

BUSINESS REQUIREMENTS SPECIFICATION (BRS)

Business Domain: Cross Industry – Supply Chain

Business Process: Invoice Process

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			proposed by UK
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15.07.2005	0.3	5.6	Accounting
			information added to
			the header and line.
			Attribute names
			aligned with TBG CC
			Library
30.11.2005	0.4	5.6	Changes based on the
	Official version		review of the
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20.02.2006	Approved by TBG SC	1	EAN replaced by GS1
		5.6	Accounting Line
			Account aligned with
			TBG12 naming
		5.8.1	Party definitions
			aligned with agreed
			TBg1 definitions

Business Requirements Specification Table of Contents

1.	Pre	amble	3
2.	Ref	erences	4
3.	Obj	ective	4
4.	Sco	pe	5
5.	Bus	iness requirements	6
	5.1.	Business requirements views	6
	5.2.	Business process elaboration - Traditional or suppliers' initiated invoice	7
	5.2.	1. Use case: Traditional or suppliers' initiated invoice process	8
	5.2.	2. Use case: Traditional invoice	9
	5.2.	3. Use case: Incorrect invoice	11
	5.3.	Business process elaboration – Self-billing invoice	13
	5.3.		
	5.3.	2. Use case: Self-billing invoice	15
	5.3.		
	5.3.	4. Use case: List of open items	19
	5.4.	Information flow definition - Traditional or suppliers' initiated invoice	21
	5.4.	1. Activity diagram: Traditional invoice	21
	5.4.	2. Activity diagram: Incorrect invoice	23
	5.4.	3. Business collaboration diagram: Traditional invoice	25
	5.4.	3. Business collaboration diagram: Incorrect invoice	
	5.5.	Information flow definition – Self-billing invoice	29
	5.5.	1. Activity diagram: Self-billing invoice	
	5.5.	2. Activity diagram: Incorrect self-billing invoice	
	5.5.	3. Activity diagram: List of open items	
	5.5.	4. Business collaboration diagram: Self-billing invoice	
	5.5.	5. Business collaboration diagram: Incorrect self-billing invoice	
	5.5.	6. Business collaboration diagram: List of open items	
	5.6.	Information model definition – Invoice (Class diagram)	40
	5.7.	Business rules	60
	5.8.	Definition of terms	
	5.8.		

1. Preamble

The current practice of the exchange of business documents by means of telecommunications – usually defined as e-Business presents a major opportunity to improve the competitiveness of companies, especially for Small and Medium Enterprises (SME).

The commercial invoice is an important document exchanged between trading partners. In addition to its prime function as a request for payment, from the customer to the supplier, the invoice is an important accounting document and, also has potential legal implications for both trading partners, In the Member States of the European Union, the invoice is the key document for VAT declaration and reclamation, for statistics declaration in respect of intra community trade, and to support export and import declaration in respect of trade with countries outside the European community.

Started as an initiative by CEN/ISSS Work shop eBES, the European Expert Group 1 (EEG1) – Supply Chain & e-Procurement developed the Cross Industry Invoice in 2004. The Cross Industry Invoice has been compiled using the EUROFER ESIDEL version 1.0 as the base, with contributions and submissions from: EUROFER, GS1, CIDX, EDIFICE, AIAG/ODETTE/JAMA, GHX, UK e-Government, UK HM Customs & Excise, and EDS. The first draft of the Business Requirements Specification (BRS) was presented at the September 2004 UN/CEFACT Forum to the TBG1 members for review and comments from the other regions. Based on comments received TBG1 has drafted the final version of the BRS for further processing through the UN/CEFACT Forum process with the goal of developing a UN/CEFACT ebXML standard message.

The purpose of this document is to define globally consistent invoicing processes for the worldwide supply chains, using the UN/CEFACT Modelling Methodology (UMM) approach and Unified Modelling Language to describe and detail the business processes and transactions involved.

The structure of this document is based on the structure of the UN/CEFACT Business Requirements Specification (BRS) document reference CEFACT/ICG/005.

2. References

- UN/CEFACT Modelling Methodology (CEFACT/TMG/N090R10, November 2001
- UN/CEFACT -ebXML Core Components Technical Specifications version 2.01 ISO 1500-5
- UN/CEFACT Business Requirements Specification version 1.5 (CEFACT/ICG/005)
- UN/EDIFACT Invoice message
- Report and recommendations of CEN/ISSS e-Invoicing Focus Group on Standards and Developments on electronic invoicing relating to VAT Directive 2001/115/EC
- Unified Modelling Language (UML version 1.4)

3. Objective

The objective of this document is to standardize the Business processes, the Business transactions and the Information entities of the invoice used by the industries in the supply chain. The business process is the detailed description of the way trading partners intend to play their respective roles, establish business relations and share responsibilities to interact efficiently with the support of their respective information systems.

Each Business transaction is realised by an exchange of Business documents (also called messages). The sequence in which these documents are used, composes a particular instance of a scenario and are presented as use cases in the document.

The business documents are composed of Business Information Entities (BIE), which are preferably taken from libraries of reusable business information entities. The contents of the business documents and the Business Information Entities are presented using class diagrams.

4. Scope

This section describes the extent and limits of the business process within the supply chain being described in this document. The class diagram of the invoice business transaction is developed in such a way that it specifies the cross industry reusable business information entities. It allows the extension of industry specific business information entities such as product specification details to describe a specific product. It is up to each industry to specify, based on the BRS of the cross industry invoice, its industry specific invoice transaction.

Categories	Description and Values
Business process	Invoice process in the supply chain
Product Classification	All
Industry Classification	All
Geopolitical	Global
Official Constraint	None
Business Process Role	Private and public procurement
Supporting Role	None
System Capabilities	No limitations

The invoicing process is used to exchange the invoice between the supplier and the customer for the supply of goods or services ordered, delivered, received, consumed, etc.

This document describes the variants of invoicing in use in trade and industry. It considers the legal statements and, to a certain extent, the corrections of a previously sent invoice, by using credit notes or debit notes.

The following functions are part of the invoicing cycle, but only the treatment of the 'Traditional invoice' is dealt with at present. Treatment of the self-billing invoice will be developed in a second phase:

- The treatment of the traditional or suppliers' initiated invoice
- The treatment of the self-billing invoice (second phase)

The payment and remittance processes are not part of the invoicing process, but are detailed in the payment process.

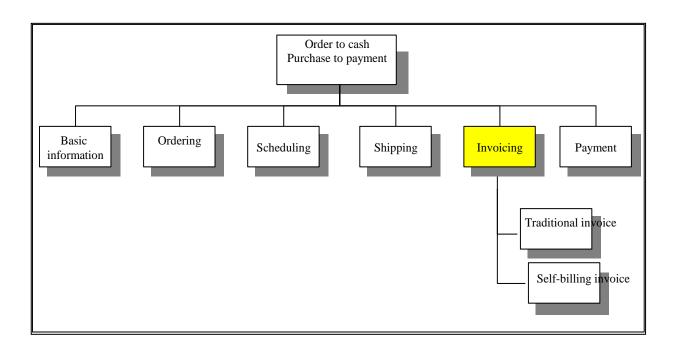
To simplify understanding, the parties involved are limited to customer and supplier. In the total trade business, each of the parties can have more than one role. For the invoicing process, the customer can act as the customer, the buyer, the consignee, the invoicee and the ordering company. The supplier covers the roles of the seller, the sales agent or sales company, the consignor, the invoice issuer and payee.

To ensure that the invoicing of the ordered, delivered, received or consumed goods or services are in line with common practice used between trading partners, the following scenarios are used:

- The traditional invoicing, by the supplier to the customer (supplier is acting as the invoice issuer)
- The self-billing invoicing, by the customer to the supplier (customer is acting as the invoice issuer) in a second phase.

5. Business requirements

Business requirements views



The Invoicing cycle is divided in two processes:

- The traditional or supplier initiated invoice

This process supports the generation of the invoice by the supplier to the customer, and covers also the treatment and the reconciliation of an incorrect invoice.

- The self-billing invoice

This process supports the generation of the self-billing invoice by the customer to the supplier, and covers also the treatment and the reconciliation of an incorrect invoice.

Both processes offer the opportunity to handle automatically the invoice in the supplier and customer accountants system. In order to book the invoice into the customer payable accounts system and supplier receivable accounts system, additional account information is included in the invoice to allow the automatic generation of the corresponding accounting entries. Details explaining the liaison of the accounting process with the Invoicing cycle are available in the UN/CEFACT TBG document entitled "Accounting process behind the Supply Chain" The accounting entry model is in development by the UN/CEFACT TBG12 – Accounting and Audit group.

Business process elaboration - Traditional or suppliers' initiated invoice

Scope

This process details the invoicing process between the supplier and the customer, using the traditional method of invoicing. In this case, the invoice is created by the supplier and sent to the customer, claiming payment for the goods or services that have been ordered, delivered, received or consumed under the conditions agreed by both parties.

Based on the conditions agreed, the invoice can be created at the moment of the acceptance of the order, at the moment of the despatch of the goods or when the customer or a third party gives acknowledgment that the goods are received or consumed or can be invoiced. Today, the most common way used for direct deliveries to the customer, is the creation of the invoice based on the despatch of goods. When an external warehouse or a consignment stock is used for the supply of goods between the supplier and the customer, the invoice based on the received or consumed goods is more relevant.

The invoice can also cover the functions of a pro-forma invoice, a pre-invoice, a consolidated invoice, or a debit note and credit note.

The pro-forma invoice can assist the customer in matters related to import licences, or to advise the value of a consignment, so that the letters of credit can be opened. The pre-invoice is an invoice generated before the delivery of the goods or services. The consolidated invoice covers several deliveries made within in a predefined time frame. The debit and credit note can be used to correct the total invoiced amount, to cancel a previous invoice, or to give an additional rebate covering the treatment and the reconciliation of an incorrect invoice.

If the customer finds an error in the invoice or he detects damaged goods, he can raise a dispute notice by using the Commercial dispute message. By means of a dispute notice, the customer can provide the reason for non-acceptance and can propose the corrections to be made. The supplier can use the dispute notice response to respond with an answer to the customer, mentioning how the incorrect invoice will be settled.

The settlement of the incorrect invoice can be done in one of the following ways. A credit note is generated to cancel the previously sent invoice, together with a new invoice with the correct information. Or a credit or debit note is sent to the customer to settle the corrections agreed between the parties.

Principles

The customer has the obligation to reconcile the invoices against the purchase order and the received and accepted goods. If relevant, the customer should report invoices with errors to the supplier. The customer has the obligation to issue notification of payment and to make remittance to the supplier, based on the reconciled invoices.

5.2.1. <u>Use case: Traditional or suppliers' initiated invoice process</u>

The use case for the traditional invoice process shows which Business collaboration use cases are used to compose the process:

- The treatment of an invoice
- The treatment and the reconciliation of an incorrect invoice

For each Business collaboration use case, a description is provided in this chapter.

