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

CEN/WS/BII2/BII30

BII30 – Dispatch Only

PROFILE

DRAFT

Business Domain: Post award procurement

Business Process: Dispatch

Document Identification: CEN/WS/BII2/Profile BII30

Version: 2.0

Release: 2012-06-27

Date of approval:

Document Summary

The Dispatch only profile describes a process providing electronic messaging support for the business process of fulfilment.

Editors

- Oriol Bausà Peris
- Georg Birgisson
- Fred van Blommestein
- Arofan Gregory
- Anders Kingstedt

Contributors

CEN/ISSS WS/BII2 Post Award Working group:

- Bergthor Skulason (chair)
- Antonia Caressa, Consip S.p.A., IT
- Arianna Brutti, Enea, IT
- Bao Nguyen, Difi, NO
- Douglas Hill, GS1, DK
- Flemming Moller Hansen, Evenex, DK
- Jan Bo Sørensen, Evenex, DK
- Jan Mærøe, DIFI, NO
- Jaroslav Fleijberk, GS1, CZ
- Joao Frade, PWC/EC, EU
- Jostein Frømyr, EDISYS, NO
- Klaus Vilstrup Pedersen, Difi, NO
- Martin Forsberg, SFTI, SE
- Michael Dill, Gefeg, DE
- Nicoletta Lippi, Consip S.p.A., IT
- Peter Borresen, ebConnect, DK
- Sören Lennartsson, SFTI, SE
- Sven Rasmussen, NITA, DK
- Veit Jahns, University of Duisburg-Essen, DE

Table of Contents

1 Introduction 4
1.1 CEN WS/BII2 profiles 4
1.2 CEN WS/BII2 Post award support 5
1.3 Implementation, conformance and customization 6

2 Business environment 8
2.1 Introduction 8
2.2 Objectives 8
2.3 Scope 8

3 Requirements 9
3.1 Process requirements 9
3.2 Information requirements 9
3.2.1 Dispatch Advice transaction business requirements 9

4 Profile detailed description 11
4.1 Business processes in scope 11
4.2 Roles involved 11
4.3 Dispatch Business Process 13
4.4 Transaction Information requirements 14
4.4.1 Dispatch Advice Transaction 14

5 Implementation 22

6 References 23
6.1 General references relevant for all BII profiles 23

1 Introduction

This profile is a deliverable of the CEN ISSS BII2 workshop.

The original CEN Workshop on **Business Interoperability Interfaces for public procurement in Europe** (CEN ISSS BII) was concluded in December 2009, and its results, including a set of profiles, were issued as **CWA 16073:2010**. The objective of the second phase of the workshop – CEN WS/BII2 – was to provide a framework for interoperability in pan-European electronic procurement transactions, expressed as a set of requirements and technical specifications. The requirements are input into UN/CEFACT and the specifications are compatible with UN/CEFACT in order to ensure global interoperability.

Based on user input the CEN WS/BII2 has issued a number of new profiles and reviewed and updated a number of the profiles published as part of CWA 16073:2010. One of the new profiles is profile BII30 that describes the Dispatch Only process.

1.1 CEN WS/BII2 profiles

A CEN WS/BII2 profile description is a technical specification describing

- the choreography of the business process 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, with their information requirements, and the sequence in which these transactions are exchanged,
- the business rules governing the execution of that business process, as well as any constraints on information elements used in the transaction data models

The profiles focus on the standardization on the organisational and semantics interoperability levels rather than on syntax or technical interoperability levels. Consequently the business transactions within a profile can be structured based on different message standards/syntax as long it can carry all the necessary information elements.

Although the profile descriptions and transaction data models provided by CEN WS/BII2 are neutral of syntax, the workshop also published specifications of how its data models may be mapped to defined syntaxes. This is done in order provide implementable specifications.

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 is designed to meet generally expressed requirements, it is still the responsibility of the users to ensure that the actual business transactions meet all the legal, fiscal and commercial requirements relevant to their business.

BII profiles describe common business processes. Stating what business practices are “common” depends on regions and industries that may have their own practices and needs, as well as on work practices within individual companies. Describing what business processes are “common” is therefore a qualitative process. This section sets out to identify what business practices can be listed as “common” and should therefore be supported by the profile. The benchmark is that the common business process is a process that is used by a wide range of companies in different industries and regions or is generally recognized as being relevant for most companies. The method for collecting is through input and expert advice from workshop participants, through existing documentation and expert review.

Each document acts as carrier of information between a seller and a buyer. Some of this information is directly related to its core function but additionally and frequently contains information that is used for related business processes. The nature of which and details depend on the industry and bilateral business relations.

In BII profiles, requirements of the information content of the documents are related to the business process in which the documents are exchanged. The business process in scope of the profile is identified in section 2. In section 3, the business requirements, taken into account, are listed, both on process level and on document/transaction level. In section 4, these requirements are modelled into UML activity diagrams and

into Transaction Information Requirement models. Additional Transaction Business Rules are included in section 4 as well.

The requirement models are syntax neutral. The mapping of the models to available syntaxes is outside the scope of the profiles, but is referenced to in section 5.

1.2 CEN WS/BII2 Post award support

The BII workshop has developed a set of profiles to support interoperability in the pre and post award areas. The scope of BII2 is public procurement but the profiles apply as well to private trade since most public trade involves private suppliers.

The scope of BII2 post award profiles include processes that support communication of catalogues, orders and invoices. These may link with other support processes like transport, inventory and payment, but these other processes are currently out of scope for the workshop.

