate>
  <DeliveryTerms> Free of charge</DeliveryTerms>
  <DeliveryDate>2007-08-01</DeliveryDate>
</InvoiceReferences>
```

```
<Payment>
  <DueDate>2007-08-01</DueDate>
  <Currency>NOK</Currency>
  <KidNumber>123456789</KidNumber>
  <PaymentTerms>30 days</PaymentTerms>
  <PaymentDiscount>
    <DiscountPercent>2</DiscountPercent>
    <DiscountDays>10</DiscountDays>
  </PaymentDiscount>
  <OverDuePercent>2.5</OverDuePercent>
</Payment>
<Attachments>String</Attachments>
</InvoiceHeader>
<InvoiceDetails>
  <BaseItemDetails>
    <LineItemNum>1</LineItemNum>
    <SuppliersProductId>55555</SuppliersProductId>
    <Description>Product1</Description>
    <BuyersProductId>66666</BuyersProductId>
    <UnitPrice>2.5</UnitPrice>
    <PriceType>AAB</PriceType>
    <LineItemPreDiscountAmount>12.5</LineItemPreDiscountAmount>
    <LineItemAmount>10</LineItemAmount>
    <QuantityInvoiced>5</QuantityInvoiced>
    <UnitOfMeasure>PCE</UnitOfMeasure>
    <VatInfo>
      <VatPercent>25</VatPercent>
      <VatBaseAmount>11</VatBaseAmount>
      <VatAmount>2.75</VatAmount>
    </VatInfo>
    <TaxInfo>
      <Description>Environment tax</Description>
      <Percent>10</Percent>
```

```

                <BaseAmount>10</BaseAmount>
                <Amount>1</Amount>
            </TaxInfo>
            <Discount>
                <Description>Konsern</Description>
                <Percent>20</Percent>
                <BaseAmount>12.5</BaseAmount>
                <Amount>2.5</Amount>
            </Discount>
        </BaseItemDetails>
    </InvoiceDetails>
    <InvoiceDiscountChargesAndTax>
        <InvoiceCharges>
            <Description>Freight</Description>
            <Percent>6</Percent>
            <BaseAmount>11</BaseAmount>
            <Amount>0.66</Amount>
            <VatInfo>
                <VatPercent>25</VatPercent>
                <VatBaseAmount>0.66</VatBaseAmount>
                <VatAmount>0.17</VatAmount>
            </VatInfo>
        </InvoiceCharges>
    </InvoiceDiscountChargesAndTax>
    <InvoiceSummary>
        <InvoiceTotals>
            <LineItemTotalsAmount>11</LineItemTotalsAmount>
            <DiscountTotalsAmount>0</DiscountTotalsAmount>
            <ChargesTotalsAmount>0.66</ChargesTotalsAmount>
            <TaxTotalsAmount>0</TaxTotalsAmount>
            <GrossAmount>14.60</GrossAmount>
            <VatTotalsAmount>2.92</VatTotalsAmount>
            <NetAmount>11.66</NetAmount>
        </InvoiceTotals>
    </InvoiceSummary>

```

```
        <RoundingAmount>0.02</RoundingAmount>
    </InvoiceTotals>
    <VatTotalsInfo>
        <VatPercent>25</VatPercent>
        <VatBaseAmount>11.66</VatBaseAmount>
        <VatAmount>2.92</VatAmount>
    </VatTotalsInfo>
    <TaxTotalsInfo>
        <TaxDescription>Environment tax</TaxDescription>
        <TaxAmount>1</TaxAmount>
    </TaxTotalsInfo>
    <DiscountTotals>
        <Description>Discount</Description>
        <Amount>2.5</Amount>
    </DiscountTotals>
</InvoiceSummary>
</Invoice>
</Interchange>
```

## **Attachment 2: Information Model**

The Information Model is described using UML (Unified Modeling Language) as documentation technique. UML is administered by the Object Management Group (OMG) and has become the de facto standard for modeling both in systems development and in message exchange.

The valid version of UML is 1.4.

Key to the UML class diagram.

The following values are used to describe relationships:

1 = The element is mandatory (there must be 1 occurrence). This is the **default** value and will normally not be described.

0..1 = The element is non-mandatory and does not need to be sent (it can occur 0 or 1 times)

0..\*= The element is non-mandatory and does not need to be sent. If it is sent it can occur several times (it can occur 0 or n times).

1..\*= The element is mandatory and must occur once (it can occur 1 or n times)

The message itself is defined at an XML schema in accordance with XML version 1.0.

