



European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

CEN/ISSS WS/BII18

Punch Out

PROFILE DESCRIPTION

Business Domain: Post award procurement

Business Process: Sourcing

Document Identification: CEN/ISSS WS/Profile BII18

Version: 1.0

Release: 2009-11-05

Date of approval: 2009-11-05

Document Summary

This profile describes a process where a Customer access a website and receives a quote back to his own system (e.g. a public purchasing portal) for further processing, e.g. in the shopping basket. This will typically happens synchronically but could as well be sent asynchrony.

It is not the purpose to standardize the entire punch out process, e.g. how to validate the user who accesses the web site. In the document, Punch Out is seen as a context within a document exchange is performed. The protocol of how the documents are exchanges is seen out of scope.

The Quotation is chosen as transport message because, unlike the Catalogue, it contains quantity and the price is always concrete and binding.

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1 Preamble

The CEN/ISSS Workshop on business interoperability interfaces for public procurement in Europe (CEN/ISSS WS/BII) was established in order to

- Identify and document the required business interoperability interfaces related to pan-European electronic transactions in public procurement expressed as a set of technical specifications, developed by taking due account of current and emerging UN/CEFACT standards in order to ensure global interoperability;
- Co-ordinate and provide support to pilot projects implementing the technical specifications in order to remove technical barriers preventing interoperability.

To facilitate implementation of electronic commerce in a standardized way, thereby enabling the development of standardized software solutions as well as efficient connections between business partners without case by case specification of the data interchange, the workshop agreed to document the required business interoperability interfaces as profile descriptions. The end goal is to reduce the cost of implementing electronic commerce to a level that is economical for small and medium size companies and institutions.

1.1 Profile description

A profile description is a technical specification describing

- the choreography of the business process(es) covered, i.e. a detailed description of the way the business partners collaborate to play their respective roles and share responsibilities to achieve mutually agreed goals with the support of their respective information systems,
- the electronic business transactions exchanged as part of the business process and the sequence in which these transactions are exchanged,
- the business rules governing the execution of that business process(es), its business collaborations and business transactions, as well as any constraints on information elements used in the transaction data models
- the information content of the electronic business transactions exchanged by pointing to a given data model for each of the business transactions.

As well as determining what business transactions are used, the profile restricts their content in terms of elements and the cardinality of elements. The key standardization aspect of the profile description is thus on the organisational and semantics interoperability levels rather than on syntax within the technical interoperability level. Consequently the business transactions within a profile can be structured based on different message standards/syntax as long it contains all the necessary data elements.

Although the profile descriptions and transaction data models provided by CEN BII will be neutral of syntax, the workshop has agreed to provide specifications of how its data models may be mapped to defined syntaxes. This is done in order provide the market with implementable specifications.

It should be noted that the profile description does not attempt to address issues related to topics such as:

- the actual transmission of the electronic messages,
- security and confidentiality of the message exchange,
- integrity, authentication and auditing of information content or
- the process of implementing a solution based on the profile description.

These issues have however been addressed by other deliverables of the CEN/ISSS WS/BII (see section 2 for reference to relevant documents).

The main focus of the profile description and the associated transaction data models is to address generally expressed business requirements applicable throughout the European market. Although the profile description and associated transaction data model are designed to meet generally expressed requirements, it is still the responsibility of the users to ensure that the actual business transactions exchanges meets all the legal, fiscal and commercial requirements relevant to their business.

2 References

External documents

- UN/CEFACT Modelling Methodology (available at <http://www.untmg.org/specifications/>)
- UMM Meta Model – Foundation Module Version 1.0, Technical Specification, 2006-10-06
- UMM Meta Model – Base Module Version 1.0, Technical Specification, 2006-10-06
- UML (Unified Modelling Language), version 2.0
- UN/CEFACT ebXML Core Components Technical Specifications version 2.01 – ISO 15000-5
- UN/CEFACT Business Requirements Specification version 1.5 (CEFACT/ICG/005)

Related publications from CEN/ISSS WS/BII:

- CWA xxxx-1: Profile Overview
- CWA xxxx-1, annex A: Glossary of terms
- CWA xxxx-1, annex B: Profile Architecture
- CWA xxxx-1, annex C: Controlled Vocabulary Approach
- CWA xxxx-2: UBL-UN/CEFACT convergence (WG2)
- CWA xxxx-3: Toolbox Requirements (WG3)
- CWA xxxx-4: Pilot Support (WG4)

