ebInterface 4.0
The Austrian e-Invoice standard

Note: This documentation is a translation of the German documentation of the ebInterface standard 4.0, available on http://www.ebinterface.at. This documentation is currently in status DRAFT and may contain typos and grammatical mistakes.

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1 Introduction

1.1 Subject

This document describes the XML-Schema Invoice.xsd of the ebInterface 4.0 standard.

1.2 Referenced XML standards and specifications

For the XML-structure of ebInterface the following specifications and standards were used:

Name	Standard
http://www.w3.org/2000/09/xmldsig#	XML Digital Signatures (XMLDSIG) – W3C: electronic signatures [W3C02]
http://www.w3.org/2001/XMLSchema	W3C – XML Schema [W3C01]
http://www.ebinterface.at/schema/4p0/	ebInterface 4.0

1.3 Changes in Version 2.0

The following changes – in comparison to Version 1.0 – were adopted:

- The declaration of a tax identification number (VAT) is possible for the invoicing party (`Invoice/Biller/VATIdentificationNumber`) as well as for the invoice recipient (`Invoice/InvoiceRecipient/VATIdentificationNumber`).
- The previously used element TaxID (`Invoice/Tax/VAT/TaxID`) for reporting the tax identification number (VAT) of the invoicing party has been deleted.
- The scheme allows the definition of a cancelled invoice (`Invoice/@Cancellation`).
- A new own namespace has been defined. For version 2.0 of standard the namespace is "`http://www.ebinterface.at/schema/2p0/`".
- Electronic signature: XMLDSig (XML-Signature Syntax und Processing) for the Enveloped Signature has been included in the Schema.
- The element for the definition of the discounted amount (`Invoice/PaymentConditions/Discount/DiscountedAmount`) has been deleted, as it can be calculated and, therefore, has no additional benefit.
- If the discount does not refer to the total gross amount, a new element for reporting the base amount for calculating the discount has been implemented (`Invoice/PaymentConditions/Discount/BaseAmount`).
- Sum discounts: Version 2.0 allows granting a discount up to the entire invoice amount (`Invoice/PaymentConditions/Reduction`).
- The attribute SchemaVersion (`Invoice/@SchemaVersion`) for reporting the underlying ebInterface scheme has been deleted. This information is defined using the XML namespace.
- A new additional attribute – `ConsolidatorPayable` – for payment options "`UniversalBankTransaction`" has been added, which regulates the payment on a consolidator platform.

1.4 Changes in Version 2.1

- The attribute `ConsolidatorPayable` for paying options `UniversalBankTransaction` has been explicitly set on optional and the default value "`false`" has been deleted. The usage, however, remains equal, which means only if the attribute

`ConsolidatorPayable` is specified with "true" on an invoice it will affect the payment on a consolidator platform.

- The default value "false" of the attribute `Cancellation` of the route element `Invoice` has been deleted. The usage, however, remains equal, which means only if the attribute `Cancellation` is specified with "true" on an invoice, it is an invoice cancellation.
- The data type `DecimalType` also accepts negative values (bug fix in ebInterface 2.0).
- A new own namespace has been defined. For new version of the standard the namespace is "`http://www.ebinterface.at/schema/2p1/`".

1.5 Changes in Version 2.2

- Implementation in the documentation that invoices are to be numbered not only clearly but also consecutively.
- For each invoice the day or, respectively, the delivery period has to be entered. Thus, the former optional element `Delivery` has been set on mandatory.
- In the documentation it has been explicitly stated that the invoicing party in the `Biller` element is either delivering or supplying party.
- It is an essential requirement to enter the tax identification number (VAT) of the invoicing party on the invoice. Thus, the element `Biller/VATIdentification-Number` is now mandatory. In case the invoice recipient has no tax identification number, the string "00000000" (eight times the zero) has to be entered.
- The data processing registration number, mentioned in the data protection law, has been added as an optional element `Biller/DPRNumber` (= Data Processing Register Number) to the invoicing party.
- It is an essential requirement to enter the tax identification number (VAT) of the invoice recipient on the invoice. Thus, the element `InvoiceRecipient/VAT-IdentificationNumber` is set on mandatory. In case the invoice recipient has no tax identification number, the string "00000000" (eight times the zero) has to be entered.
- The invoice has to contain name and address of both, delivering/supplying enterprise as well as the recipient information. As a result the elements `Street`, `Town`, `ZIP` and `Country Address` are to be changed in the `Address`-type. It is pointed out that the `Address`-type is not only used in the elements `Biller` and `InvoiceRecipient` but also in the element `Delivery`.
- In case the invoice is not subject to value added tax (VAT), this has to be marked explicitly. Thus, the empty element `TaxExemption` has been included as a sub-element from `Tax/VAT`, which may be used alternatively to the sub-element `Item`. Furthermore the elements `Tax` and `Tax/VAT`, respectively, have been set on mandatory.
- The statement of payment methods and terms of payment are not required. Thus, `PaymentMethod` and `PaymentConditions` have been set on OPTIONAL.
- In the documentation it was stated that an item row has to contain elements of quantity, usual commercial description and remuneration (including currency) of the delivery or service.
- It is ought to be possible for every item in the details to put in a classification according to accepted classification schemes (e.g. CPA, NACE Code). Thus, the item `Classification` in the code list `UsageType` has been adopted.
- In the documentation it was explicitly stated that every ebInterface invoice has to contain a reference to the used XSLT styles sheet.
- A new namespace has been defined. For the new version of the standard the namespace is "`http://www.ebinterface.at/schema/2p2/`".

1.6 Changes in Version 3.0

Changes in data type

- `DecimalType` became `Decimal2Type` (decimal number with two decimal places)
- `Decimal4Type` has been added (decimal number with four decimal places)
- `DocumentTypeType` with a code list for several types of invoices has been added
- `UsageType` has been deleted

Changes in attributes of Element Invoice

- The attribute `Cancellation` for reporting of invoice cancellations has been deleted. This information is defined using the new, optional attribute `CancelledOriginal-Document`. In case another invoice is cancelled with this invoice, the number (`Invoice/InvoiceNumber`) of the cancelled invoice is mentioned in this attribute. In case of cancellation the original amounts are mentioned with inverse signs.
- Hence, the currency of the invoice will be defined in one place (`Invoice/@InvoiceCurrency`). As a consequence the following types have been deleted:
  - o `BankAccountNrType` henceforth `String`
  - o `AmountType` henceforth `Decimal2Type`
  - o `TotalGrossAmountType` henceforth `Decimal2Type`
- The optional attribute `ManualProcessing` of type of Boolean has been added. By way of using this attribute the issuer of the invoice is given the possibility to mark side agreements, mentioned in the text field.
- The mandatory attribute `DocumentType` with the coded `DocumentTypeType` for reporting types of invoices (invoice, final settlement, payment in advance, invoice for partial delivery, subsequent credit, credit memo, subsequent credit, self billing) has been added.

Changes in element Invoice

- The element `Delivery` has been set on optional because delivery details may be mentioned alternatively in the position lines of the invoice.
- The element `Supplier` has been deleted.
- The element `OrderingParty` for reporting the ordering party, in case it is not mentioned as the
  - o Invoice recipient, has been added as an optional element after `InvoiceRecipient` and before `Details`.
- The `Details` have been set from optional to mandatory to ensure that at least one item or service is settled.
- After `Details` and before `Tax` the new optional element `ReductionDetails` for reporting discounts has been added.
- The attribute `Language` and the attribute `DocumentTitle` have been newly added – the corresponding elements have been deleted from `PresentationDetails`.

Changes in element delivery

- For entering a delivery number a new optional element `DeliveryID` has been added.
- Exactly one date or period has to be mentioned to every delivery which means the upper threshold in the selection of delivery date and delivery period have been set back from unlimited to one. Additionally, the delivery date and address, respectively, may be overwritten per position.
- The optional element `Description` has been added – replacing the element `DeliveryDescription` in `PresentationDetails`.

Changes in element Biller

- The optional and repeatable element `FurtherIdentification` with `Further-IdentificationType` has been added. The `FurtherIdentificationType` is of type `AlphaNumIDType` and contains the attribute `IdentificationType` of type of string.
- The element `DPRNumber` for entering the DVR number has been deleted, as it can be displayed with `FurtherIdentification`.
- The upper threshold in `OrderReference` was set back from unlimited to one.

Changes in element OrderReference
- The element `ID` has been renamed in `OrderID`

Changes in element InvoiceRecipient
- As for the element `Biller` the upper threshold in `OrderReference` has been set back from unlimited to one.

New element OrderingParty
- The structure of `OrderingParty` for entering the ordering party, in case the party is not equivalent to the invoice recipient, is similar to `InvoiceRecipient`, only the second element is called `BillersOrderingPartyID`.

Changes in element details
- The optional elements `HeaderDescription` and `FooterDescription` have been added.
- The structure of this element has been rebuilt completely.

New element ReductionDetails
- The element `ReductionDetails` consists of one to several `Reduction` elements.
- The element `Reduction` of type of `ReductionType` is already available in ebInterface 2.2 (in `PaymentConditions`). The `ReductionType`, however, has been changed:
  - `BaseAmount` has been set on compulsory
  - Additionally, the element `TaxRate` has been added

  As a result the element `Reduction` will be deleted from `PaymentConditions`.

Changes in element Tax
- The type of element `TaxExemption` has been changed to string from empty element. In this string the reason for tax exemption is to be entered.
- The structure of `VAT Item` has been defined as follows:
  - `TaxedAmount`
  - `TaxRate`: `TaxRateType` = `PercentageType` + attribute `TaxCode` (string to entering of "AT" + UVACode 3). ATXXX is equivalent to not taxable
  - `Amount`

Changes in element PaymentConditions
- The element `Reduction` has been deleted (see new element `ReductionDetails`).

Changes in element PresentationDetails
- The elements `HeaderComment` and `FooterComment` have been deleted – this semantic is now available in the attributes `HeaderDescription` and `FooterDescription` in the element `Details/ItemList` and on the other hand in the correspondent attributes of `Details`.
- The element `DeliveryDescription` has been deleted – instead an element `Description` in the element `Delivery` has been added.
- The elements `Language` and `DocumentTitle` have been deleted. These have been added as attributes in the root element `Invoice`.
- The element `ShortComment` has been deleted without replacement.

Changes in field Custom

- In the version ebInterface 2.1 the elements from the `Custom` section have been directly displayed in the sub element `Invoice`. In the version ebInterface 3.0 these elements have to be entered as sub elements in the henceforth explicit element `Custom` (`Invoice/Custom`).
- The attribute `processContents` has been set from `strict` to `lax in` in the scheme. This means that elements in the `Custom` elements can only be validated, if a scheme definition is available for them. If no scheme definition is available, these elements will not be validated and no error indication appears from the parser.

1.7 Changes in Version 3.01

Changes in data types
- The restriction of `Decimal2Type` has been changed from a regular expression to `fractionDigits`.
- The restriction of `Decimal4Type` has been changed from a regular expression to `fractionDigits`.

A new namespace has been defined. For new version of the standard the namespace is `"http://www.ebinterface.at/schema/3p01/"`.

1.8 Changes in Version 3.02

Changes in data types
- The restriction of `PercentageType` has been changed from a regular expression to `fractionDigits` with `minInclusive` and `maxInclusive`.

A new own namespace has been defined. For new version of the standard the namespace is `"http://www.ebinterface.at/schema/3p02/"`.

1.9 Changes in Version 4.0

Introduction of structural extensions
- A significant change in ebInterface 4.0 is the introduction of structural extensions in the ebInterface XML scheme. With the help of predefined extension, an ebInterface coupling scheme (ebInterfaceExtension.xsd) and from ebInterface standardized extension schemes, the integration of domain-specific extensions is now possible. The functionality of the extensions will be explained in chapter 4.

Changes in element „Address"
- A new optional element `AddressIdentifier` has been added to the element `Address`, which serves as an explicit identification of an address. Additionally the element `AddressIdentifier` has an optional attribute `AddressIdentifierType`. With the help of this attribute it is possible to define what kind of `AddressIdentifier` is to be dealt with. For the valid values of `AddressIdentifierType` a code list was stored `AddressIdentifierTypeType`.

Changes in element „InvoiceRecipient"
- To the element `InvoiceRecipient` new optional elements `AccountingArea` and `SubOrganizationID` have been added. With the help of these two elements accounting areas and more accurate details of in-house invoice recipients (i.e. organizational unit) can be stated.

Changes in the element „ListLineItem"

- Both elements `BillersArticleNumber` and `InvoiceRecipientsArticleNumber` have been deleted. Instead a new optional element `ArticleNumber` has been added, subsequently with the help of this element one or several item numbers can be displayed. The element `ArticleNumber` has an optional attribute `ArticleNumberType,` which is able to display the `ArticleNumber`. As for the valid values of `ArticleNumberType` a code list was stored `ArticleNumberTypeType`.

Changes in element „ReductionDetails"at ROOT level

- On the ROOT level of the scheme the element `ReductionDetails` has been renamed in `ReductionAndSurchargeDetails`. The element `Percentage` has been set on optional. In order to enter additional charges, a new optional element `Surcharge` has been added to the element `ReductionAndSurchargeDetails`. The type of `Surcharge` corresponds with the type of `Reduction`.

Changes in element „ReductionDetails" at ListLineItem level

- The element `ReductionDetails` on the `ListLineItem` has been renamed in `ReductionAndSurchargeListLineItemDetails`. The type of this element is from now on not the same as the type of `ReductionDetails` on the ROOT level but a new type `ReductionAndSurchargeListLineItemDetailsType` has been added. In contrast with the old type `TaxRate` was left out. Additionally, as it was for the ROOT level, the element `Percentage` has been set on optional and the optional element `SurchargeListLineItem` has been added to enable the possibility of giving additional charges. The element `Reduction` has been renamed in `ReductionListLineItem`.

Changes in element „PaymentReference"

- The type of `PaymentReference` has been changed from `xs:integer` to `Digit12Type`. Additionally, a new optional element `CheckSum` has been added.

Changes in element „PaymentConditions"

- The element `Percentage` of the element `Discount` has been set on optional.

Changes in element „Country"

- A new optional element `CountryCode` has been added to the element `Country`, which enables to display an IOS 3166-1 Country Code to the free text element `Country`.

Changes in type „CountryCodeType"

- The values of the enumeration have been adapted to the last version of the ISO 3166-1 standards [ISO3166-1].

Changes in type „CurrencyType"

- The values of the enumeration have been adapted to the last version of the ISO-4217 standards [ISO4217].

Changes in attribute „TaxCode"

- The type of `TaxCode` has been changed from `xs:string` to `TaxCodeType`. `TaxCodeType` has been added as simpleType.

A new namespace has been defined. For the new version of the standard the namespace is `"http://www.ebinterface.at/schema/4p0/"`.

2 Schema base information

The Schema-description has been built on the basis of the tree view. If XML composite elements appear several times in the scheme (i.e. *Address* or *OrderReference*), the sub elements of those elements will be explained only in the first appearance of the element in order to avoid double listing and to improve readability.

The list of XML-elements and attributes contains the following information:

Name
This column contains the names of the XML-elements/attributes. All names can be interpreted as paths relatively to the ROOT-element "Invoice". Attributes are marked with the identifier "@". Arbitrary paths are marked with the identifier "*".

Meaning
This column contains an explanation for the usage of the XML-lements/Attributes.

Type
This column contains the type of the XML element or XML attribute, respectively.

Cardinality
This column contains the explanation of the cardinality.

Cardinality	Meaning
0..1	Zero times or once.
0..*	Zero or several times.
1..1	Exactly once.
1..*	Once or several times.

Format
The column "Format" contains information on the used data type and used structure by creation of the data type, respectively. Furthermore, it is possible to enter maximum length and/or other references.

The following SimpleTypes have been used in ebInterface standard.