Use case diagram - Traditional or suppliers' invoice process

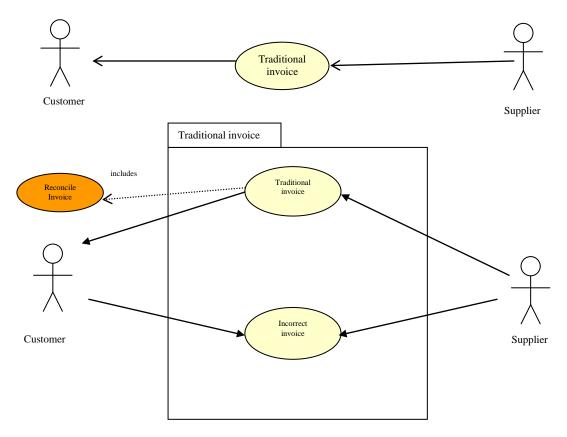
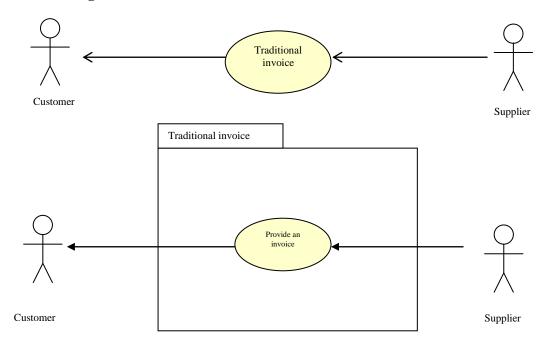


Figure 1 Use Case Diagram – Traditional invoice process

5.2.2. <u>Use case: Traditional invoice</u>

The use case for the Traditional invoice has the following business transaction:

- Provide an invoice.



Use case diagram – Invoice

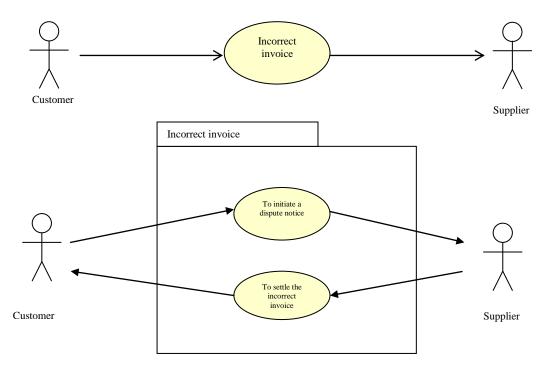
Figure 2 Use Case Diagram – Traditional invoice

Business	Traditional or supplier initiated invoice
process name	
Identifier	Cross industry traditional invoice
Actors	Customer, Supplier (Optional, additional roles – Invoicee, Invoice issuer, Customer Accountant, Supplier Accountant)
Description	The supplier presents to the customer, for the ordered or delivered, received or consumed goods or services, a detailed statement of trade account payable (invoice). The customer reconciles the invoice with the agreed prices and the goods or services rendered and initiates the payment remittance.
Pre-condition	Framework Agreement or Contract and that an order is in place with agreed prices. The supplier has provided goods or services according to the conditions set in the contract and/or order. The customer has received the goods or services.
Post- conditions	Based on the reconciled invoices, the customer should issue the notification for the payments. For the incorrect invoices, the customer will generate a dispute notice to the supplier.
Scenario	Based on the agreed conditions in the contract, order, delivery schedule, delivery just in time, or other relevant transaction, the supplier will provide goods to the customer. In accordance with the shipping instructions, the goods will be delivered directly to the customer, to a third party warehouse, to a consignment stock, or other relevant delivery point, (more details of the different ways are provided in the shipping cycle). Based on the agreement of the point of invoicing between the parties, the supplier will generate the invoice for the goods or services, based on the goods ordered, or delivered, or received or consumed. Once the goods are delivered to the customer, together with the shipment notice (despatch advice, packing list or waybill), the customer checks the invoice with the order, the contract and with the goods receipt report. If there is any discrepancy found, the customer shall start the process to handle incorrect invoices – otherwise, the invoice will be submitted to the
	payment cycle.
Remarks	

5.2.3. <u>Use case:</u> Incorrect invoice

The use case for the incorrect invoice has the following business transactions:

- To initiate a dispute notice
- To respond to the dispute notice
- To generate the relevant credit and debit notes, or invoice, to settle the dispute.



Use case diagram – Incorrect invoice process

Figure 3 Use Case Diagram – Incorrect invoice

Business	Incorrect invoice	
process name		
Identifier	Cross industry incorrect invoice	
Actors	Customer, Supplier	
	(Optional, additional roles - Invoicee, Invoice issuer, Customer Accountant, Supplier Accountant)	
Description	The Customer has found an error in the invoice from the supplier, a discrepancy between the invoiced goods and the received or consumed goods, or between the price conditions applied and the price conditions agreed.	
Pre-condition	The customer received an incorrect invoice from the supplier.	
Post-	The supplier has accepted the dispute notice raised by the customer, and the	
conditions	dispute is settled.	
	The supplier rejects the dispute notice.	
Scenario	Once the goods are delivered to the customer, together with the shipment notice, the customer checks the received invoice with the order and contract information and with the goods accepted by himself. If there is any discrepancy found, the customer shall generate a dispute notice for the supplier. On receipt, the supplier shall check the dispute notice and shall raise a dispute notice response, to inform the customer if the dispute notice is accepted or not accepted. When accepted, the supplier shall inform the customer how the incorrect invoice shall be settled. To settle the incorrect invoice, the supplier may either send a credit note to cancel the previously invoice and to generate a correct invoice, or he can	
Remarks	settle the difference by using a credit note or a debit note.The credit note and the debit note are covered by the invoice document.	

Business process elaboration – Self-billing invoice

Scope

This process details the invoicing process between the supplier and the customer, using the self-billing method of invoicing. In this case, the self-billing invoice is created by the customer, in the name and on behalf of the supplier, and sent to the supplier based on the received or consumed goods and the agreed price conditions.

Based on the conditions agreed, the self-billing invoices are produced by the customer on a regular basis; e.g. weekly, period of 10 days, monthly, using the recorded received goods data held within the customers' receiving control system. Today, this way of invoicing is the most common way used between the automotive industry manufacturers and their suppliers and is beginning to be implemented into other industrial sectors.

Together with the self-billing invoice, the customer raises, if valid, an additional list identifying the open items. These items represent previously received goods which are not yet cleared for payment by the customer. There may be different reasons for the frozen deliveries - quality claims, open price agreements (provisionally or zero-prices) or advance deliveries prior to the due date. This additional list allows the supplier to check for the complete quantity delivered and received.

The self-billing invoice can also cover the functions of a credit note for retrospective price corrections, or for the corrections of discrepancies detected by the supplier in a self-billing invoice. If the supplier finds something incorrect in the self-billing invoice, he can raise a dispute notice to the customer by using the Commercial dispute message. By means of the dispute notice, the supplier can provide the reason for the discrepancy. The customer can use the dispute notice response to respond with an answer to the supplier, mentioning how the discrepancy will be settled.

The discrepancies are corrected by the raising of an additional self-billing invoice or self-billing credit note.

Principles

The supplier has the obligation to reconcile the self-billing invoices against the purchase order and the delivered, received or accepted goods. If relevant, the supplier should report to the customer incorrect self-billing invoices.

The customer has the obligation to issue notification of payment and make remittance to the supplier, based on the self-billing invoices.

5.3.1. Use case: Self-billing invoice process

The use case for the self-billing invoice process shows which Business collaboration use cases are used to compose the process:

- The treatment of a self-billing invoice
- The treatment and the reconciliation of an incorrect self-billing invoice
- The treatment of the list of open items

For each of the Business collaboration use case a description is provided in this chapter.

Use case diagram – Self-billing invoice process

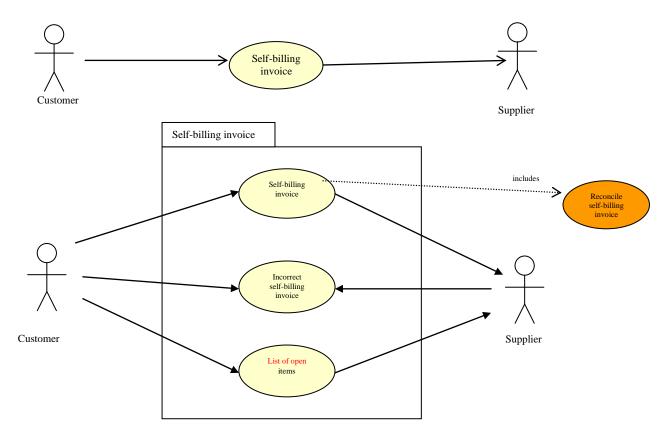
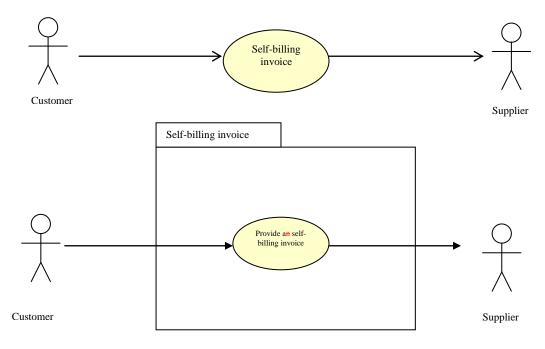


Figure 4 Use Case Diagram – Self-billing invoice process

5.3.2. <u>Use case:</u> Self-billing invoice

The use case for the Self-billing invoice has the following business transaction:

- Provide a self-billing invoice.



Use case diagram – Self-billing invoice

Figure 5 Use Case Diagram – Self-billing invoice

process nameIdentifierCross industry self-billing invoiceActorsCustomer, Supplier (Optional, additional roles – Invoice, Invoice issuer, Customer Accountant, Supplier Accountant)DescriptionThe customer presents to the supplier, for the received or consumed goods, a detailed statement of trade account payable (invoice). The supplier reconciles the self-billing invoice with the agreed prices and the goods or services rendered.Pre-conditionFramework Agreement or Contract and order are in place with agreed prices. The supplier has provided goods or services according to the conditions set in the contract and, or order. The customer has received the goods or services.Post- conditionsBased on the self-billing invoices, the customer should issue the notification for the payments. For incorrect self-billing invoices, the supplier will generate a dispute notice to the customer.ScenarioBased on the agreed conditions in the contract, order and/ or the delivery schedule or delivery just in time, the supplier will provide goods to the customer. In accordance with the shipping instructions, the goods will be delivered directly to the customer, or to a third party warehouse or to a consignment stock (more details of the different ways are provided in the	Business	Self-billing invoice
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schedule or delivery just in time, the supplier will provide goods to the customer. In accordance with the shipping instructions, the goods will be delivered directly to the customer, or to a third party warehouse or to a consignment stock (more details of the different ways are provided in the		to the customer.
customer. In accordance with the shipping instructions, the goods will be delivered directly to the customer, or to a third party warehouse or to a consignment stock (more details of the different ways are provided in the	Scenario	Based on the agreed conditions in the contract, order and/ or the delivery
delivered directly to the customer, or to a third party warehouse or to a consignment stock (more details of the different ways are provided in the		schedule or delivery just in time, the supplier will provide goods to the
consignment stock (more details of the different ways are provided in the		customer. In accordance with the shipping instructions, the goods will be
		delivered directly to the customer, or to a third party warehouse or to a
		consignment stock (more details of the different ways are provided in the
shipping cycle). Based on the involcing agreement between the parties, the		shipping cycle). Based on the invoicing agreement between the parties, the
customer will generate the self-billing invoice for the goods or services,		customer will generate the self-billing invoice for the goods or services,
based on the goods received or consumed.		based on the goods received or consumed.
Once the self-billing invoices are received, the supplier checks the invoice		Once the self-billing invoices are received, the supplier checks the invoice
with the order and contract information and with the information he has		
received about the goods received (accepted) or consumed by the customer.		
If there is any discrepancy found, the supplier shall start the process to treat		
incorrect self-billing invoices.		
Remarks	Remarks	

5.3.3. <u>Use case:</u> Incorrect self-billing invoice

The use case for the incorrect self-billing invoice has the following business transactions:

- To initiate a dispute notice
- To respond to the dispute notice
- To generate the relevant self-billing credit note or invoice to settle the dispute.