3 Business benefits and requirements

3.1 Business benefits

The main business benefits to be gained by implementation of this profile are:

Aspect	Beneficiary	Benefit
Enables tight integration with many suppliers.	Customer	In stead of having separate integration agreements with many different Suppliers, the same format can be used for them all.
Makes it possible to combine catalogues with quotations.	Customer Supplier	Some trade items are not suited for being expressed in a Catalogue. But instead having a different purchasing system for this, Punch Out can be used. If a customer wants to know the exact price for e.g. fish or meat he can jump to the Suppliers website, get the price and continue with purchasing other goods with more stable prices.
Automation of customized quotations.	Supplier	Some trade items as computers and print outs are only sold in a customized configuration and the price is dependent on the way the customer configures it. In stead of replicating the features to the customers system, a Punch Out to the suppliers system can be used.
Supports consolidated ordering.	Purchasing authority	The Quotation can be used in an internal requisition process where a purchasing department can consolidate the Orders using the data from the Quotation.

3.2 Business requirements

1. The Customer has login credibility that can be validated on the Supplier's website.
2. Based on the work the Customer performs on the Suppliers website he receives a Quotation.
3. The Customer uses the Quotation in his further work to purchase the goods or services he needs.

4 Profile detailed description

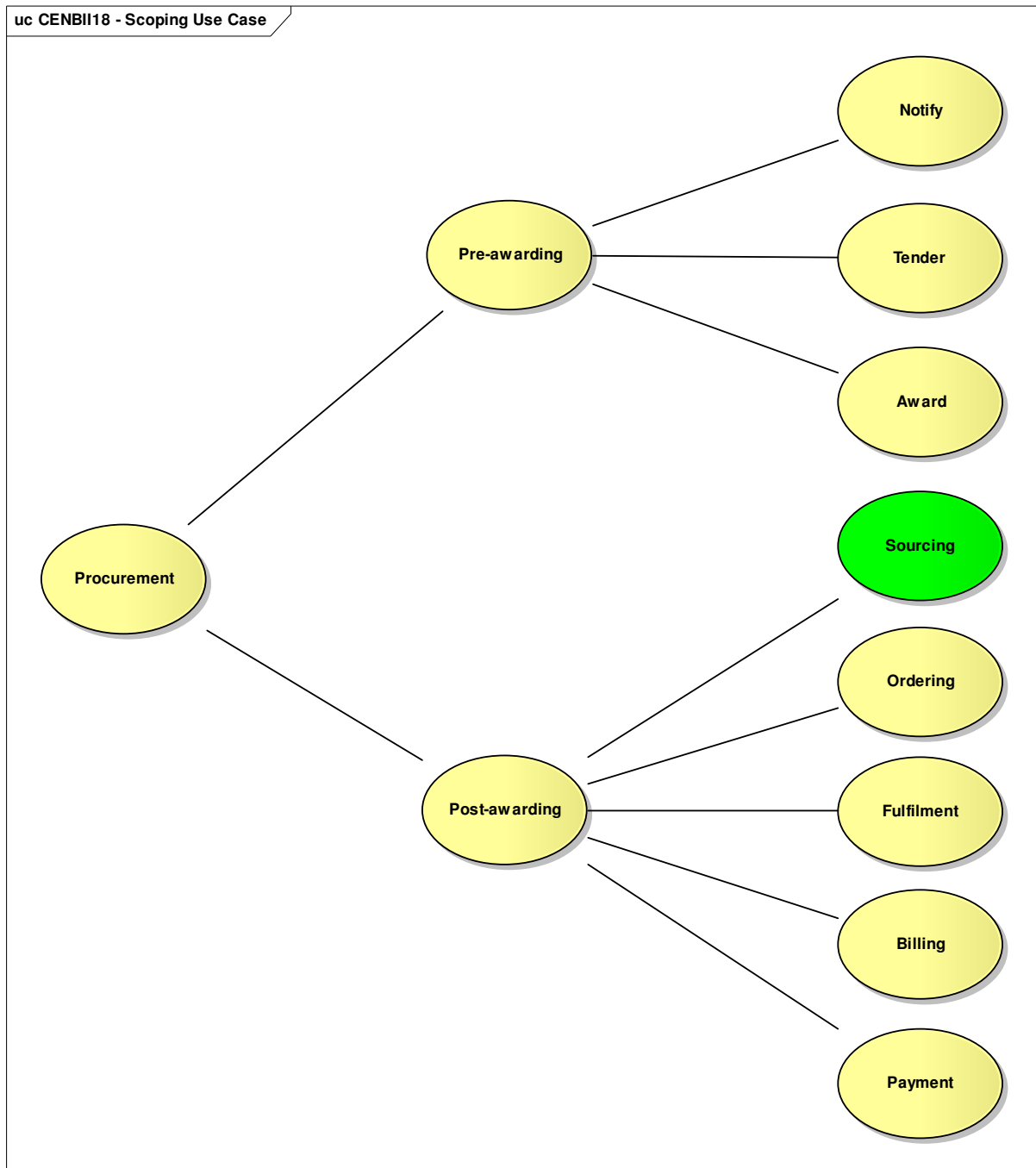
4.1 Context

The specification contained in this document is relevant within the following context:

Categories	Description and Values
Business Process	Sourcing
Product Classification	All types of goods, services and works.
Industry Classification	Buyer and Seller organisations in all sectors, public and private.
Geopolitical	EU, EEA, EFTA countries
Official Constraint	EU directives 2004/18/EC and 2004/17/EC
System Capabilities	None specific.