The set of BII profiles for supporting the post award area are:

Profile		Processes	Transactions	Version
BII33	Catalogue subscription	Sourcing	Catalogue Subscription Request Catalogue Subscription Request Acceptance Catalogue Subscription Request Rejection	BII2
BII01	Catalogue only	Sourcing	Submit Catalogue Accept Catalogue Reject Catalogue	BII2
BII17	Multi Party Catalogue	Sourcing	Catalogue Request Catalogue Request Rejection Multiparty Catalogue	BII2
BII02	Catalogue update	Sourcing	Submit Catalogue Item Update Submit Catalogue Price Update Accept Catalogue Update Reject Catalogue Update	BII2
BII16	Catalogue Deletion	Sourcing	Catalogue Deletion Request Catalogue Deletion Confirmation	BII2
BII18	Punch Out	Ordering	Provide Quote	BII1
BII20	Customer Initiated Sourcing	Sourcing	Request Quote Provide Quote Reject Quote	BII1
BII03	Order only	Ordering	Order Submission	BII2
BII32	Simple ordering	Ordering	Order Submission Simple Order Response	BII2
BII28	Ordering	Ordering	Order Submission Order Response	BII2
BII27	Advanced ordering	Ordering	Order Submission Order Acceptance Order Rejection Seller Counter Offer Buyer Counter Offer Counter Offer Acceptance Order Withdrawal	BII2
BII04	Invoice Only	Billing	Invoice	BII2
BII15	Scanned invoice	Billing	Submit Invoice Correct with Credit Request Rescan	BII1
BII09	Customs Bill	Billing	Submit Invoice Correct with Debit Correct with Credit	BII1
BII05	Billing	Billing	Invoice Credit Note Corrective Invoice	BII2
BII23	Invoice only with dispute	Billing	Submit Invoice Dispute Invoice	BII1
BII06	Procurement	Ordering, Billing	Order Submission Order Acceptance Order Rejection Invoice Credit Note Corrective Invoice	BII2

Profile		Processes	Transactions	Version
BII07	Procurement with invoice dispute	Ordering, Billing	Submit Order Accept Order Reject Order Submit invoice Dispute Invoice Correct with Invoice Correct with Credit	BII1
BII31	Reminder only	Payment	Payment Reminder	BII2
BII21	Statement	Payment	Statement Statement Rejection	BII2
BII08	Billing with dispute and reminder	Billing, Payment	Submit Invoice Dispute Invoice Correct with Invoice Correct with Credit Issue Reminder	BII1
BII19	Advanced Procurement	Ordering, Billing, Payment	Submit Order Accept Order Reject Order Submit Counter Offer Accept Counter Offer Reject Counter Offer Submit invoice Dispute Invoice Correct with Invoice Correct with Credit Issue Reminder	BII1
BII30	**Dispatch only**	**Fulfilment**	**Dispatch Advice**	**BII2**
BII29	Utility statement	Fulfilment	Utility Statement Utility Statement Acceptance Utility Statement Rejection	BII2
BII13	Advanced Procurement with Dispatch	Ordering, Fulfilment, Billing, Payment	Submit Order Accept Order Reject Order Submit Counter Offer Accept Counter Offer Reject Counter Offer Provide Dispatch Advice Submit invoice Dispute Invoice Correct with Invoice Correct with Credit Issue Reminder	BII1

This profile is to be used in environments where only dispatch advising is to be implemented. If Dispatching is to be combined with Ordering and/or Invoicing, profile BII13 - Advanced Procurement with Dispatch should be implemented. In cases the product or service is metered, profile BII29 - Utility Statement applies.

1.3 Implementation, conformance and customization

CEN WS/BII2 profiles define the core functionality that is required in order to achieve interoperability for the business processes that are covered. Parties, claiming conformance to a CEN WS/BII2 profile must be capable of:

- Processing all non-optional transactions that are defined in the profile
- Sending all mandatory elements within the transactions
- Processing all elements within the transactions they receive

Parties may agree bilaterally or within certain communities to extend the core set of information elements, or to adapt their cardinality. This extension mechanism is described in the BII Technical Guideline: BII conformance and customization.

In order to implement the profile, the transactions are to be represented in some syntax. Syntax representation is outside the scope of this profile; however, the mapping of the profile transactions to UBL 2.0 and to UN/CEFACT is described in section 5 of this profile. In section 5, reference is made to technical

documents such as XML schemas, Schematron files and example messages to support technical implementation.

Implementations of this profile may be validated by means of tools and supporting material, as described in the BII Technical Guideline: BII implementation and use of validation artefacts. More background information and support material can be found on the CEN WS/BII2 website http://www.cenbii.eu/.

2 Business environment

2.1 Introduction

The BII30 – Dispatch Only profile describes dispatch advising between supplier and customer, to support the fulfilment process. It describes a series of activities that govern communication between the parties, data and rules that apply.

The Dispatch Advice is sent isolated; previous activities (e.g. Ordering) and subsequent activities (e.g. Invoicing) are outside the scope of this profile. They may be performed manually. If performed electronically, their implementation is covered by other profiles.

2.2 Objectives

The business objectives for implementing this profile are:

1. The profile is a basis for an EDI agreement between the parties and enables trading partners to communicate without a previous bi-lateral setup or agreements.
2. Is a basis for automated handing of dispatch advices in a semi manual environment.
3. Enables customers to set up a standardized fulfilment process.
4. Suppliers of goods can offer their trading partners the option of standardized documents in a uniform way and thereby move information about all deliveries into electronic form and set up a standardized reception of goods process.
5. Significant saving can be realized by the procuring agency by automating and streamlining in-house processing.
6. Significant saving can be realized by the suppliers by automating and streamlining in-house processing: approval, picking and invoicing can be improved significantly based on increased delivery quality.

2.3 Scope

This profile supports exchange of delivery information using the dispatch advice transaction. It is intended to support transmission of electronic documents for processing in semi automated processes by the receiver. The intended scope for this profile includes:

- B2B and B2G
- Common business processes for cross industry and cross border ordering
- Regional procurement within EU and EEA. The profile is expected to be applicable to other regions following a review of regional requirements.
- Mainly for purchase of goods and services and/or services that can be itemized.

The transactions, specified in this profile are intended to be exchanged between the application systems of customers and suppliers. This means that it is expected that customers and suppliers have connected their systems to the internet, and that they have middleware in place to enable them to send and receive the transactions in a secure way, using an agreed syntax.

