National IT and Telecom Agency

Ministry of Science
Technology and Innovation

OIOUBL Scenario description

OIOUBL Advanced Ordering Procurement Cycle
Scenario Package: ADVORD
Version 1.1
UBL 2.0

Offentlig Information Online

OIOUBL

Universal Business Language

Document History

Revision History

Revision Number	Revision Date	Summary of Changes	Author	Changes marked
WD 0.1	06. April 2006	Working Draft 1	FC	No
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Contents

1. Introduction

This document describes business scenarios related to the OIOUBL Advanced Ordering Procurement Cycle package based on UBL 2.0 business documents. The document is one from among six documents describing other procurement cycles. Please refer to ref. no. 2 for an overview of these documents and a general introduction to OIOUBL Procurement Scenarios.

For an overview of the OIOUBL package, refer to ref. no. 1, and for the UBL 2.0 specification refer to ref. no. 5.

1.1 Purpose and target audience

The purpose of this document is to facilitate the use of UBL 2.0 in procurement in Denmark by providing **descriptions** of typical OIOUBL business scenarios. For a **normative specification** of OIOUBL refer to the OIOUBL Guidelines (Ref. 4) and the OASIS Universal Business Language 2.0 specification (Ref. 5).

The main focus is on public procurement but the specifications could be used also in the private sector.

We have focused on how to use UBL to optimize the procurement process with a small set of electronic documents. The audience is particular technical and domain specialists responsible for implementing e-procurement, developers and project leaders responsible for implementing ERP-systems, Workflow-systems and other related systems on the Danish market.

It is our humble hope that the scenario descriptions in this document can be an inspiration for UBL users in all countries and in this way facilitate the adoption of UBL worldwide.

1.2 Key to using this document

The scenario package description is divided into the following logical sections:

- General introduction
- A definition of the OIOUBL Advanced Ordering Procurement Cycle
- A number of related scenario descriptions (Use Cases) including example XML instance files
- Description of selected internal processes and eBusiness benefits

Chapter 2.3 contains a list of the business scenarios covered in this document.

When talking business scenarios it is important to distinguish between external and internal processes. The external processes describe how the eBusiness documents flow between the different external parties, while the internal processes describe how a given organization or company handles these external documents. Normally the external documents trigger (or should trigger) one or more internal procedures and the content of the external documents become vital to these procedures.

Business processes (or activities) are classified the following way throughout the document:

- Primary activities (external processes inside the defined scope)
- Secondary activities (external processes outside the defined scope and internal processes)

Primary activities are generic in their nature and will be described as such. These activities are the main focus of this document. However selected internal processes will be discussed based on our observations.

The example sections are provided as a help to speed up the implementation process and in order to minimize implementation errors and misinterpretation of document instances.

1.3 Prerequisites

It is assumed that the reader is familiar with the following:

- The UBL 2.0 party concept (Ref. no. 5)

- The OIOUBL profile specification (Ref. no. 3)

- The OIOUBL scenario classification (Ref. no. 2)

1.4 References

Ref no	Document id	Version	Title
1	I01	V1.1	OIOUBL package overview
2	S01	V1.1	Introduction to OIOUBL Procurement Scenarios
3	G26	V1.1	OIOUBL Profile specification
4	I01	V1.1	Introduction to OIOUBL Guidelines
5		V1.0	OASIS Universal Business Language 2.0 specification

2. OIOUBL Advanced Ordering Procurement Cycle definition

2.1 Scope

The OIOUBL Advanced Ordering Procurement Cycle covers issues not covered in the Basic Ordering Procurement Cycle document. Issues such as:

- Textual based ordering
- Notify orders
- Seller initiated ordering
- Forecasting
- Ordering based on contracts

This document describes the different ways in which this can be achieved by utilizing the UBL 2.0 framework. The following issues are covered:

- The business parties involved
- The involved business processes and their interrelationships
- The business documents that are to be exchanged
- The business rules that apply to content and structure of these business documents

2.2 The usage of OIOUBL profiles

As described in Ref. 2 + 3, OIOUBL handles the different levels of complexity by a set of different **profiles**.

OIOUBL profiles make it possible for business parties to agree on different implementation levels of the UBL 2.0 model, and thereby make it possible to start at a basic level, and maybe later extend to a more advanced level.

Business parties capable of using OIOUBL should register the profiles they support in a common registry, in order to minimize the need for signing mutually trade agreements.

Profiles are identified with a unique ID in every instance of the business documents, and by providing a given ID, the business party commits itself to follow the rules and flow of documents as specified for that profile ID.

An OIOUBL profile is made up of one or more business processes which are reused (building bricks) in the different profiles. The business processes are structured into four levels:

Process level	Description	UBL usage
Basic	Basic level processes	Basic UBL usage
Simple	Entry level processes	Simple UBL usage
Extended	Next level of business processes	Limited UBL usage
Advanced	Top level of business processes	Full UBL usage

The OIOUBL Advanced Ordering Procurement Cycle uses the following OIOUBL profiles:

Scenario title	Profile
Seller initiated order	SellerInitiatedOrderingToBillingSimple
Forecasting	SellerInitiatedOrderingToBillingSimple
Contract-based procurement	OrderingAdvancedToBillingSimple
Text based ordering	OrderingAdvancedToBillingSimple
Settlement of a loan	SellerInitiatedOrderingToBillingSimple

Using those profiles, actors are limited to Customer and Supplier with the following roles[1]:

- Buyer Customer Party
- Seller Supplier Party
- Accounting Customer Party
- Accounting Supplier Party

The involved business documents are limited to:

- Order
- Order Response Simple
- Order Response
- Order Change
- Order cancellation
- Invoice
- Credit Note
- Reminder
- Application Response

In the following two pictures the overall business processes is shown for the used profiles:

---

[1] One role corresponds to a UBL 2.0 Party Term, se Ref. 4 + 5 for more info.
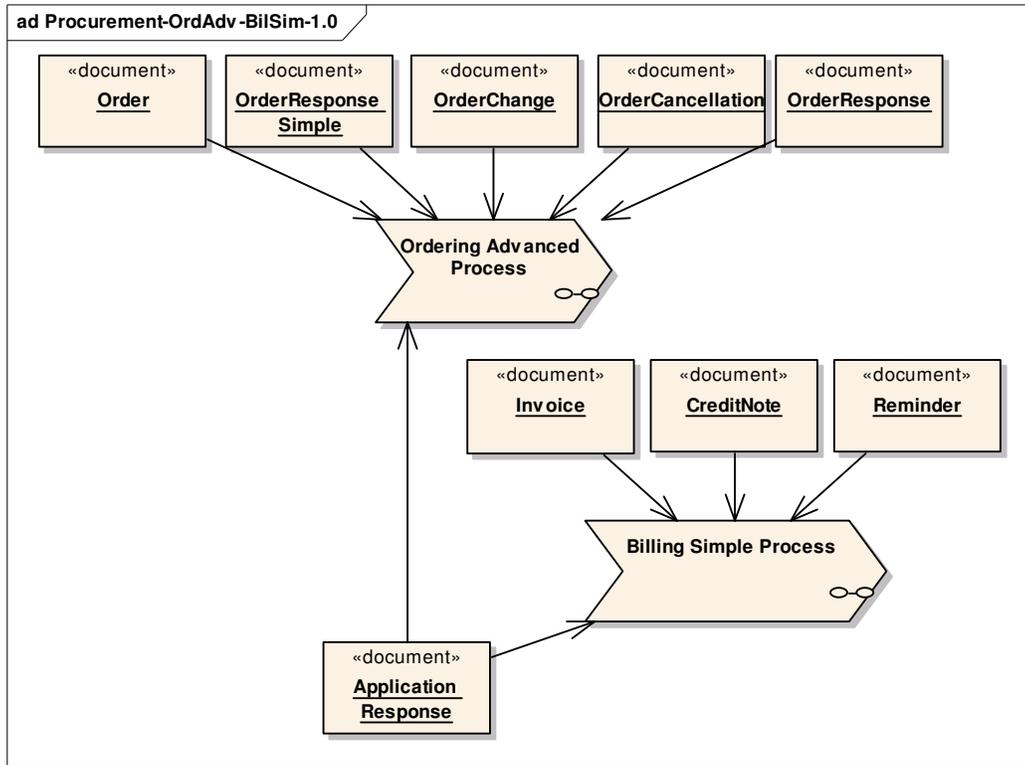
Figure 1, OrderingAdvancedToBillingSimple
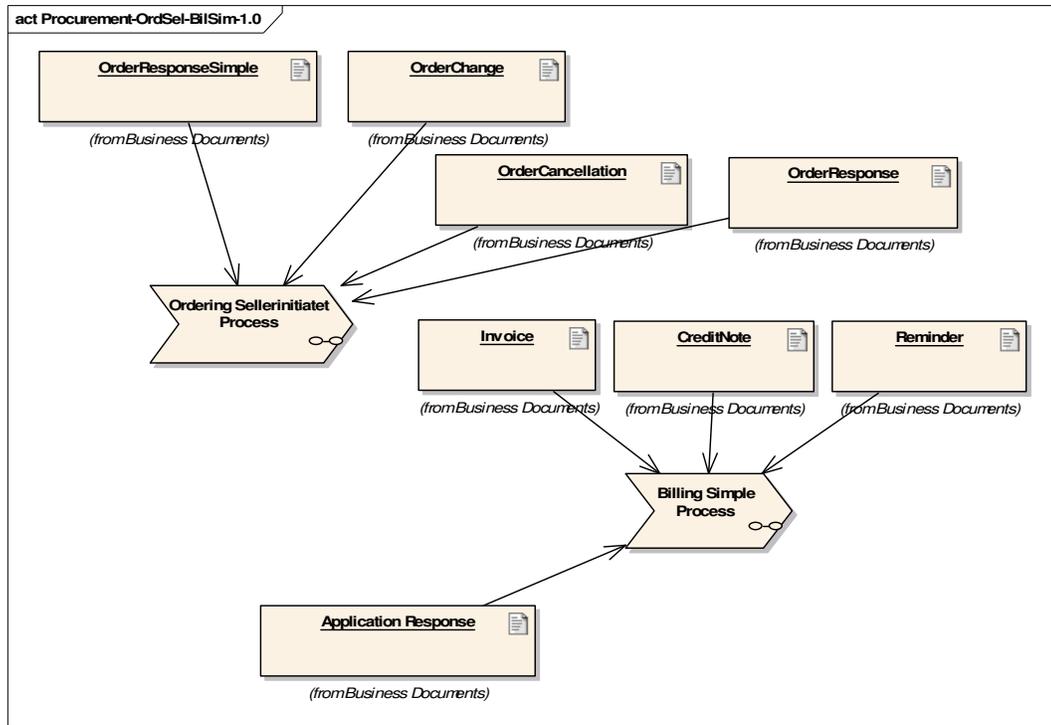
Figure 2, SellerInitiatedOrderingToBillingSimple

The profiles contain the following business processes:

Business process	Comments
OrderingAdvancedR (with response)	The OIOUBL Advanced Procurement Cycle requires that an OrderResponseSimple always is returned from the Supplier, which means that the OrderingAdvancedR process is used
SellerInitiatedOrdering	Both with and without response
BillingSimple	The basic invoicing process

The following three pictures show the different processes in more detail.

act Ordering Advanced With Response Process

BuyerCustomerParty

SellerSupplierParty

Start
Order
Process

Create Order

Order

Process Order

Accept or
Reject Order

[Reject]

[Accept]

[Propose
Change]

Processing Order

[Accept]

Order
Accepted

[Accept]

Accept or
Reject Order
Response
Simple

**Create
OrderResponseSimple**

Accepted
Order

**Process
OrderResponseSimple**

OrderResponseSimple

[Reject]

Process OrderResponse

OrderResponse

Create OrderResponse

Accept or
Reject
OrderRe[Accept]

Create OrderChange

OrderChange

Process OrderChange

[Reject]

Create OrderCancellation

OrderCancellation

Order Cancelled

Order Cancelled

Figure 3, The OrderingAdvanced process.

act Ordering Sellerinitiatet Process

BuyerCustomerParty | SellerSupplierParty

Start Order Process

Accept or Reject Order

[Reject]

[Accept]

[Propose Change]

Processing Order

Accepted Order

Create OrderResponseSimple

Process OrderResponseSimple

OrderResponseSimple

(fromBusiness Documents)

Process OrderResponse

OrderResponse

(fromBusiness Documents)