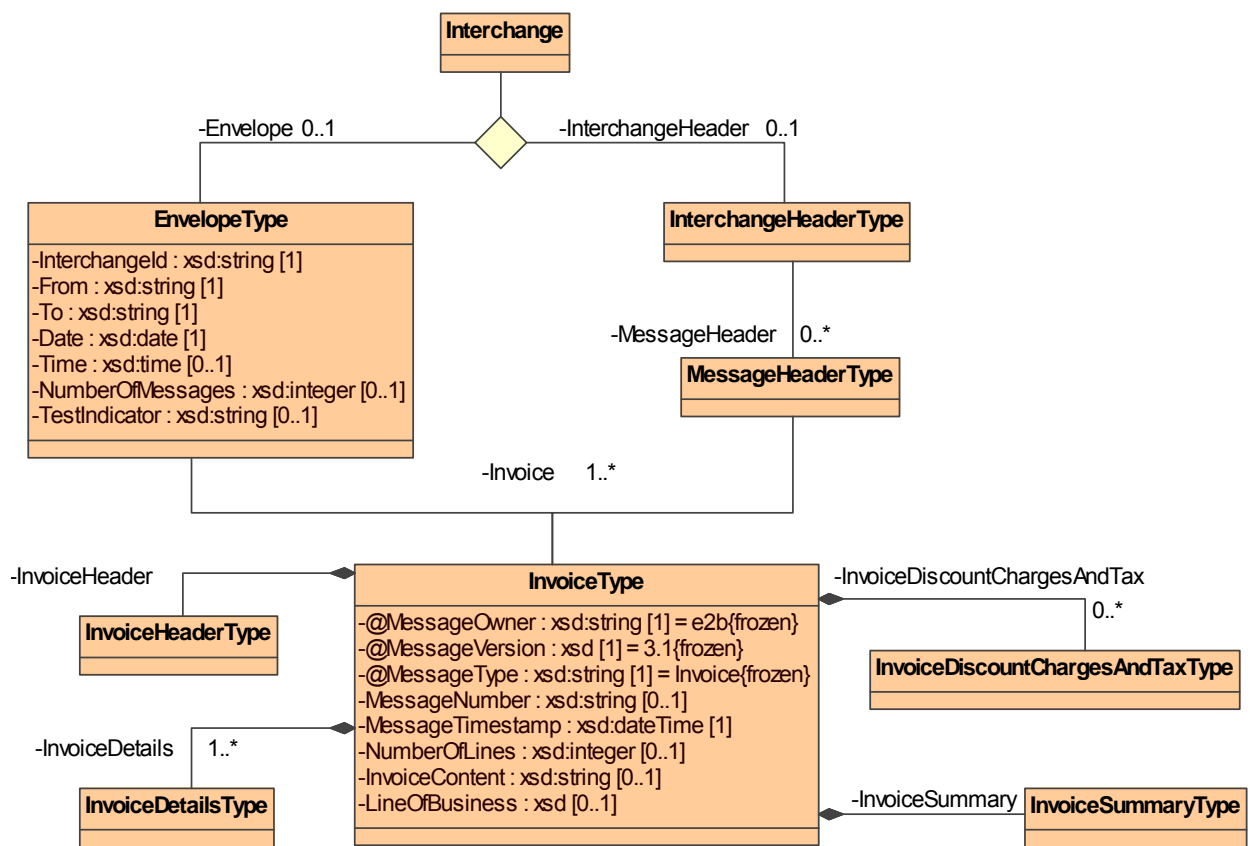
**Interchange and Message level**

The Interchange level ensures a correct structure in the XML message when the Envelope is used. The Envelope contains addressing information, and is especially intended for use in conjunction with messaging brokers.

The Interchange level must also be used if several Invoices are sent in one Interchange.

Content of InterchangeHeaderType and MessageHeaderType are described in a separate document

The e2b Invoice can also be used together with other Envelopes e.g. SOAP.