3 Requirements

3.1 Process requirements

This section identifies the major business processes that are frequently supported within delivery of goods and will clarify if and how they are supported in this profile. The dispatching process informs the buyer about a delivery of goods with reference to ordered items. This profile supports a “common business process” that is used widely or understood as being relevant for most companies. The main activities supported by this profile are:

Transport
The dispatch advice support fully description of how the goods are packed and delivered.

Ordering
Dispatch states what is shipped: the quantity of goods shipped and what is outstanding. It does not report on deviations from what was ordered, like replacement goods or partial delivery.

Receiving goods
The Dispatch Advice fully supports the process of receiving goods into a warehouse, inventory, in stores or simply at reception counter. The document enables the receiver of the goods to organize the receiving process or further delivery in-house.

The dispatch advice allows the receiver to verify content of shipment and to check the state of the goods themselves. Resolution of issues that may arise is out of scope.

3.2 Information requirements

3.2.1 Dispatch Advice transaction business requirements

General requirements

ID	Requirement
tbr16-001	The dispatch advice message is used by the supplier to indicate to the receiver, the goods to be delivered and how they are packaged.
tbr16-002	To support transportation of goods, a delivery is taken to be a number of items that are dispatched as a single consignment to a single delivery address. ➢ Each delivery must be accompanied by its own dispatch advice ➢ Each dispatch advice relates to one delivery address ➢ there may be multiple dispatch advices to cover one purchase order
tbr16-003	The dispatch advice may refer to an order. ➢ Each dispatch advice relates to one purchase order.
tbr16-011	The dispatch advice may state the reason for the chosen mode/means of transport.

Parties

ID	Requirement
tbr16-004	The dispatch advice must identify the dispatch party, who is responsible for the physical dispatch. ➢ The dispatch party may act on behalf of the supplier ➢ The receiver of goods may need to contact a person responsible for dispatching the goods.
tbr16-005	The dispatch advice must identify the consignee, who is responsible for receiving the goods. ➢ The receiver may act on behalf of the customer. ➢ The customer may need to be able to look up or verify the actual delivery address of the goods. The delivery address is where the dispatched items have been shipped.
tbr16-006	The dispatch advice must identify the Buyer, who is the commercially responsible party on whose behalf the goods are being received. ➢ The buyer is identified providing at least a full name and a postal address

ID	Requirement
	➢ The buyer party information includes contact person that issuer or receiver can contact about status of delivery, like in-house routing from inventory or reception.
tbr16-012	The dispatch advice may include the delivery address.
tbr16-013	The dispatch advice must identify the Seller, who is legally responsible for providing the goods and on whose behalf the goods are being sent. ➢ The Seller is identified providing at least the full name and, the postal address and the VAT number ➢ The Seller party information includes contact person that issuer or receiver can contact about status of dispatch.
tbr16-014	If the physical transport is provided by a third party, the dispatch advice must identify that carrier. ➢ The carrier information may include the name of the driver.

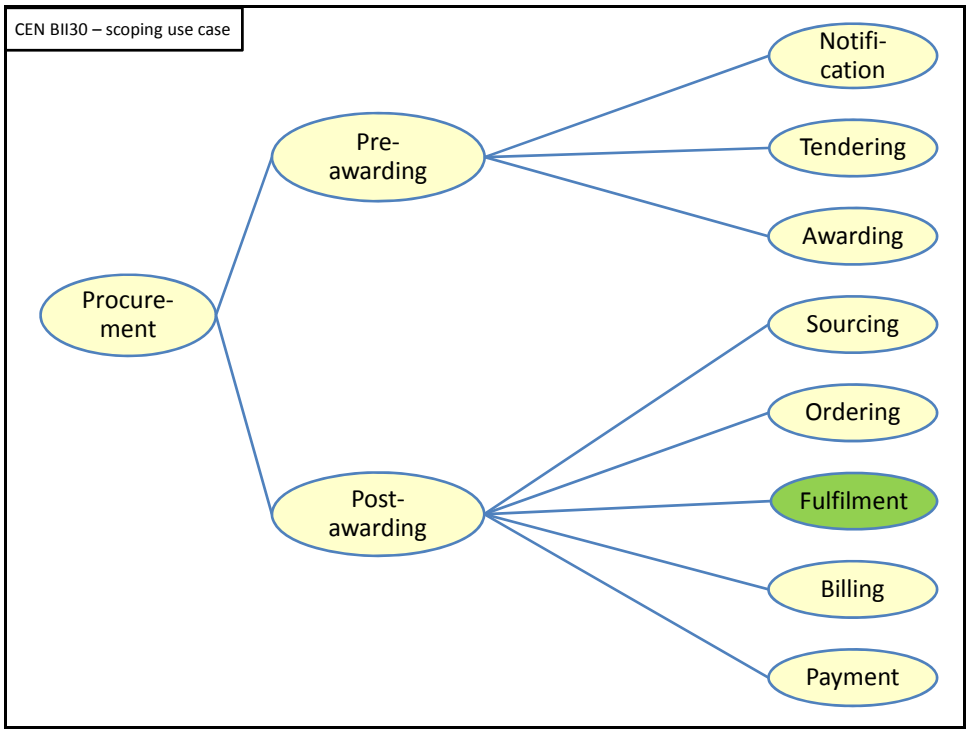
Line Item

ID	Requirement
tbr16-007	Each dispatch statement line should describe dispatching of each order line. The line should provide reference to ➢ order line, ➢ delivered quantity, outstanding quantity (to be delivered on a different shipment). ➢ The line should provide for line note.
tbr16-008	Each line should identify the product shipped so the receiver can verify its content. This may include ➢ Item name, ➢ Seller id ➢ Item standard id
tbr16-009	Each line should identify hazardous items that may require special handing during transport, receiving of goods and storage.
tbr16-010	Each line may identify the transport handling unit for each item delivered. The handling units may have external marking or bar codes that - during reception of goods - allow tracking and locating package units that the goods are placed in.