Create OrderResponse

Accept or Reject OrderResponse

[Accept]

[Reject]

Create OrderChange

OrderChange

(fromBusiness Documents)

Process OrderChange

Create OrderCancellation

OrderCancellation

(fromBusiness Documents)

Order Cancelled

Order Cancelled

Figure 4, The SellerInitiatedOrdering process.
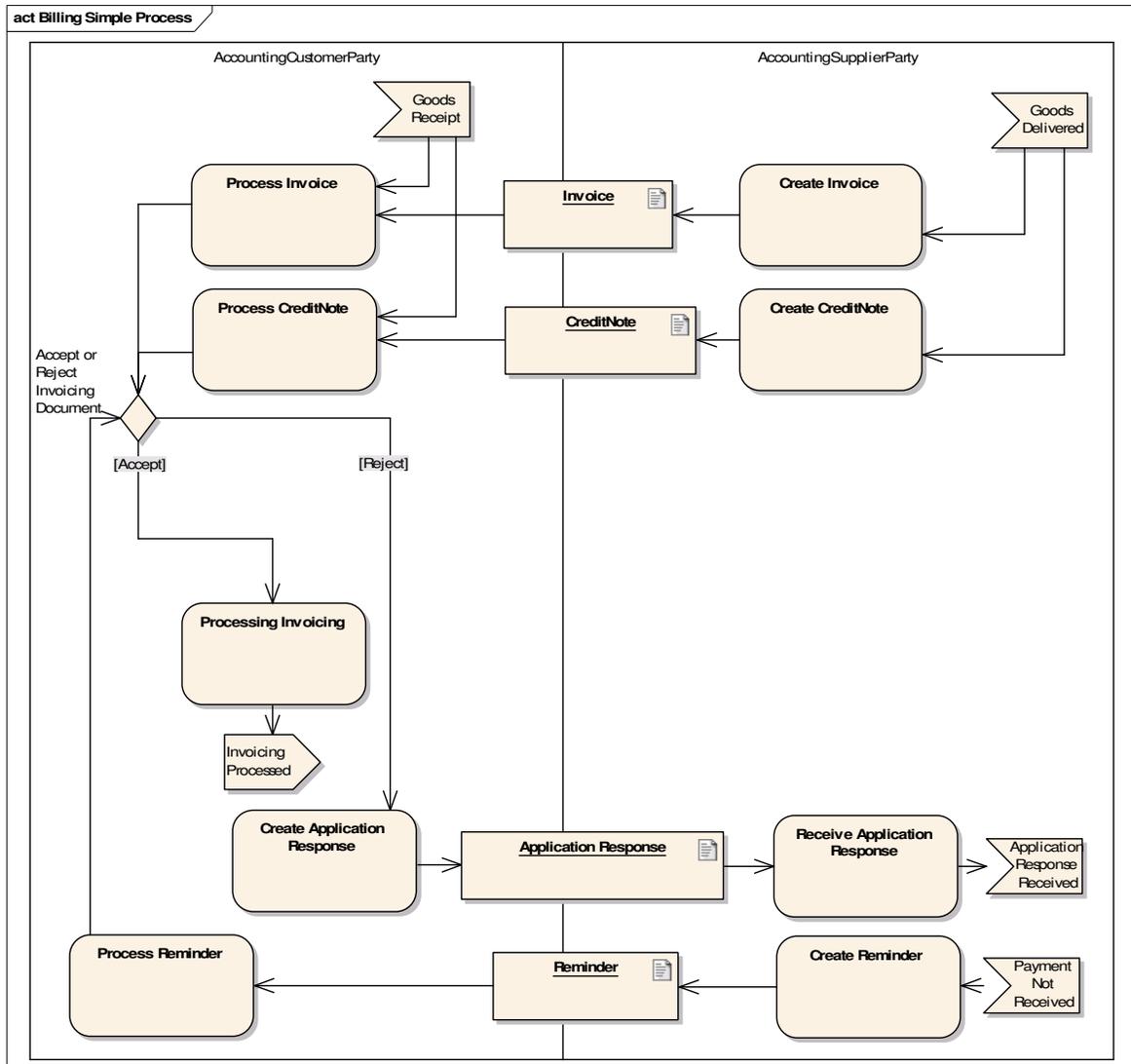
Figure 5, The BillingSimple process.

2.3 Covered Scenarios

For the Advanced Ordering Procurement Cycle a number of different scenarios (use cases) are defined and described into more detail. A scenario reflects a fixed set of characteristics inside the defined scope. The following scenarios are described in this document:

Chapter	Scenario title	Description
3	Seller initiated order	The happy day scenario
4	Forecasting	The happy day scenario
5	Contract-based procurement	The happy day scenario
6	Text based ordering	The happy day scenario
7	Text based ordering (cancellation)	Cancellation
8	Settlement of a loan	The happy day scenario

3. Seller initiated order

3.1 Scenario Summary

This scenario describes the simple case of a seller initiated order placed at a small day-care institution.

The process is initiated by a visit at the day-care of the salesman from the company selling toys. He presents a number of different items for the leader of the day-care resulting in a verbal agreement on what to order.

The day-care institution is an example of small organization with only one department. The institution is identified by a unique GLN number.

Only the Happy Day variant is described.

3.2 Scenario Characteristics

The scenario characteristics for this particularly scenario can be listed as:

- One Order Response – One Order Change – One delivery – One Invoice
- No Order document is used
- The Buyer Customer Party gives only a verbal agreement on what to order
- The Seller Supplier Party notifies what to order and prepares all the details
- The Seller Supplier Party creates an Order Response
- The Buyer Customer Party accepts the order by returning an accepting Order Change
- The Buyer Customer Party organization is small (one department)
- No need for Delivery Customer Party
- Buyer Customer Party becomes the Accounting Customer Party and Seller Supplier Party becomes the Accounting Supplier Party when invoicing
- The order is initiated by the Seller Supplier Party
- The parties are capable of exchanging XML document instances (using their network provider)
- The trade items are standard items identified by an item identification number
- The Invoice is sent to the Accounting Customer Party at the point of time where the goods are delivered
- This is the happy day scenario

3.3 Scenario Context

The context of this scenario does not include the following:

- Sourcing
- Fulfillment
- Payment

3.3.1 Document usage

The involved business documents are the following:

- Order Response
- Order Change
- Optional: Order Response Simple
- Invoice

3.3.2 Customer parties

The following examples of customer related business parties will be used throughout the rest of this scenario description:

Buyer Customer Party and Accounting Customer Party:

    Myretuen

    Att. Lise Hansen

    Fredericiavej 10

    3000 Helsingør

    GLN: 5798000416604 (EndPoint ID)

    GLN: 5798000417777

    SE: 16356709

This is an example of a minor day-care institution (a small public organization) with only one department involved in the procurement process. The day-care uses an ERP system which is capable of receiving and sending electronic documents.

3.3.3 Supplier parties

The following examples of supplier related business parties will be used throughout the rest of this scenario description:

Seller Supplier Party and Accounting Supplier Party:

    Krea Toys

    Att. Hugo Jensen

    Leverandørvej 11

    2870 Dyssegård

    CVR: 16356706

This is an example of a private company with only one department involved in the procurement process. The company uses an ERP system which is capable of receiving and sending electronic documents.

3.4 Scenario Activity Diagram

The scenario diagram provided shows the flow of activities and usage of document instances of the involved parties. Secondary activities are shown with a dashed borderline.
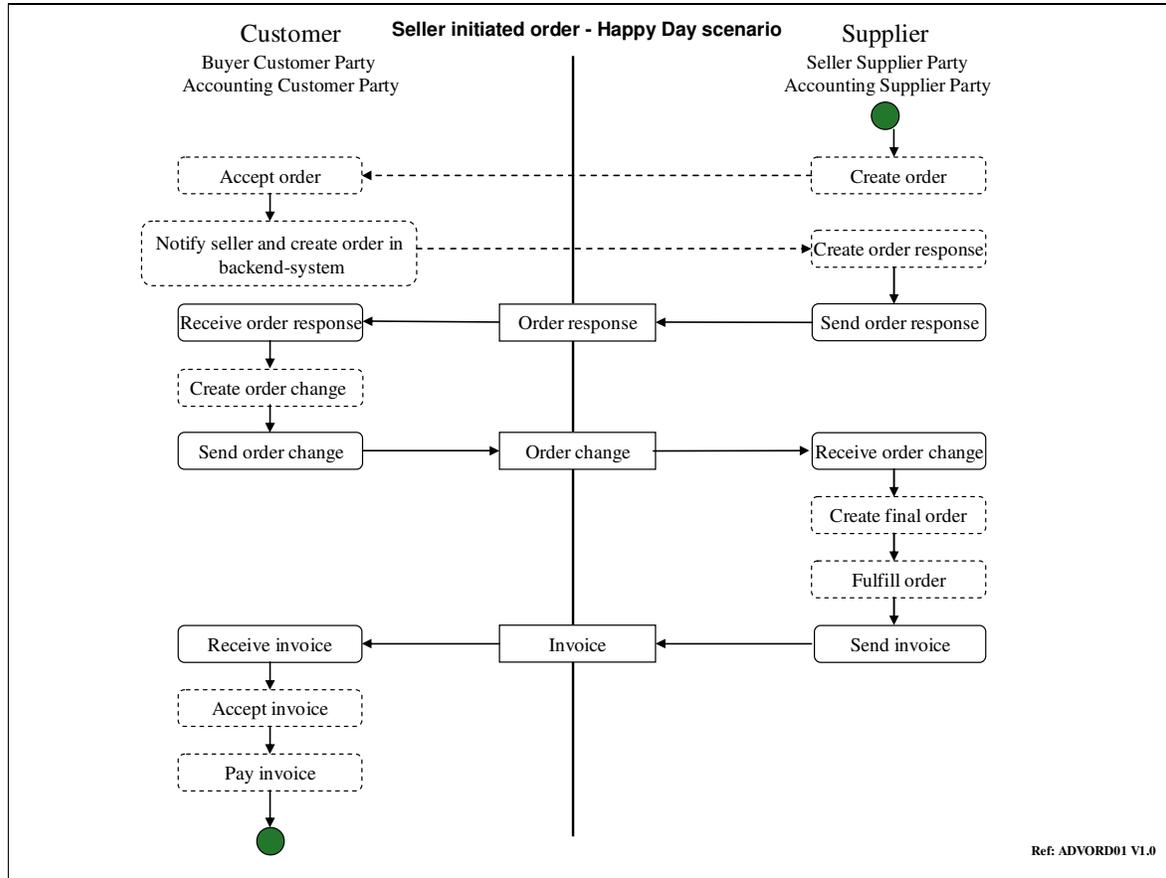
Figure 6

3.5 Detailed description of primary activities

Below you will find a description of each of the primary activities shown in the activity diagram (figure 6). A primary activity is an activity that is inside the scope of the scenario description and also considered external (not an internal process).

3.5.1 Send order response

The order response is the initiating electronic business document instance in this scenario. The Seller Supplier Party has prepared the order response based on the meeting with the Buyer Customer Party, and insures that all the key Business Information Identities are provided such as:

- Code for accepting the whole order
- Buyer Customer Party's Order Number
- Contact Reference at Buyer Customer Party
- EndPointID of the Buyer Customer Party's Organization
- GLN Number of the Buyer Customer Party's Organization
- Legal entity of the Buyer Customer Party's Organization
- ID of Seller Supplier Party's Organization
- Item Number of the ordered item(s) known to the Seller Supplier Party

3.5.2 Receive order response

The Buyer Customer Party receives the Order Response electronically via its network provider. This process can be more or less automated. The Buyer Customer Party should check the following:

- Whether the order is accepted or not
- That the referenced items are the ones that where agreed
- That the correct order number is referenced

In this scenario there will always be match.

3.5.3 Send order change

The Buyer Customer Party returns an accepting Order Change to the Seller Supplier Party.

3.5.4 Receive order change

The Seller Supplier Party receives the accepting Order Change electronically via its network provider. At this point the final OrderResponseSimple and the salesorder is created at the Seller Supplier Party.

3.5.5 Send order response simple

As an option, the Seller Supplier Party could return an accepting Order Response Simple to the Buyer Customer Party.

3.5.6 Receive order response simple

The Buyer Customer Party receives the accepting Order Response Simple electronically via its network provider. At this point the final order is created at the Buyer Customer Party. Observe that this is an option.