Data type	Allowed characters
AccountingAreaType	xs:string with maximum length 20
AddressIdentifierTypeType	xs:token with the following allowed values: ▪ GLN – Global Location Number. Is used as explicit, worldwide non-overlapping identification of all enterprises, operations and organizational units. [GLN11] ▪ DUNS – Data Universal Numbering System. Nine digit coding scheme for an explicit, worldwide identification of enterprises. [DUNS11] ▪ ProprietaryAddressID. Shows that a proprietary number for address identification is used.
AlphaNumType	1234567890 ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz -_ äöüÄÖÜß
AlphaNumIDType	AlphaNumType with maximum length 35
ArticleNumberTypeType	xs:token with the following allowed values: ▪ PZN. Standardised identification key for medicines and pharmaceutical products. [PZN11]

	GTIN. GTIN-Global Trade Item Number (also known as the "barcode") is displayed on all trading units in the form of using a bar code and can be written explicitly and non-overlapping by all worldwide point-of sale systems. [GTIN11] ■ InvoiceRecipientsArticleNumber. An item number provided by the invoice recipient. ■ BillersArticleNumber. An item number provided by the invoicing party.
BankAccountOwnerType	xs:string with maximum length 70
BankNameType	xs:string with maximum length 255
BICType	Allowed character: [0-9 | A-Z | a-z]{8}([0-9 | A-Z | a-z]{3})? 8 or 11 digits in accordance with ISO 9362
CheckSumType	Allowed character: [0-9 | X]{1}
CountryCodeType	Country code in accordance with ISO 3166-1, i.e. "AT", "US", etc.
CurrencyType	A currency code in accordance with ISO 4217, i.e. "EUR", "USD", "CHF", etc.
Decimal2Type	-#.99 Decimal number with 2 digits after the decimal point and any number of digits before the decimal point. In case of negative numbers, a minus sign (-) will be put in front directly without previous blank spaces) . *Note:* A decimal point (.) is used instead of a comma (,).
Decimal4Type	-#.9999 Decimal number with 4 digits after the decimal point and any number of digits before the decimal point. In case of negative numbers, a minus sign (-) will be put in front directly without previous blank spaces) . *Note:* A decimal point (.) is used instead of a comma (,).
Digit12Type	Allowed character: (\d){1,12}
DocumentTypeType	One of the following strings: ■ Invoice, ■ FinalSettlement, ■ InvoiceForAdvancePayment, ■ InvoiceForPartialDelivery, ■ SubsequentCredit, ■ CreditMemo, ■ SubsequentDebit, ■ SelfBilling *Note*: CreditMemo has the semantics of Invoice but should be used in case the TotalGrossAmount is negative. The relation of SubsequentDebit and SubsequentCredit is analogical.
IBANType	ISO 13616 and EBS-Standard (European Banking Standard): max. 34 digits, alphanumeric
LanguageType	A language type in accordance ISO 639-2, i.e. "GER", "ENG", etc.
PercentageType	0.00 – 100.00 Decimal number in range of values from 0 to 100 with the maximum of two digits after the decimal point. *Note:* A decimal point (.) is used instead of a comma (,).
TaxCodeType	Allowed character: AT(XXX|[0-9]{3})
XML composite	complexType – contains further XML-elements
xs:anyURI	A Uniform Resource Identifier [RFC3986]
xs:boolean	true | false, 1 | 0, whereas 1 means true and 0 – false
xs:date	A date in accordance to ISO 8601 in format "YYYY-MM-DD" consisting of four-digit year format , two-digit month format and two-digit day-format. In case month or day format is only one-digit this has to be marked with a leading zero (0) i.e. 2008-11-09 (9. November 2008)
xs:integer	{...,-2,-1,0,1,2,...}
xs:positiveInteger	{0,1,2,...}
xs:string	space character

	!#$%&'()*+,-./:;=?@[\]^_`{|}~ 1234567890 ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz äöüÄÖÜß

The keywords MUST, MUST NOT, REQUIRED, SHALL, SHALL NOT, SHOULD, SHOULD NOT, RECOMMENDED, MAY and OPTIONAL, when they appear in this document, are to be interpreted as described in [RFC2119] as quoted here:

- MUST: This word, or the terms "REQUIRED" or "SHALL", means that the definition is an absolute requirement of the specification.
- MUST NOT: This phrase, or the phrase "SHALL NOT", means that the definition is an absolute prohibition of the specification.
- SHOULD: This word, or the adjective "RECOMMENDED", means that 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: This phrase, or the phrase "NOT RECOMMENDED", means that 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: This word, or the adjective "OPTIONAL", means that an item is truly optional. One vendor may choose to include the item because a particular marketplace requires it or because the vendor feels that it enhances the product while another vendor may omit the same item. An implementation that does not include a particular option MUST be prepared to interoperate with another implementation which does include the option, though perhaps with reduced functionality. In the same vein an implementation that does include a particular option MUST be prepared to interoperate with another implementation which does not include the option (except, of course, for the feature the option provides).

3 ebInterface 4.0

Each ebInterface invoice SHOULD contain a reference to the used XSL transformation. This transformation may be the default-styles sheet from ebInterface (freely available at `http://www.ebinterface.at`) or a different style sheet provided by the invoicing party. Referencing a style sheet from a remote location such as http://www.ebinterface.at/Invoice.xslt should be avoided, given that a browser of new generation displays an error if XML document and style sheet are not loaded from the same domain. Instead of that it should be referred to a local copy of the Invoice.xslt file.

Example of referencing from an external domain:
The following example of use of the Invoice.xslt style sheet generates an error, in case the ebInterface instance is opened in a browser of new generation on the local hard drive.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl"
href="http://www.ebinterface.at/download/invoiceexample/4p0/Invoice.xslt"?>
<Invoice n1:ManualProcessing="true" n1:DocumentTitle="Eine Rechnung"
n1:Language="ger" n1:DocumentType="Invoice" n1:InvoiceCurrency="EUR"
n1:GeneratingSystem="ERP System xyz"
xsi:schemaLocation="http://www.ebinterface.at/schema/4p0/ Invoice.xsd"
xmlns="http://www.ebinterface.at/schema/4p0/"
xmlns:n2="http://www.altova.com/samplexml/other-namespace"
xmlns:n1="http://www.ebinterface.at/schema/4p0/"
xmlns:ext="http://www.ebinterface.at/schema/4p0/extensions/ext"
xmlns:sv="http://www.ebinterface.at/schema/4p0/extensions/sv"
xmlns:dsig="http://www.w3.org/2000/09/xmldsig#"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
…
</Invoice>
```

Example of correct referencing
The following example of use of the Invoice.xslt style sheet refers to a version of the style sheet saved on local hard disk. Browsers of new generation are able to process this sample without errors.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="Invoice.xslt"?>
<Invoice n1:ManualProcessing="true" n1:DocumentTitle="Eine Rechnung"
n1:Language="ger" n1:DocumentType="Invoice" n1:InvoiceCurrency="EUR"
n1:GeneratingSystem="ERP System xyz"
xsi:schemaLocation="http://www.ebinterface.at/schema/4p0/ Invoice.xsd"
xmlns="http://www.ebinterface.at/schema/4p0/"
xmlns:n2="http://www.altova.com/samplexml/other-namespace"
xmlns:n1="http://www.ebinterface.at/schema/4p0/"
xmlns:ext="http://www.ebinterface.at/schema/4p0/extensions/ext"
xmlns:sv="http://www.ebinterface.at/schema/4p0/extensions/sv"
xmlns:dsig="http://www.w3.org/2000/09/xmldsig#"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
…
</Invoice>
```
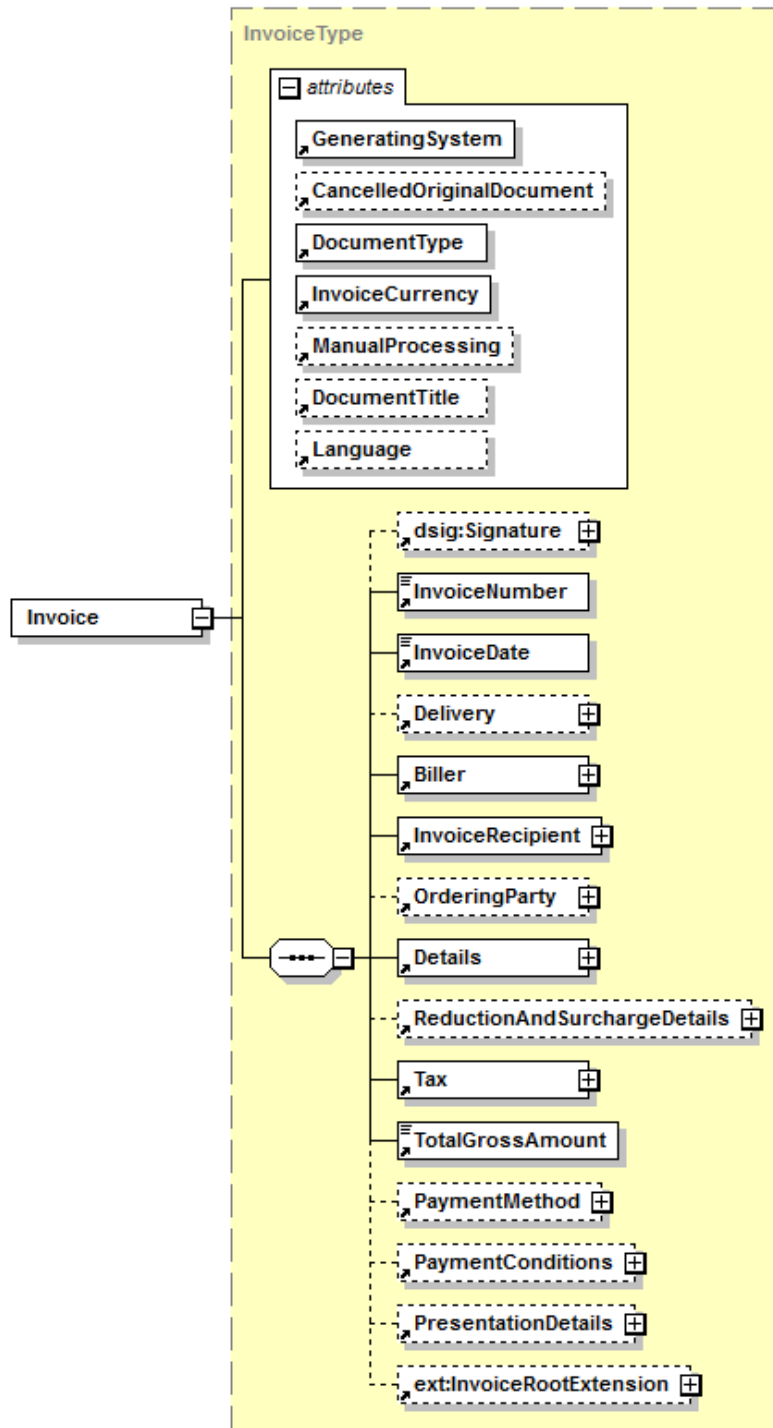
3.1 Invoice

The *Invoice* element MUST be used as root element and, therefore, initiates the electronic invoice.

Generated by XMLSpy   www.altova.com

Name	Meaning	Type	Card.	Format
@GeneratingSystem	Name of the ERP/FIBU-System, which has generated the invoice	Attribute	1..1	xs:string
@CancelledOriginal Document	Optional attribute for entering invoice cancellation. If another invoice is cancelled with this invoice, the number (Invoice-Number) of the cancelled invoice will be displayed in this attribute.	Attribute	0..1	AlphaNumIDT ype max. 35 digits

| @DocumentType	Is used to report the type of invoice. MUST be one of the following strings: • Invoice, • FinalSettlement, • InvoiceForAdvancePayment, • InvoiceForPartialDelivery, • SubsequentCredit, • CreditMemo, • SubsequentDebit, • SelfBilling *Note*: CreditMemo has the semantics of Invoice but SHOULD be used in case the TotalGrossAmount is negative. The relation of SubsequentDebit and SubsequentCredit is analogical.	Attribute	1..1	DocumentType-Type
@InvoiceCurrency	Explicit currency code for the invoice. All amounts of the invoice will be displayed in this currency.	Attribute	1..1	CurrencyType
@ManualProcessing	If this optional attribute is set to `true` the invoicing party signalizes that the invoice should be checked manually before automated processing is carried on. This is usually the case if side agreements have been made in the text fields.	Attribute	0..1	xs:boolean
@DocumentTitle	Document title: May be used to select a random title (i.e. "final settlement", etc.).	Attribute	0..1	xs:string
@Language	Language, in which the invoice is settled.	Attribute	0..1	LanguageType
dsig:Signature	This element has been preceded in his definition from W3C-XMLDSig [W3C02] and contains the signature of the electronic invoice.	Element	0..1	XML composite
InvoiceNumber	Invoice number, MUST be explicit and consecutive for each invoicing party and must be assigned only once by this invoicing party.	Element	1..1	AlphaNumIDType max. 35 digits
InvoiceDate	Date of invoice	Element	1..1	xs:date
Delivery	Details of delivery, which is settled. This element MUST be used if there is only one delivery associated with the invoice. If several deliveries are settled, the element `Invoice/Details/ItemList/ListLineItem/Delivery` has to be used in each item row.	Element	0..1	XML composite
Biller	Details on invoicing party	Element	1..1	XML composite
InvoiceRecipient	Details on invoice recipient	Element	1..1	XML composite
OrderingParty	In case the invoice recipient is not equivalent to the ordering party of the delivery/service, information about the ordering party are to be entered in this element.	Element	0..1	XML composite
Details	Contains individual invoice items.	Element	1..1	XML composite
ReductionAndSurchargeDetails	Details of reduction or surcharges	Element	0..1	XML composite
Tax	Summary of value added tax and other taxes	Element	1..1	XML composite
TotalGrossAmount	Total gross invoice amount	Element	1..1	Decimal2Type
PaymentMethod	Offers a range for entering different payment methods.	Element	0..1	XML composite
PaymentConditions	Details of payment conditions such as discount or minimum amount, which is to be settled.	Element	0..1	XML composite

PresentationDetails	Details, which are relevant for displaying or printing the invoice.	Element	0..1	XML composite
InvoiceRootExtensio n	Element for integration of elements that are referenced in the InvoiceRootExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..*	XML composite (defined in ebInterfaceExte nsion.xsd)