4 Profile detailed description

4.1 Business processes in scope

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



The Dispatch only profile covers part of the business processes as highlighted in the above figure.

4.2 Roles involved

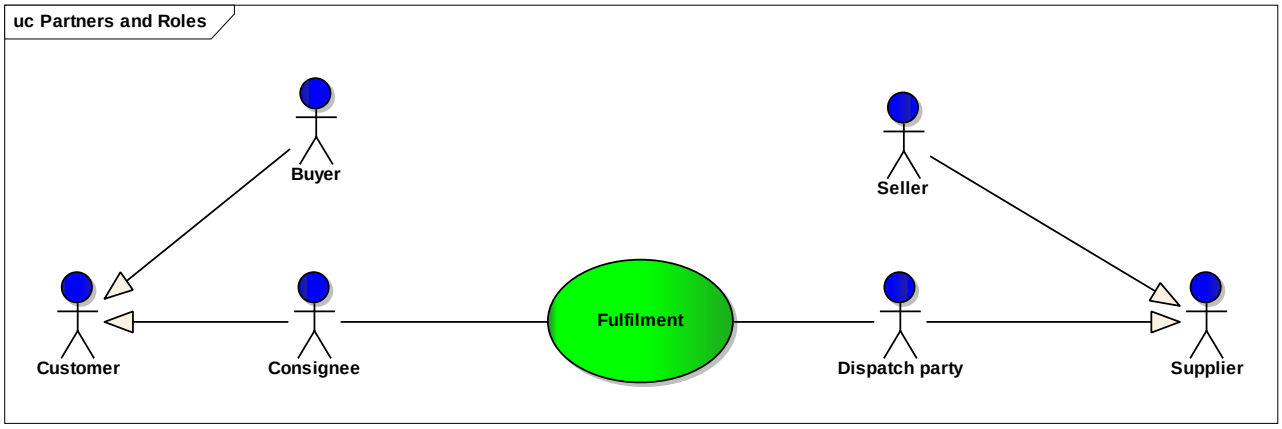
The following business partners participate in this profile, acting in the roles as defined below.

Business partners	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, dispatch party, consignor, creditor, economic operator.

Role/actor	Description
Consignee	The consignee is the person or organization to which the products will be shipped and who is taking possession.
Consignor	The consignor is the person or organization who provides (dispatch) the goods or services on behalf of the supplier.

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.

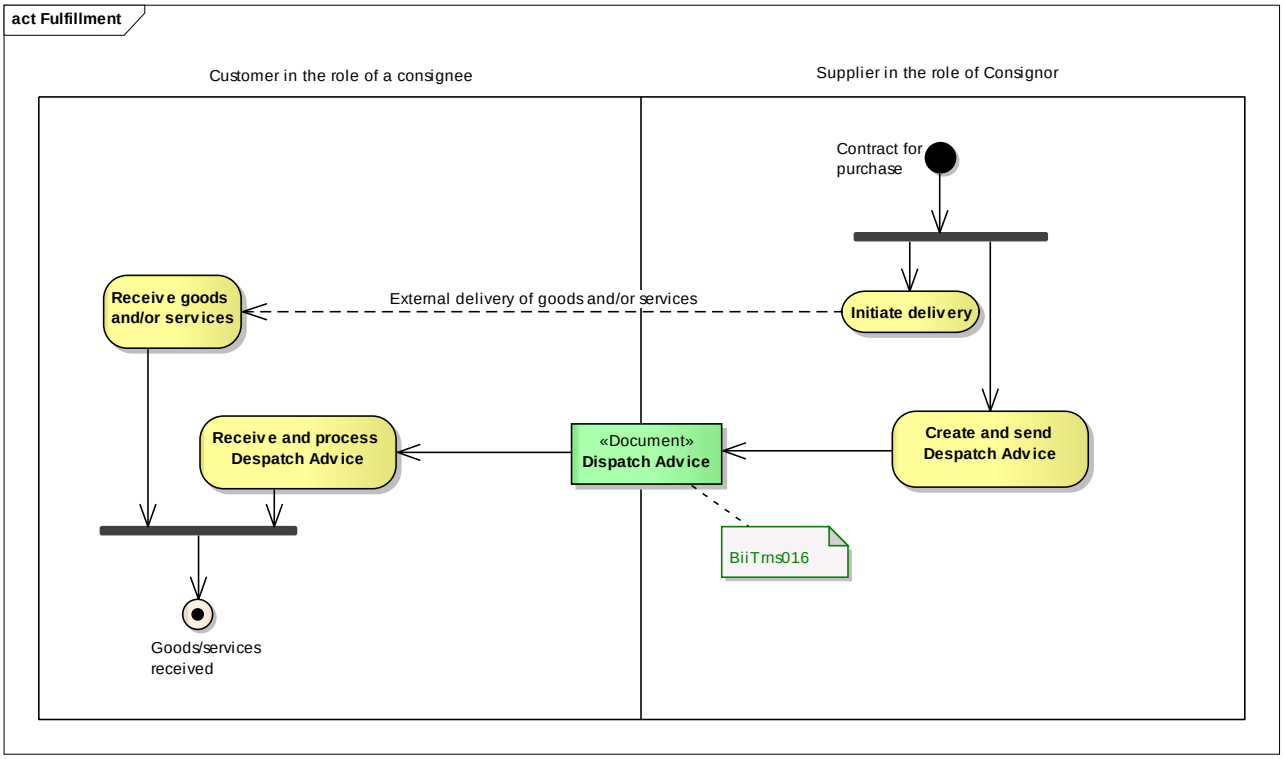
The following diagram links the business processes to the roles performed by the Business Partners.



Note that the Dispatch party may be distinct from the Consignor. The Consignor is the role of a party as principal of a carrier. The Dispatch party is the role to physically ship the goods. The Dispatch party is responsible for the shipped quantities.