3.5.7 Send invoice

The Accounting Supplier Party produces one instance of the Invoice document and sends it to the Accounting Customer Party. In this scenario the invoice is sent by the time the items are delivered. The Invoice must contain a number of key Business Information Identities:

- Buyer Customer Party's Order Number
- Contact Reference at Buyer Customer Party
- EndPointID of the Buyer Customer Party's Organization
- GLN Number of the Accounting Customer Party's Organization
- Legal entity of the Accounting Customer Party's Organization
- ID of Accounting Supplier Party's Organization

3.5.8 Receive invoice

The Accounting Customer Party receives the Invoice electronically via its network provider. This process can be more or less automated.

3.6 Internal processes and eBusiness benefits

The benefits of eBusiness relates directly to the degree of correlation between the external and the internal processes within a given organization. The purpose of this chapter is to highlight and describe the possible benefits that can be achieved by incorporating the electronic document flow into the organization's internal processes.

3.6.1 Buyer Customer Party

3.6.1.1 Accept order

The Buyer Customer Party gives a verbal accept.

3.6.1.2 Notify seller and create order in backend system

In order to facilitate an automated procurement process, the Buyer Customer Party needs to create an "open" order in their backend system, and to notify the Seller Supplier Party about the specific order number.

3.6.1.3 Create order change

An accepting Order Change document instance is created.

3.6.2 Accounting Customer Party

3.6.2.1 Accept invoice

The Accounting Customer Party facilitates the process of invoice matching.

3.6.2.2 Pay invoice

The invoice is paid.

3.6.3 Seller Supplier Party and Accounting Supplier Party

3.6.3.1 Create order

At the visit at the Buyer Customer Party the Seller Supplier Party takes notes on what to order.

3.6.3.2 Create order response

An accepting Order Response document instance is created.

3.6.3.3 Create final order

When the Seller Supplier Party has received the accepting Order Change document instance, the final OrderResponseSimple (optional) and the salesorder can be created.

3.6.3.4 Fulfill order

The order is fulfilled.

3.7 Examples

The XML example instance documents are provided as standalone XML files outside this document.

3.7.1 Example 3.1

Lise Hansen who is employed at a small day-care institution wants to buy some toys. This means that the following steps are performed:

1. Lise invites the salesman – Hugo Jensen – from the company called Krea Toys to a sales meeting.

2. Hugo demonstrates some toys and Lise gives a verbal accept on what to order.

3. Later Hugo recognizes that they have the items in stock and sends an accepting order response to the day-care institution.

4. Lise verifies the order based on the order response and returns an accepting order change.

5. The supplier delivers the toys.

6. Lise receives the toys, finds the matching order and approves the delivery.

7. The day after the day-care receives an electronic invoice with attention to Lise.

8. Lise matches it with the order and approves it.

9. The invoice is ready for payment.

In the following tables you will find the business objects that are considered important to this example.

OrderResponse:

ADVORD_01_01_00_OrderResponse_v2p1.xml

3.7.1.1 OrderResponse

Class	Field	Attribute	Value	Note[2]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095678	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	

2

		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Krea Toys	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		11	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Krea Toys	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		9876	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		Hugo@kt.dk	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				

	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	

Class	Field	Attribute	Value	Note
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	
OrderLine				
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
Item				
	Description		Fine toy	
	Name		Fine toy	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	

OrderChange:

ADVORD_01_01_00_OrderChange_v2p1.xml

3.7.1.2 OrderChange

Class	Field	Attribute	Value	Note[3]

---

[3]

	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095679	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B2	
	IssueDate		2006-04-10	
	SequenceNumberID		01	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	

		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Krea Toys	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		11	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Krea Toys	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				

	ID		9876	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		Hugo@kt.dk	
AccountingCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
Delivery				

RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
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		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
AnticipatedMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	
OrderLine				
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
Item				

	Description		Fine toy	
	Name		Fine toy	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	

Invoice:

ADVORD_01_01_00_Invoice_v2p1.xml

3.7.1.3 Invoice

Class	Field	Attribute	Value	Note[4]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095678	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B3	
	IssueDate		2006-04-10	
	InvoiceTypeCode		380	
		listAgencyID	320	
		listID	urn:oioubl:codelist:invoicetypecode-1.1	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
AccountingSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Krea Toys	
PostalAddress				
	AddressFormatCode		StructuredDK	

---

[4]

		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		11	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Krea Toys	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		9876	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		Hugo@kt.dk	
AccountingCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	

	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
Delivery				
	ActualDeliveryDate		2006-04-15	
PaymentMeans				
	ID		1	
	PaymentMeansCode		42	
	PaymentDueDate		2006-04-25	
	PaymentChannelCode		DK:BANK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:paymentchannelcode-1.1	
PayeeFinancialAccount				
	ID		0005704966	
	PaymentNote		A00095678	
FinancialInstitutionBranch				
	ID		9544	
PaymentTerms				
	ID		1	
	PaymentMeansID		1	
	Amount		6250.00	
		currencyID	DKK	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				

	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	

3.7.1.4 InvoiceLine

Class	Field	Attribute	Value	Note
	ID		1	
	InvoicedQuantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
OrderLineReference				
	LineID		1	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				

	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
Item				
	Description		Fine toy	
	Name		Fine toy	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	

The corresponding example instance files are provided as:

- ADVORD_01_01_00_OrderResponse_v2p1.xml
- ADVORD_01_01_00_OrderChange_v2p1.xml
- ADVORD_01_01_00_Invoice_v2p1.xml

4. Forecasting

4.1 Scenario Summary

This scenario describes a simple case of forecasting. As a precondition it is assumed that a framework agreement between seller and buyer is in place. It is agreed that the seller should deliver diapers to a nursery on a quarterly basis the next two years based on actual consumption.

The seller makes a proposal on what to deliver each quarter based on experience with previous deliveries and other relevant parameters.

The proposal needs to be approved by the nursery and possible adjusted before it can be executed as an order.

The nursery is an example of small organization with only one department. The institution is identified by a unique GLN number.

Only the Happy Day variant is described.

4.2 Scenario Characteristics

The scenario characteristics for this particularly scenario can be listed as:

- One Order Response – One Order Change – One Order Response Simple – One delivery – One Invoice
- The order is initiated by the Seller Supplier Party and no Order document is used
- The Seller Supplier Party proposes and order based on experience with previous deliveries and other relevant parameters
- The Seller Supplier Party creates an Order Response reflecting the proposal
- The Buyer Customer Party verifies the Order Response and in this scenario adjusts the quantity on some of the items
- The Buyer Customer Party then accepts the order by returning an accepting Order Change
- The Seller Supplier Party returns an Order Response Simple as accept
- The Buyer Customer Party organization is small (one department)
- No need for Delivery Customer Party
- Buyer Customer Party becomes the Accounting Customer Party and Seller Supplier Party becomes the Accounting Supplier Party when invoicing
- The parties are capable of exchanging XML document instances (using their network provider)
- The trade items are standard items identified by an item identification number
- The Invoice is sent to the Accounting Customer Party at the point of time where the goods are delivered
- This is the happy day scenario

4.3 Scenario Context

The context of this scenario does not include the following:

- Sourcing
- Fulfillment
- Payment

4.3.1 Document usage

The involved business documents are the following:

- Order Response
- Order Change
- Order Response Simple
- Invoice

4.3.2 Customer parties

The following examples of customer related business parties will be used throughout the rest of this scenario description:

Buyer Customer Party and Accounting Customer Party:

    Myretuen

    Att. Lise Hansen

    Fredericiavej 10

    3000 Helsingør

    GLN: 5798000416604 (EndPoint ID)

    GLN: 5798000417777

    SE: 16356709

This is an example of a minor nursery institution (a small public organization) with only one department involved in the procurement process. The nursery uses an ERP system which is capable of receiving and sending electronic documents.

4.3.3 Supplier parties

The following examples of supplier related business parties will be used throughout the rest of this scenario description:

Seller Supplier Party and Accounting Supplier Party:

    Super Soft A/S

    Att. Hugo Jensen

    Leverandørvej 11

    2870 Dyssegård

    CVR: 16356706

This is an example of a private company with only one department involved in the procurement process. The company uses an ERP system which is capable of receiving and sending electronic documents.

4.4 Scenario Activity Diagram

The scenario diagram provided shows the flow of activities and usage of document instances of the involved parties. Secondary activities are shown with a dashed borderline.
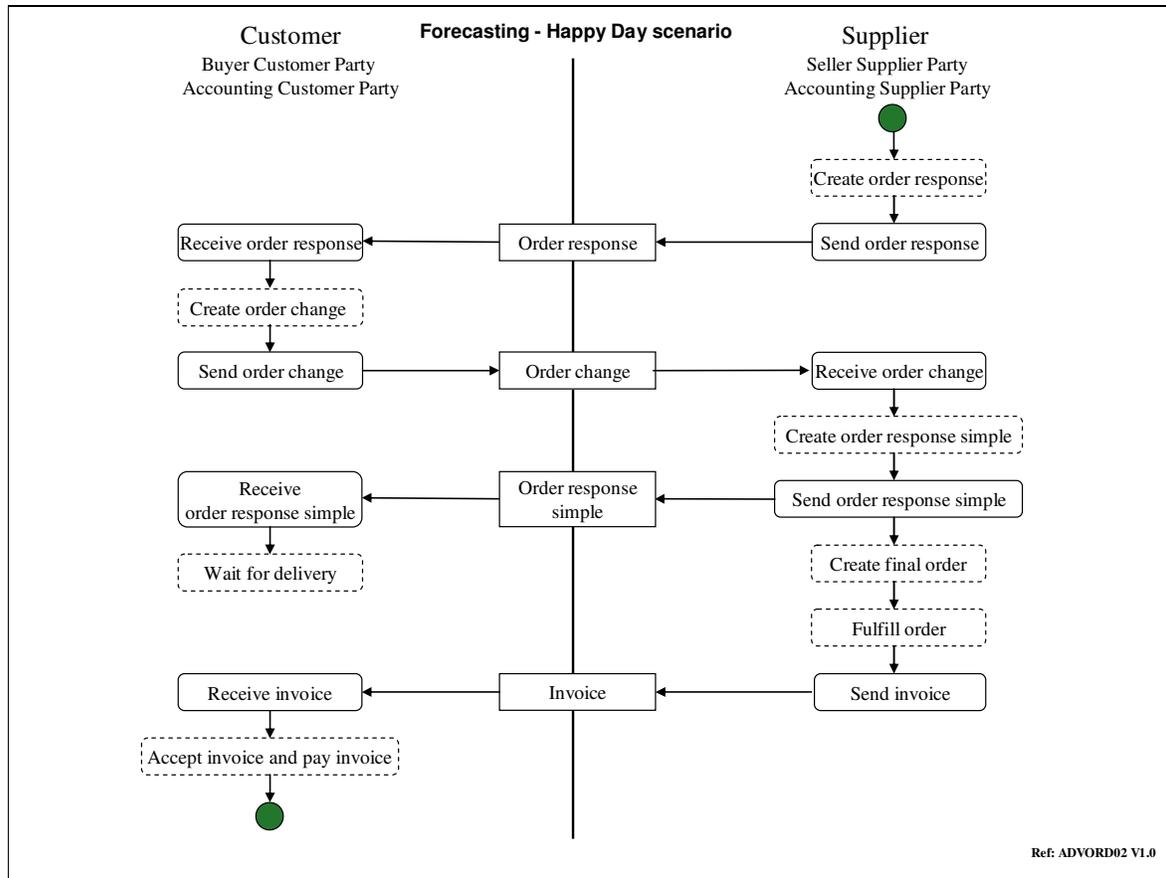
Figure 7

4.5 Detailed description of primary activities

Below you will find a description of each of the primary activities shown in the activity diagram (figure 7). A primary activity is an activity that is inside the scope of this scenario description and also considered external (not an internal process).

4.5.1 Send order response

The order response is the initiating electronic business document instance in this scenario. The Seller Supplier Party has prepared the order response based on forecasting, and insures that all the key Business Information Identities are provided such as:

- Code for accepting the whole order

- Buyer Customer Party's Order Number

- Contact Reference at Buyer Customer Party

- EndPointID of the Buyer Customer Party's Organization

- GLN Number of the Buyer Customer Party's Organization

- Legal entity of the Buyer Customer Party's Organization

- ID of Seller Supplier Party's Organization

- Item Number of the ordered item(s) known to the Seller Supplier Party

4.5.2 Receive order response

The Buyer Customer Party receives the Order Response electronically via its network provider. This process can be more or less automated. The Buyer Customer Party should check the following:

- Whether the order is accepted or not

- That the proposed items and quantities are appropriate

- That the correct order number is referenced

In this scenario the Buyer Customer Party decides to adjust the quantities for some of the items.