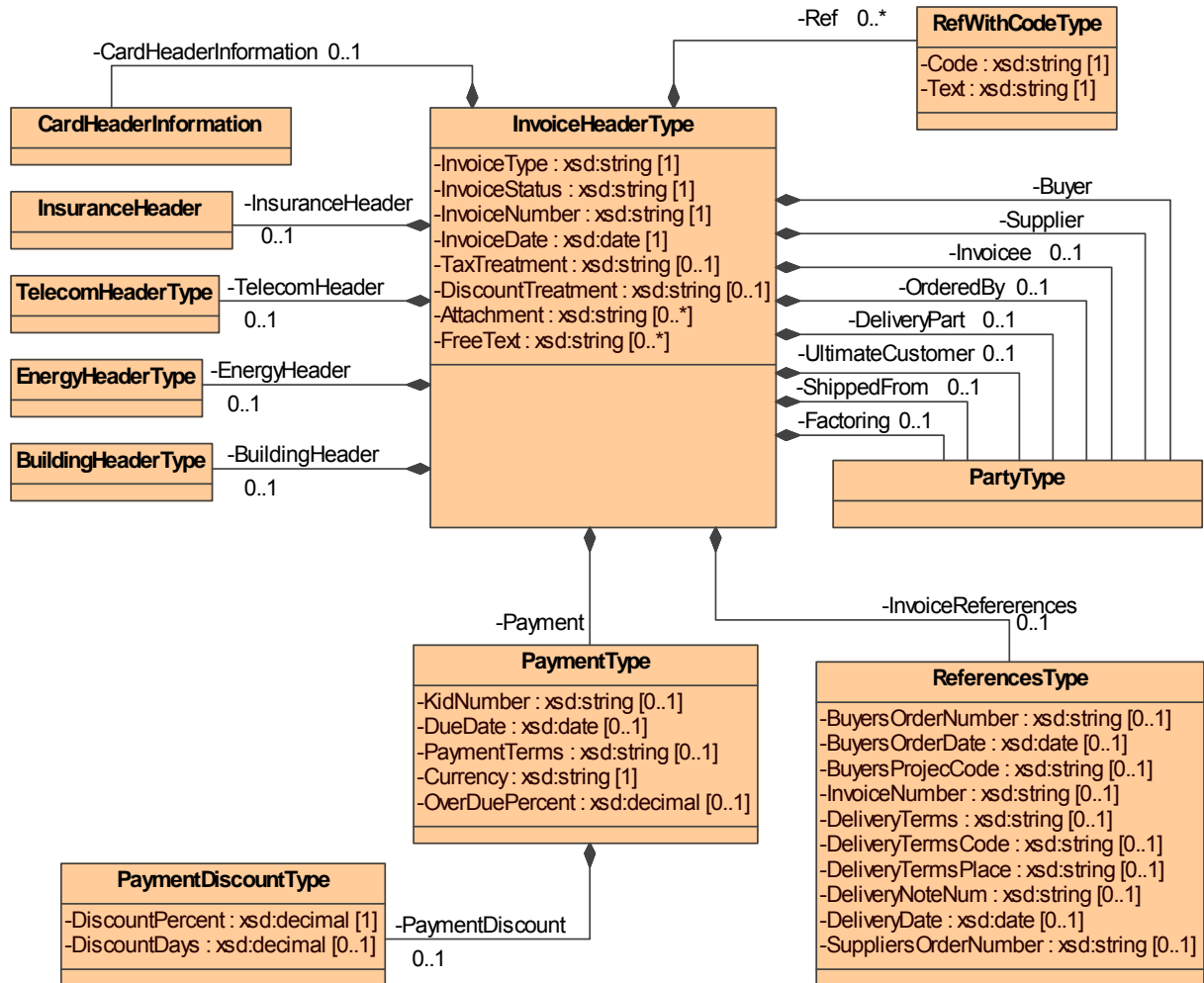


**Invoice Header**

The Invoice header contains overall information about the Invoice.