4.2 Business processes in scope

Post award procurement is a complex domain with several key processes, some of which are illustrated in the following figure.



The Punch Out profile covers the business processes highlighted in the above figure.

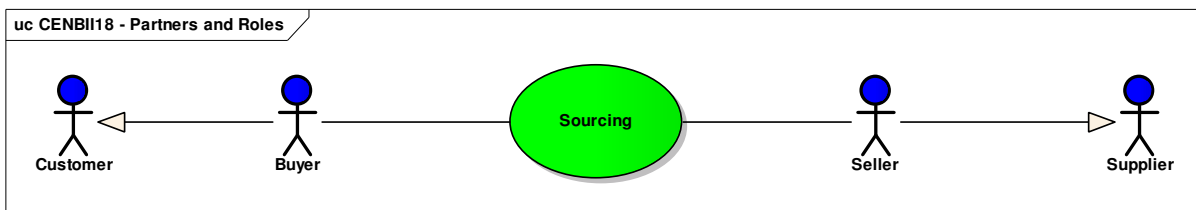
4.3 Partners and authorized roles

The following business partners participate in this profile, acting in the roles as defined below.

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

Supplier	The supplier is the legal person or organization who provides a product or service. Examples of supplier roles: seller, consignor, creditor, economic operator.
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Role/actor	Description
Buyer	The buyer is the legal person or organization acting on behalf of the customer and who buys or purchases the goods or services.
Seller	The seller is the legal person or organization acting on behalf of the supplier and who sells goods or services to the customer.

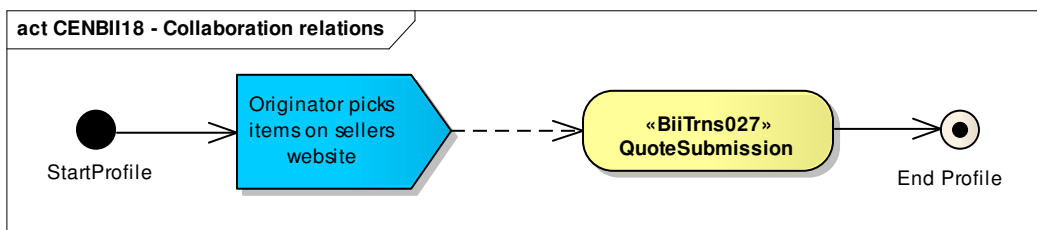


4.4 Choreography of business collaborations

Each business process in scope contains within itself one or more business collaborations:

Business Process	Business Collaboration(s)	Collaboration ID
Sourcing	QuoteSubmission	BiiColl027

The following diagram shows the relationships (i.e. links) between the collaborations of each business process implemented by the profile. The choreography of business collaborations defines the sequence of interactions when the profile is run within its context. Each sequence of interactions can be understood as a run-time scenario.



Description	The Customer accesses the Supplier’s web shop and specifies what he wants to purchase. The customer receives a Quotation from the Supplier’s web shop.
Pre-conditions	Buyer has access to the Supplier’s web shop.
Post-conditions	If the customer accepts the quotation it can be used as basic for producing an order.
Scenarios	This profile contains no scenarios.
Remarks	None.

4.4.1 Profile business rules

4.4.1.1 Process rules

- None identified.