4.5.3 Send order change

The Buyer Customer Party returns an accepting Order Change to the Seller Supplier Party (containing the adjustments).

4.5.4 Receive order change

The Seller Supplier Party receives the accepting Order Change electronically via its network provider. He accepts the changes.

4.5.5 Send order response simple

The Seller Supplier Party returns an Order Response Simple as accept. Observe that this is not mandatory as it depends on using an OIOUBL profile with or without response. At this point the final sales order is created at the Seller Supplier Party.

4.5.6 Receive order response simple

The Buyer Customer Party receives the Order Response Simple electronically via its network provider. This process can be more or less automated. The Buyer Customer Party should check whether the order is accepted and if the correct order is referenced. In this scenario there will always be match.

4.6 Internal processes and eBusiness benefits

The benefits of eBusiness relates directly to the degree of correlation between the external and the internal processes within a given organization. The purpose of this chapter is to highlight and describe the possible benefits that can be achieved by incorporating the electronic document flow into your internal processes.

4.6.1 Buyer Customer Party

4.6.1.1 Create order change
An accepting Order Change document instance is created based on the received Order Response. However in this scenario the Buyer Customer Party decides to adjust the quantities for some of the items.

4.6.1.2 Wait for delivery
Wait for delivery.

4.6.2 Accounting Customer Party

4.6.2.1 Accept invoice and pay invoice
The Accounting Customer Party facilitates the process of invoice matching and the invoice is paid.

4.6.3 Seller Supplier Party

4.6.3.1 Create order response
An accepting Order Response document instance is created based on the forecasting.

4.6.3.2 Create order response simple
An accepting Order Response Simple document instance is created.

4.6.3.3 Create final order
When the Seller Supplier Party has sent the accepting Order Response Simple document instance, the final order can be created.

4.6.3.4 Fulfill order
The order is fulfilled.

4.7 Examples
The XML example instance documents are provided as standalone XML files outside this document.

4.7.1 Example 4.1
Lise Hansen is employed at a small nursery institution and has made a framework agreement on diaper delivery at a quarterly basis based on actual consumption. This means that the following steps are performed:

1. Hugo makes the forecasting in form of an Order Response.
2. Lise verifies the proposed order and makes some changes in quantity for some items.
3. Lise returns an Order change.
4. Hugo recognizes that they have the items in stock and sends an accepting order response to the nursery.
5. The supplier delivers the diapers.

6. Lise receives the diapers, finds the matching order and approves the delivery.

7. The day after the nursery receives an electronic invoice with attention to Lise.

8. Lise matches it with the order and approves it.

9. The invoice is ready for payment.

In the following tables you will find the business objects that are considered important to this example.

OrderResponse:

ADVORD_02_02_00_OrderResponse_v2p1.xml

4.7.1.1 OrderResponse

Class	Field	Attribute	Value	Note[5]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095678	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Super Soft A/S	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	

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	StreetName		Leverandørvej	
	BuildingNumber		11	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Super Soft A/S	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		5567	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		Hugo@ss.dk	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				

	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	

	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	
OrderLine				
LineItem				
	ID		1	
	Quantity		1000.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	
Item				
	Description		Superble	
	Name		Superble	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	

OrderChange:

ADVORD_02_02_00_OrderChange_v2p1.xml

4.7.1.2 OrderChange

Class	Field	Attribute	Value	Note[6]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095679	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B2	

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	IssueDate		2006-04-10	
	SequenceNumberID		01	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	

	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Super Soft A/S	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		11	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Super Soft A/S	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		5567	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		Hugo@ss.dk	
AccountingCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	

PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1000.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		4000.00	
		currencyID	DKK	

	TaxAmount		1000.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
AnticipatedMonetaryTotal				
	LineExtensionAmount		4000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1000.00	
		currencyID	DKK	
	TaxInclusiveAmount		5000.00	
		currencyID	DKK	
	PayableAmount		5000.00	
		currencyID	DKK	
OrderLine				
LineItem				
	ID		1	
	Quantity		800.00	
		unitCode	EA	
	LineExtensionAmount		4000.00	
		currencyID	DKK	
Price				
	PriceAmount		5.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	
Item				
	Description		Superble	
	Name		Superble	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	

OrderResponseSimple:

ADVORD_02_02_00_OrderResponseSimple_v2p1.xml

4.7.1.3 OrderResponseSimple

Class	Field	Attribute	Value	Note[7]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		65830	
	CopyIndicator		false	
	IssueDate		2006-04-02	
	AcceptedIndicator		true	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Super Soft A/S	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		11	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	

---

[7]

		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Super Soft A/S	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		5567	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		Hugo@ss.dk	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	

	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	

Invoice:

ADVORD_02_02_00_Invoice_v2p1.xml

4.7.1.4 Invoice

Class	Field	Attribute	Value	Note[8]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095680	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B4	
	IssueDate		2006-04-10	
	InvoiceTypeCode		380	
		listAgencyID	320	
		listID	urn:oioubl:codelist:invoicetypecode-1.1	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-43EE-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
AccountingSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				

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	Name		Super Soft A/S	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		11	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Super Soft A/S	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		5567	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		Hugo@ss.dk	
AccountingCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Myretuen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	

	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Myretuen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		1413	
	Name		Lise Hansen	
	Telephone		2653214	
	ElectronicMail		Lise@mt.dk	
Delivery				
	ActualDeliveryDate		2006-04-15	
PaymentMeans				
	ID		1	
	PaymentMeansCode		42	
	PaymentDueDate		2006-04-25	
	PaymentChannelCode		DK:BANK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:paymentchannelcode-1.1	
PayeeFinancialAccount				
	ID		0005704966	
	PaymentNote		A00095680	
FinancialInstitutionBranch				
	ID		9544	
PaymentTerms				
	ID		1	
	PaymentMeansID		1	
	Amount		5000.00	
		currencyID	DKK	
TaxTotal				

	TaxAmount		1000.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		4000.00	
		currencyID	DKK	
	TaxAmount		1000.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		4000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1000.00	
		currencyID	DKK	
	TaxInclusiveAmount		5000.00	
		currencyID	DKK	
	PayableAmount		5000.00	
		currencyID	DKK	

4.7.1.5 InvoiceLine

Class	Field	Attribute	Value	Note
	ID		1	
	InvoicedQuantity		800.00	
		unitCode	EA	
	LineExtensionAmount		4000.00	
		currencyID	DKK	
OrderLineReference				
	LineID		1	
TaxTotal				
	TaxAmount		1000.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		4000.00	
		currencyID	DKK	

	TaxAmount		1000.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
Item				
	Description		Superble	
	Name		Superble	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	
Price				
	PriceAmount		5.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	

The corresponding example instance files are provided as:

- ADVORD_02_02_00_OrderResponse_v2p1.xml
- ADVORD_02_02_00_OrderChange_v2p1.xml
- ADVORD_02_02_00_OrderResponseSimple_v2p1.xml
- ADVORD_02_02_00_Invoice_v2p1.xml

5. Contract-based procurement

5.1 Scenario Summary

This scenario describes how a contract-based procurement process is settled.

A government agency enters into an agreement with a private consultancy and specifies a contract covering the services to be delivered.

As no item identification number exists for the services a textual order is used.

This scenario describes the happy day variant only.

5.2 Scenario Characteristics

The scenario characteristics for this particularly scenario can be listed as:

- A government agency plays the role as the Buyer Customer Party
- A private consultancy plays the role as the Seller Customer Party
- All involved parties are capable of exchanging XML document instances using a network provider
- There are no physical goods. The goods are represented by the services specified in the contract and cannot be identified with a unique identification number
- A textual order is used to ensure that an order record is created in the Buyer Customer Party's internal IT system
- An invoice is sent to the Accounting Customer Party when the contract is fulfilled
- This is the happy day scenario

5.3 Scenario Context

The context of this scenario does not include the following:

- Sourcing
- Fulfillment
- Payment

5.3.1 Document usage

The involved business documents are the following:

- Order
- Order Response Simple
- Invoice

5.3.2 Customer parties

The following examples of customer related business parties will be used throughout the rest of this scenario description:

Buyer Customer Party and Accounting Customer Party:

> IT- og Telestyrelsen
>
> Att. Lasse Jensen
>
> Holsteinsgade 300
>
> 2100 København Ø
>
> GLN: 5798000416604 (EndPoint ID)
>
> GLN: 5798000416642
>
> SE: 16356709

This is an example of a government agency. The agency uses an ERP system capable of receiving electronic invoices. The Buyer Customer Party is identified using a standard GLN location number.

5.3.3 Supplier parties

The following examples of supplier related business parties will be used throughout the rest of this scenario description:

Seller Supplier Party and Accounting Supplier Party:

> PricewaterhouseCoopers
>
> Att. Peter Skovborg
>
> Strandvejen 44
>
> 2900 Hellerup
>
> CVR: 16356706

This is an example of a private consultancy. The Seller Supplier Party uses an ERP system capable of sending electronic invoices. The Seller Supplier Party is identified using a unique company identification number (CVR).

5.4 Scenario Activity Diagram

The scenario diagram provided shows the flow of activities and usage of XML document instances of the involved parties. Secondary activities are shown with a dashed borderline.
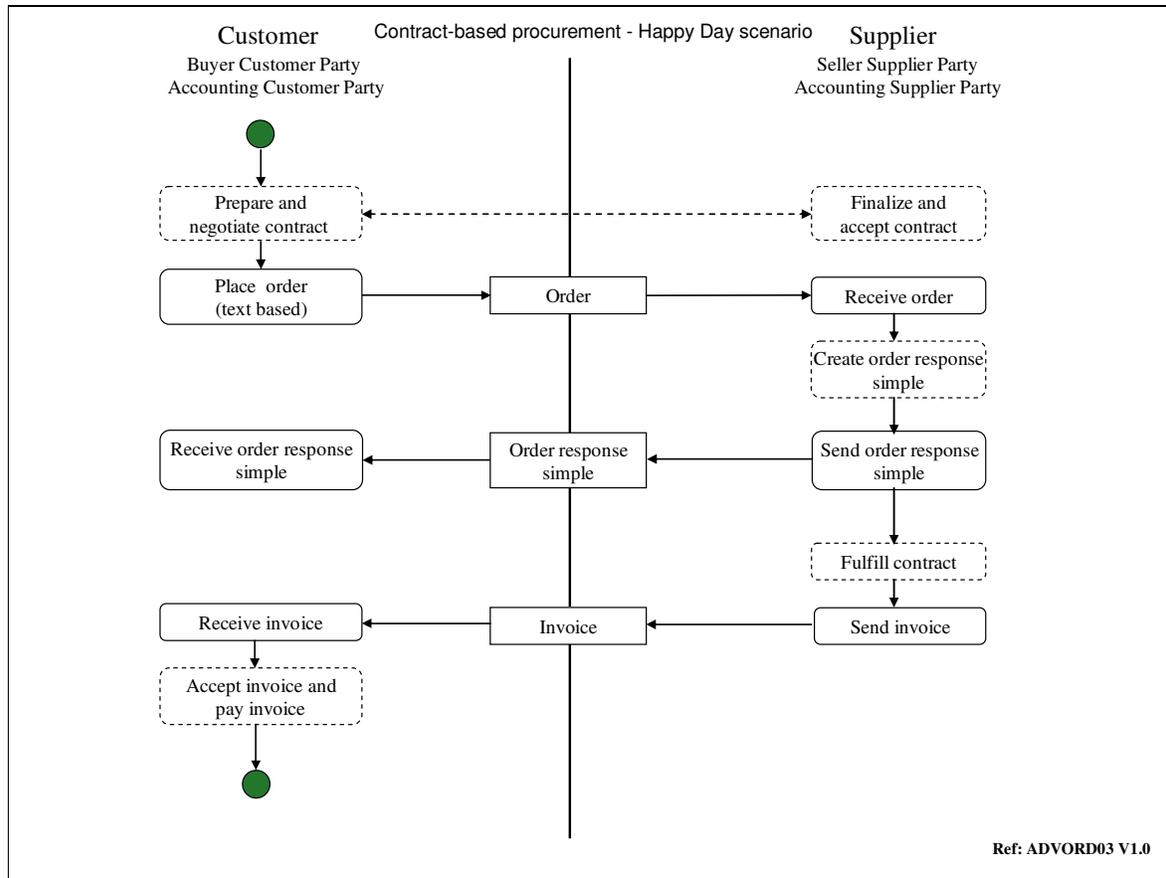
Figure 8

5.5 Detailed description of primary activities

Below you will find a description of each of the primary activities shown in the activity diagram (figure 8). A primary activity is an activity that is inside the scope of this scenario description and also considered external (not an internal process).