4.3 Dispatch Business Process

The following diagram shows the choreography of the business process implemented by the profile. The choreography of business collaborations defines the sequence of interactions when the profile is run within its context.



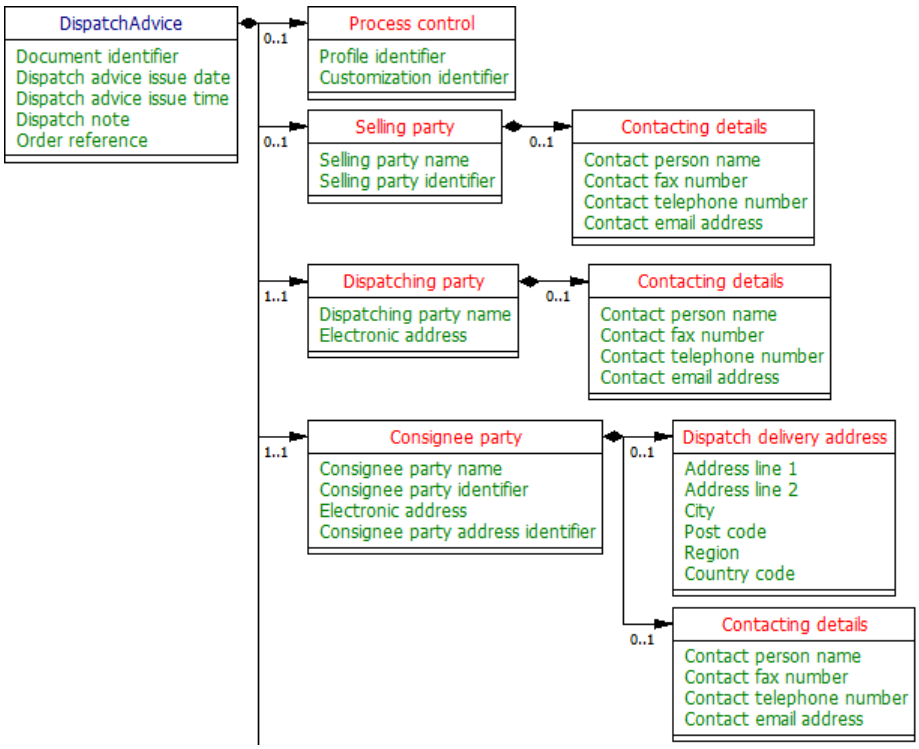
Categories	Description and Values
Description	Following the establishment of a contract for purchase the Supplier, in the role of Dispatch party, delivers or provides the contracted good or services to the Customer, who has the role of a Consignee.
Pre condition	The Customer and the Supplier have established a contract for purchase of goods or services.
Post condition(s)	The Customer, as Consignee, has received the contracted goods or services and a dispatch advice detailing what has been dispatched.
Transactions	ProvideDispatchAdvice - BiiTrns016
Roles	Dispatch Party Consignee

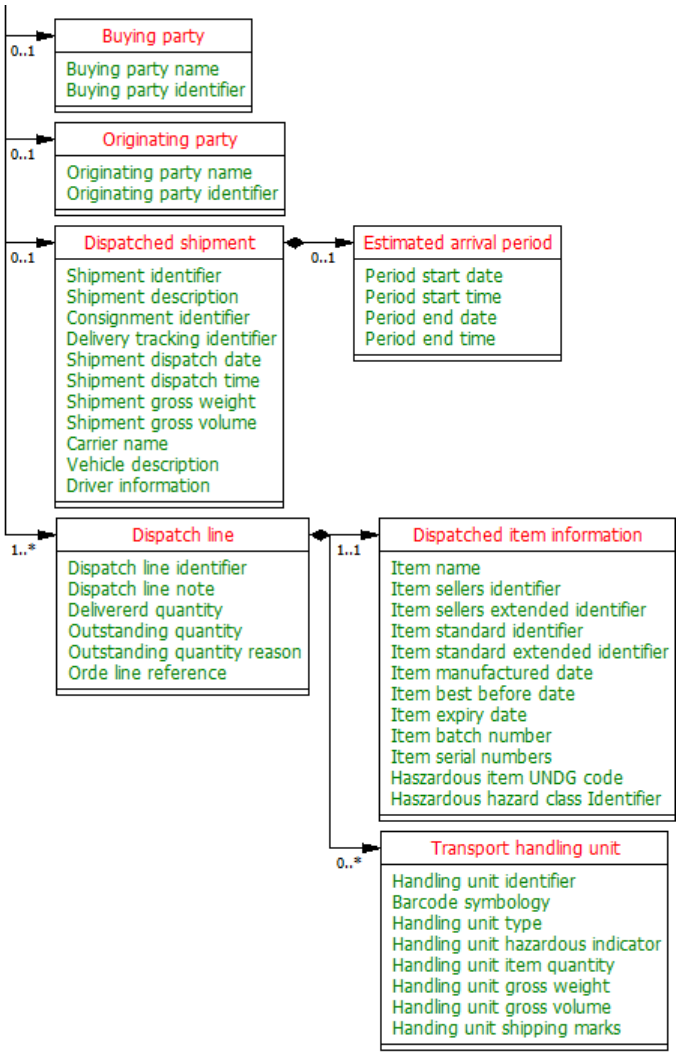
4.4 Transaction Information requirements

4.4.1 Dispatch Advice Transaction

Categories	Description and Values
Identifier	BiiTrns016
Description	A Dispatch party sends a Dispatch Advice to a Consignee to announce the delivery of ordered goods or services
Partner Types	Supplier Customer
Authorized Roles	Dispatch party Consignee
Legal Implications	See business rules below.
Initial Event	Send Dispatch Advice.
Terminal event	Receive Dispatch Advice
Constraints	See business rules below