Customer Incorrect self-billing invoice Supplier

Use case diagram – Incorrect invoice process

Figure 6 Use Case Diagram – Incorrect self-billing invoice

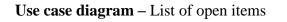
Use case	description	- Incorrect	self-billing invoice
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D •		
Business	Incorrect self-billing invoice	
process name		
Identifier	Cross industry incorrect self-billing invoice	
Actors	Customer, Supplier	
	(Optional, additional roles - Invoicee, Invoice issuer, Customer Accountant,	
	Supplier Accountant)	
Description	The supplier has found, on the self-billing invoice from the customer, a	
	discrepancy between the invoiced goods and the received or consumed goods	
	or between the price conditions applied and the price conditions agreed.	
Pre-condition	The supplier received an incorrect self-billing invoice from the customer.	
Post-	The customer has accepted the dispute notice raised by the supplier, and the	
conditions	dispute is settled.	
	The customer rejects the dispute notice.	
Scenario	The supplier checks the received self-billing invoice with the order and	
	contract information and with the goods accepted (received or consumed) by	
	the customer. If there is any discrepancy found, the supplier shall generate a	
	dispute notice for the customer.	
	On receipt, the customer shall check the dispute notice and shall raise a	
	dispute notice response, to inform the supplier if the dispute notice is	
	accepted or not accepted. When accepted, the customer can inform the	
	supplier how the incorrect self-billing invoice shall be settled.	
	To settle the incorrect self-billing invoice the customer generates a self-	
	billing credit note or self-billing invoice to settle the difference.	
Remarks	- The self-billing credit note and the self-billing invoice are covered by the Invoice document.	

5.3.4. Use case: List of open items

The use case for the list of open items has the following business transaction:

- List of open items



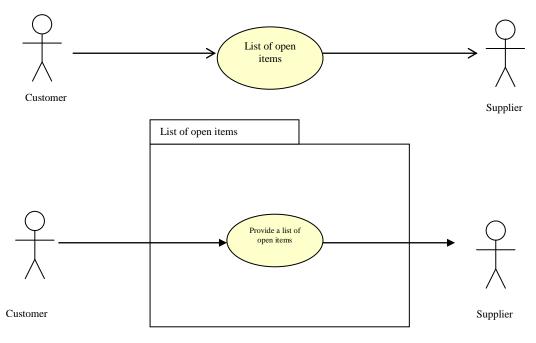


Figure 7 Use Case Diagram – List of open items

Business	List of open items
process name	1
Identifier	Cross industry list of open items
Actors	Customer, Supplier
	(Optional, additional roles – Invoicee, Invoice issuer)
Description	The customer presents to the supplier a list of open items, for items that were
	part of a delivery but are not yet cleared for payment. There may be
	different reasons for this: claims, open price agreements or advance
	deliveries prior to the due date.
Pre-condition	Framework Agreement or Contract and order are in place with agreed prices.
	The supplier has provided goods or services according to the conditions set
	in the contract and, or order. The customer has received the goods or
	services.
Post-	The supplier is informed of goods for which it is not possible to generate a
conditions	self-billing invoice.
Scenario	Based on the agreed conditions in the contract, order and/ or the delivery
	schedule or delivery just in time, the supplier will provide goods to the
	customer. In accordance with the shipping instructions, the goods will be
	delivered directly to the customer, or to a third party warehouse or to a
	consignment stock (more details of the different ways are provided in the
	shipping cycle). Based on the agreement of the point of invoicing between
	the parties, the customer will generate the self-billing invoice for the goods
	or services, based on the goods received or consumed. During the process of
	the self-billing invoice, the customer detects that, due to missing
	information, some received goods cannot be invoiced. For these goods, the
	customer will provide a list of open items.
Remarks	

Information flow definition - Traditional or suppliers' initiated invoice

For each of the use cases mentioned in chapter 5.2., the corresponding activity diagrams are presented.

5.4.1. Activity diagram: Traditional invoice

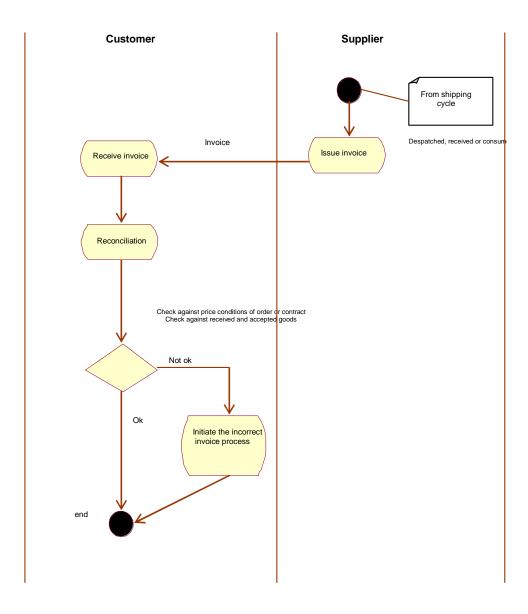


Figure 8. Activity Diagram – Traditional invoice

Activity diagram description - Traditional invoice

Based on the conditions agreed between the customer and supplier, the supplier shall initiate the invoicing of goods delivered. The point of invoicing is one of the following triggers:

- Before the shipment of the goods:

The preparation of a shipment is done based on the shipment instructions. The invoice or pro-forma invoice is created based on the shipment, before the shipment takes place, because the invoice should be used for customs clearance.

- Based on the despatched goods:

The invoice is created after the shipment of the goods and is based on the goods present in the shipment. This is the normal case for direct delivery of goods from the supplier to the customer.

- Based on the received goods:

The invoice is created based on the information of the received goods, from the customer or a third party service provider. This is the normal case when a third party warehouse is used between the supplier and the customer. In this case, the supplier should receive the information of the goods delivered from the warehouse and received by the customer. This case can also be agreed between the customer and the supplier for direct delivery.

- Based on the consumed goods:

The invoice is created based on the information of the consumed goods, from the customer. This is the normal case when an agreement exists between the customer and the supplier to use a consignment stock, being located in the customers' warehouse.

In this case, the goods can be invoiced when they are taken out of the consignment stock.

The supplier sends the invoice to the customer. When the customer receives the invoice, he checks the price conditions applied, against the price conditions agreed and specified in the contract or order. The customer also checks the goods invoiced against the goods received and accepted. If no discrepancies are detected, the invoice is accepted and will be submitted to the payment administration.

If there is any discrepancy detected by customer, the customer should initiate the incorrect invoice procedure, to advise the supplier by a non-conformity notification and corrective action has to take place.

5.4.2. Activity diagram: Incorrect invoice

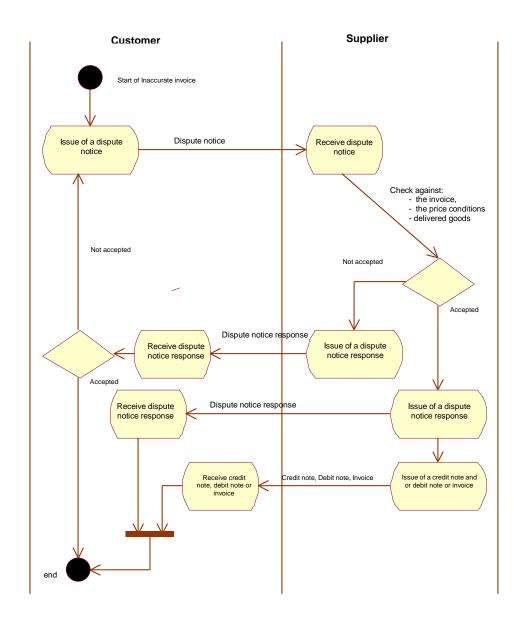


Figure 9. Activity Diagram – Incorrect invoice

Activity diagram description - Incorrect invoice

If there are any discrepancies detected in the invoice, the customer initiates the incorrect invoice procedure by raising a dispute notice. By this dispute notice, he informs the supplier about the discrepancies found and can propose the relevant corrective action to be taken by the supplier. When the supplier receives the dispute notice, he checks the non-conformity notification with his information concerning the invoice, the price conditions and the delivered goods.

Based on his findings, the supplier shall accept or not accept the dispute notice and the corrective action proposed. If the dispute notice is not accepted, the supplier shall raise a dispute notice response to the customer, mentioning the reason for non-acceptance and/ or propose another corrective action. On receipt of the dispute notice response, the customer shall, after evaluation of the response, raise a new dispute notice containing a new proposal or to confirm the acceptance of the proposal made by the supplier in the dispute notice response.

If the dispute notice is accepted, the supplier shall raise a dispute notice response to inform the customer and shall take the corrective actions. To resolve an incorrect invoice, the supplier has the option to cancel the incorrect invoice by using a credit note and to generate the correct invoice, or he can raise a credit note or debit note for the difference between the amount of the incorrect invoice and correct amount. On receipt of the dispute notice and the credit note, debit note and or invoice, the customer shall check them against the dispute notice initiated by him.