Example:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Invoice n1:ManualProcessing="true" n1:DocumentTitle="Eine Rechnung"
n1:Language="ger" n1:DocumentType="Invoice" n1:InvoiceCurrency="EUR"
n1:GeneratingSystem="ERP System xyz"
xsi:schemaLocation="http://www.ebinterface.at/schema/4p0/
http://www.ebinterface.at/schema/4p0/"
xmlns="http://www.ebinterface.at/schema/4p0/"
xmlns:n2="http://www.altova.com/samplexml/other-namespace"
xmlns:n1="http://www.ebinterface.at/schema/4p0/"
xmlns:ext="http://www.ebinterface.at/schema/4p0/extensions/ext"
xmlns:sv="http://www.ebinterface.at/schema/4p0/extensions/sv"
xmlns:dsig="http://www.w3.org/2000/09/xmldsig#"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
      <InvoiceNumber>993433000298</InvoiceNumber>
      <InvoiceDate>2011-09-20</InvoiceDate>
      ...
      <TotalGrossAmount>1349.26</TotalGrossAmount>
      ...
</Invoice>
```

3.2 Signature

The *Signature* element is OPTIONAL. The structure follows the W3C specification of XML-Signature Syntax and Processing (XMLDSig) [W3C02].
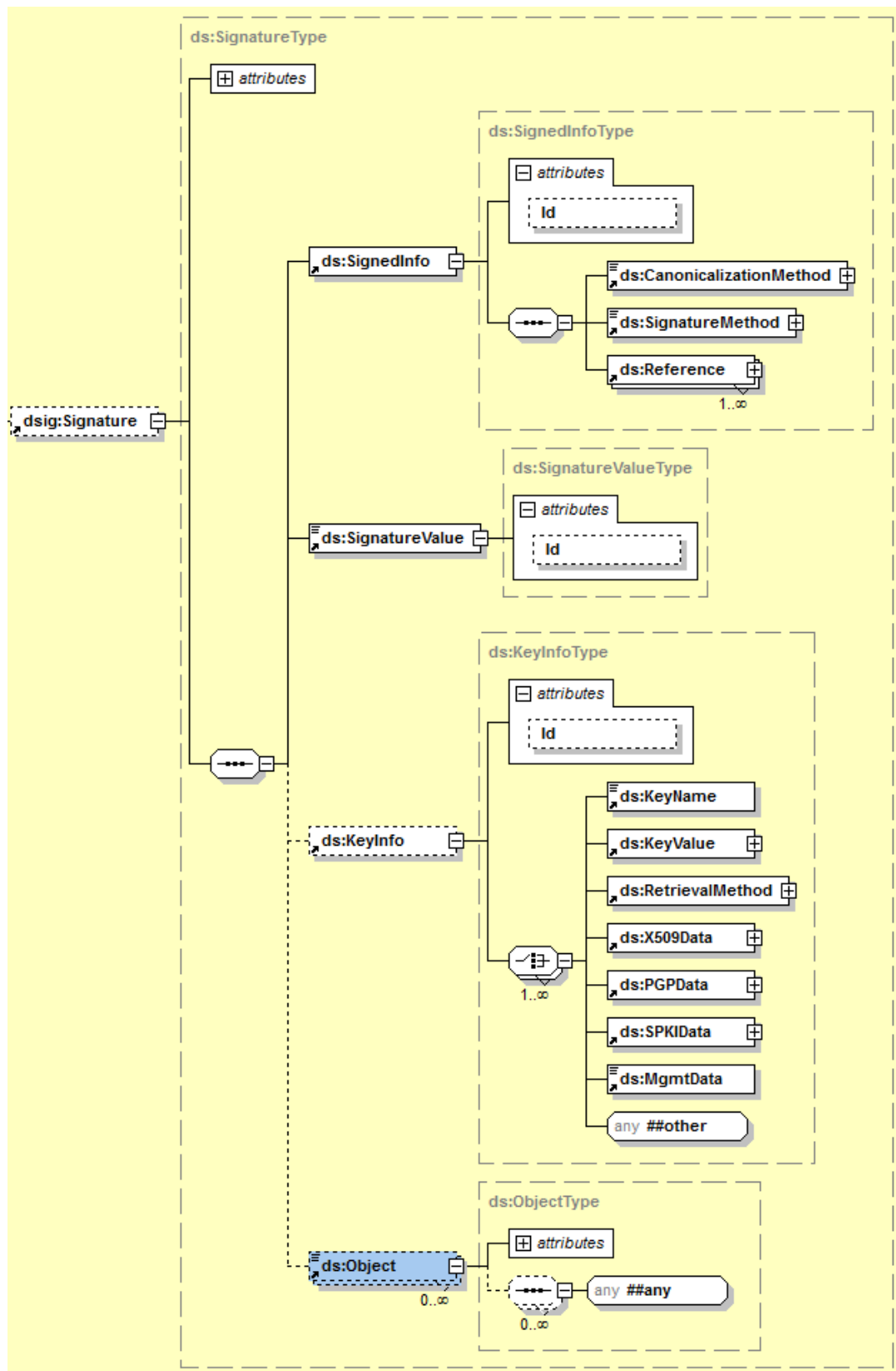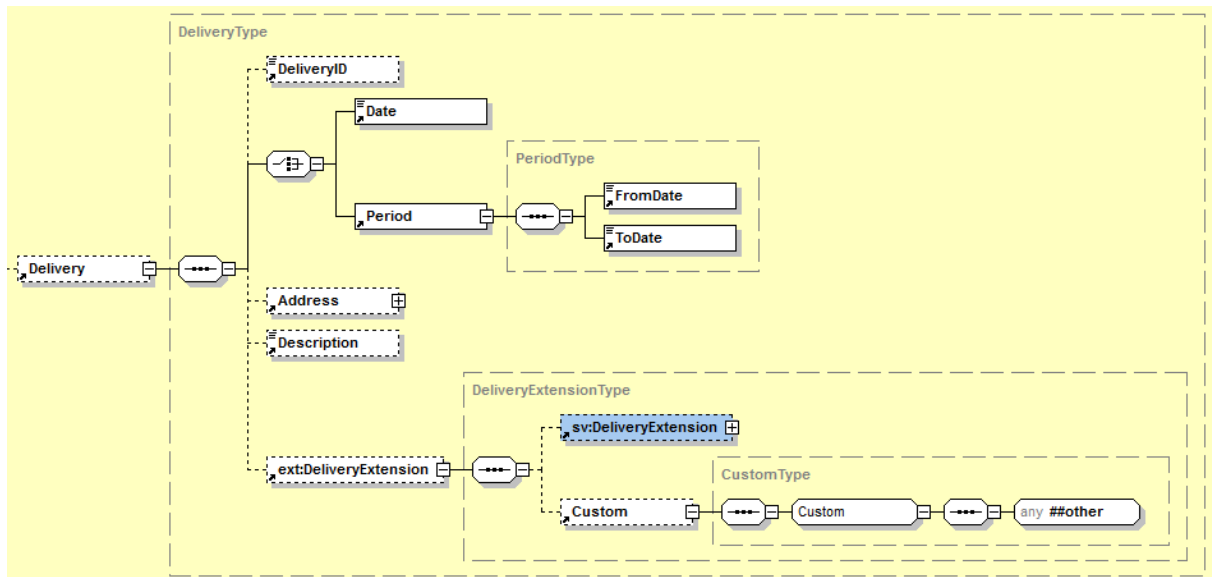
Example:

```xml
<ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
      <ds:SignedInfo>
            <ds:CanonicalizationMethod
                  Algorithm="http://www.w3.org/TR/2001/REC-xml-c14n-20010315"/>
            <ds:SignatureMethod
                  Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
            <ds:Reference URI="">
                  <ds:Transforms>
                        <ds:Transform Algorithm=
                        "http://www.w3.org/2000/09/xmldsig#enveloped-signature"/>
                        <ds:Transform Algorithm="http://www.w3.org/TR/2001/
                              REC-xml-c14n-20010315#WithComments"/>
                  </ds:Transforms>
                  <ds:DigestMethod
                        Algorithm="http://www.w3.org/2000/09/xmldsig#sha1"/>
                  <ds:DigestValue>bi6Qy0MjrmN62eS2Xoi… </ds:DigestValue>
             </ds:Reference>
      </ds:SignedInfo>
      <ds:SignatureValue>
            OnXGLaP12+44gmOCWvooi3yaUo9RXW3IXToAs/g7idC2CsXGudb
            YotK75S6j2F6YAlzEBhe7M/ky0qqoR6kY …
      </ds:SignatureValue>
      <ds:KeyInfo>
            <ds:X509Data>
                  <ds:X509Certificate>
                        zQwDQYJKoZIhvcNAQEFBQAwVTEZMBcGA1UEA
                        xMQVGVzdCBDZXJ0F0ZTEUMBIGA1UEC…
                  </ds:X509Certificate>
            </ds:X509Data>
            <ds:KeyValue>
                  <ds:RSAKeyValue>
                        <ds:Modulus>
                              OqjmcRZh2dh4bsDooq0OGWxRD/sRaR1PqiO
                              A9o8KpzKdMgq9bY+oQIGXxEOO2…
                        </ds:Modulus>
                        <ds:Exponent>AQAB</ds:Exponent>
                  </ds:RSAKeyValue>
            </ds:KeyValue>
      </ds:KeyInfo>
</ds:Signature>
```

3.3 Delivery

The *Delivery* element is OPTIONAL and consists of all necessary delivery details. In the *Delivery* element exactly one delivery date (*Date*) or delivery period (*Period*) MUST be entered. The element `Invoice/Delivery` MUST be used if there is only one delivery associated with the invoice. If several deliveries are settled, the element `Invoice/Details/ItemList/ListLineItem/Delivery` has to be used in each item row. In case `Invoice/Delivery` is entered and further in one item row the element `Invoice/Details/ItemList/ListLineItem/Delivery`, the latter takes precedence over the first mentioned.

Name	Meaning	Type	Card.	Format
DeliveryID	Delivery number	Element	0..1	AlphaNumIDType max. 35 digits
Date	Date of delivery (is used alternatively to delivery period)	Element	1..1	xs:date
Period	Delivery period (is used alternatively to date of delivery)	Element	1..1	XML composite
Period/FromDate	Beginning of delivery period	Element	1..1	xs:date
Period/ToDate	End of delivery period	Element	1..1	xs:date
Address	Details of delivery address. This address is only to be used if the delivery address is not equivalent to the invoice recipient address.	Element	0..1	XML composite
Description	Additional details of delivery in free text	Element	0..1	xs:string
DeliveryExtension	Element for integration of elements that are referenced in the DeliveryExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExtension.xsd)

Example 1 (Entering date of delivery):

```
…
<Delivery>
      <DeliveryID>Lieferung 2011/1</DeliveryID>
      <Date>2011-09-20</Date>
      <Address>
            <AddressIdentifier
                  n1:AddressIdentifierType="GLN">9123456789013
            </AddressIdentifier>
            <Salutation>Firma</Salutation>
            <Name>Mustermann GmbH</Name>
            <Street>Hauptstraße 10</Street>
            <Town>Graz</Town>
            <ZIP>8020</ZIP>
            <Country n1:CountryCode="AT">Österreich</Country>
            <Contact>Hr. Max Mustermann</Contact>
      </Address>
      <Description>Lieferung wie Anfang September vereinbart.</Description>
      <ext:DeliveryExtension>
            <sv:DeliveryExtension>
               <sv:SV_Domain_Specific_DeliveryExtensionElement>Ein von
ebInterface standardisiertes Erweiterungselement
               </sv:SV_Domain_Specific_DeliveryExtensionElement>
            </sv:DeliveryExtension>
            <ext:Custom>
               <n2:auto-generated_for_wildcard>Irgendein beliebiges
Erweiterungselement aus einem anderen Namespace
               </n2:auto-generated_for_wildcard>
            </ext:Custom>
      </ext:DeliveryExtension>
</Delivery>
…
```

Example 2 (Entering delivery period):

```
…
<Delivery>
      <DeliveryID>Lieferung 2011/1</DeliveryID>
      <Period>
            <FromDate>2011-09-15</FromDate>
            <ToDate>2011-09-20</ToDate>
      </Period>
      <Address>
            <AddressIdentifier
              n1:AddressIdentifierType="GLN">9123456789013
            </AddressIdentifier>
            <Salutation>Firma</Salutation>
            <Name>Mustermann GmbH</Name>
            <Street>Hauptstraße 10</Street>
            <Town>Graz</Town>
            <ZIP>8020</ZIP>
            <Country n1:CountryCode="AT">Österreich</Country>
            <Contact>Hr. Max Mustermann</Contact>
      </Address>
      <Description>Lieferung wie Anfang September vereinbart.</Description>
      <ext:DeliveryExtension>
        <sv:DeliveryExtension>
          <sv:SV_Domain_Specific_DeliveryExtensionElement>Ein von
ebInterface standardisiertes
Erweiterungselement</sv:SV_Domain_Specific_DeliveryExtensionElement>
        </sv:DeliveryExtension>
        <ext:Custom>
```

```
            <n2:auto-generated_for_wildcard>Irgendein beliebiges
Erweiterungselement aus einem anderen Namespace
            </n2:auto-generated_for_wildcard>
         </ext:Custom>
      </ext:DeliveryExtension>
</Delivery>
…
```
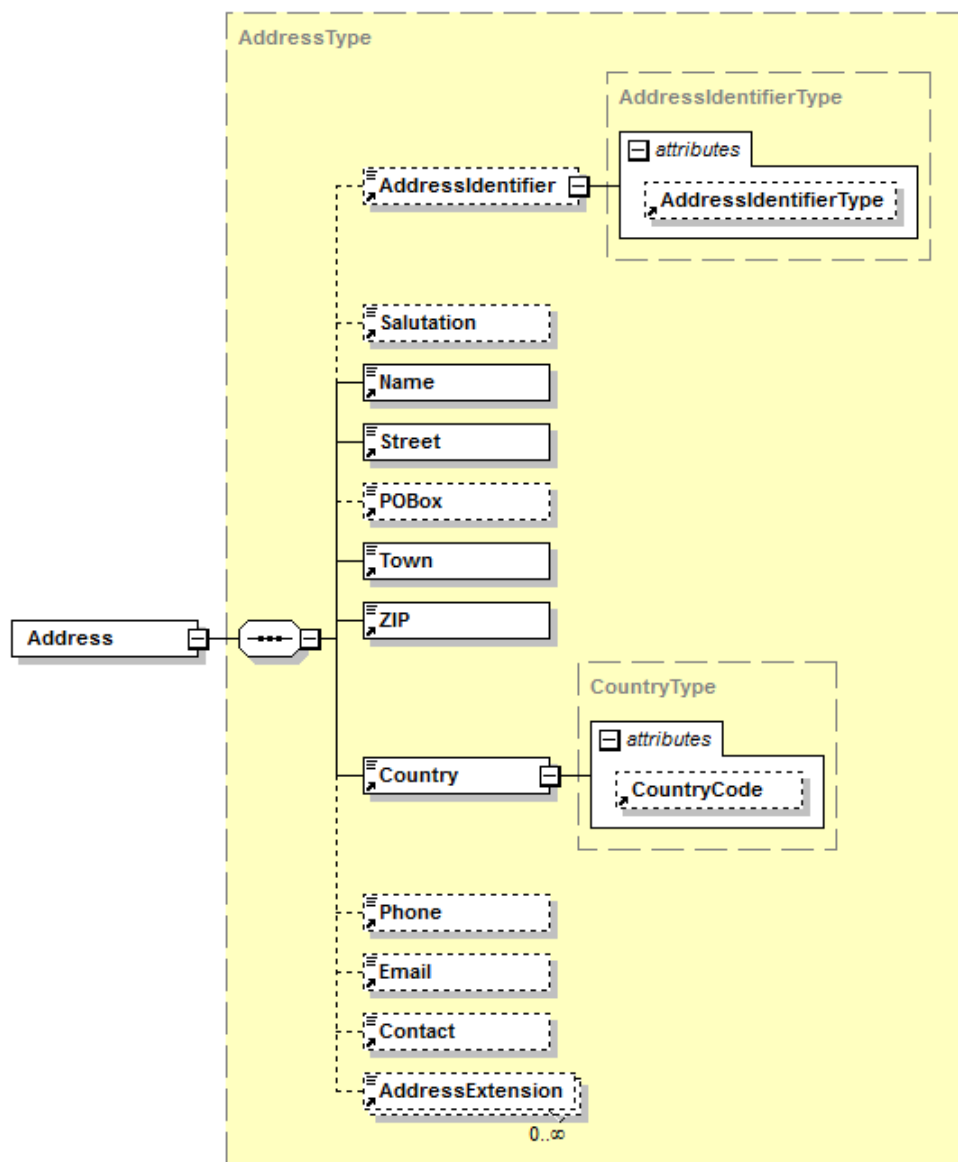
3.3.1 Address

The *Address* element is used to report various kind of address. If the *Address* element is entered, at least *Name*, *Street*, *Town, ZIP* and *Country* of the addressed enterprise or addressed person MUST be entered. The *AddressExtension* element SHOULD be used for additional details and information, which cannot be displayed in the remaining structure.

Note: The AddressExtension element is part of the ebInterface core scheme and will not be embedded from the ebInterfaceExtension.xsd scheme.
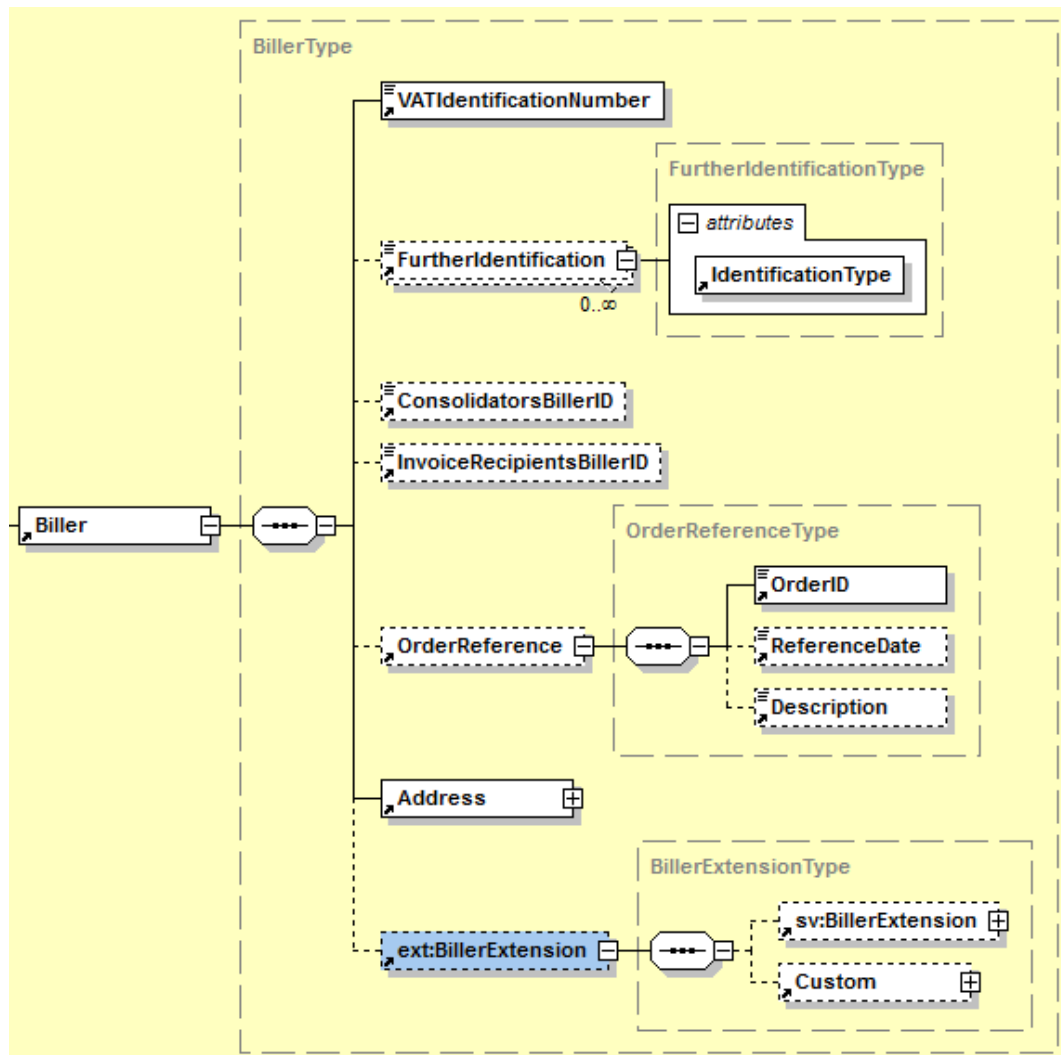

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Name	Meaning	Type	Card.	Format
AddressIdentifier	Identifier for a certain address	Element	0..1	xs:string
AddressIdentifier/ @AddressIdentifier Type	Defines the type of the element AddressIdentifier	Attribute	0..1	AddressIdentifierTypeType
Salutation	Salutation	Element	0..1	xs:string
Name	Name of enterprise or person	Element	1..1	xs:string
Street	Street including house number	Element	1..1	xs:string
POBox	Post office box	Element	0..1	xs:string

Town	Town	Element	1..1	xs:string
ZIP	Zone Improvement Plan	Element	1..1	xs:string
Country	Country (free text)	Element	1..1	XML composite
Country/ @CountryCode	ISO 3166-1 Code, which stands for an explicit identification of the element Country.	Attribute	0..1	CountryCodeType
Phone	Phone number	Element	0..1	xs:string
Email	Email-Address	Element	0..1	xs:string
Contact	Contact person or responsible department/unit	Element	0..1	xs:string
AddressExtension	Additional name or addition to address as free text	Element	0..*	xs:string

3.4 Biller

The *Biller* element is mandatory. It consists of all details of the invoicing party (= supplying or providing enterprise).

Name	Means	Type	Card.	Format
VATIdentification Number	Value Added Tax identification number (VAT) of invoicing party. In case the invoicing party has no value added tax identification number the string „00000000"(eight times the zero) has to be entered. „00000000"may also be entered, if the declaration of the VAT is not required by the Value Added Tax Act.	Element	1..1	xs:string
FurtherIdentification	For reporting further invoicing party-related identifications.	Element	0..*	AlphaNumIDT ype max. 35 digits
FurtherIdentification /@Identification-Type	Defines the kind of identification in free text form, e.g., commercial register number, court of justice, ARA number, DVR number	Attribute	1..1	xs:string
Consolidators BillerID	Identification of invoicing party at Consolidator.	Element	0..1	AlphaNumIDT ype max. 35 digits
InvoiceRecipients BillerID	Identification of invoicing party at invoice recipient	Element	0..1	AlphaNumIDT ype max. 35 digits

OrderReference	Order reference of underlying order assigned by invoicing party. This element is used if only one order is associated with the invoice. If several references to orders are applied, the element `Invoice/Details/Item List/ListLineItem/Biller OrderReference` has to be used for each item row. An invoice MAY also have no references to orders.	Element	0..1	XML composite
Address	Address of invoicing party (*Note*: the structure of the element *Address* is equivalent to structure shown in chapter 3.3.1)	Element	1..1	XML composite
BillerExtension	Element for integration of elements that are referenced in the InvoiceRootExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExtension.xsd)

Example:

```
…
<Biller>
      <VATIdentificationNumber>ATU51507409</VATIdentificationNumber>
      <FurtherIdentification
        n1:IdentificationType="DVR">0012345</FurtherIdentification>
      <ConsolidatorsBillerID>CFF45KL</ConsolidatorsBillerID>
      <InvoiceRecipientsBillerID>ID4456</InvoiceRecipientsBillerID>
      <OrderReference>
        <OrderID>OR3456</OrderID>
        <ReferenceDate>2011-09-20</ReferenceDate>
        <Description>Eingegangen per Fax.</Description>
      </OrderReference>
      <Address>
        <AddressIdentifier
            n1:AddressIdentifierType="ProprietaryAddressID">
          AnyOtherProprietaryID
        </AddressIdentifier>
        <Name>Schrauben Willi</Name>
        <Street>Lassallestraße 5</Street>
        <Town>Wien</Town>
        <ZIP>1020</ZIP>
        <Country n1:CountryCode="AT">Österreich</Country>
        <Phone>+43 / 1 / 78 56 789</Phone>
        <Email>schraube@willi.at</Email>
        <Contact>Sachbearbeiter Meier</Contact>
        <AddressExtension>Zentrale Verwaltung Wien</AddressExtension>
      </Address>
      <ext:BillerExtension>
        <sv:BillerExtension>
          <sv:SV_Domain_Specific_BillerExtensionElement>Ein von ebInterface
            standardisiertes Erweiterungselement
          </sv:SV_Domain_Specific_BillerExtensionElement>
        </sv:BillerExtension>
        <ext:Custom>
          <n2:auto-generated_for_wildcard>Irgendein beliebiges
              Erweiterungselement aus einem anderen Namespace
          </n2:auto-generated_for_wildcard>
        </ext:Custom>
      </ext:BillerExtension>
</Biller>
…
```
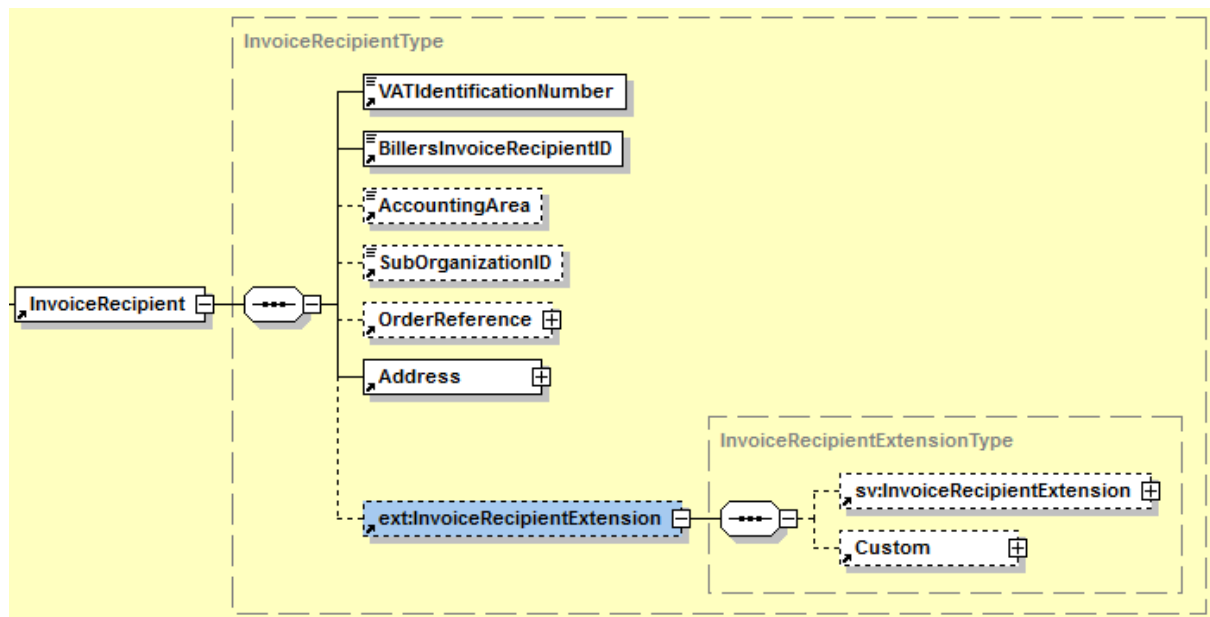
3.4.1 OrderReference

The *OrderReference* element is OPTIONAL and consists of delivery details. This element is used if only one order is associated with the invoice. If several references to orders are applied, the element `Invoice/Details/ItemList/ListLineItem/BillersOrderReference` has to be used for each item row. An invoice MAY also not include references to orders.
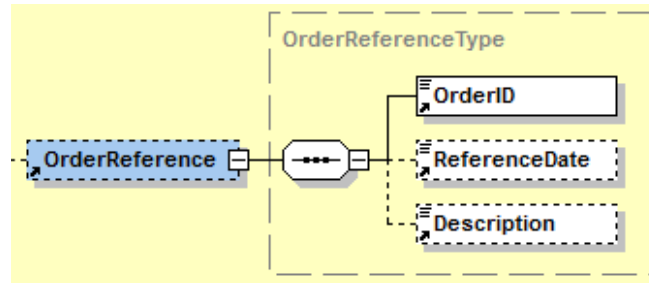
Name	Meaning	Type	Card.	Format
OrderID	Purchase number	Element	1..1	AlphaNumIDType max. 35 digits
ReferenceDate	Date of order	Element	0..1	xs:date
Description	Information about the order in free text.	Element	0..1	xs:string

3.5 InvoiceRecipient

The *InvoiceRecipient* element is mandatory and consists of details of the invoice recipient. The InvoiceRecipient is the party able to claim input tax deduction based on the invoice.

Name	Meaning	Type	Card.	Format
VATIdentification Number	Value added tax identification number (VAT) of invoice recipient. In case the invoice recipient has no value added tax identification number the string „00000000" (eight times the zero) has to be entered. „00000000"may also be entered, if the declaration of the VAT is not required by the Value Added Tax Act.	Element	1..1	xs:string
BillersInvoice RecipientID	Identification of invoice recipient by the invoicing party	Element	1..1	AlphaNumIDType max. 35 digits
AccountingArea	Reporting of the accounting area the invoice recipient	Element	0..1	xs:string
SubOrganizationID	Reporting of a further internal reference by the invoice recipient. This could, for example, be a client number or an identification of a sub organizational unit.	Element	0..1	xs:string
OrderReference	Order reference of underlying order assigned by invoice recipient. This element is used if only one order is associated with the invoice. If several references to orders are used, the element `Invoice/Details/Item List/ListLineItem/ InvoiceRecipientOrderReference` has to be used for each item row. An invoice MAY also consist of no references to orders. (*Note*: the structure of the *OrderReference* element is equivalent as shown in chapter 3.4.1)	Element	0..1	XML composite
Address	Address of invoice recipient (*Note*: the structure of the *Address* element is equivalent as it is shown in chapter 3.3.1)	Element	1..1	XML composite
InvoiceRecipientsE xtension	Element for integration of elements that are referenced in the InvoiceRecipientExtension	Element	0..1	XML composite (defined in

	element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.			ebInterfaceExten sion.xsd)

Example:

```
…
<InvoiceRecipient>
        <VATIdentificationNumber>ATU18708634</VATIdentificationNumber>
        <BillersInvoiceRecipientID>12345678</BillersInvoiceRecipientID>
        <AccountingArea>BK372</AccountingArea>
        <SubOrganizationID>2938</SubOrganizationID>
        <OrderReference>
                <OrderID>ID3456</OrderID>
                <ReferenceDate>2011-09-20</ReferenceDate>
                <Description>Bestellung per Fax.</Description>
        </OrderReference>
        <Address>
                <AddressIdentifier
                   n1:AddressIdentifierType="ProprietaryAddressID">35354
                </AddressIdentifier>
                <Salutation>Firma</Salutation>
                <Name>Mustermann GmbH</Name>
                <Street>Haupstraße 10</Street>
                <Town>Graz</Town>
                <ZIP>8010</ZIP>
                <Country n1:CountryCode="AT">Österreich</Country>
                <Contact>Hr. Max Mustermann</Contact>
        </Address>
        <ext:InvoiceRecipientExtension>
          <sv:InvoiceRecipientExtension>
            <sv:SV_Domain_Specific_InvoiceRecipientExtensionElement>Ein von
              ebInterface standardisiertes Erweiterungselement
            </sv:SV_Domain_Specific_InvoiceRecipientExtensionElement>
          </sv:InvoiceRecipientExtension>
          <ext:Custom>
            <n2:auto-generated_for_wildcard>Irgendein beliebiges
              Erweiterungselement aus einem anderen Namespace
            </n2:auto-generated_for_wildcard>
          </ext:Custom>
        </ext:InvoiceRecipientExtension>
</InvoiceRecipient>
…
```
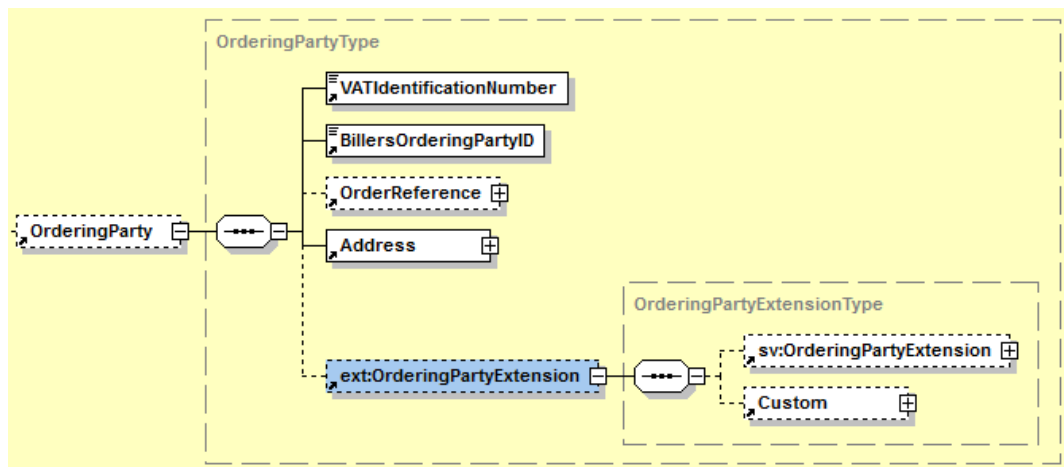
3.6 OrderingParty

The element *OrderingParty* is OPTIONAL and is used to report the ordering party, in case the party is not equivalent to the invoice recipient.

Name	Meaning	Type	Card.	Format
VATIdentificationNumber	Value added tax identification number (VAT) of ordering party. In case the invoice recipient has no value added tax identification number the string „00000000" (eight times the zero) has to be entered. „00000000"may also be entered, if the declaration of the VAT is not required by the Value Added Tax Act.	Element	1..1	xs:string
BillersOrderingPartyID	Identification of ordering party at the invoicing party.	Element	1..1	AlphaNumIDType max. 35 digits
OrderReference	Order reference of underlying order assigned by ordering party. (*Note:* the structure of the element *OrderReference* is equivalent as shown in chapter 3.4.1)	Element	0..1	XML composite
Address	Address of the ordering party (*Note:* the structure of the element *Address* is equivalent as it is shown in chapter 3.3.1)	Element	1..1	XML composite
OrderingPartyExtension	Element for integration of elements that are referenced in the OrderingPartyExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExtension.xsd)

Example:

```
…
<OrderingParty>
      <VATIdentificationNumber>00000000</VATIdentificationNumber>
      <BillersOrderingPartyID>98765432</BillersOrderingPartyID>
      <OrderReference>
            <OrderID>558741</OrderID>
            <ReferenceDate>2011-09-20</ReferenceDate>
            <Description>Per Fax empfangen.</Description>
      </OrderReference>
      <Address>
```

```xml
            <AddressIdentifier
                  n1:AddressIdentifierType="ProprietaryAddressID">
                  OI393K3
            </AddressIdentifier>
            <Name>Der Dritte Mann GmbH</Name>
            <Street>Lassallestraße 7</Street>
            <POBox>Wien</POBox>
            <Town>Wien</Town>
            <ZIP>1020</ZIP>
            <Country n1:CountryCode="AT">Österreich</Country>
      </Address>
      <ext:OrderingPartyExtension>
        <sv:OrderingPartyExtension>
          <sv:SV_Domain_Specific_OrderingPartyExtensionElement>Ein von
            ebInterface standardisiertes Erweiterungselement
          </sv:SV_Domain_Specific_OrderingPartyExtensionElement>
        </sv:OrderingPartyExtension>
        <ext:Custom>
          <n2:auto-generated_for_wildcard>Irgendein beliebiges
            Erweiterungselement aus einem anderen Namespace
          </n2:auto-generated_for_wildcard>
        </ext:Custom>
      </ext:OrderingPartyExtension>
</OrderingParty>
…
```
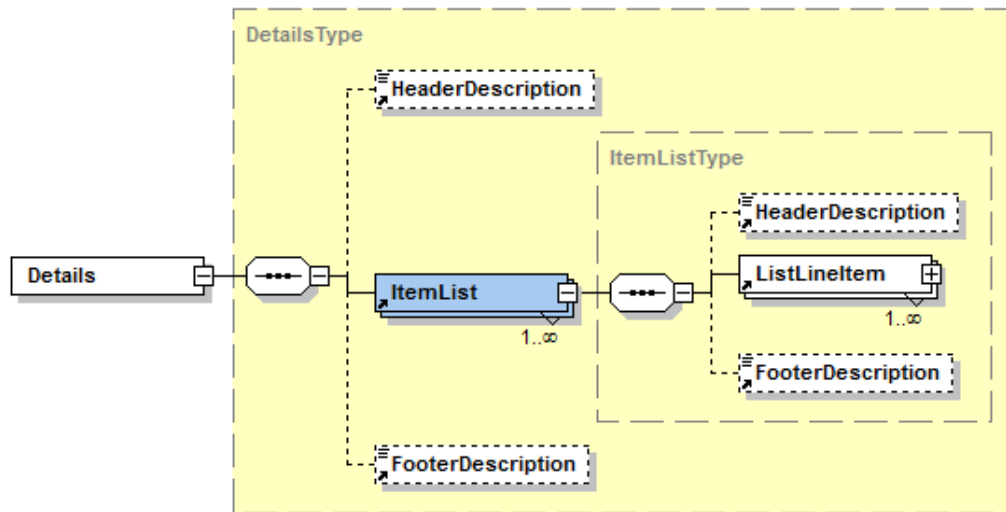
3.7 Details

The *Details* element is MANDATORY and consists of all details of invoiced items or services.

Name	Meaning	Type	Card.	Format
Header Description	Header of billing details in free text	Element	0..1	xs:string
ItemList	The invoiced positions can be classified in several sections. Each ItemList element contains a section.	Element	1..*	XML composite
ItemList/Header Description	Header of particular section in free text	Element	0..1	xs:string
ItemList/ListLine Item	This element complies with a position line.	Element	1..*	XML composite
ItemList/Footer Description	Footer of particular section in free text	Element	0..1	xs:string
Footer Description	Footer of billing details in free text	Element	0..1	xs:string

Example:

```
…
<Details>
  <HeaderDescription>Wir stellen Ihnen folgende Leistungen in
      Rechnung.
  </HeaderDescription>
  <ItemList>
    <HeaderDescription>Aus unserer Schrauben-Abteilung:</HeaderDescription>
      <ListLineItem>
        <PositionNumber>1</PositionNumber>
        <Description>Schraubenzieher</Description>
        <ArticleNumber
            n1:ArticleNumberType="BillersArticleNumber">I3939
        </ArticleNumber>
        <ArticleNumber
            n1:ArticleNumberType="InvoiceRecipientsArticleNumber">E3949
        </ArticleNumber>
        <ArticleNumber
            n1:ArticleNumberType="GTIN">00012345678905
        </ArticleNumber>
        <Quantity n1:Unit="Units">100.00</Quantity>
        <UnitPrice>10.20</UnitPrice>
        <TaxRate n1:TaxCode="AT022">20.00</TaxRate>
        <AdditionalInformation>
          <SerialNumber>124302393</SerialNumber>
          <ChargeNumber>CN393</ChargeNumber>
          <Weight n1:Unit="kilogram">5</Weight>
          <Boxes>2</Boxes>
        </AdditionalInformation>
        <LineItemAmount>1020.00</LineItemAmount>
        <ext:ListLineItemExtension>
          <sv:ListLineItemExtension>
            <sv:SV_Domain_Specific_ListLineItemExtensionElement>Ein von
              ebInterface standardisiertes Erweiterungselement
            </sv:SV_Domain_Specific_ListLineItemExtensionElement>
          </sv:ListLineItemExtension>
          <ext:Custom>
            <n2:auto-generated_for_wildcard>Irgendein beliebiges
              Erweiterungselement aus einem anderen Namespace
            </n2:auto-generated_for_wildcard>
          </ext:Custom>
        </ext:ListLineItemExtension>
      </ListLineItem>
  </ItemList>
  <ItemList>
    <HeaderDescription>Aus unserer Buch-Abteilung:</HeaderDescription>
    <ListLineItem>
      <PositionNumber>1</PositionNumber>
      <Description>Handbuch zur Schraube</Description>
      <ArticleNumber
          n1:ArticleNumberType="BillersArticleNumber">K34838
      </ArticleNumber>
      <ArticleNumber
          n1:ArticleNumberType="InvoiceRecipientsArticleNumber">E4938
      </ArticleNumber>
      <ArticleNumber
          n1:ArticleNumberType="GTIN">00012345678897
      </ArticleNumber>
      <Quantity n1:Unit="Units">1.00</Quantity>
      <UnitPrice>5.00</UnitPrice>
      <TaxRate n1:TaxCode="AT022">10.00</TaxRate>
      <LineItemAmount>5.00</LineItemAmount>
```