5.5.1 Place order

A textual order is created with reference to the signed contract.

5.5.2 Receive order

The Order is received at the Seller Supplier Party.

5.5.3 Send order response simple

An Order Response Simple is returned to the Buyer Customer Party.

5.5.4 Receive order response simple

The Order Response Simple is received (an automated check should be done against the order).

5.5.5 Send invoice

The Seller Supplier Party produces one instance of the invoice document and sends it to the Buyer Customer Party. In this scenario an invoice is sent subsequently to the delivery. The invoice must contain a number of key business information identities:

- Buyer Customer Party's order number (provided by the Buyer Customer Party as the order document is not in use)
- Contact reference at Buyer Customer Party
- EndPointID of the Buyer Customer Party's Organization
- GLN location number of the Buyer Customer Party's organization
- ID of Seller Supplier Party's organization

5.5.6 Receive invoice

The Buyer Customer Party receives the invoice electronically via its network provider. Prior to the payment of the invoice the Buyer Customer Party should check it against the ordered and delivered services. This process can be more or less automated and can depend on the optional creation of an order record or order reference in the Buyer Customer Party's internal IT system.

5.6 Internal processes and eBusiness benefits

The benefits of eBusiness relates directly to the degree of correlation between the external and the internal processes within a given organization. The purpose of this chapter is to highlight and describe the possible benefits that can be achieved by incorporating the electronic document flow into the organization's internal processes.

5.6.1 Buyer Customer Party

5.6.1.1 Prepare and negotiate contract
A contract is prepared and signed. At the same time the required reference numbers should be drawn.

5.6.1.2 Accept invoice and pay invoice
At the time the invoice arrives at the Buyer Customer Party it is automatically checked against the order provided that an order record or order reference is created in the Buyer Customer Party's internal IT system.

5.6.2 Seller Supplier Party and Accounting Supplier Party

5.6.2.1 Finalize and accept contract
A contract is prepared and signed.

5.6.2.2 Create order response simple
A Order Repsonse Simple is created.

5.6.2.3 Fulfill contract

The consultancy is delivered.

5.7 Examples

The XML example instance documents are provided as standalone XML files outside this document.

5.7.1 Example 5.1

Lasse Jensen is employed at IT- og Telestyrelsen and is responsible for ordering a consultancy report at PricewaterhouseCoopers.

This means that the following steps are performed:

1. Lasse prepares a contract specifying the services to be delivered

2. Lasse sends the contract by e-mail to Peter Skovborg at PricewaterhouseCoopers. Additionally, Lasse creates an order record or order reference in their internal IT system related to the contract

3. Peter accepts the contract, signs it and returns it by e-mail to Lasse

4. Lasse receives the signed contract and awaits the delivery

5. PricewaterhouseCoopers delivers the report to IT- og Telestyrelsen

6. The day after IT- and Telestyrelsen receives an electronic invoice addressed to Lasse

7. Lasse matches the invoice with the order record or order reference and approves it

8. The invoice is now ready for payment

In the following tables you will find the business objects that are considered important to this example.

Order:

ADVORD_03_03_00_Order_v2p1.xml

5.7.1.1 Order

Class	Field	Attribute	Value	Note[9]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		5002701	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-10	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	

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BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000416642	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		IT- og Telestyrelsen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Holsteinsgade	
	BuildingNumber		300	
	CityName		København Ø	
	PostalZone		2100	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		IT- og Telestyrelsen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		90015	
	Name		Lasse Jensen	
	Telephone		2653214	
	ElectronicMail		Lasse@itst.dk	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				

	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		PricewaterhouseCoopers	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Strandvejen	
	BuildingNumber		44	
	CityName		Hellerup	
	PostalZone		2900	
Country				
	IdentificationCode		DK	
PartyLegalEntity				
	RegistrationName		PricewaterhouseCoopers	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		8149	
	Name		Peter Skovborg	
	Telephone		26532147	
	ElectronicMail		Peter@pwc.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	

		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
AnticipatedMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	

5.7.1.2 OrderLine

Class	Field	Attribute	Value	Note
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	
Item				
	Description		Konsulentrapport	
	Name		Konsulentrapport	
SellersItemIdentification				
	ID		n/a	
		schemeID	n/a	

OrderResponseSimple:

ADVORD_03_03_00_OrderResponseSimple_v2p1.xml

5.7.1.3 OrderResponseSimple

Class	Field	Attribute	Value	Note[10]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	

10

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	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		65830	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B2	
	IssueDate		2006-04-02	
	AcceptedIndicator		true	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		PricewaterhouseCoopers	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Strandvejen	
	BuildingNumber		44	
	CityName		Hellerup	
	PostalZone		2900	
Country				
	IdentificationCode		DK	
PartyLegalEntity				
	RegistrationName		PricewaterhouseCoopers	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		8149	
	Name		Peter Skovborg	
	Telephone		26532147	
	ElectronicMail		Peter@pwc.dk	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	

Class	Field	Attribute	Value	Note
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000416642	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		IT- og Telestyrelsen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Holsteinsgade	
	BuildingNumber		300	
	CityName		København Ø	
	PostalZone		2100	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		IT- og Telestyrelsen	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		90015	
	Name		Lasse Jensen	
	Telephone		2653214	
	ElectronicMail		Lasse@itst.dk	

Invoice:

ADVORD_03_03_00_Invoice_v2p1.xml

5.7.1.4 Invoice

Class	Field	Attribute	Value	Note[11]

11

	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095678	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B3	
	IssueDate		2006-04-10	
	InvoiceTypeCode		380	
		listAgencyID	320	
		listID	urn:oioubl:codelist:invoicetypecode-1.1	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
AccountingSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		PricewaterhouseCoopers	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Strandvejen	
	BuildingNumber		44	
	CityName		Hellerup	
	PostalZone		2900	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	

		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		PricewaterhouseCoopers	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		8149	
	Name		Peter Skovborg	
	Telephone		26532147	
	ElectronicMail		Peter@pwc.dk	
AccountingCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000416642	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		IT- og Telestyrelsen	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Holsteinsgade	
	BuildingNumber		300	
	CityName		København Ø	
	PostalZone		2100	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		IT- og Telestyrelsen	

	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		90015	
	Name		Lasse Jensen	
	Telephone		2653214	
	ElectronicMail		Lasse@itst.dk	
Delivery				
	ActualDeliveryDate		2006-04-15	
PaymentMeans				
	ID		1	
	PaymentMeansCode		42	
	PaymentDueDate		2006-04-25	
	PaymentChannelCode		DK:BANK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:paymentchannelcode-1.1	
PayeeFinancialAccount				
	ID		0005704966	
	PaymentNote		A00095678	
FinancialInstitutionBranch				
	ID		9544	
PaymentTerms				
	ID		1	
	PaymentMeansID		1	
	Amount		6250.00	
		currencyID	DKK	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	

	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	

5.7.1.5 InvoiceLine

Class	Field	Attribute	Value	Note
	ID		1	
	InvoicedQuantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
OrderLineReference				
	LineID		1	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
Item				
	Description		Konsulentrapport	
	Name		Konsulentrapport	
SellersItemIdentification				

	ID		n/a	
		schemeID	n/a	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	

The corresponding example instance files are provided as:

- ADVORD_03_03_00_Order_v2p1.xml
- ADVORD_03_03_00_OrderResponseSimple_v2p1.xml
- ADVORD_03_03_00_Invoice_v2p1.xml

6. Text based ordering

6.1 Scenario Summary

This scenario describes the simple case of a small Public School placing a single order of some items directly at a private supplier. The items can not be found in the procurement system and hence the officer at the school simply makes a text based order.

It is assumed as a precondition that a framework agreement exists between the municipality and the supplier specifying exactly what items that can be ordered. It is the responsibility of the supplier to verify and correct text based orders from the municipality accordingly.

Before the corrected order can be executed it needs to be accepted by the officer at the school.

The school is an example of small organization with only one department. The school is identified by a unique GLN location number.

Only the Happy Day variant is described.

6.2 Scenario Characteristics

The scenario characteristics for this particularly scenario can be listed as:

- One Order – One Order Response – One Order Change – One delivery – One Invoice
- The Buyer Customer Party creates a text based order
- A framework agreement exists between the municipality and the Seller Supplier Party
- The Seller Supplier Party needs to verify and correct orders against the framework agreement
- The Buyer Customer Party organization is small (one department)
- Buyer Customer Party becomes the Accounting Customer Party and Seller Supplier Party becomes the Accounting Supplier Party when invoicing
- The order is initiated by the Buyer Customer Party
- The parties are capable of exchanging XML document instances (using their network provider)
- The Invoice is sent to the Accounting Customer Party at the point of time where the goods are delivered
- This is the happy day scenario

6.3 Scenario Context

The context of this scenario does not include the following:

- Sourcing
- Fulfillment
- Payment

6.3.1 Document usage

The involved business documents are the following:

- Order
- Order Response
- Order Change
- Order Response Simple
- Invoice

6.3.2 Customer parties

The following examples of customer related business parties will be used throughout the rest of this scenario description:

Buyer Customer Party and Accounting Customer Party:

Den Lille Skole

Att. Hans Hansen

Fredericiavej 10

3000 Helsingør

GLN: 5798000416604 (EndPoint ID)

GLN: 5798000417777

SE: 16356709

This is an example of a minor public school (a small public organization) with only one department involved in the procurement process. The school uses an ERP system which is capable of receiving and sending electronic documents.

6.3.3 Supplier parties

The following examples of supplier related business parties will be used throughout the rest of this scenario description:

Seller Supplier Party and Accounting Supplier Party:

Tavleleverandøren

Att. Hugo Jensen

Leverandørvej 11

2870 Dyssegård

CVR: 16356706

This is an example of a private company with only one department involved in the procurement process. The company uses an ERP system which is capable of receiving and sending electronic documents.

6.4 Scenario Activity Diagram

The scenario diagram provided shows the flow of activities and usage of document instances of the involved parties. Secondary activities are shown with a dashed borderline.
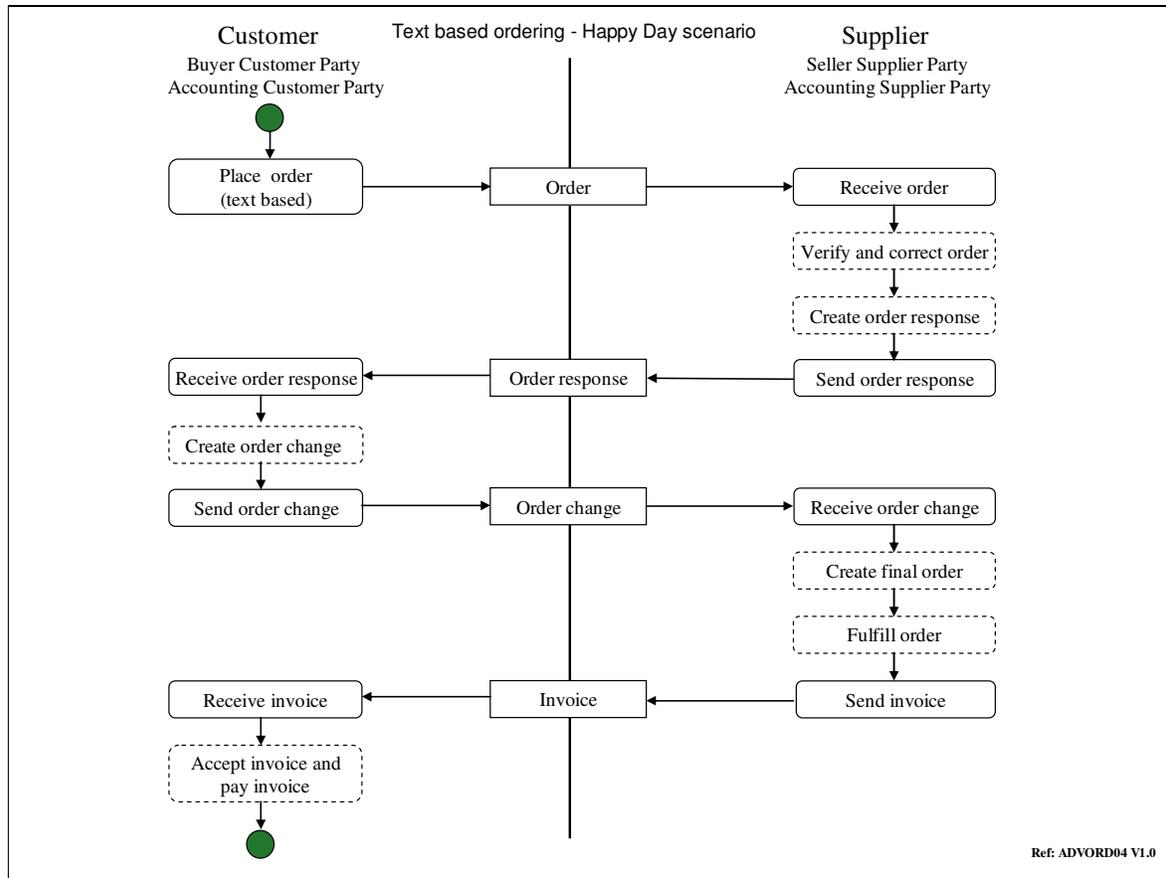
Figure 9

6.5 Detailed description of primary activities

Below you will find a description of each of the primary activities shown in the activity diagram (figure 9). A primary activity is an activity that is inside the scope of this scenario description and also considered external (not an internal process).