4.4.1.1 Dispatch Advice Transaction Information Requirements Model




Buying party
Buying party name
Buying party identifier
0..1
Originating party
Originating party name
Originating party identifier
0..1
Dispatched shipment
Shipment identifier
Shipment description
Consignment identifier
Delivery tracking identifier
Shipment dispatch date
Shipment dispatch time
Shipment gross weight
Shipment gross volume
Carrier name
Vehicle description
Driver information
0..1
Estimated arrival period
Period start date
Period start time
Period end date
Period end time
0..1
Dispatch line
Dispatch line identifier
Dispatch line note
Delivererd quantity
Outstanding quantity
Outstanding quantity reason
Orde line reference
1..*
Dispatched item information
Item name
Item sellers identifier
Item sellers extended identifier
Item standard identifier
Item standard extended identifier
Item manufactured date
Item best before date
Item expiry date
Item batch number
Item serial numbers
Haszardous item UNDG code
Haszardous hazard class Identifier
1..1
Transport handling unit
Handling unit identifier
Barcode symbology
Handling unit type
Handling unit hazardous indicator
Handling unit item quantity
Handling unit gross weight
Handling unit gross volume
Handing unit shipping marks
0..*

4.4.1.2 Dispatch Advice Transaction Information Requirements

InfRqID	Crd	Tree and Business term	Usage	Data Type	ReqID	InfCID	Note
		DispatchAdvice					
tir16-003	1..1	Document identifier	An transaction instance must contain an identifier. The identifier enables positive referencing the document instance for various purposes including referencing between transactions that are part of the same process.	BiiDT::Undefined			
tir16-004	1..1	Dispatch advice issue date	The date on which the transaction instance was issued. The date when the despatch advice is issued.	BiiDT::Date			
tir16-005	0..1	Dispatch advice issue time	The time when the despatch advice is issued.	BiiDT::Time			
tir16-088	0..1	Dispatch note	A textual note for the dispatch as whole.	BiiDT::Text			
tir16-006	0..1	Order reference	Used to provide a reference to the order on which the despatch is based.	BiiDT::Undefined	tbr16-003		
	0..1	Process control	Information about the specification that apply to the transaction.	CENBII common structures::Process control			
tir16-001	1..1	Profile identifier	Identifies the BII profile or business process context in which the transaction appears.	BiiDT::Code	tbr00-001		
tir16-002	1..1	Customization identifier	Identifies the specification of content and rules that apply to the transaction.	BiiDT::Code	tbr00-002		
	0..1	Selling party	The party who sells the dispatched items to the buying party.	Main::Selling party			
tir16-065	0..1	Selling party name	The originator party name.	BiiDT::Text	tbr16-013		
tir16-066	0..1	Selling party identifier	The originator party identifier.	BiiDT::Undefined	tbr16-013		
	0..1	Contacting details	Used to provide contacting information for a party in general or a person.	CENBII common structures::Contacting details			
tir16-067	0..1	Contact person name	The name of the contact person. Provides means to specify how delivery of the ordered items should be done.	BiiDT::Text	tbr16-013		
tir16-068	0..1	Contact fax number	A fax number for the contact persons.	BiiDT::Undefined	tbr16-013		
tir16-069	0..1	Contact telephone number	A phone number for the contact person. If the person has a direct number, this is that number.	BiiDT::Undefined	tbr16-013		
tir16-070	0..1	Contact email address	The e-mail address for the contact person. If the person has a direct e-mail this is that email.	BiiDT::Undefined	tbr16-013		
	1..1	Dispatching party	The issuer of the dispatch advice document on behalf of the seller and who is responsible for the physical dispatch.	Main::Dispatching party			
tir16-007	0..1	Dispatching party name	The name of the dispatching party	BiiDT::Text	tbr16-004		
tir16-071	0..1	Electronic address	A dispatch adivce may contain the dispatchin party electronic address. The address can be of any format and the format should be identified in the message.	BiiDT::Identifier			
	0..1	Contacting details	Used to provide contacting information for a party in general or a person.	CENBII common structures::Contacting details			

InfRqID	Crd	Tree and Business term	Usage	Data Type	ReqID	InfCID	Note
tir16-008	0..1	Contact person name	The name of the contact person.	BiiDT::Text	tbr16-004		
tir16-010	0..1	Contact fax number	A fax number for the contact persons.	BiiDT::Undefined	tbr16-004		
tir16-012	0..1	Contact telephone number	A phone number for the contact person. If the person has a direct number, this is that number.	BiiDT::Undefined	tbr16-004		
tir16-013	0..1	Contact email address	The e-mail address for the contact person. If the person has a direct e-mail this is that email.	BiiDT::Undefined	tbr16-004		
	1..1	Consignee party	The receiver of the dispatch advice document on behalf of the buyer and who is responsible for the physical receiving and approves receipt of goods.	Main::Consignee party			
tir16-014	0..1	Consignee party name	The name of the receiving party.	BiiDT::Text	tbr16-005		
tir16-015	0..1	Consignee party identifier	The receiving party identifier.	BiiDT::Undefined	tbr16-005		
tir16-016	0..1	Electronic address	A dispatch adivce may contain the dispatchin party electronic address. The address can be of any format and the format should be identified in the message.	BiiDT::Identifier			
tir16-017	0..1	Consignee party address identifier	An identifier for a specific address within a scheme of registered addresses. Identifying the addess to where the items have been dispatched.	BiiDT::Identifier	tbr16-005		
	0..1	Dispatch delivery address	Address information. The address to where the dispached items have been shipped.	CENBII common structures::Postal address			
tir16-018	0..1	Address line 1	The main address line in a postal address usually the street name and number.	BiiDT::Undefined	tbr16-012		
tir16-019	0..1	Address line 2	An additional address line in a postal address that can be used to give further details supplementing the main line. Common use are secondary house number in a complex or in a building.	BiiDT::Undefined	tbr16-012		
tir16-020	0..1	City	The common name of the city where the postal address is. The name is written in full rather than as a code.	BiiDT::Undefined	tbr16-012		
tir16-021	0..1	Post code	The identifier for an addressable group of properties according to the relevant national postal service, such as a ZIP code or Post Code.	BiiDT::Undefined	tbr16-012		
tir16-022	0..1	Region	For specifying a region, county, state, province etc. within a country by using text.	BiiDT::Undefined	tbr16-012		
tir16-023	0..1	Country code	The country where the address is. The country should always be given by using ISO code 3166 alpha 2	BiiDT::Code	tbr16-012		
	0..1	Contacting details	Used to provide contacting information for a party in general or a person.	CENBII common structures::Contacting details			
tir16-024	0..1	Contact person name	The name of the contact person.	BiiDT::Text	tbr16-005		
tir16-026	0..1	Contact fax number	A fax number for the contact persons.	BiiDT::Undefined	tbr16-005		
tir16-027	0..1	Contact telephone number	A phone number for the contact person. If the person has a direct number, this is that number.	BiiDT::Undefined	tbr16-005		