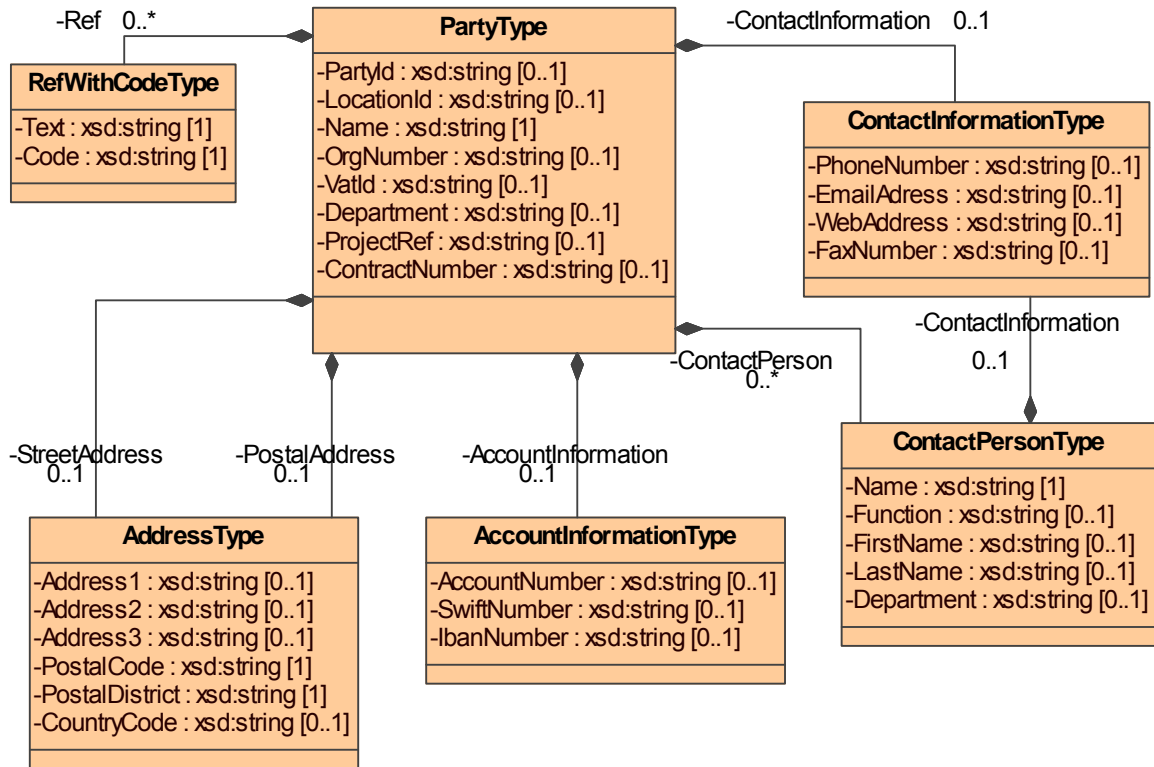
The content of PartyType is described in next chapter.

The content of classes containing additional business information is described in separate documents.



**Party type information**

PartyType contains information that is common for all parties defined in the Invoice.



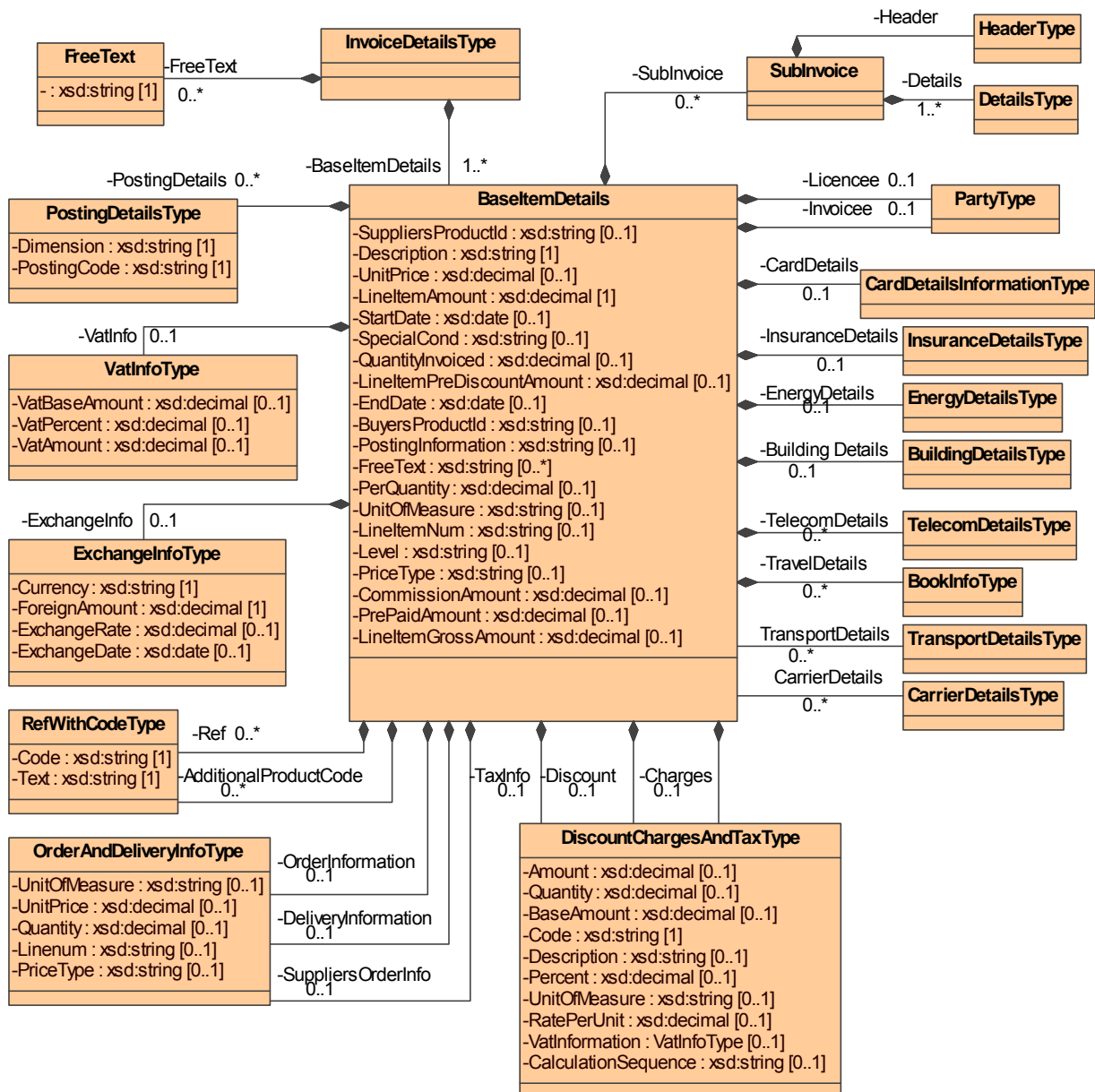
Invoice details

Invoice details contains information about the products or services that is to be invoiced.

The content of PartyType is described in the previous chapter. The content of classes containing additional business information is described in separate documents.

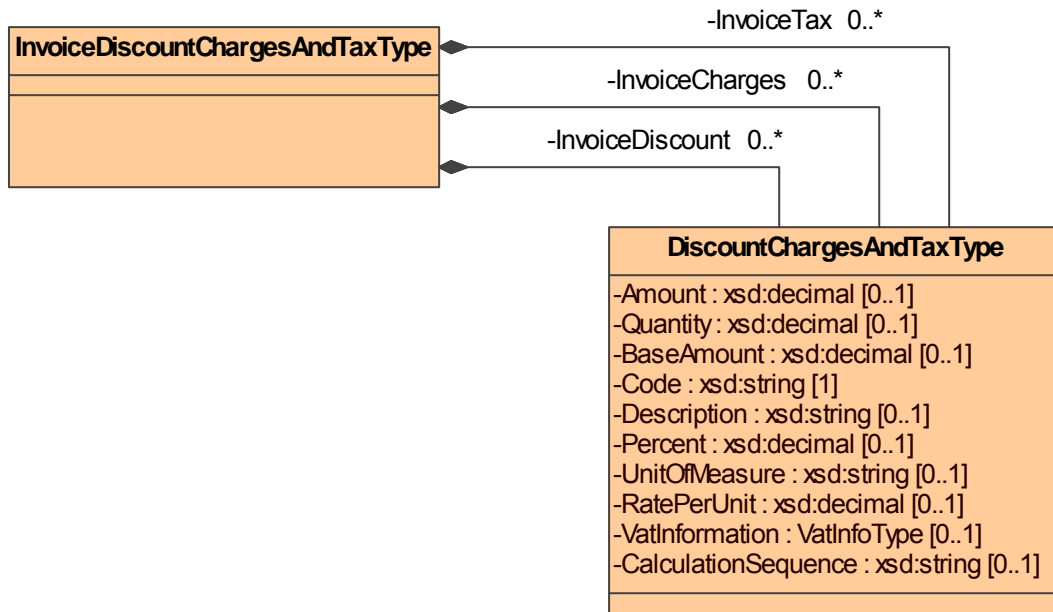
The Invoice details can consist of

- Minimum one occurrence of Basis details of the BaselineItemDetails type with optional information for the defined business sectors:
- Single lines with free text



**Invoice discount, charges and tax**

Contain discounts, charges and tax that are calculated against the sum of the net line amounts in addition to calculations on each line.



**Invoice totals**

Invoice totals contain total amounts for the whole Invoice and must occur once in the Invoice message.

Description of content:

- InvoiceTotals contains the total amounts for each of the defined amount-types including Vat. GrossAmount is with Vat and NetAmount is without Vat
- VatInfoType lists the total amounts for each Vat-percent calculated in the Invoice
- TaxTotalsInfo lists the total amounts for each Tax-type
- DiscountTotals lists the total amounts for each Discount-type
- ChargesTotals lists the total amounts for each Charges-type
- ActualPayment can be used if the amount to be paid is different from the NetAmount