5.4.3. <u>Business collaboration diagram: Traditional invoice</u>

Business Collaboration		
Identifier	Cross industry traditional invoice	
Description	The supplier raises and sends an invoice to the customer. When the customer receives the invoice, he checks the invoice against the price conditions and the invoiced goods against the received and accepted goods. If the invoice is correct, the invoice is accepted and submitted to the payment administration. If there is any discrepancy detected, the customer shall initiate the incorrect invoice process.	
Partner Types	Customer Supplier	
Authorized Roles	Customer (Customer's agent, Buyer or Buyer's agent, Invoicee) Supplier (Supplier's agent, Seller or Seller's agent, Invoice issuer)	
Legal Steps/Requirements	None	
Economic Consequences	None	
Initial/Terminal Events	• Initial: the supplier sends the invoice	
	• Terminal: the customer accepts the invoice or initiates the incorrect invoice process	
Scope	To request payment for the ordered and delivered goods.	
Boundary	Not defined yet	
Constraints	The supplier shall have full traceability of his invoice, to make sure it has been received. Failing this technical acknowledgement, the supplier shall re-issue his invoice message	

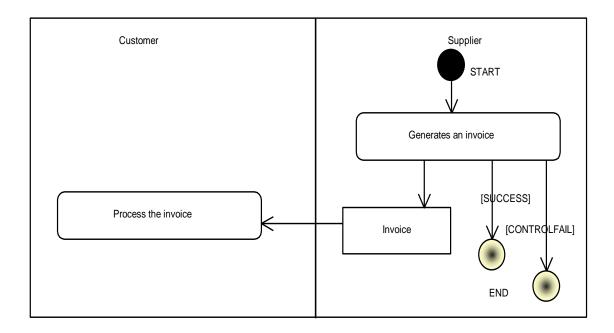


Figure 10. Business transaction activity graph – Traditional invoice

5.4.3. <u>Business collaboration diagram:</u> Incorrect invoice

Business Collaboration	
Identifier	Cross industry incorrect invoice
Description	The customer raises and sends a dispute notice to the supplier to report any discrepancy in an invoice. When the supplier receives the dispute notice, he checks the referred invoice with the price conditions and the invoiced goods with the delivered goods. Based on his findings, he raises and sends a dispute notice response, to reject the dispute notice or to propose another settlement, or he raises and sends a dispute notice response together with a credit note, debit note and/ or invoice to settle the incorrect invoice.
Partner Types	Customer Supplier
Authorized Roles	Customer (Customer's agent, Buyer or Buyer's agent, Invoicee) Supplier (Supplier's agent, Seller or Seller's agent, Invoice issuer)
Legal Steps/Requirements	None
Economic Consequences	None
Initial/Terminal Events	 Initial: the customer sends a dispute notice Terminal: the incorrect invoice is settled, or the supplier proposes another settlement
Scope	To settle any discrepancy in the invoice.
Boundary	Not defined yet
Constraints	The customer shall have full traceability of his dispute notice, to make sure it has been received. Failing this technical acknowledgement, the customer shall re-issue his dispute notice

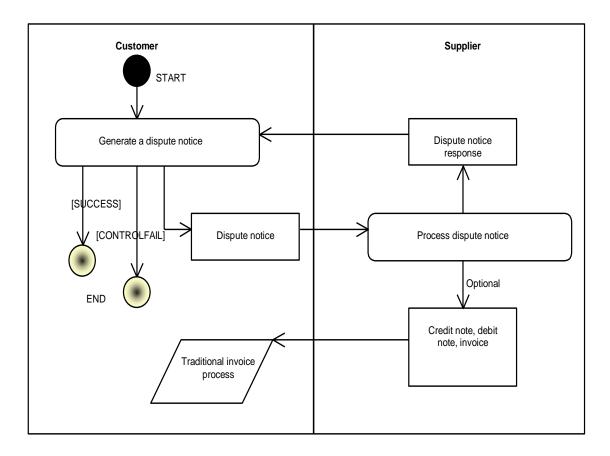


Figure 11. Business transaction activity graph – Incorrect invoice

Information flow definition – Self-billing invoice

For each of the use cases mentioned in chapter 5.3., the corresponding activity diagrams are presented.

5.5.1. Activity diagram: Self-billing invoice

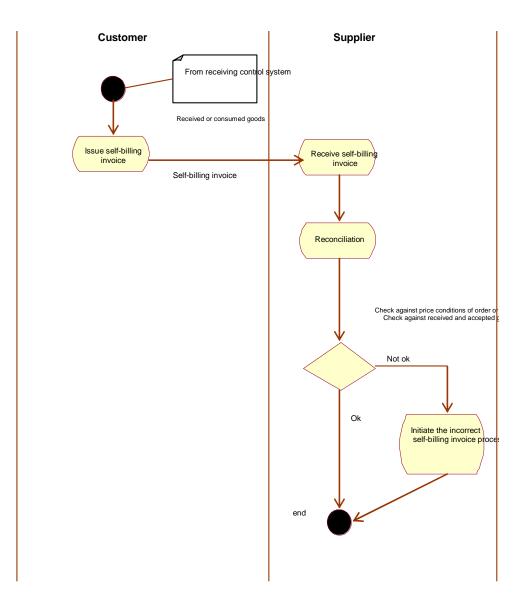


Figure 12. Activity Diagram – Self-billing invoice

Activity diagram description - Self-billing invoice

Based on the conditions agreed between the customer and supplier, the customer shall initiate the self-billing invoicing of goods or services received or consumed. The point of invoicing is one of the following triggers:

- Based on the received goods:

The invoice is created, based on the information of the received goods from the customers' receiving control system. Depending on the customers' system, additional information from the supplier or warehouse (e.g. despatch advice) may be needed to create the self-billing invoice. This is the normal case when a third party warehouse is used between the supplier and the customer. In this case, the supplier should receive the information of the goods delivered from the warehouse and received by the customer.

This case can also be agreed between the customer and the supplier for direct delivery.

- Based on the consumed goods:

The invoice is created, based on the information of the consumed goods from the customers' production control system. This is the normal case when an agreement exists between the customer and the supplier to use a consignment stock, being located in the customers' warehouse.

In this case, the goods can be invoiced when they are taken out of the consignment stock.

The customer sends the self-billing invoice to the supplier. When the supplier receives the selfbilling invoice, he checks the price conditions that have been applied against the price conditions agreed and specified in the contract or order. The supplier also checks the goods invoiced against the goods delivered, or received and accepted. If no discrepancies are detected, the invoice is accepted and will be submitted to the accounting administration.

If there is any discrepancy detected by the supplier, the supplier should initiate the incorrect selfbilling invoice procedure, to advise the customer by a non-conformity notification and corrective action has to take place.

5.5.2. Activity diagram: Incorrect self-billing invoice

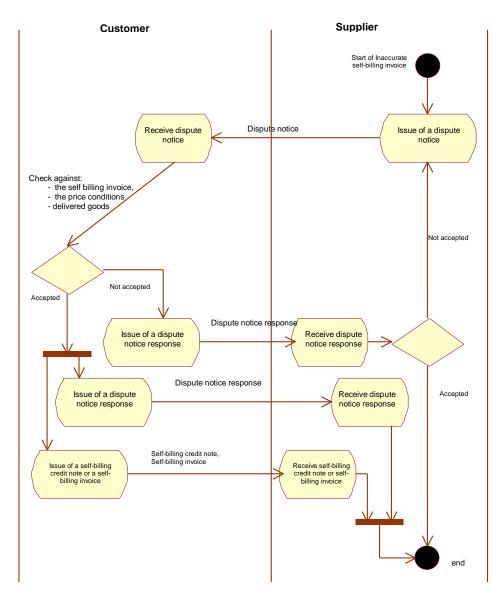


Figure 13. Activity Diagram – Incorrect self-billing invoice

Activity diagram description - Incorrect self-billing invoice

If there is any discrepancy detected in the invoice, the supplier initiates the incorrect self-billing invoice procedure by raising a dispute notice. By using this dispute notice, he informs the customer about the discrepancies found and can propose the relevant corrective action to be taken by the customer.

When the customer receives the dispute notice, he checks the dispute notice with his information concerning the self-billing invoice, the price conditions and the delivered goods.

Based on his findings, the customer shall accept or reject the dispute notice and the corrective action proposed. If the dispute notice is rejected, the customer shall raise a dispute notice response to the supplier, giving the reason for non-acceptance and /or propose another corrective action. On receipt of the dispute notice response, the supplier shall, after evaluation of the response, raise a new dispute notice containing a new proposal, or to confirm the acceptance of the proposal made by the customer in the dispute notice response.

If the dispute notice is accepted, the customer can raise a dispute notice response to inform the supplier and shall take the corrective actions. To correct an incorrect self-billing invoice, the customer raises a self-billing credit note, or a self-billing invoice, to settle the difference. On receipt of the dispute notice response and the self-billing credit note or self-billing invoice, the supplier shall check them against the dispute notice initiated by him.

5.5.3. Activity diagram: List of open items

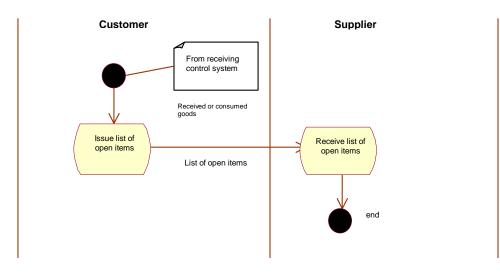


Figure 14. Activity Diagram – List of open items

Activity diagram description – List of open items

During the self-billing invoice process, the customer detects that there are some received goods for which he is not able to generate the self-billing invoice. To inform the supplier of these goods, the customer shall issue a list of open items, giving the reason for not being able to self-bill. This information is sent, together with the self-billing invoice, to inform the supplier and to allow the reconciliation of the self-billing invoice.

On receipt of the list of open items, the supplier will take this list into account during the check of the self-billing invoice.

5.5.4. <u>Business collaboration diagram:</u> Self-billing invoice

Business Collaboration		
Identifier	Cross industry self-billing invoice	
Description	The customer raises and sends a self-billing invoice to the supplier. When the supplier receives the self-billing invoice, he checks the invoice against the price conditions and the invoiced goods against the delivered or received or consumed goods. If the self-billing invoice is correct, the invoice is accepted and submitted to the accounting administration. If there is any discrepancy detected, the supplier shall initiate the incorrect self-billing invoice process.	
Partner Types	Customer Supplier	
Authorized Roles	Customer (Customer's agent, Buyer or Buyer's agent, Invoicee) Supplier (Supplier's agent, Seller or Seller's agent)	
Legal Steps/Requirements	None	
Economic Consequences	None	
Initial/Terminal Events	• Initial: the customer sends the self-billing invoice	
	• Terminal: the supplier accepts the self-billing invoice or initiates the incorrect self-billing invoice process	
Scope	To request payment for the ordered and delivered goods.	
Boundary	Not defined yet	
Constraints	The customer shall have full traceability of his self-billing invoice to make sure it has been received. Failing this technical acknowledgement, the customer shall re-issue his invoice message	

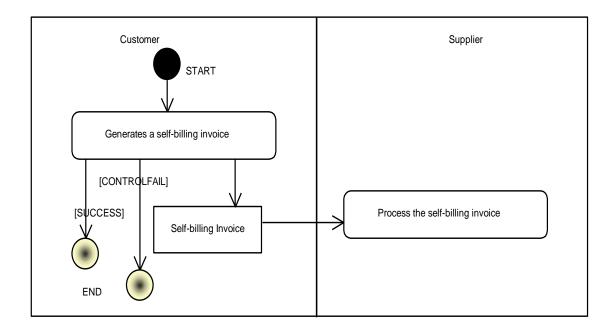


Figure 15. Business transaction activity graph – Self-billing invoice

5.5.5. <u>Business collaboration diagram:</u> Incorrect self-billing invoice

	Business Collaboration			
Identifier Cross industry incorrect self-billing invoice				
Description	The supplier raises and sends a dispute notice to the custome to report any discrepancy in a self-billing invoice. When the customer receives the dispute notice, he checks the referrer self-billing invoice with the price conditions and with the delivered goods. Based on his findings, he raises and sends dispute notice response to reject the dispute notice or to propose another settlement, or he raises and sends a dispute notice response, together with a self-billing credit note or self-billing invoice, to settle the difference.			
Partner Types	Customer Supplier			
Authorized Roles	Customer (Customer's agent, Buyer or Buyer's agent, Invoicee) Supplier (Supplier's agent, Seller or Seller's agent)			
Legal Steps/Requirements	None			
Economic Consequences	None			
Initial/Terminal Events	• Initial: the supplier sends a dispute notice			
	• Terminal: the incorrect self-billing invoice is settled, or the customer proposes another settlement			
Scope	To settle any discrepancy in the self-billing invoice.			
Boundary	Not defined yet			
Constraints	The supplier shall have full traceability of his dispute notice to make sure it has been received. Failing this technical acknowledgement, the supplier shall re-issue his dispute notice			