InfRqID	Crd	Tree and Business term	Usage	Data Type	ReqID	InfCID	Note
tir16-028	0..1	Contact email address	The e-mail address for the contact person. If the person has a direct e-mail this is that email.	BiiDT::Undefined	tbr16-005		
	0..1	Buying party	The commercially responsible party on whos behalf the goods are being received.	Main::Buying party			
tir16-029	0..1	Buying party name	The name of the buying party	BiiDT::Text	tbr16-006		
tir16-030	0..1	Buying party identifier	The buying party identifier	BiiDT::Undefined	tbr16-006		
	0..1	Originating party	The party who will eventually receive and consume the goods and on whos behalf the buyer makes the purchase.	Main::Originating party			
tir16-031	0..1	Originating party name	The originator party name.	BiiDT::Text			
tir16-032	0..1	Originating party identifier	The originator party identifier.	BiiDT::Undefined			
	0..1	Dispatched shipment	Description of the actual shipment that contains the goods that are being dispached.	Main::Dispatched shipment			
tir16-038	1..1	Shipment identifier	Identifies a shipment.	BiiDT::Undefined			
tir16-039	0..1	Shipment description	Free-form text applying to a shipment. This element may contain notes or any other similar information that is not contained explicitly in another structure.	BiiDT::Text			
tir16-040	0..1	Consignment identifier	An association to Consignment covering the shipment. Unique number assigned to goods, both for import and export.	BiiDT::Undefined			
tir16-041	0..1	Delivery tracking identifier	Used to provide a tracking id for delvivery e.g. UPS or postal.	BiiDT::Identifier			
tir16-072	0..1	Shipment dispatch date		BiiDT::Date			
tir16-073	0..1	Shipment dispatch time		BiiDT::Time			
tir16-074	0..1	Shipment gross weight	The total weight of the shipment including packaging, as dispatched from the dispatching party.	BiiDT::Measure			
tir16-075	0..1	Shipment gross volume	The total volume of the shipment including packaging, as dispatched from the dispatching party.	BiiDT::Measure			
tir16-076	0..1	Carrier name	The name of the carrier that handles the delivery of the dispatched shipment.	BiiDT::Text	tbr16-014		
tir16-077	0..1	Vehicle description	Description and/or identification of the vehicle that tranpsorts the dispatched shipment.	BiiDT::Text	tbr16-014		
tir16-078	0..1	Driver information	Identification about the driver of the vehicle that delivers the dispatched shipment.	BiiDT::Text	tbr16-014		
	0..1	Estimated arrival period	The estimated period for the arrival of the shipment at the delivery address.	CENBII common structures::Time period			
tir16-042	0..1	Period start date	The start date of the period	BiiDT::Date			
tir16-043	0..1	Period start time	The start time of the period.	BiiDT::Time			
tir16-044	0..1	Period end date	The end date of the period.	BiiDT::Date			
tir16-045	0..1	Period end time	The end time of the period.	BiiDT::Time			
	1..n	Dispatch line	Description of items that that are being dispatched.	Main::Dispatch line			
tir16-046	1..1	Dispatch line identifier	A indentifier for the individual line in the despatch advice.	BiiDT::Undefined	tbr16-007		

InfRqID	Crd	Tree and Business term	Usage	Data Type	ReqID	InfCID	Note
tir16-047	0..1	Dispatch line note	General note regarding the despach advice line. Free-form text applying to the Despatch Line. This element may contain notes or any other similar information that is not contained explicitly in another structure.	BiiDT::Text	tbr16-007		
tir16-048	0..1	Delivererd quantity	The quantity that is despatched in the line.	BiiDT::Quantity	tbr16-007		
tir16-049	0..1	Outstanding quantity	The quantity outstanding (which will follow in a later shipment).	BiiDT::Quantity	tbr16-007		
tir16-050	0..1	Outstanding quantity reason	The reason for the outstanding quantity.	BiiDT::Text	tbr16-007		
tir16-051	0..1	Orde line reference	To uniquely identify the line of the order that is being despatched.	BiiDT::Undefined	tbr16-007		
	0..1	Dispatched item information	Information about an item. Detailed specification of the item covered with this despatch line.	Main::Dispatched item information			
tir16-052	0..1	Item name	A short name for an item.	BiiDT::Text	tbr16-008		
tir16-053	0..1	Item sellers identifier	The sellers identifier for the item.	BiiDT::Undefined	tbr16-008		
tir16-054	0..1	Item sellers extended identifier	An extended identifier for the item that identifies the item with specific properties, e.g., Item 123 = Chair / Item 123 Ext 45 = brown chair.	BiiDT::Undefined	tbr16-008	If provided then sellers id must also be provided.	
tir16-055	0..1	Item standard identifier	A item identifier based on a registered schema.	BiiDT::Identifier	tbr16-008		
tir16-056	0..1	Item standard extended identifier	with specific properties, e.g., Item 123 = Chair / Item 123 Ext 45 = brown chair.	BiiDT::Identifier	tbr16-008	If provided then standard id must also be provided.	
tir16-079	0..1	Item manufactured date	The manufacturing date of all items listed in this dispatch line.	BiiDT::Date			
tir16-080	0..1	Item best before date	The best before date of all items listed in this dispatch line.	BiiDT::Date			
tir16-081	0..1	Item expiry date	The expiry date of all items listed in this dispatch line.	BiiDT::Date			
tir16-082	0..1	Item batch number	The batch number that applies to all items in the dispatch line.	BiiDT::Text			
tir16-083	0..n	Item serial numbers	Serial numbers for items listed in the dispatch line.	BiiDT::Text			
tir16-057	0..1	Haszardous item UNDG code	The identifier assigned to transportable hazardous goods by the United Nations, expressed as a code.	BiiDT::Text	tbr16-009		
tir16-058	0..1	Haszardous hazard class Identifier	Identifies a hazard class applicable to dangerous goods as defined by the relevant regulation authority, such as the IMDG Class Number of the SOLAS Convention of IMO and the ADR/RID Class Number for the road/rail environment.	BiiDT::Text	tbr16-009		
	0..n	Transport handling unit	A despcription of individual handling units in which the line items are packed.	Main::Transport handling unit			
tir16-061	0..1	Handling unit identifier	Identifies the transport handling unit.	BiiDT::Undefined	tbr16-010		
tir16-084	0..1	Barcode symbology	The type of the barcode that is printed on the handling unit and represents the handling unit identifier. Examples of bar code symbologies are UPC, EAN-13, GS1-128, QR Code.	BiiDT::Code	tbr16-010		
tir16-085	0..1	Handling unit type	The type of packaging that represent the handling unit, such as box, pallet, container etx.	BiiDT::Code	tbr16-010		
tir16-062	0..1	Handling unit hazardous indicator	Indicates whether the shipment contains hazardous materials.	BiiDT::Indicator	tbr16-010		