6.5.1 Place order

The Buyer Customer Party needs to produce one instance of the Order document and send it to the Seller Supplier Party. This is done directly from within the Buyer Customer Party's ERP system. However in this scenario the Buyer Customer Party places a text based order (instead of selecting among the items in the electronic catalog). The document instance will be delivered to the Seller Supplier Party using an appropriate network provider. The Order must contain a number of key Business Information Identities:

- Buyer Customer Party's Order Number

- Contact Reference at Buyer Customer Party

- EndPointID of the Buyer Customer Party's Organization

- GLN Location Number of the Buyer Customer Party's Organization

- Legal entity of the Buyer Customer Party's Organization

- ID of Seller Supplier Party's Organization

• A description of ordered items

6.5.2 Receive order

The Seller Supplier Party receives the Order electronically via its network provider. This process can be more or less automated.

6.5.3 Send order response

The Seller Supplier Party has prepared the order response based on the text based order received from the Buyer Customer Party. The following key Business Information Identities are provided:

• Code for accepting the whole order

• Buyer Customer Party's Order Number

• Contact Reference at Buyer Customer Party

• EndPointID of the Buyer Customer Party's Organization

• GLN Location Number of the Buyer Customer Party's Organization

• Legal entity of the Buyer Customer Party's Organization

• ID of Seller Supplier Party's Organization

• Item Number of the ordered item(s) known to the Seller Supplier Party and verified against the framework agreement

6.5.4 Receive order response

The Buyer Customer Party receives the Order Response electronically via its network provider. This process can be more or less automated. The Buyer Customer Party should check the following:

• Whether the order is accepted or not

• That the referenced items corresponds to the ones that where specified on the text based order

• That the correct order number is referenced

In this scenario there will always be match.

6.5.5 Send order change

The Buyer Customer Party returns an accepting Order Change to the Seller Supplier Party.

6.5.6 Receive order change

The Seller Supplier Party receives the accepting Order Change electronically via its network provider. At this point the final order is created at the Seller Supplier Party.

6.5.7 Send order response simple

The Seller Supplier Party returns an accepting Order Response Simple to the Buyer Customer Party.

6.5.8 Receive order response simple

The Buyer Customer Party receives the accepting Order Response Simple electronically via its network provider. At this point the final order is created at the Buyer Customer Party.

6.5.9 Send invoice

The Accounting Supplier Party produces one instance of the Invoice document and sends it to the Accounting Customer Party. In this scenario the invoice is sent by the time the items are delivered. The Invoice must contain a number of key Business Information Identities:

- Buyer Customer Party's Order Number

- Contact Reference at Buyer Customer Party

- EndPointID of the Buyer Customer Party's Organization

- GLN Location Number of the Accounting Customer Party's Organization

- Legal entity of the Accounting Customer Party's Organization

- ID of Accounting Supplier Party's Organization

6.5.10 Receive invoice

The Accounting Customer Party receives the Invoice electronically via its network provider. This process can be more or less automated.

6.6 Internal processes and eBusiness benefits

The benefits of eBusiness relates directly to the degree of correlation between the external and the internal processes within a given organization. The purpose of this chapter is to highlight and describe the possible benefits that can be achieved by incorporating the electronic document flow into your internal processes.

6.6.1 Buyer Customer Party

6.6.1.1 Create order change
An accepting Order Change document instance is created based on the received Order Response.

6.6.2 Accounting Customer Party

6.6.2.1 Accept invoice and pay invoice
The Accounting Customer Party facilitates the process of invoice matching and the invoice is paid.

6.6.3 Seller Supplier Party and Accounting Supplier Party

6.6.3.1 Verify and correct order
The Seller Supplier Party needs to verify and correct the text based order so it reflects the framework agreement with the municipality.

6.6.3.2 Create order response
An accepting Order Response document instance is created.

6.6.3.3 Create final order
When the Seller Supplier Party has received the accepting Order Change document instance, the final order can be created.

6.6.3.4 Fulfill order
The order is fulfilled.

6.7 Examples
The XML example instance documents are provided as standalone XML files outside this document.

6.7.1 Example 6.1
Hans Hansen who is employed at a small public school wants to buy a blackboard. This means that the following steps are performed:

1. Using the procurement system at the school Hans can not find the blackboard he wants to order and therefore makes a text based order.
2. Hugo needs to verify and correct the text based order so it reflects the framework agreement with the municipality. He finds a matching item.
3. Hugo recognizes that they have the blackboard in stock and sends an accepting order response immediately.
4. Hans matches the order response against the text based order and accepts it by returning an accepting order change.
5. Hugo can now execute the order.
6. The blackboard by carrier to the public school.
7. Hans receives the blackboard. He finds the matching order and approves the delivery.
8. The day after the public school receives an electronic invoice with attention to Hans.
9. Hans matches it with the order and approves it.
10. The invoice is ready for payment.

In the following tables you will find the business objects that are considered important to this example.

Order:

ADVORD_04_04_00_Order_v2p1.xml

6.7.1.1 Order

Class	Field	Attribute	Value	Note[12]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		5002701	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-10	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	

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[12]

		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Tavleleverandøren	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		10	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyLegalEntity				
	RegistrationName		Tavleleverandøren	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		345243	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		hugo@tavl.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	

TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
AnticipatedMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	

6.7.1.2 OrderLine

Class	Field	Attribute	Value	Note
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	

Item				
	Description		Blackboard 2x5 m	
	Name		Blackboard 2x5 m	
SellersItemIdentification				
	ID		n/a	
		schemeID	n/a	

OrderResponse:

ADVORD_04_04_00_OrderResponse_v2p1.xml

6.7.1.3 OrderResponse

Class	Field	Attribute	Value	Note[13]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095678	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B2	
	IssueDate		2006-04-01	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Tavleleverandøren	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	

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		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		10	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Tavleleverandøren	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		345243	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		hugo@tavl.dk	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	

Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	

		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	
OrderLine				
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	
Item				
	Description		Blackboard 5x2 m	
	Name		Blackboard 5x2 m	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	

OrderChange:

ADVORD_04_04_00_OrderChange_v2p1.xml

6.7.1.4 OrderChange

Class	Field	Attribute	Value	Note[14]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095679	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-	

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			7CCAC7F4E3B3	
	IssueDate		2006-04-10	
	SequenceNumberID		01	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	

Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Tavleleverandøren	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		10	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Tavleleverandøren	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		345243	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		hugo@tavl.dk	
AccountingCustomerParty				
Party				

	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	

TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
AnticipatedMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	
OrderLine				
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	
Item				
	Description		Blackboard 5x2 m	
	Name		Blackboard 5x2 m	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	

		schemeID	GTIN	

Invoice:

ADVORD_04_04_00_Invoice_v2p1.xml

6.7.1.5 Invoice

Class	Field	Attribute	Value	Note[15]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095680	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B4	
	IssueDate		2006-04-10	
	InvoiceTypeCode		380	
		listAgencyID	320	
		listID	urn:oioubl:codelist:invoicetypecode-1.1	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-43EE-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
AccountingSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Tavleleverandøren	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	

---

[15]

	BuildingNumber		10	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Tavleleverandøren	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		345243	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		hugo@tavl.dk	
AccountingCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	

PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
Delivery				
	ActualDeliveryDate		2006-04-15	
PaymentMeans				
	ID		1	
	PaymentMeansCode		42	
	PaymentDueDate		2006-04-25	
	PaymentChannelCode		DK:BANK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:paymentchannelcode-1.1	
PayeeFinancialAccount				
	ID		0005704966	
	PaymentNote		A00095680	
FinancialInstitutionBranch				
	ID		9544	
PaymentTerms				
	ID		1	
	PaymentMeansID		1	
	Amount		6250.00	
		currencyID	DKK	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	

		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	

6.7.1.6 InvoiceLine

Class	Field	Attribute	Value	Note
	ID		1	
	InvoicedQuantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
OrderLineReference				
	LineID		1	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	

	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
Item				
	Description		Blackboard 5x2 m	
	Name		Blackboard 5x2 m	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	

The corresponding example instance files are provided as:

- ADVORD_04_04_00_Order_v2p1.xml
- ADVORD_04_04_00_OrderResponse_v2p1.xml
- ADVORD_04_04_00_OrderChange_v2p1.xml
- ADVORD_04_04_00_Invoice_v2p1.xml

7. Text based ordering - cancellation

7.1 Scenario Summary

This scenario describes the simple case of a small Public School placing a single order of some items directly at a private supplier. The items can not be found in the procurement system and hence the officer at the school simply makes a text based order.

It is assumed as a precondition that a framework agreement exists between the municipality and the supplier specifying exactly what items that can be ordered. It is the responsibility of the supplier to verify and correct text based orders from the municipality accordingly.

Before the corrected order can be executed it needs to be accepted by the officer at the school.

In this scenario the officer can not accept the proposed order and therefore cancels the order.

The school is an example of small organization with only one department. The school is identified by a unique GLN location number.

7.2 Scenario Characteristics

The scenario characteristics for this particularly scenario can be listed as:

- One Order – One Order Response – One Order Cancellation
- The Buyer Customer Party creates a text based order
- A framework agreement exists between the municipality and the Seller Supplier Party
- The Seller Supplier Party needs to verify and correct orders against the framework agreement
- The Buyer Customer Party organization is small (one department)
- The order is initiated by the Buyer Customer Party
- The parties are capable of exchanging XML document instances (using their network provider)
- In this scenario the order is cancelled by the Buyer Customer Party

7.3 Scenario Context

The context of this scenario does not include the following:

- Sourcing
- Fulfillment
- Payment

7.3.1 Document usage

The involved business documents are the following:

- Order
- Order Response
- Order Cancellation

7.3.2 Customer parties

The following examples of customer related business parties will be used throughout the rest of this scenario description:

Buyer Customer Party:

> Den Lille Skole
>
> Att. Hans Hansen
>
> Fredericiavej 10
>
> 3000 Helsingør
>
> GLN: 5798000416604 (EndPoint ID)
>
> GLN: 5798000417777
>
> SE: 16356709

This is an example of a minor public school (a small public organization) with only one department involved in the procurement process. The school uses an ERP system which is capable of receiving and sending electronic documents.

7.3.3 Supplier parties

The following examples of supplier related business parties will be used throughout the rest of this scenario description:

Seller Supplier Party:

> Tavleleverandøren
>
> Att. Hugo Jensen
>
> Leverandørvej 11
>
> 2870 Dyssegård
>
> CVR: 16356706

This is an example of a private company with only one department involved in the procurement process. The company uses an ERP system which is capable of receiving and sending electronic documents.