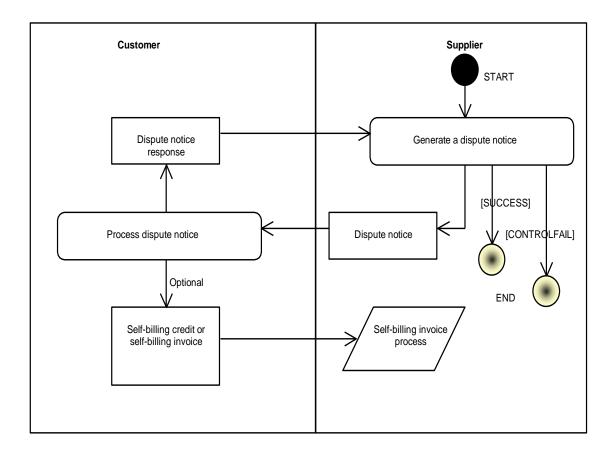


Figure 16. Business transaction activity graph – Incorrect self-billing invoice

5.5.6. <u>Business collaboration diagram:</u> List of open items

	Business Collaboration			
Identifier	Cross industry list of open items			
Description	The customer raises and sends a list of open items to the supplier. When the supplier receives the list of open items, he can take the list in account during the checking of the self-billing invoice.			
Partner Types	Customer Supplier			
Authorized Roles	Customer (Customer's agent, Buyer or Buyer's agent, Invoicee) Supplier (Supplier's agent, Seller or Seller's agent)			
Legal Steps/Requirements	None			
Economic Consequences	None			
Initial/Terminal Events	Initial: the customer sends the list of open itemsTerminal: the supplier accepts the list of open items			
Scope	To inform the supplier of goods received not invoiced			
Boundary	Not defined yet			
Constraints	 The customer shall have full traceability of his list of operitems. Failing this technical acknowledgement, the customer share-issue his list of open items 			

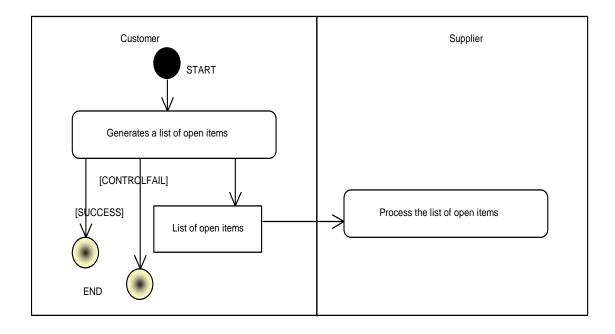
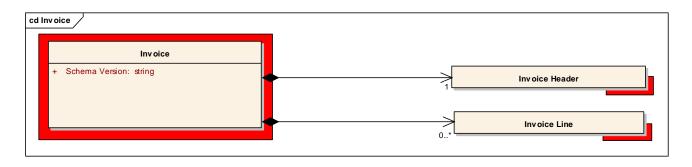
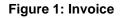


Figure 17. Business transaction activity graph – List of open items

Information model definition – Invoice (Class diagram)





Invoice

Description: A message claiming payment for goods or services supplied under conditions agreed between the supplier and the customer. The invoice details references, terms of delivery, payment, identification of goods and services, quantities, prices and currencies, conditions, taxes and items being invoiced.

Mult.	Business term	Rel.	Туре	BIE name	Description
1	Schema version	Att.	string		Business document version number.
1	Invoice header	Ass.	Invoice header		The entity contains the general information about an invoice, a debit note or credit note, such as the number, date and the relevant monetary amounts.
0*	Invoice line	Ass.	Invoice line		The entity contains, for an invoice line, the relevant weights, invoiced quantities and monetary amounts.

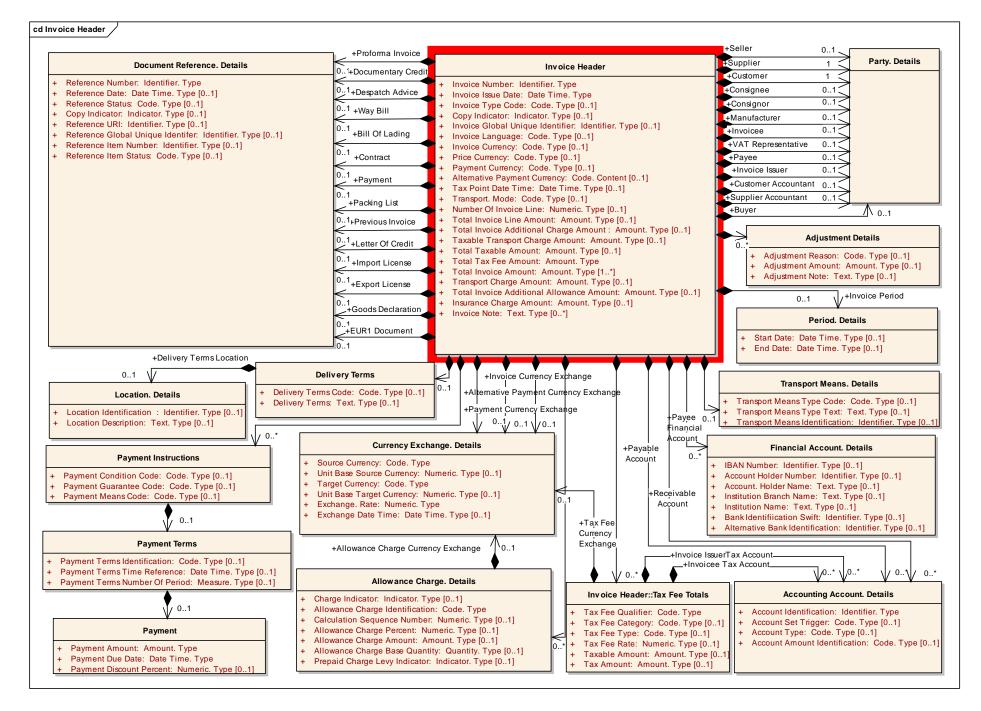


Figure 2: Invoice header

Invoice header Description: The entity contains the general information about an invoice, a debit note or credit note, such as the number, date and the relevant monetary amounts.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Invoice number	Att.	Identifier		The unique number assigned by the issuer to identify an
					invoice.
1	Invoice issue date	Att.	Date Time		The date/time when the invoice is issued.
01	Invoice type code	Att.	Code		The code specifying the invoice type (e.g. invoice, debit note,
					credit note).
01	Copy indicator	Att.	Indicator		The indicator that the invoice is a copy of an original invoice.
01	Invoice Global unique identifier	Att.	Identifier		The Global unique identifier (GUID) of the invoice.
01	Invoice language	Att.	Code		The code specifying the language of the free text of the
					invoice.
01	Invoicing currency	Att.	Code		The coded identifier of the monetary unit used for invoice line
					amounts and invoice total amounts.
01	Price currency	Att.	Code		The coded identifier of the monetary unit used for the price.
01	Payment currency	Att.	Code		The coded identifier of the monetary unit to be used for the
					payment of an invoice.
01	Alternative payment currency	Att.	Code		The coded identifier of the monetary unit to be used as an
					alternate currency for the payment of an invoice.
01	Tax point date time	Att.	Date Time		The date on which the supply of goods or services was made /
					completed for VAT purposes, or the date on which any
					payment on account was made, where this date can be
					determined and differs from the issue date of the invoice.
0.1					The tax point date is valid for all invoice lines.
01	Transport mode	Att.	Code		The code specifying the mode of transport.
01	Number of invoice lines	Att.	Numeric		The number of invoice lines.
01	Total invoice line amount	Att.	Amount		The sum of all invoice lines amounts, including all allowances
0.1					and charges related to the invoice line before tax or fee.
01	Total invoice additional charge amount	Att.	Amount		The sum of all charges at the invoice header level before tax
0.1		A			or fee.
01	Total invoice additional allowance	Att.	Amount		The sum of all allowances at the invoice header level before
0.1	amount Total taxable amount	A 44	A		tax or fee. The total amount subject to tax or fee.
01	Total tax fee amount	Att.	Amount		The sum of all tax and fee amounts.
1 1 ¥		Att.	Amount		
1*	Total invoice amount	Att.	Amount		The total amount of the invoice, being the sum of total invoice line amount, total invoice additional amounts and total tax fee
					amount. This amount can be repeated to express it in the
					invoice -, payment - and alternative payment currency
01	Transport charge amount	Att.	Amount		The amount including tax charged by shipper for moving
01	ransport charge amount	Au.	Amount		goods, by whatever means, from one place to another.
01	Taxable transport charge amount	Att.	Amount		The amount before tax charged by shipper for moving goods,
01	razable transport enarge amount	лι.	Amount		by whatever means, from one place to another.
					by whate ver means, nom one place to another.