```xml
        <ext:ListLineItemExtension>
          <sv:ListLineItemExtension>
            <sv:SV_Domain_Specific_ListLineItemExtensionElement>Ein von
              ebInterface standardisiertes Erweiterungselement
            </sv:SV_Domain_Specific_ListLineItemExtensionElement>
          </sv:ListLineItemExtension>
          <ext:Custom>
            <n2:auto-generated_for_wildcard>Irgendein beliebiges
              Erweiterungselement aus einem anderen Namespace
            </n2:auto-generated_for_wildcard>
          </ext:Custom>
        </ext:ListLineItemExtension>
      </ListLineItem>
    </ItemList>
  <FooterDescription>Wir danken für Ihren Auftrag</FooterDescription>
</Details>
…
```
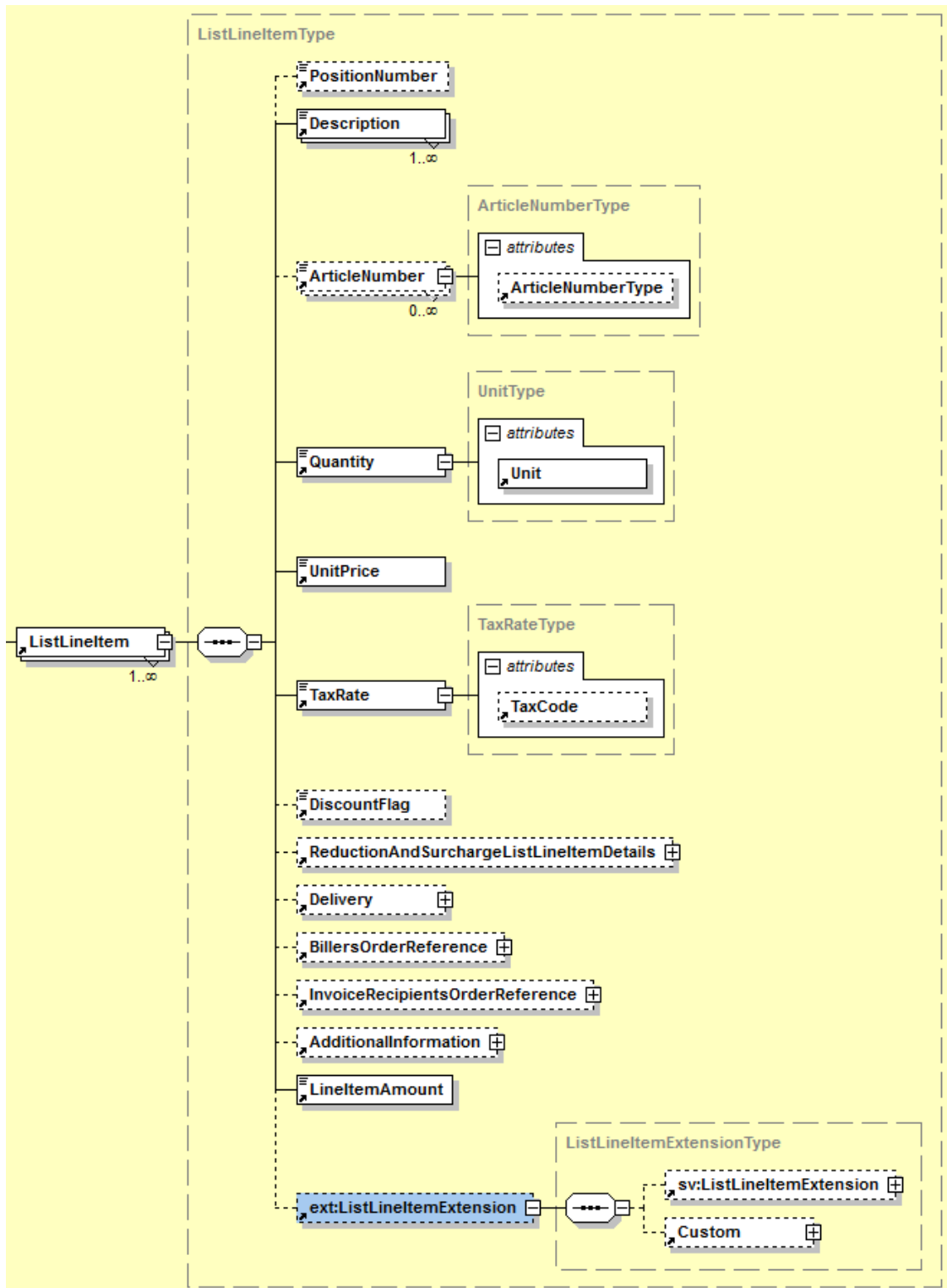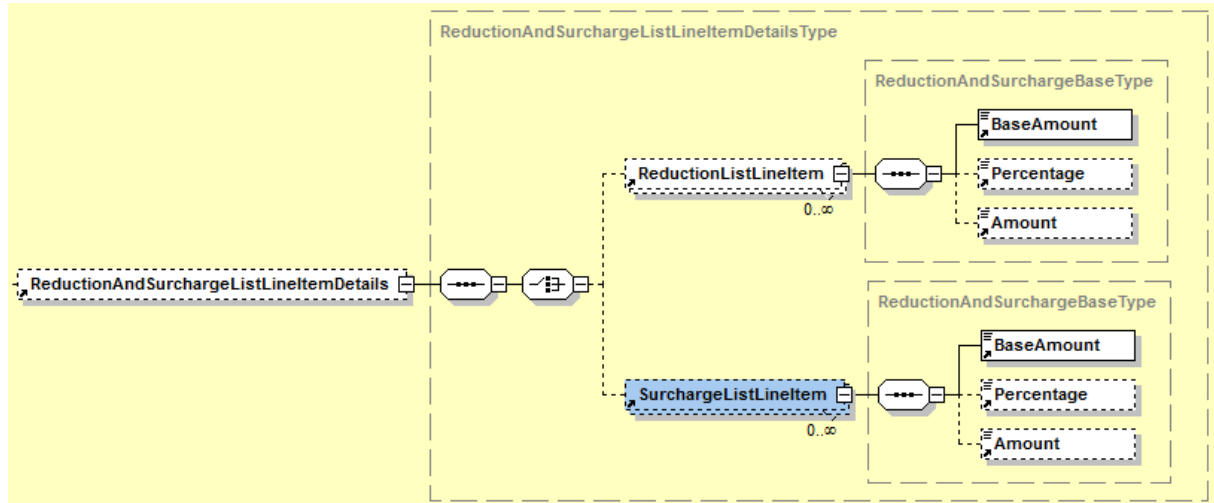
3.7.1 ListLineItem

The ListLineItem is used to report details within a position line.

Name	Meaning	Type	Card.	Format
PositionNumber	Consecutive position number	Element	0..1	xs:positiveInteger
Description	Commercial description of item or service	Element	1..*	xs:string
ArticleNumber	Article number	Element	0..*	xs:string

ArticleNumber/ @ArticleNumberType	Defines the type of article number	Attribute	0..1	ArticleNumberType
Quantity	Invoiced quantity. In case of reporting further quantity, this should be entered in the element AdditionalInformation/ AlternativeQuantity.	Element	1..1	Decimal4Type
Quantity/@Unit	Quantity unit in free text	Attribute	1..1	xs:string
UnitPrice	Unit price (net)	Element	1..1	Decimal4Type
TaxRate	Value added tax rate	Element	1..1	PercentageType
TaxRate/@TaxCode	„AT"+UVACode. ATXXX is equivalent to not taxable. The particular UVA Codes should be taken from the U30 form of the Federal Ministry of Finance [BMF11]. The reporting of TaxCodes is only of informative character. The reporting of the tax rate in the field „Tax Rate"is normative.	Attribute	0..1	TaxCodeType
DiscountFlag	Defines whether or not the invoice line item is qualified for discount.	Element	0..1	xs:boolean
ReductionAndSurcharg eListLineItemDetails	This field is used to report reductions or surcharges to the invoice line item.	Element	0..1	XML composite
Delivery	Reporting of delivery details of this invoice line item. (*Note*: the structure of the element *Delivery* is equivalent to chapter 3.3)	Element	0..1	XML composite
BillersOrderReference	Reference of underlying order or order item assigned by invoicing party. (*Note*: In case this element is used, it takes precedence over a potential entry in *Invoice/Biller/Order-Reference*).	Element	0..1	XML composite
BillersOrderReference/ OrderID	Purchase order number at invoicing party.	Element	1..1	AlphaNumIDType max. 35 digits
BillersOrderReference/ OrderPositionNumber	Order position number of order at invoicing party	Element	0..1	AlphaNumType
InvoiceRecipientsOrder Reference	Reference of underlying order or order item assigned by invoice recipient (or ordering party eventually). (*Note*: In case this element is used, it takes precedence over a potential reporting in *Invoice/InvoiceRecipient/ OrderReference* or *Invoice/Ordering-Party/OrderReference*).	Element	0..1	XML composite
InvoiceRecipientsOrder Reference/Order ReferenceOrderID	Purchase number at invoice recipient	Element	1..1	AlphaNumType max. 35 digits
InvoiceRecipientsOrder Reference/Order PositionNumber	Order position number of order at invoice recipient	Element	0..1	AlphaNumType
AdditionalInformation	Additional information about invoiced item or service	Element	0..1	XML composite
LineItemAmount	Invoice line item amount (net)	Element	1..1	Decimal2Type
ListLineItemExtension	Element for integration of elements referenced in the ListLineItemExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExtension.xsd)

## 3.7.1.1 ReductionAndSurchargeListLineItemDetails

The element ReductionAndSurchargeListLineItemDetails is OPTIONAL. It is used to report one or several reductions or to report one or several surcharges, respectively. The entered reductions or surcharges only refer to the particular invoice line (ListLineItem).

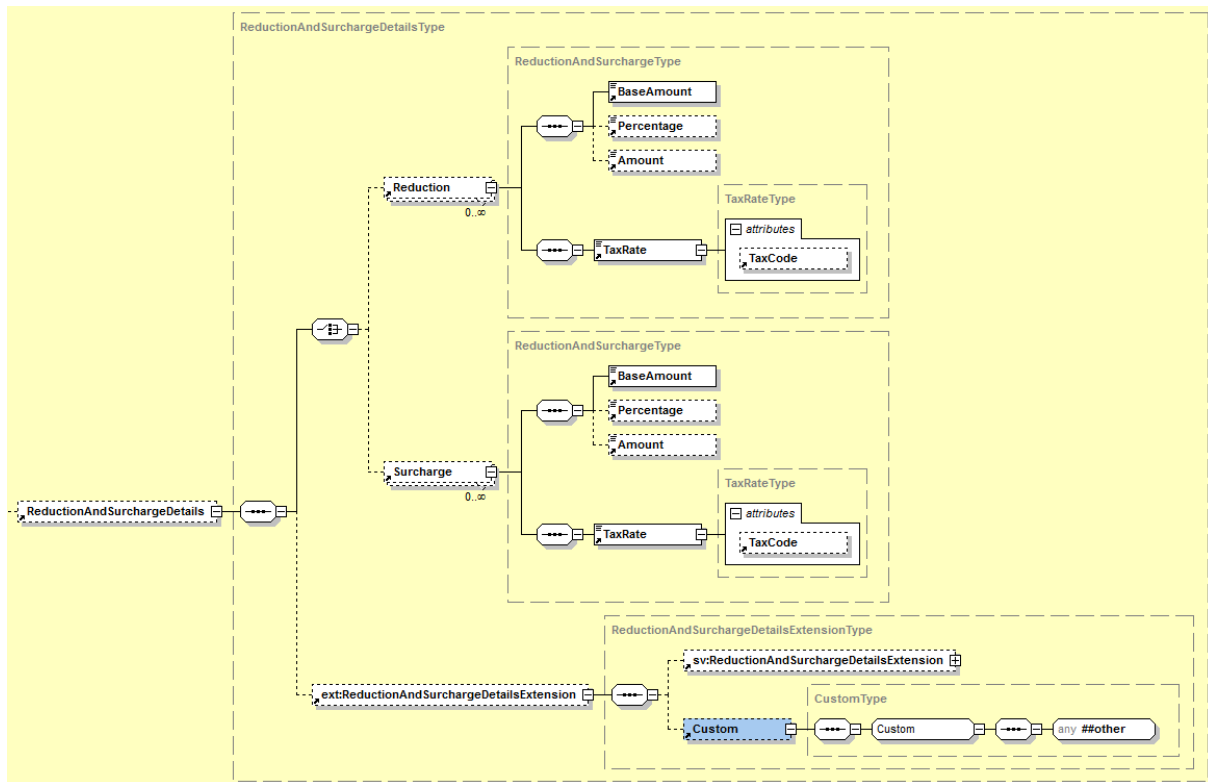| Name	Meaning	Type	Card.	Format
ReductionListLineItem	Details of reduction	Element	0..*	XML composite
ReductionListLineItem /BaseAmount	Defines the base amount, to which the reduction refers	Element	1..1	Decimal2Type
ReductionListLineItem /Percentage	Percentage of granted reduction	Element	0..1	PercentageType
ReductionListLineItem /Amount	Amount of granted reduction. Usually defines itself by BaseAmount × Percentage. In case an amount is entered, there is no need entering a percentage (but can be entered). In case both are entered, Amount is prior-ranked.	Element	0..1	Decimal2Type
SurchargeListLineItem	Details of surcharge	Element	0..*	XML composite
SurchargeListLineItem/BaseAmount	Defines the base amount, to which the surcharge refers	Element	1..1	Decimal2Type
SurchargeListLineItem/Percentage	Percentage of surcharge	Element	0..1	PercentageType
SurchargeListLineItem/ Amount	Amount of surcharge. Usually defines itself by BaseAmount × Percentage. In case an amount is entered, there is no need entering a percentage (but can be entered). In case both are entered, Amount is prior-ranked.	Element	0..1	Decimal2Type

3.7.1.2 AdditionalInformation

The element AdditionalInformation is OPTIONAL and consists of further details of the particular position line in the invoice.
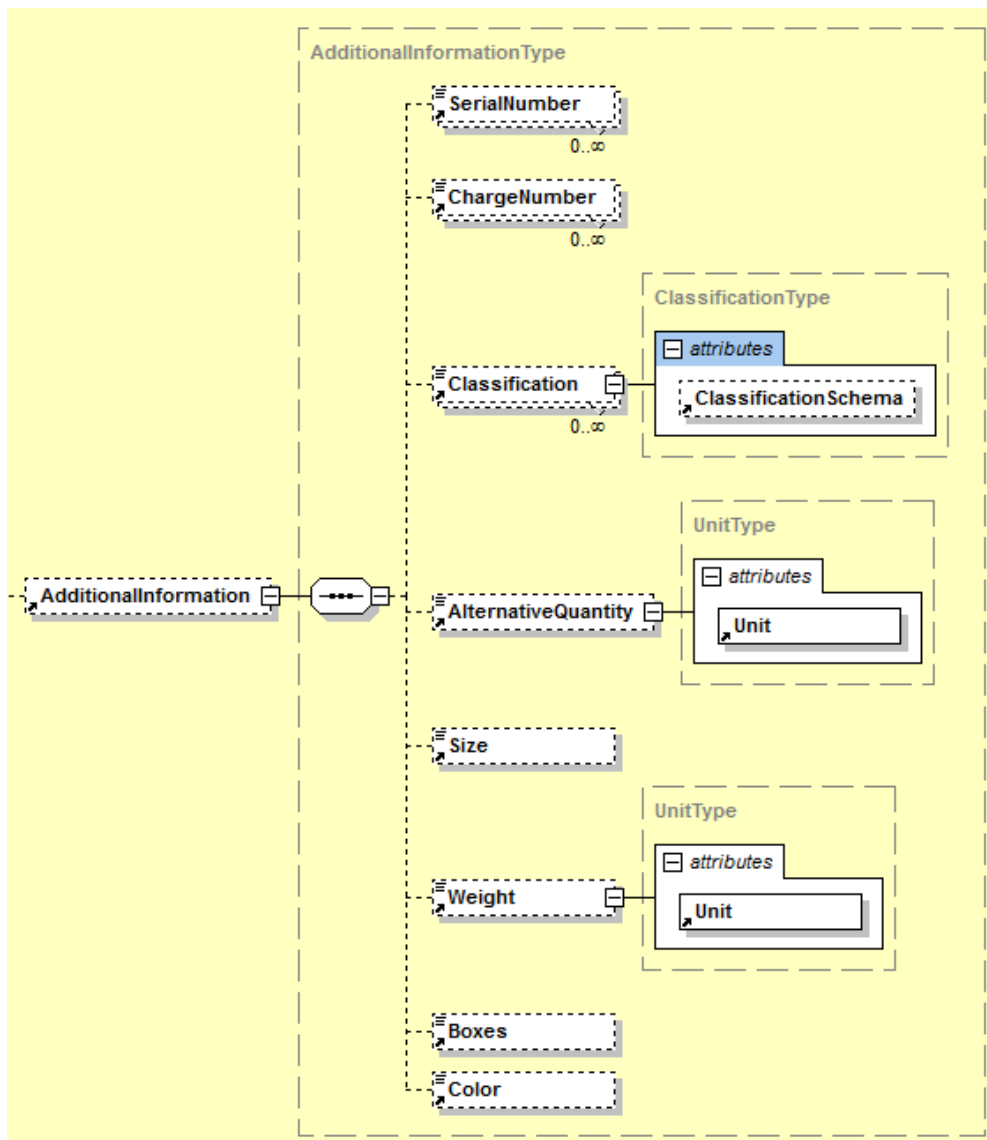
Name	Meaning	Type	Card.	Format
SerialNumber	Serial number	Element	0..*	AlphaNumType
ChargeNumber	Charge number	Element	0..*	AlphaNumType
Classification	Code of delivered item or service in accordance with a classification scheme	Element	0..*	xs:string
Classification/ @ClassificationSchema	Classification scheme in free text	Attribute	0..1	xs:string
AlternativeQuantity	An alternative quantity reporting, additionally to ListLineItem/Quantity	Element	0..1	Decimal4Type
AlternativeQuantity/ @Unit	Quantity unit	Attribute	0..1	xs:string
Size	Size	Element	0..1	AlphaNumType
Weight	Weight	Element	0..1	Decimal4Type
Weight/@Unit	Weight unit	Attribute	1..1	xs:string
Boxes	Amount of boxes or containers	Element	0..1	xs:positiveInteger
Color	Color	Element	0..1	xs:string

3.8 ReductionAndSurchargeDetails

The element ReductionAndSurchargeDetails is OPTIONAL. It is used to report one or several reductions or to report one or several surcharges, respectively.

Name	Meaning	Type	Card.	Format
Reduction	Details of reduction	Element	0..*	XML composite
Reduction/BaseAmount	Defines the base amount, to which the reduction refers.	Element	1..1	Decimal2Type
Reduction/Percentage	Percentage of granted reduction	Element	0..1	PercentageType
Reduction/Amount	Amount of granted reduction. Usually defines itself by BaseAmount × Percentage. In case an amount is entered, there is no need entering a percentage (but can be entered). In case both are entered, Amount is prior-ranked.	Element	0..1	Decimal2Type
Reduction/TaxRate	Value added tax rate of underlying articles or services.	Element	1..1	PercentageType
Reduction/TaxRate/ @TaxCode	„AT"+UVACode. ATXXX is equivalent to not taxable. The particular UVA Codes should be taken from the U30 form of the Federal Ministry of Finance [BMF11]. The reporting of TaxCodes is only of informative character. The reporting of the tax rate in the field „Tax Rate"is normative.	Attribute	0..1	TaxCodeType
Surcharge	Details on surcharge	Element	0..*	XML composite
Surcharge/BaseAmount	Defines the base amount, to which the surcharge refers.	Element	1..1	Decimal2Type
Surcharge/Percentage	Percentage of surcharge	Element	0..1	PercentageType
Surcharge/Amount	Amount of granted reduction. Usually defines itself by BaseAmount ×	Element	0..1	Decimal2Type

	Percentage. In case an amount is entered, there is no need entering a percentage (but can be entered). In case both are entered, Amount is prior-ranked.			
Surcharge/TaxRate	Value added tax rate of underlying articles or services.	Element	1..1	PercentageType
Surcharge/TaxRate/ @TaxCode	„AT"+UVACode. ATXXX is equivalent to not taxable. The particular UVA Codes should be taken from the U30 form of the Federal Ministry of Finance [BMF11]. The reporting of TaxCodes is only of informative character. The reporting of the tax rate in the field „Tax Rate" is normative.	Attribute	0..1	TaxCodeType
ReductionAndSurcharge DetailsExtension	Element for integration of elements that are referenced in the ReductionAndSurchargeDetailsExtensi on element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExten sion.xsd)

Example:

```
…
<ReductionAndSurchargeDetails>
      <Reduction>
        <BaseAmount>1020.00</BaseAmount>
        <Percentage>1.00</Percentage>
        <Amount>10.20</Amount>
        <TaxRate n1:TaxCode="AT022">20.00</TaxRate>
      </Reduction>
      <Surcharge>
        <BaseAmount>1020.00</BaseAmount>
        <Percentage>0.5</Percentage>
        <Amount>5.10</Amount>
        <TaxRate n1:TaxCode="AT022">20</TaxRate>
      </Surcharge>
      <ext:ReductionAndSurchargeDetailsExtension>
        <sv:ReductionAndSurchargeDetailsExtension>
          <sv:SV_Domain_Specific_ReductionAndSurchargeDExtensionElement>
           Ein von ebInterface standardisiertes Erweiterungselement
          </sv:SV_Domain_Specific_ReductionAndSurchargeDxtensionElement>
        </sv:ReductionAndSurchargeDetailsExtension>
        <ext:Custom>
          <n2:auto-generated_for_wildcard>Irgendein beliebiges
            Erweiterungselement aus einem anderen Namespace
          </n2:auto-generated_for_wildcard>
        </ext:Custom>
      </ext:ReductionAndSurchargeDetailsExtension>
</ReductionAndSurchargeDetails>
…
```
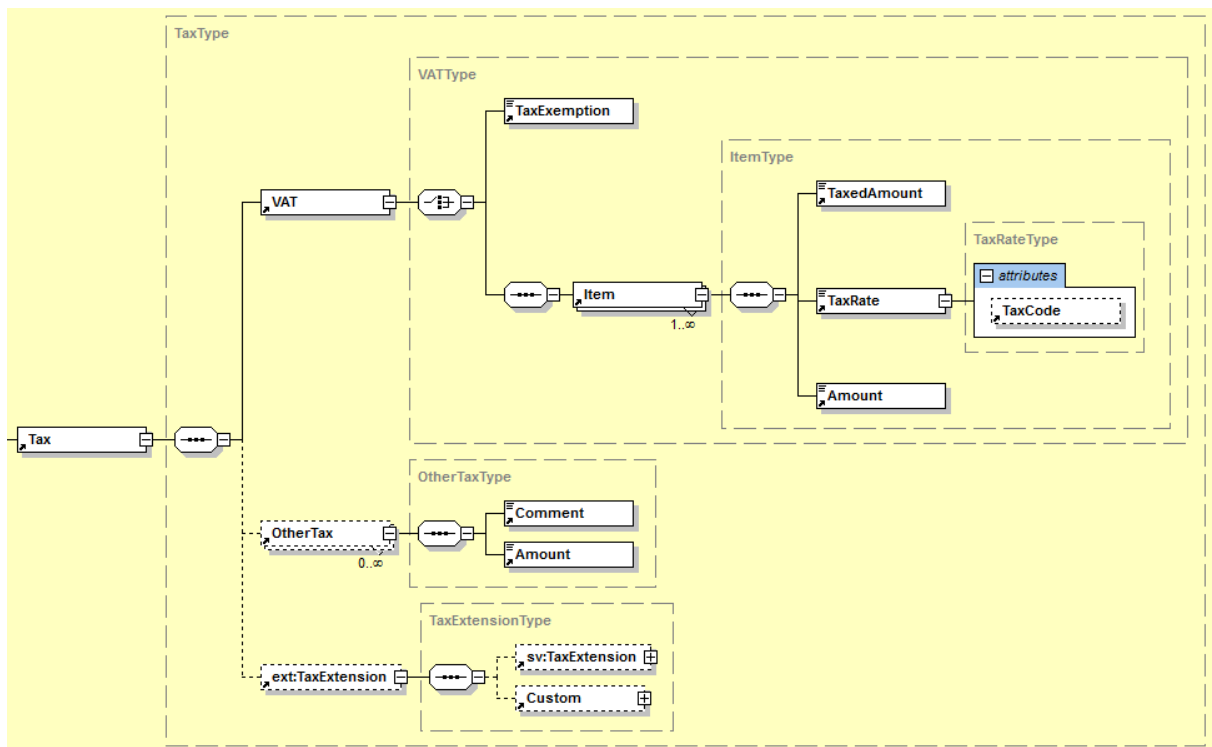
3.9 Tax

The *Tax* element is MANDATORY and is used for description and summary of any taxes (i.e. Value added tax)

Name	Meaning	Type	Card.	Format
VAT	Is used to report the value added tax or for explicit marking of value added tax exemption.	Element	1..1	XML composite
VAT/ TaxExemption	The element TaxExemption is used to signalize a value added tax exemption. The reason for tax exemption is to be entered as value. The element is only used alternatively to the VAT/Item.	Element	1..1	xs:string
VAT/Item	Line of tax summary. Is used to display several, different VAT rates. Is used alternatively to VAT/TaxExemption.	Element	1..*	XML composite
VAT/Item/ TaxedAmount	Base amount, to which the tax refers	Element	1..1	Decimal2Type
VAT/Item/ TaxRate	Tax rate of the respective articles or services	Element	1..1	PercentageType
VAT/Item/TaxRate /@TaxCode	„AT"+UVACode. ATXXX is equivalent to not taxable. The particular UVA Codes should be taken from the U30 form of the Federal Ministry of Finance [BMF11]. The reporting of TaxCodes is only of informative character. The reporting of the tax rate in the field „Tax Rate" is normative.	Attribute	0..1	TaxCodeType
VAT/Item/Amount	Tax amount. Usually defines itself by TaxedAmount × TaxedRate/100.	Element	1..1	Decimal2Type
OtherTax	Element to report other taxes.	Element	0..*	XML composite
OtherTax/ Comment	Reporting kind of other tax in free text	Element	1..1	xs:string
OtherTax/Amount	Amount of other tax	Element	1..1	Decimal2Type

TaxExtension	Element for integration of elements that are referenced in the TaxExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExtension.xsd)

Example:

```
…
<Tax>
      <VAT>
        <Item>
          <TaxedAmount>1130.00</TaxedAmount>
          <TaxRate n1:TaxCode="AT022">20.00</TaxRate>
          <Amount>226.00</Amount>
         </Item>
        <Item>
          <TaxedAmount>5.00</TaxedAmount>
          <TaxRate n1:TaxCode="AT022">10.00</TaxRate>
          <Amount>0.50</Amount>
        </Item>
      </VAT>
      <OtherTax>
         <Comment>Eine andere Steuer</Comment>
         <Amount>10.00</Amount>
      </OtherTax>
      <ext:TaxExtension>
        <sv:TaxExtension>
          <sv:SV_Domain_Specific_TextExtensionElement>Ein von
            ebInterface standardisiertes Erweiterungselement
          </sv:SV_Domain_Specific_TextExtensionElement>
          </sv:TaxExtension>
          <ext:Custom>
            <n2:auto-generated_for_wildcard>Irgendein beliebiges
               Erweiterungselement aus einem anderen Namespace
            </n2:auto-generated_for_wildcard>
          </ext:Custom>
      </ext:TaxExtension>
</Tax>
…
```
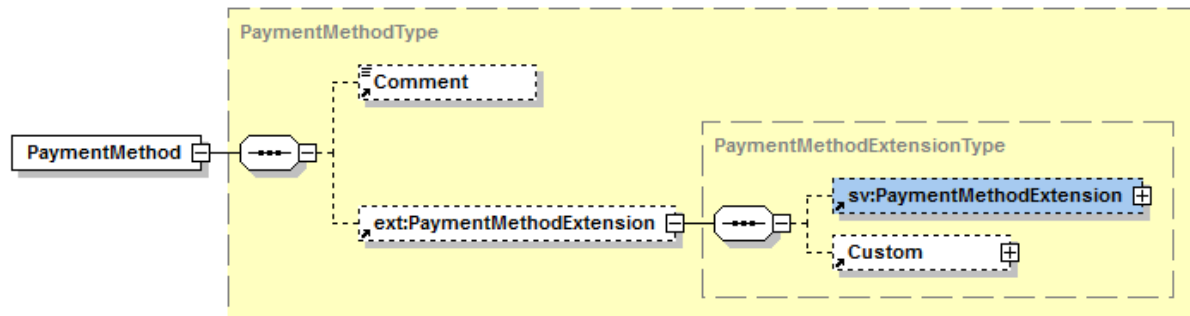
3.10 PaymentMethod

The *PaymentMethod* element is OPTIONAL and shows how the invoice should be settled. The following payment options are available at the moment:

UniversalBankTransaction: payment by bank transfer or using a consolidator platform
DirectDebit: payment using direct debiting
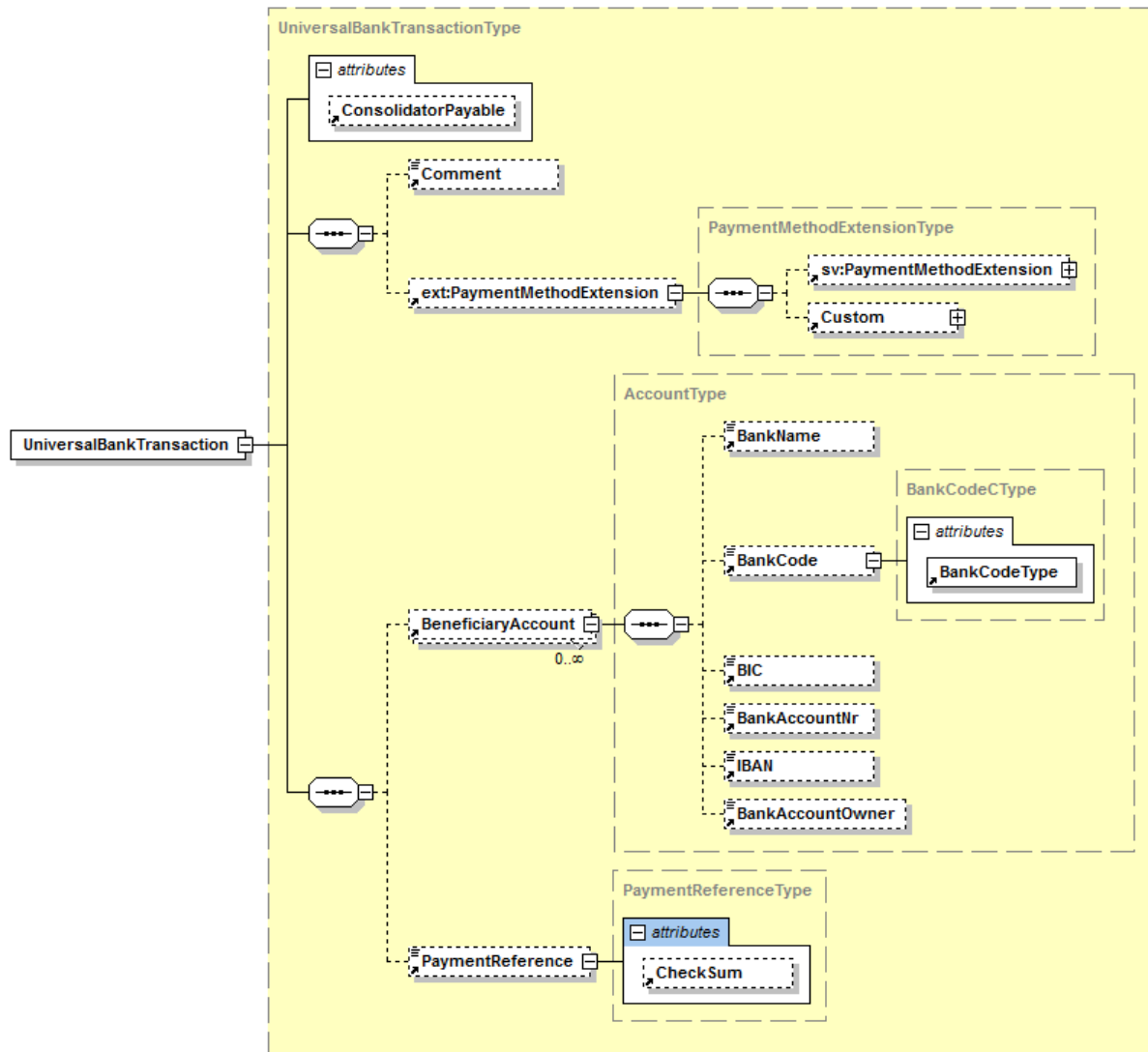*NoPayment*   no payment

All three payment options inherit from the element PaymentMethod.

Name	Meaning	Type	Card.	Format
Comment	Comment to payment option	Element	0..1	xs:string
PaymentMethodEx tension	Element for integration of elements referenced in the PaymentMethodExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExten sion.xsd)

3.10.1 UniversalBankTransaction

The usage of UniversalBankTransaction provides details about payment by bank transfer or by using a payment consolidator platform.

Name	Meaning	Type	Card.	Format
@Consolidator-Payable	This attribute is used to operate a payment on a consolidator platform. In case the attribute is set on "true", the payment of an invoice on a consolidator platform is possible. The default value is "false".	Attribute	0..1	xs:boolean
Comment	Comment to payment option	Element	0..1	xs:string
PaymentMethodExtension	Element for integration of elements that are referenced in the PaymentMethodExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExtension.xsd)
Beneficiary Account	Account of beneficiary	Element	0..*	XML composite
Beneficiary Account/ BankName	Bank name	Element	0..1	xs:string max. 255 digits
Beneficiary Account/ BankCode	Bank code	Element	0..1	xs:integer
Beneficiary Account/	Defines the type of bank code by additionally stating the country of bank code comes from.	Attribute	1..1	CountryCode Type

BankCode/ @BankCodeType				
Beneficiary Account/BIC	Bank Identification Code (BIC)	Element	0..1	BICType
Beneficiary Account/ BankAccountNr	Account number	Element	0..1	xs:string
Beneficiary Account/IBAN	International Bank Account Number (IBAN)	Element	0..1	IBANType
Beneficiary Account/ BankAccount Owner	Name of account owner	Element	0..1	xs:string max. 70 digits
PaymentReference	Payment reference (customer data), which is used for automated booking of payment entry. The respective obligations of Stuzza[1] are to be considered.	Element	0..1	Digit12Type, maximum numeric digits
PaymentReference/ @CheckSum	Check sum for payment reference	Attribute	0..1	CheckSumType One-digit string with allowed values 0-9 and X

Example:

```
…
<PaymentMethod xsi:type="UniversalBankTransactionType">
  <Comment>String</Comment>
  <ext:PaymentMethodExtension>
    <sv:PaymentMethodExtension>
      <sv:SV_Domain_Specific_PaymentMethodExtensionElement>Ein von
            ebInterface standardisiertes Erweiterungselement
      </sv:SV_Domain_Specific_PaymentMethodExtensionElement>
    </sv:PaymentMethodExtension>
    <ext:Custom>
      <n2:auto-generated_for_wildcard>Irgendein beliebiges
            Erweiterungselement aus einem anderen Namespace
      </n2:auto-generated_for_wildcard>
    </ext:Custom>
  </ext:PaymentMethodExtension>
  <BeneficiaryAccount>
    <BankName>Bank Austria</BankName>
    <BankCode n1:BankCodeType="AT">12000</BankCode>
    <BIC>BKAUATWW</BIC>
    <BankAccountNr>11111111111</BankAccountNr>
    <IBAN>AT491200011111111111</IBAN>
    <BankAccountOwner>Max Mustermann</BankAccountOwner>
  </BeneficiaryAccount>
  <PaymentReference n1:CheckSum="X">123456789012</PaymentReference>
</PaymentMethod>
…
```
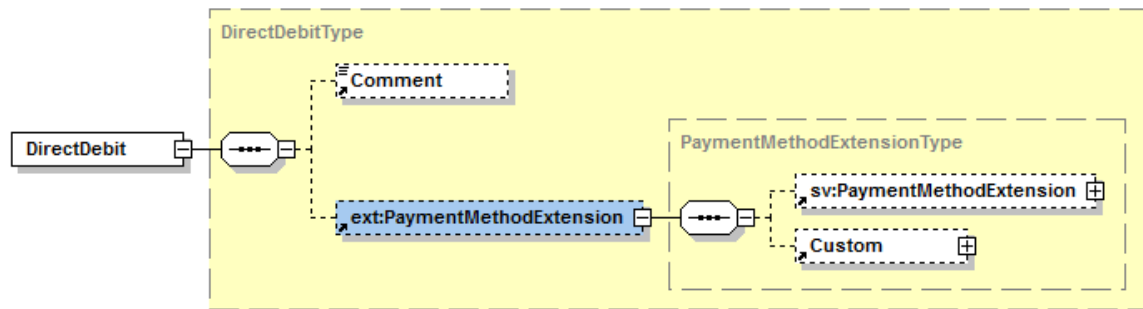
3.10.2   DirectDebit

The declaration of DirectDebit shows that the invoice is settled using direct debiting. The element DirectDebit extends the generic type PaymentMethod, but does not add any new elements or attributes.

---

[1] http://www.stuzza.at/9417_DE.64FE7D4599b8cea548f52f7c39fac26b8205a6f0

Example:

```
…
<PaymentMethod xsi:type="DirectDebitType">
  <Comment>Der Rechnungsbetrag wird per Bankeinzug am 03.10.2011
    belastet
  </Comment>
  <ext:PaymentMethodExtension>
    <sv:PaymentMethodExtension>
      <sv:SV_Domain_Specific_PaymentMethodExtensionElement>Ein von
          ebInterface standardisiertes Erweiterungselement
      </sv:SV_Domain_Specific_PaymentMethodExtensionElement>
    </sv:PaymentMethodExtension>
    <ext:Custom>
      <n2:auto-generated_for_wildcard>Irgendein beliebiges
          Erweiterungselement aus einem anderen Namespace
      </n2:auto-generated_for_wildcard>
    </ext:Custom>
  </ext:PaymentMethodExtension>
</PaymentMethod>
…
```
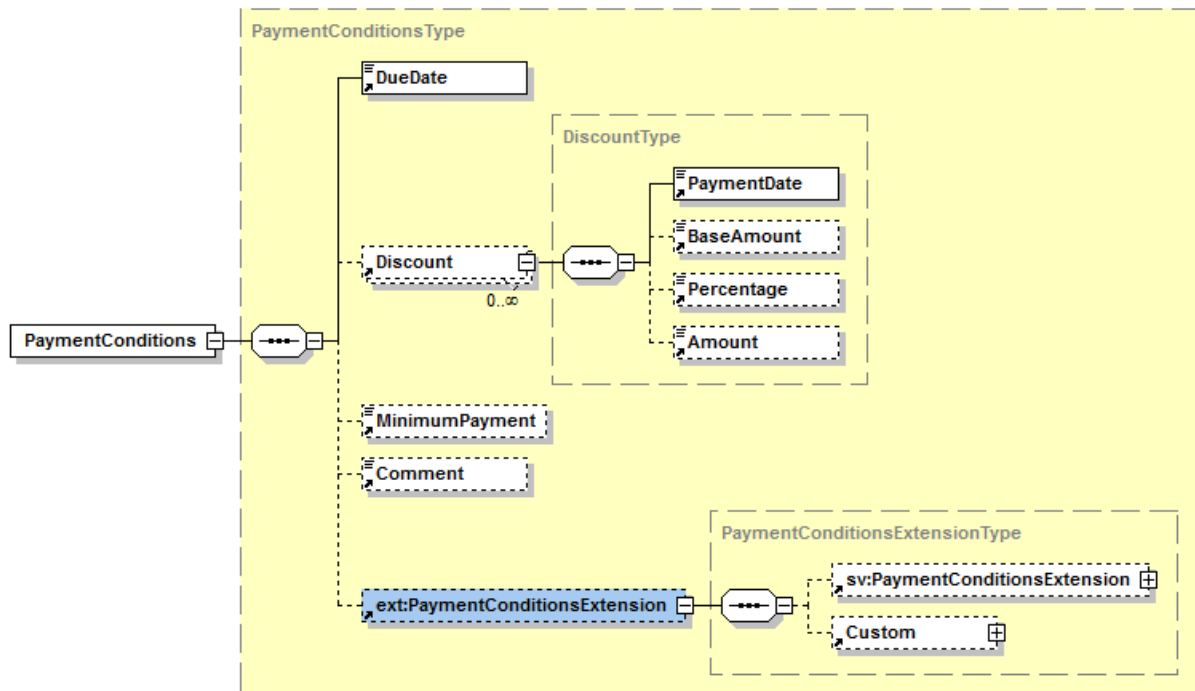
3.10.3 NoPayment

The declaration of NoPayment shows that no payment of the invoice should be effected. The element NoPayment extends the generic type PaymentMethod, but does not add any new elements or attributes.
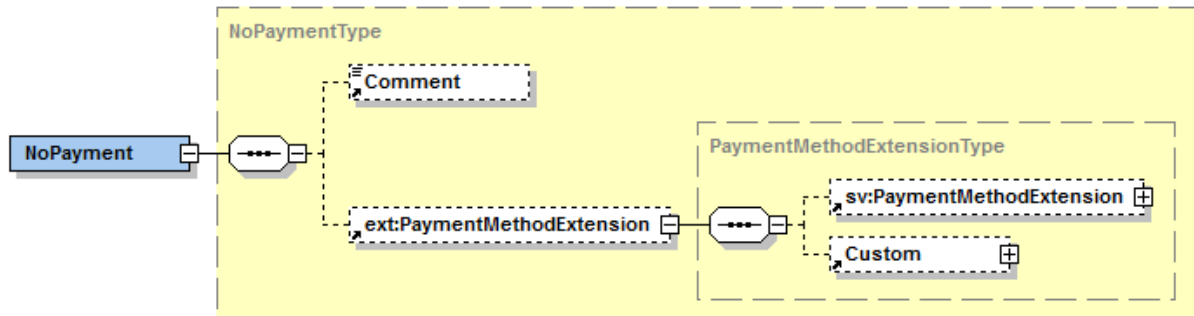
Example:

```
…
<PaymentMethod xsi:type="NoPaymentType">
  <Comment>Bitte nicht einzahlen</Comment>
    <ext:PaymentMethodExtension>
      <sv:PaymentMethodExtension>
        <sv:SV_Domain_Specific_PaymentMethodExtensionElement>Ein von
            ebInterface standardisiertes Erweiterungselement
        </sv:SV_Domain_Specific_PaymentMethodExtensionElement>
      </sv:PaymentMethodExtension>
      <ext:Custom>
        <n2:auto-generated_for_wildcard>Irgendein beliebiges
            Erweiterungselement aus einem anderen Namespace
        </n2:auto-generated_for_wildcard>
      </ext:Custom>
    </ext:PaymentMethodExtension>
</PaymentMethod>
…
```

3.11 PaymentConditions

The element PaymentConditions CAN be used to report details of payment conditions of the invoice.

Name	Meaning	Type	Card.	Format
DueDate	Due date	Element	1..1	xs:date
Discount	Discount	Element	0..*	XML composite
Discount/ PaymentDate	Latest date for use of percentage of discount	Element	1..1	xs:date
Discount/ BaseAmount	In case the discount does not refer to the entire gross amount, the discount-relevant base amount is entered in this element.	Element	0..1	Decimal2Type
Discount/ Percentage	Percentage of discount	Element	0..1	PercentageType
Discount/ Amount	Amount of discount. In case an amount is entered, there is no need entering a percentage (but can be entered). In case both are entered, Amount is prior-ranked.	Element	0..1	Decimal2Type
Minimum-Payment	In case the invoice should not be settled completely on the due date, this element is used to enter a minimum amount, which is to be settled on the due date.	Element	0..1	Decimal2Type
Comment	Comment to the payment conditions in free text	Element	0..1	xs:string
PaymentConditionsExtension	Element for integration of elements that are referenced in the PaymentConditionsExtension element of the ebInterfaceExtension.xsd Schema or originate from another arbitrary namespace.	Element	0..1	XML composite (defined in ebInterfaceExtension.xsd)

Example:

```
…
<PaymentConditions>
  <DueDate>2011-09-30</DueDate>
  <Discount>
    <PaymentDate>2011-09-25</PaymentDate>
    <BaseAmount>1349.26</BaseAmount>
    <Percentage>3.00</Percentage>
    <Amount>40.48</Amount>
  </Discount>
  <MinimumPayment>512.00</MinimumPayment>
  <Comment>Kommentar zu den Zahlungsbedingungen</Comment>
  <ext:PaymentConditionsExtension>
    <sv:PaymentConditionsExtension>
      <sv:SV_Domain_Specific_PaymentConditionsExtensionElement>Ein von
          ebInterface standardisiertes Erweiterungselement
      </sv:SV_Domain_Specific_PaymentConditionsExtensionElement>
    </sv:PaymentConditionsExtension>
    <ext:Custom>
      <n2:auto-generated_for_wildcard>Irgendein beliebiges
          Erweiterungselement aus einem anderen Namespace
      </n2:auto-generated_for_wildcard>
    </ext:Custom>
  </ext:PaymentConditionsExtension>
</PaymentConditions>
…
```
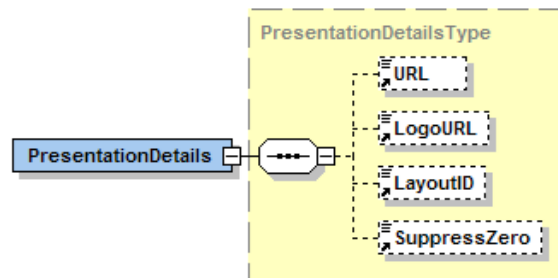
3.12 PresentationDetails

The *PresentationDetails* element CAN be used to process the layout (aka rendering) of printed version of invoice.

Name	Meaning	Type	Card.	Format
URL	Link underlying the logo.	Element	0..1	xs:anyURI
LogoURL	URL of the corporate symbol for heading: The logo may be hosted on the server and, therefore, is available with the billing data at the same time. Optionally, the URL can refer to any picture generally displayable in a browser. .	Element	0..1	xs:anyURI
LayoutID	LayoutID defines which layout is used to display the billing details.	Element	0..1	AlphaNumType max. 35 digits
SuppressZero	Defines whether or not an invoice amount of 0 should be displayed.	Element	0..1	xs:boolean

Example:

```
…
<eb:PresentationDetails>
    <eb:URL>http://www.willi.at</eb:URL>
```

```
    <eb:LogoURL>
            https://b-test.ebpp.at/comres/ebinterface-willi.gif
    </eb:LogoURL>
    <eb:LayoutID>0100</eb:LayoutID>
</eb:PresentationDetails>
…
```

4 The ebInterface 4.0 Extension mechanism

A significant innovation of ebInterface, in comparison to the previous versions, is the possibility to include structural extensions in an ebInterface 4.0 instance. In the previous versions of ebInterface extensions were only possible on the highest (=Invoice) level and on the billing details (=ListLineItem) level.

In ebInterface 4.0 extensions are possible on every different element on root (=Invoice) level, as well as on ListLineItem level. For this purpose, a coupling scheme (ebInterfaceExtension.xsd) is included in the ebInterface 4.0 scheme, in which the allowed extensions are referenced. The following figure demonstrates the concept of the ebInterfaceExtension.xsd coupling scheme.
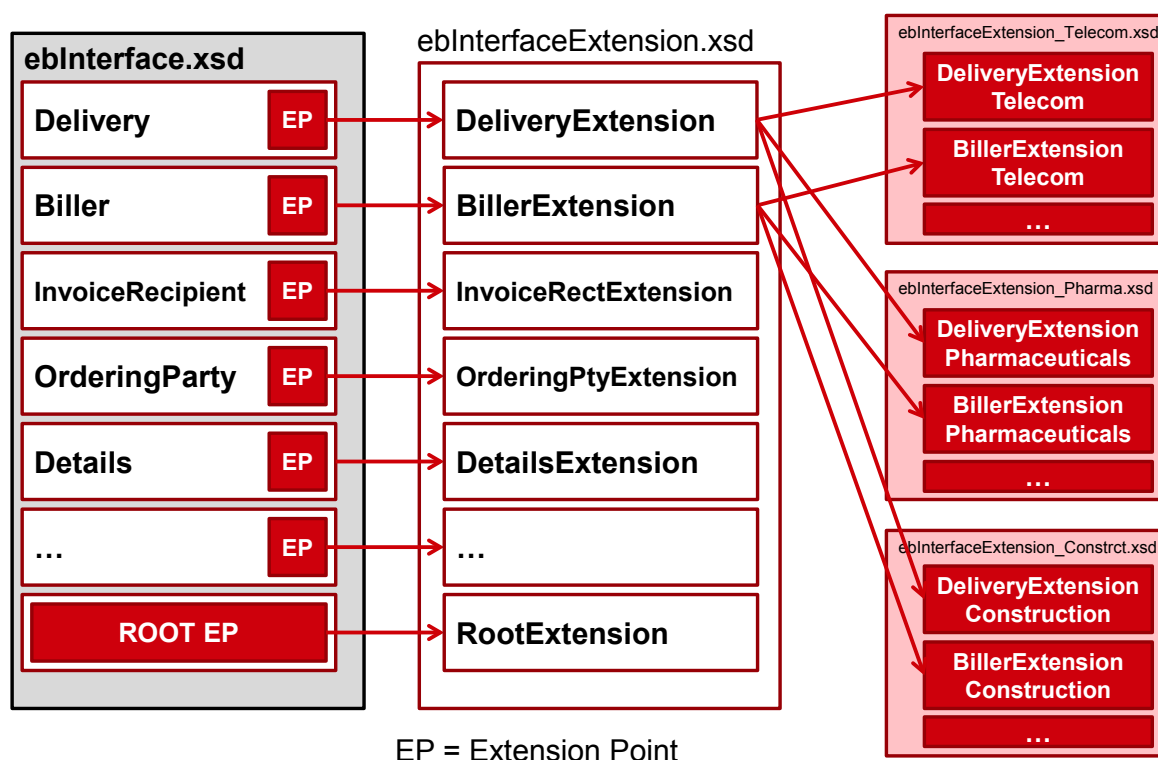
EP = Extension Point

For each element on the root level (i.e., Delivery, Biller, etc.) an extension point is defined. Additionally, there is, as it already existed in the previous versions of ebInterface, a root extension point on the highest level. Each extension point refers to a particular element, which is defined in the coupling scheme ebInterfaceExtension.xsd.

On the one hand, elements of ebInterface-allowed extension schemes are referenced in the different extension elements of the coupling scheme. On the other hand, a custom element is defined in each extension element, according to the previous versions of ebInterface. The following figure exemplarily demonstrates the extension element DeliveryExtension of the ebInterfaceExtension.xsd Schema.
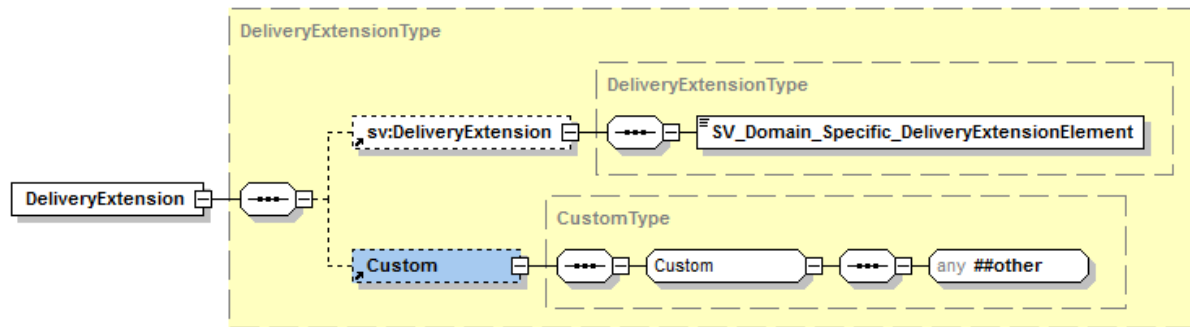
The extension schemes of ebInterface are maintained for each industrial sector (i.e., telecom, pharmaceutical industry, etc.) and represent domain-specific attributes and elements, which are not included in the core scheme of ebInterface. The above figure shows the extension scheme of the Austrian social insurance system (sv:DeliveryExtension) exemplarily.

Additionally, the custom element allows the integration of arbitrary XML elements and attributes in every extension point. Making use of including any kind of XML should only be done in case of specific (i.e. bilateral) requirements. In case arbitrary XML elements are included in the extension points, it should not be assumed that the receiver is able to process with all elements.

If, however, the used elements originate from an ebInterface certified extension scheme, and the receiver supports this extension scheme, it can be assumed that the receiver of the ebInterface instance is able to process with all elements.

4.1 Integration of the coupling scheme in ebInterface

The coupling scheme ebInterfaceExtension.xsd is included by default in the ebInterface scheme, whereby all in the coupling scheme referenced elements are available in every ebInterface instance. The namespace of the ebInterface coupling scheme is `http://www.ebinterface.at/schema/4p0/extensions/ext`
The scheme ebInterfaceExtension.xsd serves as coupling point between the ebInterface core scheme and further ebInterface standardized domain-specific extension schemes.

Scheme extract

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns="http://www.ebinterface.at/schema/4p0/"
xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns:dsig="http://www.w3.org/2000/09/xmldsig#"
xmlns:ext="http://www.ebinterface.at/schema/4p0/extensions/ext"
targetNamespace="http://www.ebinterface.at/schema/4p0/"
elementFormDefault="qualified" attributeFormDefault="unqualified">
 <xs:import namespace="http://www.w3.org/2000/09/xmldsig#"
schemaLocation="http://www.w3.org/TR/2002/REC-xmldsig-core-
20020212/xmldsig-core-schema.xsd"/>
 <xs:import namespace="http://www.ebinterface.at/schema/4p0/extensions/ext"
schemaLocation="ebInterfaceExtension.xsd"/>
  <!-- === Root Element === -->
  <xs:element name="Invoice" type="InvoiceType"/>
…
</xs:schema>
```

4.2 Integration of ebInterface extension schemes in the ebInterfaceExtension coupling scheme

Together with every release of ebInterface, an ebInterfaceExtension coupling scheme is adopted, in which the ebInterface standardized extension schemes are referenced. In the ebInterface coupling scheme it is referred to further coupling schemes allowed by ebInterface, whose elements are integrated in the specific extension elements of the coupling scheme.

The following scheme extract shows the integration of the ebInterface extension scheme of the Austrian social partner system in the ebInterfaceExtension.xsd coupling scheme.

Scheme extract

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
xmlns="http://www.ebinterface.at/schema/4p0/extensions/ext"
xmlns:sv="http://www.ebinterface.at/schema/4p0/extensions/sv"
xmlns:pharmaceuticals="http://www.ebinterface.at/schema/4p0/extensions/phar
maceuticals"
targetNamespace="http://www.ebinterface.at/schema/4p0/extensions/ext"
elementFormDefault="qualified" attributeFormDefault="unqualified">
 <!-- Import the industry specific namespaces -->
 <xs:import namespace="http://www.ebinterface.at/schema/4p0/extensions/sv"
        schemaLocation="ext/ebInterfaceExtension_SV.xsd"/>
  <!-- === Element declarations === -->
  <xs:element name="DeliveryExtension" type="DeliveryExtensionType"/>
…
      <xs:complexType name="DeliveryExtensionType">
          <xs:sequence>
              <xs:element ref="sv:DeliveryExtension" minOccurs="0"/>
              <xs:element ref="Custom" minOccurs="0"/>
          </xs:sequence>
      </xs:complexType>
…
</xs:schema>
```

As it can be seen in the extract the same extension elements (i.e. sv:DeliveryExtension) are defined in the extension scheme of the Austrian social partner system, which are included in the extension elements (i.e. DeliveryExtensionType) of the coupling schemes.

The namespace of the ebInterface extension scheme of the Austrian social partner system is http://www.ebinterface.at/schema/4p0/extensions/sv, whereas the last part of the namespace particularly stands for the valid scheme of the specific industry (i.e. http://www.ebinterface.at/schema/4p0/extensions/pharmaceuticals for the pharmaceutical industry).

5 References

[BMF11]   Advance VAT return from 1st of July 2010, Federal Ministry of Finance,
             http://formulare.bmf.gv.at/service/formulare/inter-Steuern/pdfs/2010/U30.pdf
[DUNS11]   DUNS (Data Universal Numbering System).
             http://www.dnb.ch/htm/690/de/Eindeutige-Identifikation.htm (last visited:
             20.09.2011)
[GLN11]   GLN (Global Location Number).
             http://www.gs1austria.at/index.php?option=com_content&view=article&id=8
             3&Itemid=156 (last visited: 20.09.2011)
[GTIN11]   GTIN (Global Trade Item Number).
             http://gs1.at/index.php?option=com_content&view=article&id=85&Itemid=1
             58 (last visited: 20.09.2011)
[ISO3166-1] ISO 3166-1, Version VI-10, International Organization for Standardization,
             http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm,
[ISO4217]   ISO 4217, International Organization for Standardization,
             http://www.currency-iso.org/iso_index/iso_tables/iso_tables_a1.htm
[PZN11]   PZN (Pharmazentralnummer).
             http://www.ifaffm.de/download/Technische%20Hinweise%20PZN-
             Codierung.pdf (last visited: 20.09.2011)
[RFC2119]   RFC 2119: Keywords for use in RFCs to Indicate Requirement Levels. March
             1997. http://www.rfc-archive.org/getrfc.php?rfc=2119 (last visited:
             20.09.2011)
[RFC3986]   RFC 3986: Uniform Resource Identifier (URI): Generic Syntax.
             http://tools.ietf.org/html/rfc3986 (last visited: 20.09.2011).
[W3C01]   XML Schema. W3C Recommendation. http://www.w3.org/XML/Schema
             (last visited: 20.09.2011)
[W3C02]   XML-Signature Syntax and Processing (XMLDSig). W3C Recommendation.
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