7.4 Scenario Activity Diagram

The scenario diagram provided shows the flow of activities and usage of document instances of the involved parties. Secondary activities are shown with a dashed borderline.
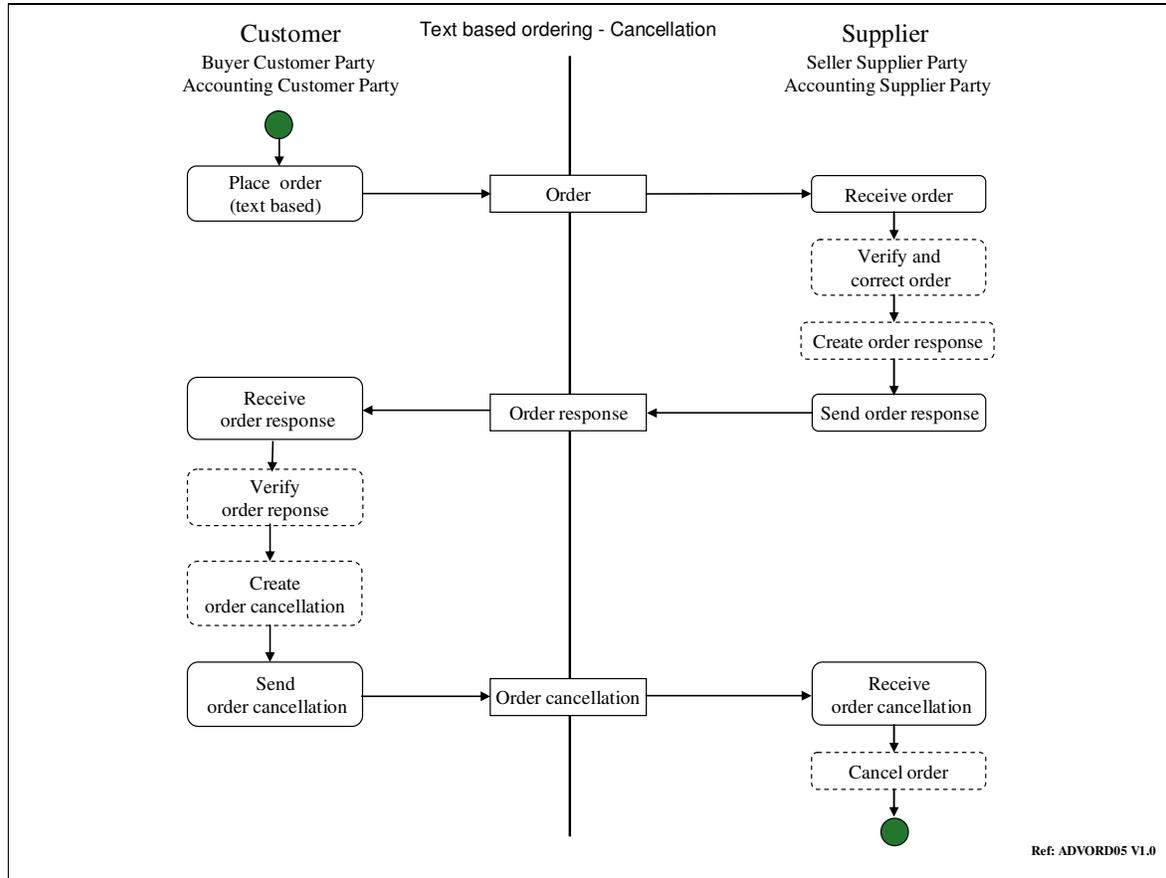
Figure 10

7.5 Detailed description of primary activities

Below you will find a description of each of the primary activities shown in the activity diagram (figure 10). A primary activity is an activity that is inside the scope of this scenario description and also considered external (not an internal process).

7.5.1 Place order

The Buyer Customer Party needs to produce one instance of the Order document and send it to the Seller Supplier Party. This is done directly from within the Buyer Customer Party's ERP system. However in this scenario the Buyer Customer Party places a text based order (instead of selecting among the items in the electronic catalog). The document instance will be delivered to the Seller Supplier Party using an appropriate network provider. The Order must contain a number of key Business Information Identities:

- Buyer Customer Party's Order Number

- Contact Reference at Buyer Customer Party

- EndPointID of the Buyer Customer Party's Organization

- GLN Location Number of the Buyer Customer Party's Organization

- Legal entity of the Buyer Customer Party's Organization

- ID of Seller Supplier Party's Organization

- A description of ordered items

7.5.2 Receive order

The Seller Supplier Party receives the Order electronically via its network provider. This process can be more or less automated.

7.5.3 Send order response

The Seller Supplier Party has prepared the order response based on the text based order received from the Buyer Customer Party. The following key Business Information Identities are provided:

- Code for accepting the whole order
- Buyer Customer Party's Order Number
- Contact Reference at Buyer Customer Party
- EndPointID of the Buyer Customer Party's Organization
- GLN Location Number of the Buyer Customer Party's Organization
- Legal entity of the Buyer Customer Party's Organization
- ID of Seller Supplier Party's Organization
- Item Number of the ordered item(s) known to the Seller Supplier Party and verified against the framework agreement

7.5.4 Receive order response

The Buyer Customer Party receives the Order Response electronically via its network provider. This process can be more or less automated. The Buyer Customer Party should check the following:

- Whether the order is accepted or not
- That the referenced items corresponds to the ones that where specified on the text based order
- That the correct order number is referenced

In this scenario the referenced items does not correspond to the ones that where specified on the text based order.

7.5.5 Send order cancellation

The Buyer Customer Party decides to produce one instance of the Order Cancellation document and send it to the Seller Supplier Party. This can be done directly from within the Buyer Customer Party's ERP system. The Process can be more or less automated. The document instance will be delivered to the Seller Supplier Party using an appropriate network provider. The Order Cancellation must contain a number of key Business Information Identities:

- ID of Seller Supplier Party's Organization
- A reference to the originating order
- A cancellation note (wrong items)
- GLN Location Number of the Buyer Customer Party's Organization

7.5.6 Receive order cancellation

The Seller Supplier Party receives the Order electronically via its network provider. This process can be more or less automated. The procurement process is cancelled.

7.6 Internal processes and eBusiness benefits

The benefits of eBusiness relates directly to the degree of correlation between the external and the internal processes within a given organization. The purpose of this chapter is to highlight and describe the possible benefits that can be achieved by incorporating the electronic document flow into your internal processes.

7.6.1 Buyer Customer Party

7.6.1.1 Verify order response

The Buyer Customer Party verifies the received Order Response and in this scenario decides to cancel the order, due to wrong items.

7.6.1.2 Create order cancellation

An Order Cancellation document instance is created.

7.6.2 Seller Supplier Party

7.6.2.1 Verify and correct order

The Seller Supplier Party needs to verify and correct the text based order so it reflects the framework agreement with the municipality.

7.6.2.2 Create order response

An accepting Order Response document instance is created.

7.6.2.3 Cancel order

The order is cancelled.

7.7 Examples

The XML example instance documents are provided as standalone XML files outside this document.

7.7.1 Example 7.1

Hans Hansen who is employed at a small public school wants to buy a blackboard. This means that the following steps are performed:

1. Using the procurement system at the school Hans can not find the blackboard he wants to order and therefore makes a text based order.
2. Hugo needs to verify and correct the text based order so it reflects the framework agreement with the municipality. He thinks he finds a matching item but chooses a wrong item.
3. Hugo recognizes that they have the blackboard in stock and sends an accepting order response immediately.

4. Hans matches the order response against the text based order and decides to cancel the order by returning a order cancellation.

5. Hugo cancels the order.

In the following tables you will find the business objects that are considered important to this example.

Order:

ADVORD_05_04_01_Order_v2p1.xml

7.7.1.1 Order

Class	Field	Attribute	Value	Note[16]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		5002701	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-10	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	

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Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Tavleleverandøren	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		10	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyLegalEntity				
	RegistrationName		Tavleleverandøren	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				

	ID		345243	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		hugo@tavl.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
AnticipatedMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	

7.7.1.2 OrderLine

Class	Field	Attribute	Value	Note
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	

Class	Field	Attribute	Value	Note
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	
Item				
	Description		Blackboard 2x5 m	
	Name		Blackboard 2x5 m	
SellersItemIdentification				
	ID		n/a	
		schemeID	n/a	

OrderResponse:

ADVORD_05_04_01_OrderResponse_v2p1.xml

7.7.1.3 OrderResponse

Class	Field	Attribute	Value	Note[17]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095678	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B2	
	IssueDate		2006-04-01	
	DocumentCurrencyCode		DKK	
	AccountingCost		5250124502	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	

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PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Tavleleverandøren	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		10	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Tavleleverandøren	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		345243	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		hugo@tavl.dk	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	

PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
Delivery				
RequestedDeliveryPeriod				
	StartDate		2006-04-15	
	EndDate		2006-04-15	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	

	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	
OrderLine				
LineItem				
	ID		1	
	Quantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	
Item				
	Description		Whiteboard 5x2 m	
	Name		Whiteboard 5x2 m	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	

OrderCancellation:

ADVORD_05_04_01_OrderCancellation_v2p1.xml

7.7.1.4 OrderCancellation

Class	Field	Attribute	Value	Note[18]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdAdvR-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		65830	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B3	
	IssueDate		2006-04-01	
	IssueTime		10:00:00	
	CancellationNote		Forkerte varer	
OrderReference				
	ID		5002701	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-01	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000417777	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Den Lille Skole	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Fredericiavej	
	BuildingNumber		10	
	CityName		Helsingør	
	PostalZone		3000	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	

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		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Den Lille Skole	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		87656	
	Name		Hans Hansen	
	Telephone		2653214	
	ElectronicMail		hans@dls.dk	
Person				
	FirstName		Hans	
	FamilyName		Hansen	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		Tavleleverandøren	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Leverandørvej	
	BuildingNumber		10	
	CityName		Dyssegård	
	PostalZone		2870	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	

		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Tavleleverandøren	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		345243	
	Name		Hugo Jensen	
	Telephone		26532147	
	ElectronicMail		hugo@tavl.dk	

The corresponding example instance files are provided as:

- ADVORD_05_04_01_Order_v2p1.xml
- ADVORD_05_04_01_OrderResponse_v2p1.xml
- ADVORD_05_04_01_OrderCancellation_v2p1.xml

8. Settlement of a loan

8.1 Scenario Summary

This scenario describes how the traditional business documents can be used in a procurement cycle of obtaining a loan based on bonds.

Bonds (and loans) as trade items are special in the following ways:

- Their market value (final price) is determined at the stock exchange
- They could be traded in a number of different currencies
- A number of agents (banks) are involved in the procurement
- Selling and buying is an online transaction
- Authorization (signatures) becomes a vital part of the procurement cycle
- The traditional flow of business documents can only be used in selected parts of the procurement cycle

In the scenario it is assumed, as a precondition, that an employee (accountant) within a municipality has obtained the loan at an agency and that the payments of the loan are invoiced twice a year.

The municipality is identified with an GLN location number.

Only the Happy Day variant is described.

8.2 Scenario Characteristics

The scenario characteristics for this particularly scenario can be listed as:

- One loan ➔ Several Invoices (until loan is fully paid)
- The parties are capable of exchanging XML document instances (using their network provider)
- The Invoice is sent to the Accounting Customer Party twice a year
- This is the happy day scenario

8.3 Scenario Context

The context of this scenario does not include the following:

- Sourcing
- Fulfillment
- Payment

8.3.1 Document usage

The involved business documents are the following:

- Order Response Simple
- Invoice

8.3.2 Customer parties

The following examples of customer related business parties will be used throughout the rest of this scenario description:

Buyer Customer Party and Accounting Customer Party:

> Gentofte Kommune, Økonomiservice
>
> Att. Sille Schyberg
>
> Bernstorffsvej 161
>
> 2920 Charlottenlund
>
> GLN: 5798000416604 (EndPoint ID)
>
> GLN: 5798000416604
>
> SE: 16356709

This is an example of the central procurement department at the municipality. The department uses an ERP system which is capable of receiving and sending electronic documents. The Buyer Customer Party is identified with a standard GLN location number and optionally an Account code.

8.3.3 Supplier parties

The following examples of supplier related business parties will be used throughout the rest of this scenario description:

Seller Supplier Party and Accounting Supplier Party:

> KommuneKredit
>
> Att. Hans Kredit
>
> Kultorvet 16
>
> 1175 København K
>
> CVR: 16356706

This is an example of a financial institution which offers loans to Danish local government and Danish municipal institutions. This institution becomes the Seller Customer Party. The Seller Customer Party is identified with a unique Company identification number (CVR). Their ERP system is capable of receiving and sending electronic documents.