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Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Insurance charge amount	Att.	Amount		The amount of premium payable to the insurance company to insure the goods.
0*	Invoice note	Att.	Text		The free text information related to the complete invoice.
01	Invoicing currency exchange	Ass.	Currency Exchange. Details		The exchange rate used for the conversion of the invoicing
					currency from a source currency.
01	Payment currency exchange	Ass.	Currency Exchange. Details		The exchange rate used for the conversion of the payment
					currency from a source currency.
01	Alternative payment currency exchange	Ass.	Currency Exchange. Details		The exchange rate used for the conversion of the alternative
					payment currency from a source currency.
01	Invoicing period	Ass.	Period. Details		The period wherein the deliveries are taken into account on
					the invoice.
0*	Invoice adjustment	Ass.	Adjustment. Details		The entity to identify the adjustment reason for the credit note,
					debit note or invoice.
1	Supplier	Ass.	Party. Details		The entity contains the details of the supplier.
1	Customer	Ass.	Party. Details		The entity contains the details of the customer.
01	Seller	Ass.	Party. Details		The entity contains the details of the seller.
01	Buyer	Ass.	Party. Details		The entity contains the details of the buyer.
01	Consignee	Ass.	Party. Details		The entity contains the details of the consignee.
01	Consignor	Ass.	Party. Details		The entity contains the details of the consignor.
01	Manufacturer	Ass.	Party. Details		The entity contains the details of the manufacturer.
01	Invoicee	Ass.	Party. Details		The entity contains the details of the invoicee.
01	Tax representative	Ass.	Party. Details		The entity contains the details of the Tax representative.
01	Payee	Ass.	Party. Details		The entity contains the details of the payee.
01	Invoice issuer	Ass.	Party. Details		The entity contains the details of the invoice issuer.
01	Customer accountant	Ass.	Party. Details		The entity contains the details of the customer accountant.
01	Supplier accountant	Ass.	Party. Details		The entity contains the details of the supplier accountant.
0*	Payee financial account	Ass.	Financial Account. Details		The entity contains the details of the financial institution and
					the account holder name and account number of the payee.
01	Pro-forma invoice reference	Ass.	Document Reference. Details		The unique identifier assigned by the issuer to a pro-forma
					invoice.
01	Documentary credit reference	Ass.	Document Reference. Details		The unique identifier assigned by the issuing bank to a
					Documentary credit.
01	Despatch advice reference	Ass.	Document Reference. Details		The unique identifier given by the consignor to identify a
	*				despatch advice.
01	Way bill reference	Ass.	Document Reference. Details		The unique identifier assigned by the issuer to a Way bill
01	Bill of lading reference	Ass.	Document Reference. Details		The unique identifier assigned by the issuer to a bill of lading.
01	Contract reference	Ass.	Document Reference. Details		The unique identifier assigned to a Contract concluded
					between customer and supplier.
01	Payment reference	Ass.	Document Reference. Details		The unique identifier assigned to a payment.
01	Packing list reference	Ass.	Document Reference. Details		The unique identifier given by the consignor to identify a
					packing list.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Previous invoice reference	Ass.	Document Reference. Details		The unique identifier assigned by the issuer to a previous
					invoice.
01	Letter of credit reference	Ass.	Document Reference. Details		The unique identifier assigned to a letter of credit.
01	Import license reference	Ass.	Document Reference. Details		The unique identifier assigned by the issuing authority to an
					import license.
01	Export license reference	Ass.	Document Reference. Details		The unique identifier assigned by the issuing authority to an
					export license.
01	Goods declaration reference	Ass.	Document Reference. Details		The unique identifier assigned or accepted by Customs, to
					identify a Goods declaration.
01	EUR1 document reference	Ass.	Document Reference. Details		The unique identifier assigned or accepted by Customs, to
					identify a EUR1 document.
01	Delivery terms	Ass.	Delivery Terms		The entity contains the details of the delivery terms and the
					place if relevant for the delivery terms.
01	Transport means	Ass.	Transport Means. Details		The entity contains the identification of the means of transport
					(e.g. license plate of the lorry, wagon number, name of the
					vessel).
01	Payment instructions	Ass.	Payment Instructions		The entity contains the information describing the conditions
					and guarantee under which the payments will be made.
01	Payment terms	Ass.	Payment Terms		The entity contains the details of the payment terms and
					date/time basis.
01	Payment	Ass.	Payment		The entity contains the payment amount related to the
					payment terms.
0*	Tax fee totals	Ass.	Tax Fee Totals		The entity contains of the invoice the tax type, tax rate, the
					taxable amount and the tax amount for the tax type and rate.
0*	Allowance and charge	Ass.	Allowance Charge. Details		The entity contains the details of the allowance and charge
					valid for the invoice header.
0*	Receivable account	Ass.	Accounting Account. Details		The entity contains information related to the receivable
					account where to record the debit or credit accounting amount,
					the code defining the type of account (e.g. general, secondary,
					cost accounting, budget, etc.)
0*	Payable account	Ass.	Accounting Account. Details		The entity contains information related to the payable account
					where to record the debit or credit accounting amount, the
					code defining the type of account (e.g. general, secondary,
					cost accounting, budget, etc.)

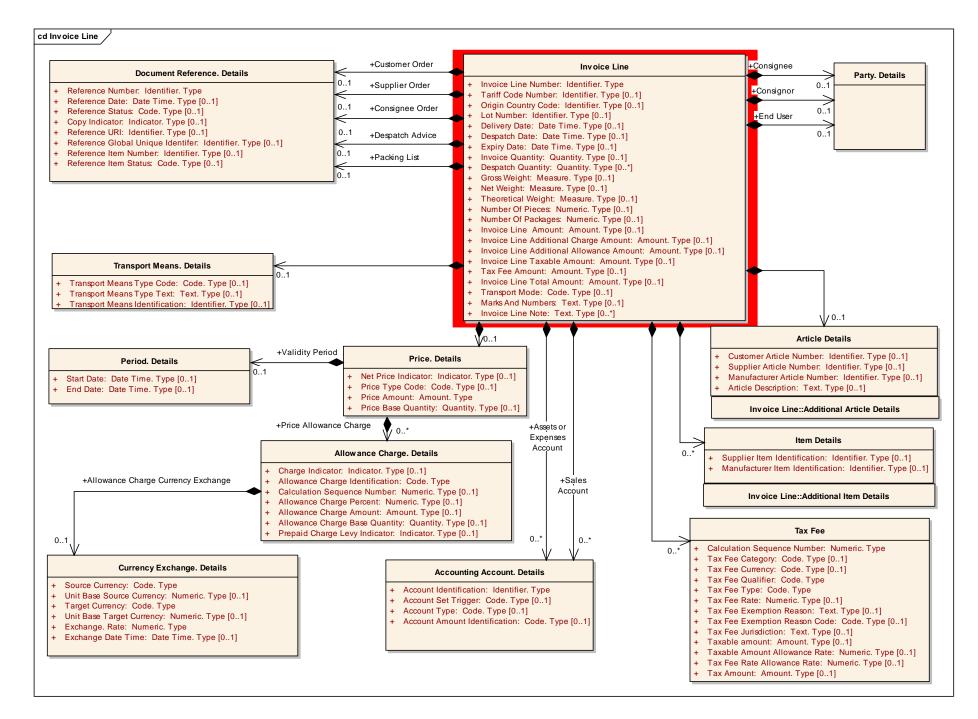


Figure 3: Invoice line

<u>Invoice line</u> Description: The entity contains of an invoice line the relevant weights, invoiced quantities and monetary amounts.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Invoice line number	Att.	Identifier		The unique reference given by the issuer to identify an invoice line within an invoice
01	Tariff code number	Att.	Identifier		The code number of the goods in accordance with the tariff nomenclature system of classification in use where the Customs declaration is made.
01	Origin country code	Att.	Identifier		The code specified in ISO 3166 - 1993 (2 alpha positions) to identify the country in which goods have been produced or manufactured, according to criteria laid down for the purposes of application of the Customs tariff, of quantitative restrictions, or of any other measure or regulation applicable to trade.
01	Lot number	Att.	Identifier		The identification number assigned to a lot which includes the goods of the invoice line.
01	Delivery date	Att.	Date Time		The date when the goods were delivered to the customer.
01	Despatch date	Att.	Date Time		The date when the goods were despatch by the supplier.
01	Expiry date	Att.	Date Time		The expiry date of the lot (goods of the invoice line).
01	Invoice quantity	Att.	Quantity		The invoiced quantity of the goods of the invoice line
0*	Despatch quantity	Att.	Quantity		The quantity of the goods of the invoice line despatch by the supplier.
01	Gross weight	Att.	Measure		The weight of the goods including packing but excluding the carriers' equipment of the invoice line.
01	Net weight	Att.	Measure		The weight of the goods themselves without any packing. (Net net weight) of the invoice line
01	Theoretical weight	Att.	Measure		The calculated weight of the goods of the invoice based on the dimensions ordered.
01	Number of pieces	Att.	Numeric		The total number of pieces in the invoice line.
01	Number of packages	Att.	Numeric		The total number of packages comprising an invoice line.
01	Invoice line amount	Att.	Amount		The monetary amount of the invoice line, without all allowances and charges related to the invoice line before tax or fee.
01	Invoice line additional charge amount	Att.	Amount		The sum of all charges at the invoice line level before tax or fee.
01	Invoice line additional allowance amount	Att.	Amount		The sum of all allowances at the invoice line level before tax or fee.
01	Invoice line taxable amount	Att.	Amount		The invoice line amount subject to a tax or fee.
01	Tax fee amount	Att.	Amount		The sum of all tax and fee amounts valid for the invoice line.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Invoice line total amount	Att.	Amount		The total amount of the invoice mine, being the sum of
					Invoice item amount, Invoice item additional amounts and Tax
					fee amount.
01	Transport mode	Att.	Code		The code specifying the mode of transport.
01	Marks and numbers	Att.	Text		The information requested on the transport label of the
					package.
0*	Invoice line note	Att.	Text		The free text information related to the invoice line.
01	Consignee	Ass.	Party. Details		The entity contains the details of the consignee.
01	Consignor	Ass.	Party. Details		The entity contains the details of the consignor.
01	End user	Ass.	Party. Details		The entity contains the details of the end user.
01	Customer order reference	Ass.	Document Reference. Details		The unique identifier of the order assigned by the customer to
					an order and the issuing date.
01	Supplier order reference	Ass.	Document Reference. Details		The unique identifier of the order assigned by the supplier to
					an order and the issuing date.
01	Consignee order reference	Ass.	Document Reference. Details		The unique identifier of the order assigned by the consignee to
					an order and the issuing date.
01	Despatch advice reference	Ass.	Document Reference. Details		The unique identifier given by the consignor to identify a
					despatch advice.
01	Packing list reference	Ass.	Document Reference. Details		The unique identifier given by the consignor to identify a
					packing list.
01	Article details	Ass.	Article. Details		The entity contains the article identifications of the customer,
					supplier, manufacturer and a description of the article. This
					entity can be extended with industry or sector specific
0*	X . 1 . 1		I. D. I		information.
0*	Item details	Ass.	Item. Details		The entity contains the information of each of the items of the
					consignment, such as the material identification. This entity
01	Transformer	A = =	Transport Means. Details		can be extended with industry or sector specific information. The entity contains the identification of the means of transport
01	Transport means	Ass.	Transport Means. Details		(e.g. license plate of the lorry, wagon number, name of the
					vessel).
0*	Tax fee	Ass.	Tax Fee		The entity contains the details of the tax or fee applicable to
0	Tax ice	A55.	Tax rec		the invoice line.
01	Price	Ass.	Price. Details		The entity contains the details of the price of the invoice line.
0*	Assets or expenses account	Ass.	Accounting Account. Details		The entity contains information related to the assets or
0	Assets of expenses account	A33.	Accounting Account. Details		expenses account where to record the debit or credit
					accounting amount, the code defining the type of account (e.g.
					general, secondary, cost accounting, budget, etc.)
0*	Sales account	Ass.	Accounting Account. Details		The entity contains information related to the sales account
		1100.			where to record the debit or credit accounting amount, the
					code defining the type of account (e.g. general, secondary,
					cost accounting, budget, etc.)

Business Information Entities

Accounting account details

Description: A specific account for recording debits and credits to general accounting, cost accounting or budget accounting

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Account Identification	Att.	Identifier		The unique identifier for the accounting account in a process.
01	Account Set Trigger	Att.	Code		The code specifying the set trigger for the accounting account
					to be used in response to a specific, or set of, events.
01	Account type	Att.	Code		The code specifying the type of account such as general
					(main), secondary, cost accounting, budget account in a
					process.
01	Account Amount Identification	Att.	Code		The code specifying the amount related to the specific general
					(main), secondary, cost accounting, budget account in a
					process.