InfRqID	Crd	Tree and Business term	Usage	Data Type	ReqID	InfCID	Note
tir16-063	0..1	Handling unit item quantity	The total number of goods items in the transport handling unit.	BiiDT::Quantity	tbr16-010		
tir16-086	0..1	Handling unit gross weight	Handling gross weight, including packaging as dispatched by dispatching party.	BiiDT::Measure	tbr16-010		
tir16-087	0..1	Handling unit gross volume	Handling gross volume, including packaging as dispatched by dispatching party.	BiiDT::Measure	tbr16-010		
tir16-064	0..1	Handing unit shipping marks	Free-form description of the marks and numbers on a transport unit or package.	BiiDT::Text	tbr16-010		

4.4.1.3 Dispatch Advice Transaction Business Rules

Facts

RuleID	rulenote	target	errorlevel	source	ReqID
BII2-T16-R017	Each despatch advice line SHOULD have a delivered quantity	despatch advice Line	warning	T16	
BII2-T16-R018	An item standard identifier MUST have an identification schema (e.g. GTIN)	Item	fatal	T16	Tbr16-008
BII2-T16-R019	Each despatch advice line delivered quantity MUST not be negative	despatch advice Line	fatal	T16	
BII2-T16-R020	Each despatch advice line delivered quantity MUST have an associated unit of measure	Quantity	fatal	T16	Tbr16-007
BII2-T16-R021	An outstanding quantity reason MUST be provided if the despatch line contains an outstanding quantity	despatch advice Line	fatal	T16	Tbr16-007

Integrity constraints

RuleID	rulenote	target	errorlevel	source	ReqID
BII2-T16-R001	A despatch advice MUST have a customization identifier	despatch advice	fatal	T16	
BII2-T16-R002	A despatch advice MUST have a profile identifier	despatch advice	fatal	T16	
BII2-T16-R003	A despatch advice MUST have a document identifier	despatch advice	fatal	T16	

RuleID	rulenote	target	errorlevel	source	ReqID
BII2-T16-R004	A despatch advice MUST have a document issue date	despatch advice	fatal	T16	
BII2-T16-R005	A despatch advice MUST have an order identifier	despatch advice	fatal	T16	tbr16-003
BII2-T16-R006	A despatch advice MUST have a despatching party	despatch advice	fatal	T16	tbr16-004
BII2-T16-R007	A despatching party MUST have the despatching party name	despatching Party	fatal	T16	tbr16-004
BII2-T16-R008	A despatch advice MUST have a receiving party	despatch advice	fatal	T16	tbr16-005
BII2-T16-R009	A receiving party MUST have the party name or a party identifier	Receiving Party	fatal	T16	tbr16-005
BII2-T16-R010	A despatch delivery address SHOULD have at least all of the following: - Address line - City - Post code - Country code	despatch delivery address	warning	T16	tbr16-005
BII2-T16-R012	A despatch advice MUST have at least one despatch advice line	despatch advice	fatal	T16	
BII2-T16-R013	Each despatch advice line MUST have a despatch line identifier that is unique within the despatch advice	despatch advice Line	fatal	T16	
BII2-T16-R014	Each despatch advice line MUST have an order line reference	despatch advice Line	fatal	T16	Tbr16-007
BII2-T16-R016	Each despatch advice line MUST have an item identifier and/or an item name	despatch advice Line	fatal	T16	Tbr16-008

Conditions

RuleID	rulenote	target	errorlevel	source	ReqID
BII2-T16-R011	Shipment identifier and consignment identifier MUST be provided if the despatched shipment is informed	despatched shipment	fatal	T16	

5 Implementation

The following documents define the binding of the transactions to various syntaxes:

Transaction	Syntax	Binding document
BiiTrns016	UN/CEFACT D11A	BiiTrns16-SB-Cefact.rtf
BiiTrns016	UBL 2.1	BiiTrns16-SB-UBL.rtf

These documents have been annexed to this profile.

Validation tools, such as Schematron files, are available on the BII2 web site: http://www.cenbii.eu/

6 References

6.1 General references relevant for all BII profiles

External documents

- UN/CEFACT Modelling Methodology (available at http://www.untmg.org/specifications/)
- UML (Unified Modelling Language), version 2.0

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

References to BII2 web site