8.4 Scenario Activity Diagram

The scenario diagram provided shows the flow of activities and usage of document instances of the involved parties. Secondary activities are shown with a dashed borderline.
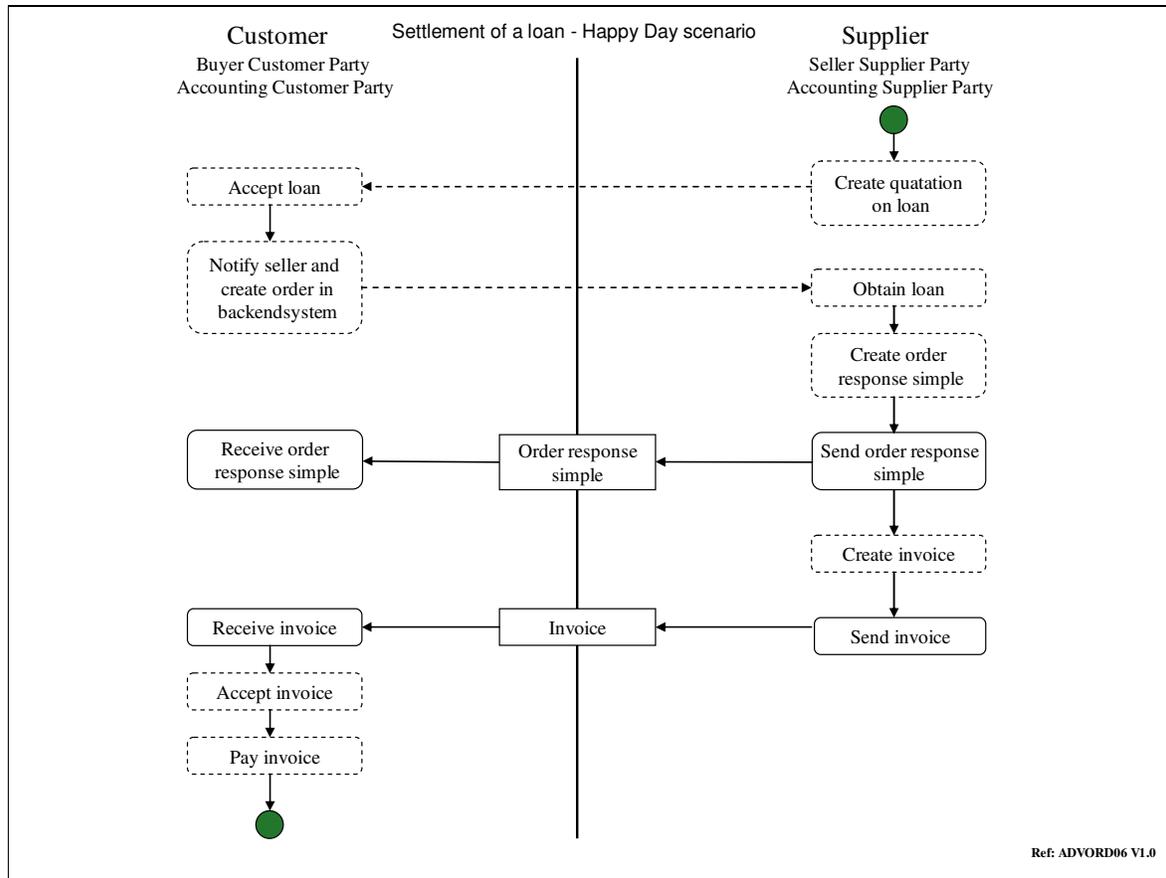
Figure 11

8.5 Detailed description of primary activities

Below you will find a description of each of the primary activities shown in the activity diagram (figure 11). A primary activity is an activity that is inside the scope of the scenario description and also considered external (not an internal process).

8.5.1 Send order response simple

An Order Response Simple is sent to the Buyer Customer Party to ensure that an automated invoicing process can be executed.

8.5.2 Receive order response simple

The Order Response Simple is received.

8.5.3 Send invoice

The Seller Supplier Party produces one instance of the Invoice document twice a year until the loan is fully paid. The Invoice must contain a number of key Business Information Identities:

• Buyer Customer Party's Order Number

- Contact Reference at Buyer Customer Party

- GLN Location Number of the Buyer Customer Party's Organization

- Account code at the Buyer Customer Party (if provided)

- ID of Seller Supplier Party's Organization

- A proper value date

- Currency code(s) (if loan in foreign currency)

8.5.4 Receive invoice

The Buyer Customer Party receives the Invoice.

8.6 Internal processes and eBusiness benefits

The benefits of eBusiness relates directly to the degree of correlation between the external and the internal processes within a given organization. The purpose of this chapter is to highlight and describe the possible benefits that can be achieved by incorporating the electronic document flow into the organization's internal processes.

8.6.1 Buyer Customer Party

8.6.1.1 Accept loan

The Buyer Customer Party accepts (signs) the loan contract and initiates the process.

8.6.1.2 Notify seller and create order in backend system

The Buyer Customer Party should create order in their backend system (and draw an order number). Accounting Customer Party

8.6.1.3 Accept invoice

When the Accounting Customer Party receives the Invoice, the following should be performed:

- A match with GLN location number

- A match with order number

- A match with contact person

- An optional match with account code

- A match with the originating loan specification

8.6.1.4 Pay invoice

The Accounting Customer Party needs to pay special attention to the payment due date within the invoice due to the following factors:

- The concept of value date

- The payment needs to be present on the agency's account on the value date

- Settlements in different currencies (if loan in foreign currency)

8.6.2 Seller Supplier Party and Accounting Supplier Party

8.6.2.1 Create quotation on loan
The Buyer Customer Party requests some proposals.

8.6.2.2 Obtain loan
The loan is obtained.

8.6.2.3 Create order response simple
The signed loan request is received and verified. In order to meet the requirements of the public procurement rules within Denmark, the following key Business Information Identities must be provided by the Buyer Party in order to be present on the invoice:

- Buyer Customer Party's Order Number
- Contact Reference at Buyer Customer Party
- GLN Location Number of the Buyer Customer Party's Organization
- Account code at the Buyer Customer Party (optional)

8.6.2.4 Create invoice
An Invoice is created (twice a year until loan is fully paid).

8.7 Examples
The XML example instance documents are provided as standalone XML files outside this document.

8.7.1 Example 8.1
Sille Schyberg who is employed at a municipality wants to obtain a loan on the behalf of the municipality. This means that the following steps are performed:

1. Sille prepares the loan requisition, signs it, and sends it to the agency
2. The loan is obtained
3. Hans Kredit prepares and returns an order response simple
4. Twice a year Sille at the central procurement department of the municipality receives an invoice
5. Sille matches it with the specification and approves it
6. The invoice is then ready for payment

In the following tables you will find the business objects that are considered important to this example.

OrderResponseSimple:

ADVORD_06_05_00_OrderResponseSimple_v2p1.xml

8.7.1.1 OrderResponseSimple

Class	Field	Attribute	Value	Note[19]

19

	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		5002702	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B1	
	IssueDate		2006-04-02	
	AcceptedIndicator		true	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
SellerSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		KommuneKredit	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Kultorvet	
	BuildingNumber		16	
	CityName		København K	
	PostalZone		1175	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		KommuneKredit	
	CompanyID		DK16356706	

		schemeID	DK:CVR	
Contact				
	ID		29295	
	Name		Hans Kredit	
	Telephone		26532147	
	ElectronicMail		hans@kk.dk	
BuyerCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Gentofte Kommune, Økonomiservice	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Bernstorffsvej	
	BuildingNumber		161	
	CityName		Charlottenlund	
	PostalZone		2920	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Gentofte Kommune, Økonomiservice	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		121519	
	Name		Sille Schyberg	
	Telephone		2653214	

	ElectronicMail		sille@gent.dk	

Invoice:

ADVORD_06_05_00_Invoice_v2p1.xml

8.7.1.2 Invoice

Class	Field	Attribute	Value	Note[20]
	UBLVersionID		2.0	
	CustomizationID		OIOUBL-2.01	
	ProfileID		Procurement-OrdSel-BilSim-1.0	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:profileid-1.1	
	ID		A00095680	
	CopyIndicator		false	
	UUID		6E09886B-DC6E-439F-82D1-7CCAC7F4E3B2	
	IssueDate		2006-04-10	
	InvoiceTypeCode		380	
		listAgencyID	320	
		listID	urn:oioubl:codelist:invoicetypecode-1.1	
	DocumentCurrencyCode		DKK	
	AccountingCost		5210121416	
OrderReference				
	ID		5002701	
	IssueDate		2006-04-01	
AccountingSupplierParty				
Party				
	EndpointID		DK16356706	
		schemeID	DK:CVR	
PartyIdentification				
	ID		DK16356706	
		schemeID	DK:CVR	
PartyName				
	Name		KommuneKredit	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Kultorvet	
	BuildingNumber		16	
	CityName		København K	

20

	PostalZone		1175	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356706	
		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		KommuneKredit	
	CompanyID		DK16356706	
		schemeID	DK:CVR	
Contact				
	ID		29295	
	Name		Hans Kredit	
	Telephone		26532147	
	ElectronicMail		hans@kk.dk	
AccountingCustomerParty				
Party				
	EndpointID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyIdentification				
	ID		5798000416604	
		schemeAgencyID	9	
		schemeID	GLN	
PartyName				
	Name		Gentofte Kommune, Økonomiservice	
PostalAddress				
	AddressFormatCode		StructuredDK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:addressformatcode-1.1	
	StreetName		Bernstorffsvej	
	BuildingNumber		161	
	CityName		Charlottenlund	
	PostalZone		2920	
Country				
	IdentificationCode		DK	
PartyTaxScheme				
	CompanyID		DK16356709	

		schemeID	DK:SE	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
PartyLegalEntity				
	RegistrationName		Gentofte Kommune, Økonomiservice	
	CompanyID		DK16356709	
		schemeID	DK:CVR	
Contact				
	ID		121519	
	Name		Sille Schyberg	
	Telephone		2653214	
	ElectronicMail		sille@gent.dk	
Delivery				
	ActualDeliveryDate		2006-04-15	
PaymentMeans				
	ID		1	
	PaymentMeansCode		42	
	PaymentDueDate		2006-04-25	
	PaymentChannelCode		DK:BANK	
		listAgencyID	320	
		listID	urn:oioubl:codelist:paymentchannelcode-1.1	
PayeeFinancialAccount				
	ID		0005704966	
	PaymentNote		A00095680	
FinancialInstitutionBranch				
	ID		9544	
PaymentTerms				
	ID		1	
	PaymentMeansID		1	
	Amount		6250.00	
		currencyID	DKK	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				

Class	Field	Attribute	Value	Note
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				
	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
LegalMonetaryTotal				
	LineExtensionAmount		5000.00	
		currencyID	DKK	
	TaxExclusiveAmount		1250.00	
		currencyID	DKK	
	TaxInclusiveAmount		6250.00	
		currencyID	DKK	
	PayableAmount		6250.00	
		currencyID	DKK	

8.7.1.3 InvoiceLine

Class	Field	Attribute	Value	Note
	ID		1	
	InvoicedQuantity		1.00	
		unitCode	EA	
	LineExtensionAmount		5000.00	
		currencyID	DKK	
OrderLineReference				
	LineID		1	
TaxTotal				
	TaxAmount		1250.00	
		currencyID	DKK	
TaxSubtotal				
	TaxableAmount		5000.00	
		currencyID	DKK	
	TaxAmount		1250.00	
		currencyID	DKK	
TaxCategory				
	ID		StandardRated	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxcategoryid-1.1	
	Percent		25	
TaxScheme				

	ID		63	
		schemeAgencyID	320	
		schemeID	urn:oioubl:id:taxschemeid-1.1	
	Name		Moms	
Item				
	Description		Opkrævning for marts termin 2006, lån nr: 123	
	Name		Opkrævning for marts termin 2006	
SellersItemIdentification				
	ID		5712345780121	
		schemeAgencyID	9	
		schemeID	GTIN	
Price				
	PriceAmount		5000.00	
		currencyID	DKK	
	BaseQuantity		1	
		unitCode	EA	
	OrderableUnitFactorRate		1	

The corresponding example instance files are provided as:

- ADVORD_06_05_00_OrderResponseSimple_v2p1.xml
- ADVORD_06_05_00_Invoice_v2p1.xml