Adjustment details

Description: The entity contains the adjustment reason for the credit note, debit note or invoice.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Adjustment reason	Att.	Code		The code identifying of the adjustment reason.
0 1	Adjustment amount	Att.	Text		The amount of the adjustment.
01	Adjustment note	Att.	Text		The free text information explaining the adjustment.

Allowance and charge

Description: The entity contains the details of an allowance or charge.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Charge indicator	Att.	Indicator		Indicates if the entity is detailing a charge. If no it's detailing
					an allowance.
1	Allowance charge identification	Att.	Code		The code identifying the type of an allowance or charge.
01	Calculation sequence number	Att.	Numeric		The sequence number in which an allowance and charge
					applies relative to other allowance and charge items.
01	Allowance charge percent	Att.	Numeric		The percentage of the allowance or charge.
01	Allowance charge amount	Att.	Amount		The amount of the allowance or charge.
01	Allowance charge base quantity	Att.	Quantity		The unit of the basis value on which the allowance or charge
					percentage or amount applies (e.g. per X unit, per X ton,)
01	Prepaid charge levy indicator	Att.	Indicator		Indicates whether The charge is levied on a prepaid basis
					(true) or collected (false).
01	Allowance charge currency exchange	Ass.	Currency Exchange. Details		The exchange rate used for the conversion of the allowance or
					charge currency from a source currency.

Article details

Description: The entity contains the article identifications of the customer, supplier, manufacturer and a description of the article. This entity can be extended with industry or sector specific information as defined in the entity Additional article details.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Customer article number	Att.	Identifier		The unique number given by the customer to identify an
					article.
01	Supplier article number	Att.	Identifier		The unique number given by the supplier to identify an article
01	Manufacturer article number	Att.	Identifier		The unique number given by the manufacturer to identify an
					article
01	Article description	Att.	Text		The text describing the article.

Additional article details

Description: The entity contains the industry or sector specific additional article identifications of the customer, supplier, manufacturer and a description of the article. The content of this entity should be specified in the specific industry or sector BRS documents for the invoice.

Mult.	Business term	Rel.	Туре	BIE Name	Description

<u>Contact details</u> Description: The entity contains the details of the contact person or department.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Contact identification	Att.	Identifier		The unique identifier of a contact person or department.
01	Contact person name	Att.	Text		The name of a contact person.
01	Contact department name	Att.	Text		The name of identification of a department.
01	Telephone number	Att.	Text		The number of the telephone.
01	Direct telephone number	Att.	Text		The number of the direct telephone.
01	Mobile telephone number	Att.	Text		The number of the mobile telephone.
01	Fax number	Att.	Text		The number of the facsimile.
01	Telex number	Att.	Text		The number of the telex.
01	E-Mail address	Att.	Text		The E-Mail address.

<u>Currency exchange details</u> Description: The entity contains the details of the rate of exchange between two currencies.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Source currency	Att.	Code		The code identifying the currency from which the exchange is
					being made.
01	Unit base source currency	Att.	Numeric		The unit base of the source currency for currencies with small
					denominations.
1	Target currency	Att.	Code		The code identifying the currency to which the exchange is
					being made.
01	Unit base target currency	Att.	Numeric		The unit base of the target currency for currencies with small
					denominations.
1	Exchange rate	Att.	Numeric		The exchange rate, from the source currency to the target
					currency.
01	Exchange date time	Att.	Date Time		The date of the rate of exchange.

<u>Delivery terms</u> Description: The entity contains the details of the delivery terms and the place if relevant for the delivery terms.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Delivery terms code	Att.	Code		The code identifying the delivery terms requested by the
					customer.
01	Delivery terms	Att.	Text		The text identifying the delivery terms requested by the
					customer.
01	Delivery terms location	Ass.	Location. Details		The entity contains the location relevant to the terms of
					delivery specified.

Document reference details Description: The entity contains the identification of the references to documents, such as contract, order item, price list.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Reference number	Att.	Identifier		The unique identifier of the referenced document.
01	Reference date	Att.	Date Time		The issue date or date time of the referenced document.
01	Reference status	Att.	Code		The code giving the status of the referenced document.
01	Reference URI	Att.	Identifier		The Uniform Resource Identifier of the referenced document.
01	Reference GUID	Att.	Identifier		The Global unique identifier (GUID) of the reference
					document.
01	Copy indicator	Att.	Indicator		The indicator that the referenced document is a copy of the
					original document.
01	Reference item number	Att.	Identifier		The unique number to identify an item of the referenced
					document.
01	Reference item status	Att.	Code		The code giving the status of the item of the referenced
					document.

<u>Financial account details</u> Description: The entity contains information of the financial institution and the account holder name and number of the payee.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	IBAN number	Att.	Identifier		The international bank account number uniquely identifying
					the account number of the holder of an account.
01	Account holder number	Att.	Identifier		The account number of the holder of an account.
01	Account holder name	Att.	Text		The name of the holder of the account.
01	Institution branch name	Att.	Text		The name of the financial branch.
01	Institution name	Att.	Text		The name of the financial institution.
01	Bank identification SWIFT	Att.	Identifier		The identification of the financial institution (bank) given by
					SWIFT.
01	Alternative bank identification	Att.	Identifier		The alternative identification of the financial institution (bank)
					given by another organisation than SWIFT.

Item details

Description: The entity contains the information of each of the items of the consignment, such as the material identification. This entity can be extended with industry or sector specific information as defined in the entity Additional item details.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Supplier item identification	Att.	Identifier		The unique identification assigned by a supplier to an item.
01	Manufacturer item identification	Att.	Identifier		The unique identification assigned by the manufacturer to an
					item.

Additional item details

Description: The entity contains the industry or sector specific additional information of each of the items of the consignment, such as the material identification. The content of this entity should be specified in the specific industry or sector BRS documents for the invoice.

Mult.	Business term	Rel.	Туре	BIE Name	Description

Location

Description: The entity contains the identification of a location by its identifier and or by its name.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Location identification	Att.	Identifier		The unique number to identify a location.
01	Location description	Att.	Text		The name or description to identify a location.

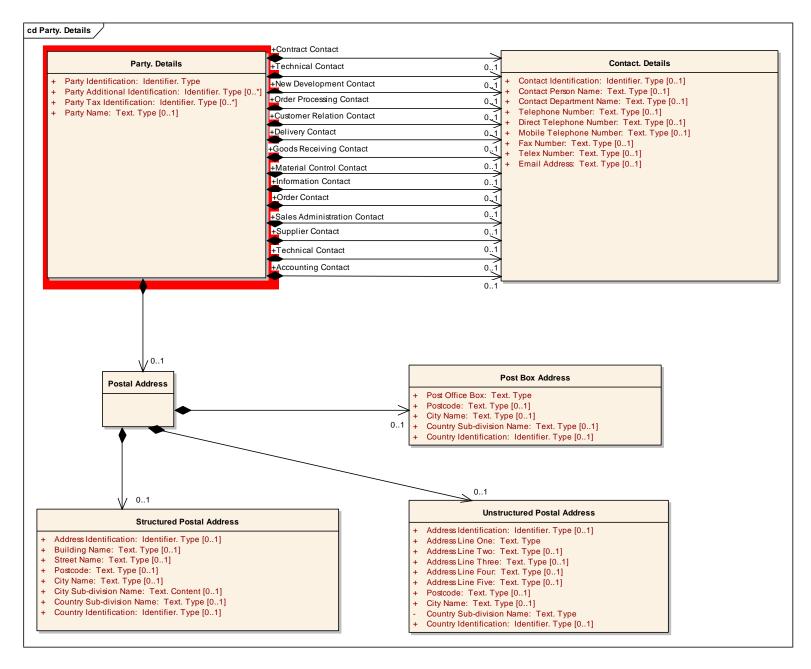


Figure 4: Party

Party details Description: The entity contains the name and the prime identification of a party.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Party identification	Att.	Identifier		The code identifying a party involved in a transaction.
0*	Party additional identification	Att.	Identifier		The additional identification of a party involved in a
					transaction.
0*	Party tax identification	Att.	Identifier		The identification of a party assigned by the tax authority.
01	Party name	Att.	Text		The name of the party involved in a transaction.
01	Postal address	Ass.	Address		The collection of information which locates and identifies a
					specific address.
01	Contract contact	Ass.	Contact. Details		The department or person to contact for matters regarding
					contracts.
01	Technical contact	Ass.	Contact. Details		The department or person to contact for matters regarding
					technical issues.
01	New development contact	Ass.	Contact. Details		The department or person to contact for matters regarding new
					developments (e.g. construction).
01	Order processing contact	Ass.	Contact. Details		The department or person responsible for the processing of
					purchase orders.
01	Customer relations contact	Ass.	Contact. Details		The department or person responsible for the customer
					relations.
01	Delivery contact	Ass.	Contact. Details		The department or person responsible for the delivery.
01	Goods receiving contact	Ass.	Contact. Details		The department or person responsible for receiving the goods
					at the place of delivery.
01	Material control contact	Ass.	Contact. Details		The department or person responsible for the
					controlling/inspection of goods.
01	Information contact	Ass.	Contact. Details		The department or person to contact for questions regarding
					transactions.
01	Order contact	Ass.	Contact. Details		The department or person to contact for questions regarding
					the order.
01	Sales administration contact	Ass.	Contact. Details		Name of the sales administration contact within a corporation.
01	Supplier contact	Ass.	Contact. Details		The department or person to be contacted at the supplier.
01	Technical documentation contact	Ass.	Contact. Details		The department or person to receive technical documentation.
01	Accounting contact	Ass.	Contact. Details		The department or person to contact for accounting matters.

Payment

Description: The entity contains the payments amount related to the payment terms.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Payment amount	Att.	Amount		The actual amount paid, or to be paid.
1	Payment due date	Att.	Date Time		The date when an amount due should be made available to the
					creditor, in accordance with the terms of payment.
01	Payment discount percent	Att.	Numeric		The percentage deductible from the total amount due if
					payment takes place within a specified period or before the
					fixed due date.

Payment instructions

Description: The entity contains the set of information describing the conditions and guarantee under which the payments will be made.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Payment conditions code	Att.	Code		The code identifying the method employed or to be employed
					in order that a payment may be made or regarded as made.
01	Payment guarantee code	Att.	Code		The code specifying the means of payment guarantee.
01	Payment means code	Att.	Code		The code specifying the means of payment.

Payment terms

Description: The entity contains the details of the payment terms and date/time basis.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Payment terms identification	Att.	Code		The identification of the terms of payment.
01	Payment terms time reference	Att.	Code		The code referencing a point in time for the calculation of the
					payment date.
1	Payment terms number of periods	Att.	Measure		The number of periods applicable to calculate from the
					payment term time reference the latest payment date.

Period details

Description: The entity contains the start date time and, or end date time of the period.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Start date	Att.	Date Time		The end date of a period.
01	End date	Att.	Date Time		The start date of a period.