4.4.1.2 Information constraints

ID	Data element	Context	Severity	Rule description
1	Reference to the originator	Quote Request	Soft	The Quotation transaction must contain information that identifies that it is based on a request originating from the Customer.

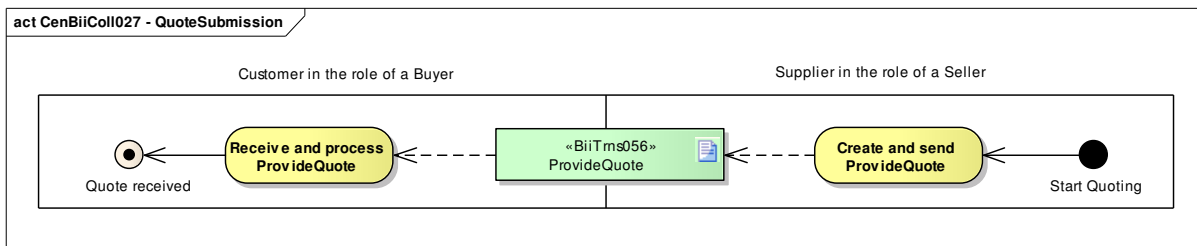
4.5 Business Collaborations(s) detailed descriptions

4.5.1 QuoteSubmission collaboration

4.5.1.1 Overview

Categories	Description and Values
Collaboration ID	BiiColl027
Description	A Seller provides a quote to a Buyer.
Pre condition	None
Post condition(s)	The Buyer has received a quote from the Seller.
Transactions	ProvideQuote - BiiTrns056
Roles	Buyer Seller

4.5.1.2 Diagram



4.5.1.3 Activity description

Role	Activity	Description
Main flow		
Seller	Create and send ProvideQuote	The Seller creates and sends a Quote to the Buyer.
Buyer	Receive and process ProvideQuote	Buyer receives and processes the Quote.

4.5.1.4 Collaboration business rules

4.5.1.4.1 Process rules

1. By sending a quote the Seller is legally committed by its content, i.e. if the Buyer submits an Order based on the Quote within the Quotes validity period a contract is established and the Buyer is obliged to pay for those goods and services and the Seller is obliged to supply.
2. A Seller may not supply the quoted items before receiving an acceptance.

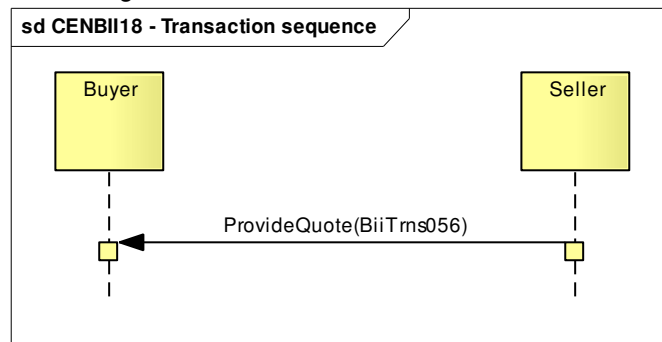
3. Unless otherwise stated in the terms of the Quote the Buyer may partially accept it. Partial acceptance can only be in terms of ordering some of the quoted items or less quantity than was quoted.
4. Reference to a contract or framework agreement may only be made at document level.
5. Document level information applies to all Quote lines.

4.5.1.4.2 Information constraints

Information constraints relevant to this collaboration are captured in the referenced transaction data model(s).

4.6 Transaction(s) detailed description

The figure below identifies the electronic messages exchanged as part of this process and the sequence in which these documents are exchanged.



4.6.1 Transaction data models

Transaction	Trns ID	Data Model	Data model ID, Core - Full
ProvideQuote	BiiTrms056	Quote	BiiCoreTrdm056 - BiiFullTrdm056

The identified transaction is elaborated in the following chapter.

4.6.2 ProvideQuote transaction

Categories	Description and Values
Identifier	BiiColl056
Description	A structured electronic business document that contains information directly relating to the economic event of providing a quote for products and/or services. Based on this document a Seller initiates a transaction with a Buyer for the supply of goods or services as specified.
Partner Types	Customer Supplier
Authorized Roles	Buyer Seller
Legal Implications	None specified.
Initial Event	Create and send ProvideQuote.
Terminal event	Receive and process ProvideQuote.
Scope	The quote can be used by itself as a quote from a Seller to a Buyer e.g. in response to quote request.
Boundary	None specified.

4.6.2.1 Transaction business rules

- None specified.