Postal Address

Description: The entity contains the details of a geographical location and of a postal communication channel.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Post box address	Ass.	Post Box. Details		The entity the details of a box post.
01	Structured postal address	Ass.	Structured Address. Details		The entity contains the details of a specific address in a
					structured way.
01	Unstructured postal address	Ass.	Unstructured Address. Details		The entity contains the details of a specific address in an
					unstructured way.

<u>Post box address</u> Description: The entity contains the details of the postbox address.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Post office box	Att.	Text		The post box identifier.
01	Postcode	Att.	Text		The national postal code (ZIP code) of the address
01	City name	Att.	Text		The name of a city
01	Country sub-division name	Att.	Text		The name of a state or province in a country.
01	Country identification	Att.	Identifier		The country code specified in ISO 3166-1993 (2 alpha
					positions)

Price

Description: The entity contains the details of the price.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Net price indicator	Att.	Indicator		The indicator that the price is a net price, taken into account
					the allowances and charges.
01	Price type code	Att.	Code		The code identifying the type of price
1	Price amount	Att.	Amount		The amount of the price.
01	Price base quantity	Att.	Quantity		The basis to which the price amount applies.
0*	Price allowance charge	Ass.	Allowance Charge. Details		Allowance or charge applied to the price.
01	Validity period	Ass.	Period. Details		The time period during which the price is valid.

<u>Structured postal address details</u> Description: The entity contains the details of a specific address in a structured way.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Address identification	Att.	Identifier		The unique identification of an address based on the Duns
					(Duns & Bradstreet) number of the company followed by four
					numeric digits.
01	Building name	Att.	Text		The name of a building
01	Street name	Att.	Text		The name of a street.
01	Postcode	Att.	Text		The national postal code (ZIP code) of the address
01	City name	Att.	Text		The name of a city
01	City sub-division name	Att.	Text		The name of a sub-division of a city, for example a district or
					borough
01	Country sub-division name	Att.	Text		The name of a state or province in a country.
01	Country identification	Att.	Identifier		The country code specified in ISO 3166-1993 (2 alpha
					positions)

<u>**Tax fee**</u> Description: The entity contains the tax type and tax rate valid for the invoice line

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Calculation sequence number	Att.	Numeric		The sequence in which the tax or fee applies.
01	Tax fee category	Att.	Code		The code identifying the tax or fee category.
01	Tax fee currency	Att.	Code		The code identifying the monetary unit used for the tax or fee.
1	Tax fee qualifier	Att.	Code		The code identifying if the entity is detailing a tax or a fee.
1	Tax fee type	Att.	Code		The code identifying the type of tax or fee.
01	Tax fee rate	Att.	Numeric		The rate of tax or fee.
01	Tax fee exemption reason	Att.	Text		The text giving the reason for the exemption of duty, tax or
					fee.
01	Tax fee exemption reason code	Att.	Code		The code giving the reason for the exemption of tax or fee.
01	Tax fee jurisdiction	Att.	Text		The text giving the jurisdiction to which the tax or fee applies
					(e.g. city tax or state or country).
01	Taxable amount	Att.	Amount		The amount basis for tax or fee calculation.
01	Taxable amount allowance rate	Att.	Numeric		The rate of allowance on the taxable amount for tax or fee
					calculation.
01	Tax fee rate allowance rate	Att.	Numeric		The rate of allowance on the tax fee rate for tax or fee
					calculation.
01	Tax amount	Att.	Amount		The amount calculated for tax or fee

<u>**Tax fee totals**</u> Description: The entity contains of the invoice the tax type, tax rate, the taxable amount and the tax amount for the tax type and rate.

Mult.	Business term	Rel.	Туре	BIE Name	Description
1	Tax fee qualifier	Att.	Code		The code identifying if the entity is detailing a tax or a fee.
01	Tax fee category	Att.	Code		The code identifying the tax or fee category.
01	Tax fee type	Att.	Code		The code identifying the type of tax or fee.
01	Tax fee rate	Att.	Numeric		The rate of duty or tax or fee.
01	Taxable amount	Att.	Amount		The invoice amount subject to the identified tax fee category,
					type and rate.
01	Tax amount	Att.	Amount		The tax and fee amount for the identified tax fee category,
					type and rate.
01	Tax fee exchange rate	Ass.	Currency Exchange. Details		The exchange rate used for the conversion of the tax fee
					currency from a source currency.
0*	Invoicee tax account	Ass.	Accounting Account. Details		The entity contains information related to the tax account of
					the invoicee where to record the tax or fee accounting amount,
					the code defining the type of account (e.g. general, secondary,
					cost accounting, budget, etc.)
0*	Invoice issuer tax account	Ass.	Accounting Account. Details		The entity contains information related to the tax account of
					the invoice issuer where to record the tax or fee accounting
					amount, the code defining the type of account (e.g. general,
					secondary, cost accounting, budget, etc.)

<u>**Transport means details**</u> Description: The entity contains the identification of the means of transport (e.g. license plate of the lorry, wagon number, name of the vessel).

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Transport means type code	Att.	Code		The code specifying the means of transport.
01	Transport means type text	Att.	Text		The textual expression of the means of transport.
01	Transport means identification	Att.	Identifier		The identification of the means of transport (e.g. license plate
					of the lorry, wagon number, name of the vessel).

<u>Unstructured postal address</u> Description: The entity contains the details of a specific address in an unstructured way.

Mult.	Business term	Rel.	Туре	BIE Name	Description
01	Address identification	Att.	Identifier		The unique identification of an address based on the Duns
					(Duns & Bradstreet) number of the company followed by four
					numeric digits.
1	Address line one	Att.	Text		The first line of the address.
01	Address line two	Att.	Text		The second line of the address.
01	Address line three	Att.	Text		The third line of the address.
01	Address line four	Att.	Text		The fourth line of the address.
01	Address line five	Att.	Text		The fifth line of the address.
01	Postcode	Att.	Text		The national postal code (ZIP code) of the address
01	City name	Att.	Text		The name of a city
01	Country sub-division name	Att.	Text		The name of a state or province in a country.
01	Country identification	Att.	Identifier		The country code specified in ISO 3166-1993 (2 alpha
					positions)

Business rules

In Trade, the Invoice (message) is used to request payment for goods or services that have been ordered or received or consumed. In practice, there are currently different ways in which goods or services can be invoiced. For instance, the normal invoicing way (supplier initiated invoice) and the Self-billing way, also known as payment on receipt.

Normal Invoicing (Traditional supplier initiated invoice)

Normal invoicing is where the supplier invoices the customer when the goods are delivered, or the services provided. In this case, the invoice can be created at the time of despatch or when the customer or a third party gives an acknowledgement to the supplier that the goods have been received.

When there are discrepancies between the despatch advice, the invoice and the goods actually received, or rejection of goods for quality reasons, the customer will either request a credit note from the supplier, or issue his own debit note, before paying the invoice. A credit note or debit note may also be issued in the case of retrospective price change.

Self-billing (Payment on receipt)

The second way of invoicing is self-billing, a process whereby a customer "invoices" or "bills" himself, in the name and on behalf of his supplier, and provides the supplier with a copy of the self-billed invoice. Where a customer knows what was ordered from a specific supplier, what prices were agreed and what was actually delivered, there is no real business need for an invoice to be issued by the supplier, before paying what is due.

There are, however, some very basic recommendations which need to be fulfilled before self-billing can be implemented, since the legal provisions for this method of invoicing do vary from country to country. Some countries are very flexible and encourage self-billing. In other countries, self-billing is only allowed with specific restrictions and in other countries, self-billing is not allowed at all. Some countries do not allow self-billing, but do allow "pre-notice", where the customer informs the supplier about what the invoice should contain, and the supplier prepares his invoice accordingly. The shift from normal invoicing to self-billing will be increasingly more evident, as countries drop their local and cross-border restrictions – for example, in the European Union, the introduction of the EC Directive on Invoicing (operative from 1 January 2004) now provides for the use of self-billing, in all Member States, both for domestic and Intra-EU trading.

Under self-billing arrangements, it is mandatory that the customer receives a despatch advice or a delivery note, giving details of the shipment, to advise him about the goods being despatched. After detailed checks for quantity and quality, an advice of discrepancies may be sent by the recipient of the goods to the sender of the despatch advice or delivery note. Only goods accepted by the customer are invoiced and if the supplier finds that the self-billed invoice that he has received is incorrect, e.g. wrong quantities, wrong prices, or if the goods have not been invoiced at all, he may send a claim for non-invoiced goods to the customer. The customer will then verify whether the claim is accepted or not and consequently issue a self-billed invoice, a credit note or a debit note. In the case of a retrospective price change, which was not included in the original self-billed invoice, a retroactive self-billing credit note or debit note may be issued.

The business functions covered by the invoice

The Invoice is intended to cover the following functions:

For normal invoicing (Traditional supplier initiated invoice)

- to invoice the goods or services based on one delivery
- to generate a pro-forma invoice for customs purposes
- to generate a pre-invoice before the delivery of the goods or services
- to generate a consolidated invoice covering several deliveries made in a predefined time frame
- to generate a credit note to cancel a previously sent invoice
- to generate all kinds of credit notes, for example to settle claims for damaged goods, wrong deliveries, invoice errors, price changes, etc...
- to enable automated creation of accounting double entry at each partner bookkeeping system

Self-billing (Payment on receipt)

- to self-bill the goods or services based on the receipt or on the consumption during a certain period of time
- to generate all kind of credit notes or self-billing invoices, for example to settle claims for damaged goods, wrong deliveries, invoice error, price changes, etc...
- to enable automated creation of accounting double entry at each partner bookkeeping system

Definition of terms

5.8.1 <u>Parties and party roles</u>

Terms	Definition
Customer	The customer is the person or organization who owns the products after successful completion of the transaction. The following roles can be found in a customer company: buyer, consignee, invoicee, VAT representative.
Buyer	The buyer is the person or organization acting on behalf of the customer and who buys or purchases the goods or services.
Consignee	The consignee is the person or organization to which the products will be shipped and who is taking possession.
Invoicee	The invoice is the person or organization who will receive the invoice for the delivery of products or services.
Tax representative	The tax representative is the person or organization who is liable to pay the tax on behalf of the supplier or customer.
Supplier	The supplier is the person or organization who has owns of the products, and consigns or makes them available in trade. The following roles can be found in a supplier company: seller, consignor, invoice issuer, VAT representative.
Seller	The seller is the person or organization acting on behalf of the supplier and who sells goods or services to the customer.
Consignor	The consignor is the person or organization who provides (despatch) the goods or services on behalf of the supplier.
Manufacturer	The manufacturer is the person or organization who makes the products (not to imply a party who simply provides packaging of the product)
Invoice issuer	The invoice issuer is the person or organization making the invoice, claiming payment for the goods or services rendered to the customer.
Payee	The payee is the person or organization to whom a payment should be or is made.
Customer accountant	The customer accountant is the person or organization in charge of bookkeeping of the customer.
Supplier accountant	The supplier accountant is the person or organization in charge of bookkeeping of the supplier.